## 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.

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

## **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

**= S(15)D** for single mode DFB 1550 nm 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	-4 dBm
Receiver Sensitivity	-31 dBm	-34 dBm
Optical Connectors	ST, SC	FC, ST, SC

\*with +/- 1 dBm variation.

System Bandwidth @ 3 dB	10 Hz - 10 MHz
Signal Input Impedance	75 Ohm
(transmitter)	balanced or unbalanced
Input/Output Signal Level	0 - 5 V @ 75 Ohm
Signal-to-Noise Ratio*	62 dB
Differential Gain (max)	4%
Differential Phase (max)	4°
Luminance Non-Linearity	4%
(max)	
Sync Tilt (max)	2 %
Power Requirements:	
Transmitter	11 - 14 VDC @ 150mA,
	21 - 27 VAC @ 100mA
Receiver	13.5 VDC @ 250mA
	regulated
Operating Temperature	-20°C to +70°C
	-4°F to +158°F
Dimensions (w/o connectors):	
Transmitter	3.20" x 3.72" x 1.1"
	81mm x 95mm x 28mm
Receiver	4.17" x 3.65" x 1.1"
	106mm x 93mm x 28mm

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

