

ECT100 SERIES

ECT120 ONE CHANNEL VIDEO AND TWO CHANNEL AUDIO FM OPTICAL LINK



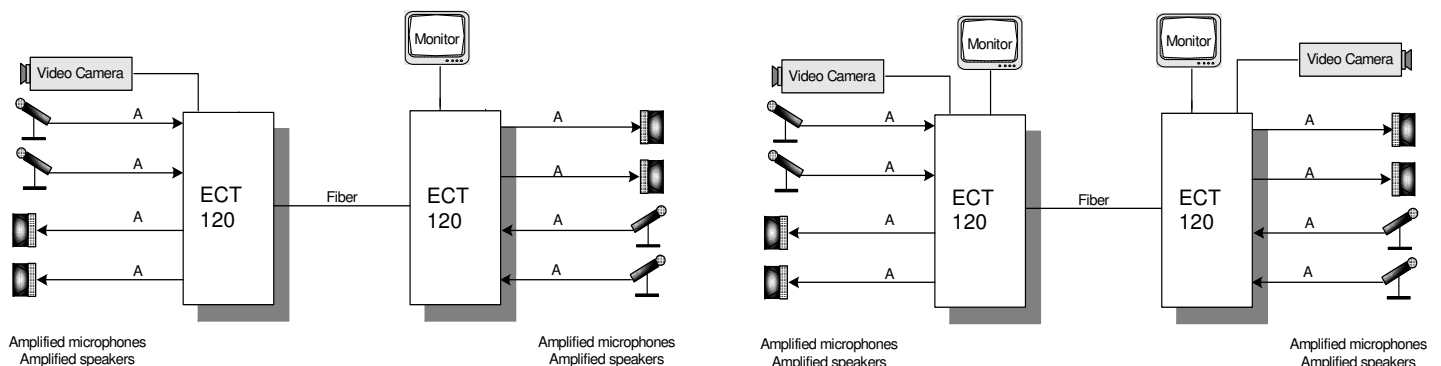
FEATURES

- * 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



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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	62 dB (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	62 dB (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, 0.4A
option 2	10 -14 VDC, 0.2A

Optical Performance

Operating Wavelength	850 nm	1310 and/or 1550 nm
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	-4 dBm
Receiver Sensitivity (2 fiber)	-30 dBm	-34 dBm
Optical Loss Budget (2 fiber)	26 dB	30 dB
Receiver Sensitivity (1 fiber)	N/A	-33 dBm
Optical Loss Budget (1 fiber)	N/A	29 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
 = **S(15)D** for single mode DFB 1550 nm transmitter
P = **12** for 10-15 VDC power option
Y = **1, 2** for number of fibers (1 fiber for single mode only)
Z = **FC, ST, SC** for optical connecto

Note: The specifications are subject to change without notice.



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