

## ECT155 ONE CHANNEL VIDEO WITH RS-485 DATA CHANNEL OPTICAL LINK



Video	Data
1	1
→	↔

ECT155 system provides high performance link for transmitting unidirectional composite video channel along with RS-485 data full channel over one or two fibers. The system features CCTV professional video quality and high speed RS-485 data transfer capability.

ECT155 utilizes linear frequency modulation and very low noise transmission technology to assure high quality and stability.

### ORDERING INFORMATION

155E-VT/DXN-MYZ – video TX/RS-485 data TRX module  
 155E-VR/DXN-MYZ – video RX/RS-485 data TRX module  
 TX - transmitter, RX – receiver, TRX - transceiver

**E** = **M** for multimode 850 nm/TX  
 = **M(13)** for multimode 1300 nm/TX  
 = **S** for single mode 1310 nm/TX  
 = **S(15)** for single mode 1550 nm/TX

**N** = **2, 4** for number of wires  
**Y** = **1** for single fiber system  
 = **2** for dual fiber system

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

**Note:** The specifications are subject to change without notice.

### FEATURES

- ❑ CCTV Professional Video Quality
- ❑ Balanced Video Input
- ❑ Compatible with NTSC, PAL and SECAM Transmission
- ❑ High Speed RS-485 Data Port
- ❑ Two and Four Wire Interface
- ❑ Multimode and Singlemode Versions
- ❑ Power and Signal Status Indicators

Operating Wavelength	850 nm	1300 nm	1310/1550 nm
Optical Core Diameter	50µ/62.5µ		8/10µ
Optical Power Source	VCSEL	LED	Laser
Optical Power Output*	-7 dBm	-14 dBm	-8 dBm
Video & Data Receiver Sensitivity	-31 dBm	-33 dBm	-35 dBm
Video & Data Receiver Sensitivity**	-30 dBm	-32 dBm	-34 dBm
Optical Connectors	ST, SC		FC, ST, SC

\* with +/- 2 dBm variation @ -30 °C to +85 °C; higher power laser sources are available per special request;

\*\* for one-fiber configuration with internal WDM

Video Bandwidth @ 3 dB	7 MHz
Video Input Impedance	75 Ohm balanced
Video Output Impedance	75 Ohm unbalanced
Video Input / Output Level	NTSC: 1.0 Vp., PAL: 1.3 Vp (+1/-3 dB).
Video Input Overload	Up to 3 Vp.
Signal-to-Noise Ratio	62 dB*
Diff. Gain (-20°C to +70°C)	< 4 %
Diff. Gain (-30°C to +85°C)	< 7 %
Diff. Phase (-20°C to +70°C)	< 4 °
Diff. Phase (-30°C to +85°C)	< 7 °
Field Tilt	< 2 %
Luminance Non-Linearity (-20°C to +70°C)	< 4 %
Luminance Non-Linearity (-30°C to +85°C)	< 7 %
Data Interface	RS-422
Data Rate	Up to 200 Kb/s
Bit Error Rate	10 <sup>-9</sup>
Power Requirements	11 – 14 VDC @ 300mA 21 - 27VAC @ 200mA
Operating Temperature	-30°C to +85°C (-22°F to +185°F)
Module Dimensions	6.7"(170mm) x 4.95"(126mm) x 1.32"(34mm)

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



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