

State-of-the-art DeciMux for Video, with all digital video processing, provides fiber optic transmission of 10 video channels over a single fiber

The Math Fiber Optics™ DeciMux™ for Video, consisting of the 3130 transmitter and 3131 receiver, multiplexes 10 channels of standard analog video into a high-speed serial digital bit stream for transmission over a single fiber optic cable. Because the system employs true digital transmission techniques, performance characteristics are consistent and maintained over the specified distance with absolutely no degradation of signal. There are no FM carriers that need to be tuned or that can drift over time. The low component count and use of custom ASICs increase system reliability and performance.

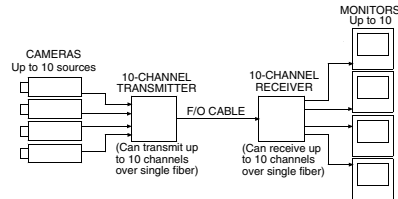
The DeciMux for Video system, designed to work with standard single mode or multimode fiber optic cable, can be free-standing or rackmounted. Both transmitter and receiver come complete with internal power supplies. The transmitter can be equipped with a second optical transmitter to drive a second receiver unit in either an optically redundant system or to send the video to a second location. User-selectable input cable

equalization controls on the transmitter unit allow for long lengths of coax cable, from widely spaced video sources, to be accommodated without any sacrifice in picture sharpness or quality. Built-in diagnostic LEDs for each channel, a loss of signal/broken fiber alarm and color bar generator facilitate rapid setup and the continuous monitoring of all phases of operation.

MODELS AVAILABLE:

Single mode, 1300 nanometers

Multimode, 1300 nanometers



3130/3131
(DeciMux™ for Video)



STANDARD FEATURES INCLUDE:

- All digital processing. No FM carriers to drift and cause crosstalk
- Uncompressed video transmission eliminates artifacts
- Full color and real-time transmission in NTSC/PAL/SECAM
- Can transmit up to 40 miles (65 km) with no degradation in performance using single mode fiber; 0.6 mile (1 km) using multimode fiber
- Uses only one optical wavelength
- Optional second optical transmitter module for redundancy or second location monitoring
- Built-in video test generator (NTSC/PAL)
- Built-in input cable equalization for increasing camera sharpness
- Only 1 rack unit high (1.75 inches) with built-in power supply

EQUIPMENT INCLUDED:

- Transmitter and Receiver must be purchased separately
- An AC line cord is included with each Transmitter and Receiver
- User's Manual
- Rackmount kit

SPECIFICATIONS

Number of Channels:	10
Number of Fibers:	1
Video Bandwidth:	10 Hz - 6.5 MHz (-3 dB)
(all channels at rated distance)	
Video Input:	1 volt p-p or 1.3 volt p-p (selectable)
Input/Output Impedance:	75 Ohms
Input Cable Equalization:	100, 200, 300 feet RG/59
Differential Gain:	2% typical
Differential Phase:	1 degree typical

Tilt:	<1%
Signal-Noise:	>62 dB (CCIR weighting)
(all channels at rated distance)	
Optical Loss Budget:	0-16 dB
Transmission Distance:	0 to 40 miles (65 km) typical, single mode
	0 to 0.6 mile (1 km) typical, multimode
Optical Wavelength:	1300 nanometers
Connectors:	Optical: FCPC single mode, ST multimode; Video: BNC
Test Signal Generator:	Color bars in NTSC and PAL format
Operating Temp:	-25 to +65 degrees C
Relative Humidity:	10% - 90% (non-condensing)
Operating Power:	95-250 VAC, 47-63 Hz
Size (in.):	1.75 H x 16.75 W x 14 D in. (1RU)
	(44 x 425 x 356 mm)

ORDERING INFORMATION

Transmitter Single Mode	3130-7
Transmitter Multimode	3130-3
Receiver Single Mode	3131-7
Receiver Multimode	3131-3
Optional Second Optical Transmitter Module (SM)	6400-7
Optional Second Optical Receiver Module (SM)	6410-7
Optional Second Optical Transmitter Module (MM)	6400-3
Optional Second Optical Receiver Module (MM)	6410-3

WARRANTY

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

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