

## ECT100 SERIES

### ECT120

### ONE CHANNEL VIDEO AND TWO CHANNEL AUDIO FM OPTICAL LINK



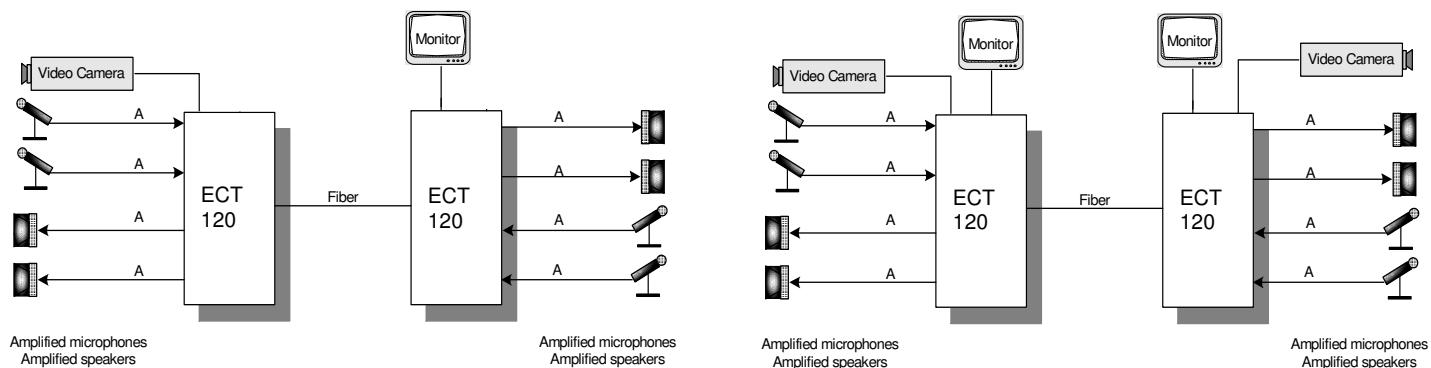
### FEATURES

- \* 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<br>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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