

ECT106

FM VIDEO WITH UP-THE-COAX UNIVERSAL P/T/Z DATA CHANNELS



Video	Data
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→	←

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 1 fiber or 850nm/2 fiber
 = M(13) for multimode 1300nm/2 fiber
 = S for singlemode 1 fiber or 1310nm/2 fiber
 = S(15) for singlemode 1550nm/2 fiber

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
- ❑ 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	1310/1550nm
Optical Core Diameter	50μ/62.5μ		8/10μ
Optical Power Source	VCSEL	LED	Laser
Optical Power Output*	-8 dBm	-14 dBm	-8 dBm
Receiver Sensitivity	-32 dBm	-34 dBm	-34 dBm
Receiver Sensitivity**	-30 dBm	-32 dBm	-32 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 @1dB	7 MHz
Video Input	75 Ohm unbalanced
Video Input Level	NTSC: 1.0 V p-p, PAL: 1.3 V p-p
Signal-to-Noise Ratio	70 dB*
Differential Gain	< 2 %
Differential Phase	< 2 °
Field Tilt	< 1 %
Luminance Non-Linearity	< 2%
Data Interface	Up-the-coax
Power Requirements	11 - 14 VAC/VDC @ 300mA 21 - 27 VAC @ 200mA
Operating Temperature	-30°C to +65°C (-22°F to +149°F)
Module Dimensions	6.7"(170mm) x 4.95"(126mm) x 1.32"(34mm)

* measured as per RS-250C @ 1km, 62.5μ cable

