

## ECT106

# ONE CHANNEL VIDEO WITH UP-THE-COAX UNIVERSAL P/T/Z DATA CHANNEL OPTICAL LINK



Video	Data
1	2
→	←

ECT106 system provides high performance link for transmitting unidirectional composite video channel along with up-the-coax P/T/Z data return over one or two fibers. The system features CCTV professional video quality and universal multiformat up-the-coax control data transmission. ECT106 utilizes linear frequency modulation and very low noise transmission technology to assure high quality and stability.

### ORDERING INFORMATION

106E-VT/DR-MYZ – video TX/up-the-coax data RX module  
 106E-VR/DT-MYZ – video RX/up-the-coax data TX module  
 TX - transmitter, RX – receiver

**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

**Y** = **1** for single fiber system  
 = **2** for dual fiber system

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

### FEATURES

- ❑ CCTV Professional Video Quality
- ❑ Compatible with NTSC, PAL and SECAM Transmission
- ❑ High Speed P/T/Z Data Transmission
- ❑ Compatible with all existing Up-the-Coax P/T/Z control systems
- ❑ 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 Receiver Sensitivity	-30 dBm	-34 dBm	-36 dBm
Video Receiver Sensitivity**	-29 dBm	-33 dBm	-35 dBm
Data Receiver Sensitivity	-32 dBm	-35 dBm	-37 dBm
Data Receiver Sensitivity**	-31 dBm	-34 dBm	-36 dBm
Optical Connectors	ST, SC		FC, ST, SC

\* with +/- 1 dBm variation; higher power laser sources are available per special request;

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

Video Bandwidth @ 3 dB	7 MHz
Video Input/Output Impedance	75 Ohm unbalanced
Video Input/Output Level	NTSC: 1.0 V p-p, PAL: 1.3 V p-p (+1/-3 dB)
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	Up-the-coax
Power Requirements	11 - 14 VAC/VDC @ 300mA 21 - 27 VAC @ 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

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



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