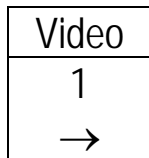


## ECT100-MM SINGLE CHANNEL VIDEO FM MINI OPTICAL LINK



ECT100-MM system provides high performance link for transmitting a unidirectional composite video signal over a fiber optic cable.

The system features CCTV professional video quality and guarantees quality transmission of video signals with maximum bandwidth up to 14MHz.

The ECT100-MM FM video mini transmitter/receiver are fully compatible with any ECT100, ECT200 or ECT400 type receiving/transmitting systems allowing for mixed configurations when required.

The ECT100-MM FM video mini transmitter/receiver utilizes linear frequency modulation and very low noise transmission technology to assure high quality and stability.

### ORDERING INFORMATION

100E-VT-MM1Z – transmitter mini module

100E-VR-MM1Z – receiver mini module

- E = M for multimode 850nm
- = M(13) for multimode 1300nm
- = S for single mode or 1310nm (for transmitters)
- = S(15) for single mode 1550nm (for transmitters)

Z = ST or FC optical connectors

### FEATURES

- ❑ CCTV Professional Video Quality
- ❑ Up to 14 MHz Video Bandwidth
- ❑ Compatible with NTSC, PAL and SECAM Transmission
- ❑ Isolates EMI, RFI, Ground Loops
- ❑ Multimode and Singlemode Versions
- ❑ Power/Signal Status Indicator
- ❑ Compatible with 100 - 400 Series
- ❑ Compatible with 6 - 12 VDC Power Sources

<b>Operating Wavelength</b>	850 nm	1300 nm	1310/1550nm
<b>Optical Core Diameter</b>	50μ/62.5μ		8/10μ
<b>Optical Power Source</b>	VCSEL	LED	Laser
<b>Optical Power Output*</b>	-4 dBm	-14 dBm	-4 dBm
<b>Receiver Sensitivity</b>	-34dBm	-38 dBm	-40 dBm
<b>Optical Connectors</b>	ST		FC, ST

\*with +/- 1 dBm variation; higher power laser sources are available per special request.

<b>Video Bandwidth @ 1dB</b>	14 mHz
<b>Video Input</b>	75Ω unbalanced
<b>Video Input Level</b>	NTSC: 1.0 V p-p, PAL: 1.3 V p-p
<b>Signal-to-Noise Ratio</b>	60 dB*
<b>Differential Gain</b>	< 3 %
<b>Differential Phase</b>	< 2°
<b>Field Tilt</b>	< 1 %
<b>Luminance Non-Linearity</b>	< 3 %
<b>Power Requirements:</b>	
<b>Transmitter</b>	6-12 VDC @ 100mA for SM & MM/850nm 6-12 VDC @ 140mA for MM/1300nm
<b>Receiver</b>	6-12 VDC @ 150mA
<b>Operating Temperature</b>	-30°C to +70°C (-22°F to +158°F)
<b>Module Dimensions:</b>	
<b>Transmitter**</b>	2.73"(69.4mm) x 1.0"(25.4mm) x 0.92"(23.4mm)
<b>Receiver**</b>	3.42"(86.8mm) x 1.20"(30.7mm) x 0.92"(23.4mm)

\*measured as per RS-250C @ 1km, 62.5μ cable;

\*\*measured without optical & power connectors.

