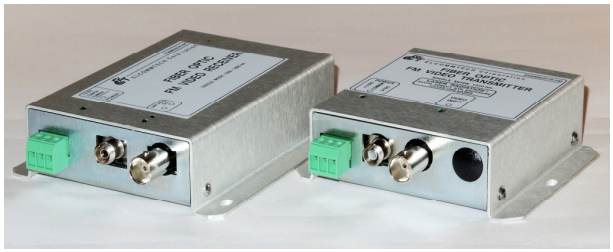
ECT100-R ONE CHANNEL 0-5 V SIGNAL VIDEO FM OPTICAL LINK



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

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
= **S** for single mode receiver and 1310 nm transmitter
= **S(15)** for single mode 1550 nm transmitter
= **SD, S(15)D** for DFB lasers option transmitter

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

Note: The specifications are subject to change without notice

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

Operating Wavelength	850 nm	1310/1550nm
Optical Core Diameter	**50µ/62.5µ**	**8/10µ**
Optical Power Source	VCSEL	Laser
Optical Power Output*	-4 dBm	-6 dBm
Receiver Sensitivity	-31 dBm	-34 dBm
Optical Connectors	ST, SC	FC, ST, SC

**with +/- 1 dBm variation; measured with multimode 62.5µ or single mode 8-10µ 1metre patch cord.*

System Bandwidth @ 3 dB	10 Hz - 12 MHz
Signal Input Impedance	75 Ohm
(transmitter)	universal: balanced/unbalanced
Input/Output Signal Level	0 - 5 V @ 75 Ohm
Signal-to-Noise Ratio*	62 dB
Differential Gain*	< 4%
Differential Phase*	< 4°
Luminance Non-Linearity	< 4%
Sync Tilt	< 2 %
(standard window signal)	
Power Requirements	11 - 14 VDC @ 150mA,
(transmitter)	21 - 27 VAC @ 100mA
Power Requirements	12 - 13 VDC @ 250mA
(receiver)	
Operating Temperature	-20°C to +70°C (-4°F to +158°F)
Tx Module Dimensions	3.20"(81mm) x 3.72"(95mm) x
(without connectors)	1.1"(28mm)
Rx Module Dimensions	4.17"(106mm) x 3.65"(93mm) x
(without connectors)	1.1"(28mm)

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

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