

ECT106H

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



Video	Data
1	2
→	↔

ECT106H 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 broadcast video quality providing 10-bit video processing with uncompressed digital transmission. ECT106H utilizes high speed analog-to-digital and digital-to-analog conversion with 10-bit resolution, digital signal processing, time division multiplexing, fibre optic transmission at a data rate of up to 1400 Mbit/sec and high speed up-the-coax control data transfer capability.

ORDERING INFORMATION

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

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

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

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

FEATURES

- Broadcast 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	850/1300 nm	1310/1550 nm
Optical Core Diameter	50μ/62.5μ		8/10μ
Optical Power Source	VCSEL	LED	Laser
Optical Power Output*	-3 dBm	-14 dBm	-3 dBm
Video Receiver Sensitivity	-30 dBm		-33 dBm
Video Receiver Sensitivity**	-28 dBm		-31 dBm
Data Receiver Sensitivity	-34 dBm	-36 dBm	-36 dBm
Data Receiver Sensitivity**	-32 dBm	-34 dBm	-34 dBm
Optical Connectors	ST, SC		ST, SC, FC

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

** for one-fiber configuration with internal WDM.

Video Bandwidth @ 2 dB*	10 MHz
Video Conversion Resolution	10 bit
Video Input	75 Ohm balanced
Video Output	75 Ohm unbalanced
Video Input/Output Level	NTSC: 1.0 V p-p, PAL: 1.3 V p-p
Signal-to-Noise Ratio**	64 dB
Differential Gain	< 0.5 %
Differential Phase	< 0.5 °
Field Tilt	< 0.5 %
Luminance Non-Linearity	< 0.5 %
Data Interface	Up-the-Coax
Power Requirements	11 - 14 VDC @ 350mA 21 - 27 VAC @ 250mA
Operating Temperature	-30°C to +70°C (-22°F to +158°F)
Module Dimensions	6.7"(170mm) x 4.95"(126mm) x 1.32"(34mm)

* higher video bandwidth (up to 26 MHz) is available per special request

** measured as per RS-250C @ 4km, 8-9μ cable

