

ECT100 SERIES

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



Video
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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

100E-VT-M1Z-R – Video transmitter module

100E-VR-M1Z-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

Fiber Type	Multimode		Single Mode
Optic. Core Diameter	50μ/62.5μ		8/10μ
Operating Wavelength	850nm	1310nm	1310/1550nm
Optical Power Source	VCSEL	Laser	Laser
Optical Power Output*	-4 dBm	-14 dBm	-4 dBm
Receiver Sensitivity	-31 dBm	-34 dBm	-35 dBm
Optical Connectors	ST, SC	ST, SC	FC, ST, SC

*with +/- 1 dBm variation.

System Bandwidth @ 3 dB	10 Hz - 10 MHz
Signal Input Impedance (transmitter)	75 Ohm balanced or unbalanced
Input/Output Signal Level	0 - 5 V @ 75 Ohm
Signal-to-Noise Ratio	60 dB
Differential Gain (max)	5%
Differential Phase (max)	5°
Luminance Non-Linearity (max)	5%
Sync Tilt (max)	2 %
Power Requirements:	
Transmitter	11 - 14 VDC @ 150mA, 21 - 27 VAC @ 100mA
Receiver	12-13 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



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