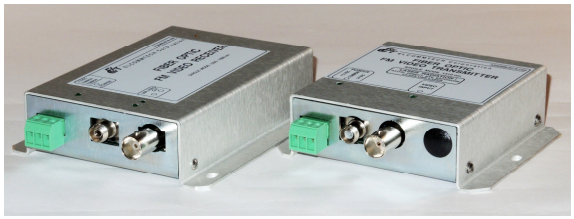
ECT100-R FM VIDEO OPTICAL LINK WITH 0 - 5 V SIGNAL LEVEL RANGE



FEATURES

- Remote Transmission Solution for Radar Display Applications
- Composite and Component Video Transmission
- Video Gen-Lock and Sync Transmission
- Balanced Video Input
- Multimode and Single Mode Versions
- High Accuracy In/Out Signal Transmission with No Adjustments
- Power and Signal Status Indicators

Video
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Operating Wavelength	850 nm	1300 nm	1310/1550nm
Optical Core Diameter	50µ/62.5µ		8/10µ
Optical Power Source	VCSEL	LED	Laser
Optical Power Output*	-3 dBm**	-14 dBm**	-4 dBm
Receiver Sensitivity	-31 dBm	-33 dBm	-35 dBm
Optical Connectors	ST, SC		FC, ST, SC

** with +/- 1 dBm variation;*

*** measured with 62.5µ multimode 1m patch cord.*

The ECT100-R system provides high performance link for unidirectional transmission of video signal 0 - 5 V over a fiber optic cable. The ECT100-R system is designed to be used a remote transmission solution for radar and special purpose display applications. The link can be also used to transmit video gen-lock, sync, and component video signals over fiber optic cable.

The ECT100-R FM transmitter/receiver are fully compatible with ECT400-R type systems allowing for mixed configurations when required.

The ECT100-R utilizes linear frequency modulation and very low noise transmission technology to assure high quality and stability.

System Bandwidth @ 2 dB	10 Hz - 18 MHz
Signal Input Impedance (transmitter)	75 Ohm universal: balanced/unbalanced
Input/Output Signal Level	0 - 5 V @ 75 Ohm
Signal-to-Noise Ratio*	64 dB
Differential Gain*	< 4%
Differntial Phase*	< 4°
Luminance Non-Linearity	< 4%
Sync Tilt (standard window signal)	< 1 %
Power Requirements (transmitter)	11 - 14 VDC @ 150mA, 21 - 27 VAC @ 100mA
Power Requirements (receiver)	12 - 13 VDC @ 250mA, regulated
Operating Temperature	-30°C to +70°C (-22°F to +158°F)
Tx Module Dimensions (without connectors)	3.20"(81mm) x 3.72"(95mm) x 1.1"(28mm)
Rx Module Dimensions (without connectors)	4.17"(106mm) x 3.65"(93mm) x 1.1"(28mm)

**measured as per RS-250C @ 100m for multimode and 1km for single mode optical cable.*

Elcommtech Corp. 2620 Ocean Parkway, Suite 4H, Brooklyn, NY 11235
Tel (718) 743-2869 • Fax (718)648-3642 • E-mail sales@elcommtech.com
http://www.elcommtech.com

ORDERING INFORMATION

100**E**-VT-M1**Z**-R – Video transmitter module

100**E**-VR-M1**Z**-R – Video receiver module

E = **M** for multimode 850 nm
= **M(13)** for multimode 1300 nm
= **S** for single mode receiver or 1310 nm transmitter
= **SP** for single mode high power (=/> 0 dBm) 1310 nm transmitter
= **SPD** for single mode high power (=/> 0 dBm) 1310 nm / DFB transmitter
= **S(15)** for single mode 1550 nm transmitter
= **S(15)P** for single mode high power (=/> 0 dBm) 1550 nm transmitter
= **S(15)D** for single mode 1550 nm / DFB transmitter
= **S(15)PD** for high power (=/> 0 dBm) 1550 nm / DFB transmitter
= **S(W)** for single mode CWDM / DFB transmitter
= **S(W)P** for high power (=/> 0 dBm) CWDM / DFB transmitter

CWDM wavelength **(W)**: **14.7**(1470 nm), **14.9**(1490 nm), **15.1**(1510 nm), **15.3**(1530 nm), **15.5**(1550 nm), **15.7**(1570nm), **15.9**(1590 nm), **16.1**(1610 nm).

Z = **FC, ST, SC** for optical connectors

Note: The specifications are subject to change without notice.

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