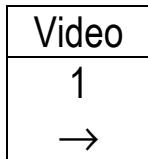


# ECT100 SERIES

## ECT100-R-L SINGLE CHANNEL VIDEO WITH 0 - 5 V SIGNAL AND UP TO 136 km/85 mi RANGE FM OPTICAL LINK



The ECT100-R-L system provides high performance link for unidirectional transmission of video signal 0 - 5 V over a fiber optic cable. The ECT100-R-L 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-L transmitter and receiver are fully compatible with ECT200-R, ECT200-R-L, ECT400-R & ECT400-R-L type systems allowing for mixed configurations when required. The ECT100-R-L utilizes linear frequency modulation and very low noise transmission technology to assure high quality and stability.

### ORDERING INFORMATION

100S-VT-M1Z-R-L – transmitter module  
 100S-VR-M1Z-R-L – receiver module

Z = FC, ST, SC 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
- ❑ Operating Range Up to 136 km / 85 miles
- ❑ High Accuracy In/Out Signal Transmission with No Adjustments
- ❑ Power and Signal Status Indicators

<b>Operating Wavelength</b>	1550 nm
<b>Optical Core Diameter</b>	8/10µ
<b>Optical Power Source</b>	DFB Laser
<b>Optical Power Output</b>	0 (+/- 0.5) dBm
<b>Receiver Sensitivity</b>	-44 dBm
<b>Optical Connectors</b>	ST, SC, FC

<b>System Bandwidth @ 2 dB</b>	10 Hz - 16 MHz
<b>Signal Input Impedance (transmitter)</b>	75 Ohm
<b>Input/Output Signal Level</b>	universal: balanced/unbalanced 0 - 5 V @ 75 Ohm
<b>Signal-to-Noise Ratio*</b>	64 dB
<b>Differential Gain*</b>	< 3%
<b>Differential Phase*</b>	< 3°
<b>Luminance Non-Linearity</b>	< 3%
<b>Sync Tilt (standard window signal)</b>	< 1%
<b>Power Requirements (transmitter)</b>	11 - 14 VDC @ 150mA, 21 - 27 VAC @ 100mA
<b>Power Requirements (receiver)</b>	12 - 13 VDC @ 250mA, regulated
<b>Operating Temperature</b>	-30°C to +70°C (-22°F to +158°F)
<b>Tx Module Dimensions (without connectors)</b>	3.20"(81mm) x 3.72"(95mm) x 1.1"(28mm)
<b>Rx Module Dimensions (without connectors)</b>	4.17"(106mm) x 3.65"(93mm) x 1.1"(28mm)

\*measured with 1km for single mode optical cable and 10 dBm optical attenuation.



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