

ECT100 SERIES

ECT120 ONE CHANNEL VIDEO AND TWO CHANNEL AUDIO FM OPTICAL LINK



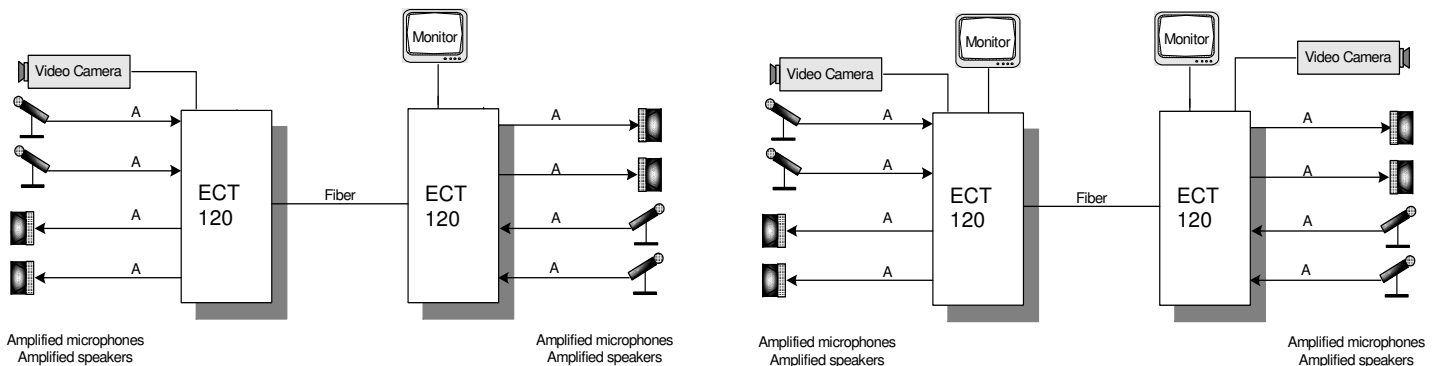
FEATURES

- * CCTV Professional Video & Audio Quality
- * NTSC, PAL, SECAM Compatible
- * Screw Terminal Block Audio Connectors
- * ST, FC or SC Optical Connector
- * Balanced Video Input
- * No User Adjustments
- * Status Monitor LEDs
- * Dry Contact Lost Link Alarm

APPLICATIONS

- * Video-conferencing and Media Broadcasting
- * Security and Surveillance
- * Campus Media Retrieval/Distance Learning
- * Studio Applications

LAYOUT DIAGRAM



Elcommtech Corp. 2620 Ocean Parkway, Suite 4H, Brooklyn, NY 11235
Tel (718) 743-2869 • Fax (718)648-3642 • E-mail sales@elcommtech.com
<http://www.elcommtech.com>

SPECIFICATIONS

Video Performance

Video Input Impedance	75 Ohm, balanced
Video In/Output Voltage	1.0V p-p typ, 1.5V max
Frequency Response @ 2dB	10Hz to 6.5MHz
Differential Gain (10-90% APL)	< 4%
Differential Phase (10-90% APL)	< 4°
Signal to Noise Ratio	60dB (weighted)**

Audio Performance

Audio Input Impedance	600 Ohm or 10K, balanced or unbalanced
Audio Input Level	up to +8 dBm* or up to +18 dBm
Audio Output Level	up to +8 dBm @ 600 Ohm or 10K balanced or unbalanced
	up to +18dBm @ 10K, balanced
Frequency Response @ 3dB	20Hz to 20kHz
Distortions	< 1.5%
Signal to Noise Ratio	> 62dB (weighted)**

*with normal level 0 dBm;

**measured with 1km/8-10μ SM and 100m/62.5μ MM cable

General Parameters

Operating Temperature	- 20°C to +70°C
Storage Temperature	- 40°C to +85°C
Operating Humidity	0 to 95% non-condensing

Dimensions

156mm (6.15") L, 84mm (3.3") W, 62mm (2.42") H

Power (optional)

option 1	6 - 7 VDC, 0.45A
option 2	10 -15 VDC, 0.38A

Mean Time Between Failures (MTBF) >100,000Hrs.

Optical Performance

Operating Wavelength	850nm	1310 and/or 1550nm
Transmitter Optical Source	VCSEL	Laser
Fiber Type	50/125 μ or 62.5/125 μ	8 – 10 μ
Transmitter Output Power (with +/- 1dBm variation)	-4 dBm	-6 dBm
Receiver Sensitivity (2 fiber)	-34 dBm	-34 dBm
Optical Loss Budget (2 fiber)	30 dB	28 dB
Receiver Sensitivity (1 fiber)	-28 dBm @ 850nm	-33 dBm
Optical Loss Budget (1 fiber)	24 dB @ 850nm	27 dB

ORDERING INFORMATION

120E-V/AX-M(P)YZ – for unidirectional 1 ch. video and bidirectional 2ch. audio

120E-VAX-M(P)YZ – for bidirectional 1 ch. video and 2ch. audio

- E = M for multimode receiver and 850 nm transmitter
- = S for single mode receiver and 1310nm transmitter
- = S(15) for single mode receiver and 1550nm transmitter
- = SD, S(15)D for DFB lasers option for transmitter
- P = 12 for 10-15 VDC power option
- Y = 1, 2 for number of fibers
- Z = FC, ST, SC for optical connector

Note: The specifications are subject to change without notice.



Elcommtech Corp. 2620 Ocean Parkway, Suite 4H, Brooklyn, NY 11235
 Tel (718) 743-2869 • Fax (718)648-3642 • E-mail sales@elcommtech.com
<http://www.elcommtech.com>