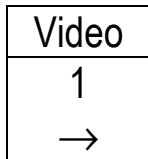


ECT100 SERIES

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

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

System Bandwidth @ 2 dB	10 Hz - 16 MHz
Signal Input Impedance (transmitter)	75 Ohm
Input/Output Signal Level	universal: balanced/unbalanced 0 - 5 V @ 75 Ohm
Signal-to-Noise Ratio*	64 dB
Differential Gain*	< 3%
Differential Phase*	< 3°
Luminance Non-Linearity	< 3%
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 with 1km for single mode optical cable and 10 dBm optical attenuation.



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