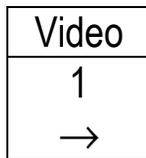


## ECT100B

## SINGLE VIDEO FM OPTICAL LINK WITH 30 MHZ CHANNEL BANDWIDTH



The ECT100B system provides high performance link for unidirectional transmission of composite video signal over a fiber optic cable. The system features CCTV professional video quality and guarantees quality transmission of video signals with maximum bandwidth up to 30 MHz.

The system is designed for transmission of high resolution video signals (700+ TVL) and other special applications that may require wide band transmission path.

The ECT100B transmitter/receiver are fully compatible with any ECT200B or ECT400B type systems allowing for mixed configurations when required.

The ECT100B utilizes linear frequency modulation and very low noise transmission technology to assure high quality and stability.

### FEATURES

- ❑ CCTV Professional Video Quality
- ❑ Up to 30 MHz Video Bandwidth
- ❑ Balanced Video Input
- ❑ Compatible with NTSC, PAL and SECAM Transmission
- ❑ Multimode and Singlemode Versions
- ❑ Power and Signal Status Indicators

<b>Operating Wavelength</b>	850 nm	1300 nm	1310/1550nm
<b>Optical Core Diameter</b>	50μ/62.5μ		8/10μ
<b>Optical Power Source</b>	VCSEL	LED	Laser
<b>Optical Power Output*</b>	-3 dBm**	-14 dBm**	-4 dBm
<b>Receiver Sensitivity</b>	-31 dBm	-33 dBm	-35 dBm
<b>Optical Connectors</b>	ST, SC		FC, ST, SC

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

\*\* measured with 62.5μ multimode 1m patch cord

<b>Video Bandwidth @ 2dB</b>	10Hz - 30 MHz
<b>Video Input</b>	75 Ohm universal: balanced or unbalanced
<b>Video Input/Output Level</b>	NTSC: 1.0 V p-p, PAL: 1.3 V p-p
<b>Signal-to-Noise Ratio</b>	66 dB*
<b>Differential Gain</b>	< 3%
<b>Differential Phase</b>	< 3°
<b>Field Tilt</b>	< 1%
<b>Luminance Non-Linearity</b>	< 3%
<b>Power Requirements</b>	11 - 14 VDC @ 200mA, 21 - 27 VAC @ 150mA
<b>Operating Temperature</b>	-30°C to +70°C (-22°F to +158°F)
<b>Tx Module Dimensions (without connectors)</b>	3.20"(81mm) x 3.72"(95mm) x 1.1"(28mm)
<b>Rx Module Dimensions (without connectors)</b>	4.17"(106mm) x 3.65"(93mm) x 1.1"(28mm)

\*measured as per RS-250C @ 100m for multimode and 1km for single mode optical cable;



## ORDERING INFORMATION

100BE-VT-M1Z – Video transmitter module

100BE-VR-M1Z – Video receiver module

- E = **M** for multimode 850 nm
- = **M(13)** for multimode 1300 nm
- = **S** for single mode receiver or 1310 nm transmitter
- = **SP** for single mode high power ( $\geq 0$  dBm) 1310 nm transmitter
- = **SPD** for single mode high power ( $\geq 0$  dBm) 1310 nm / DFB transmitter
- = **S(15)** for single mode 1550 nm transmitter
- = **S(15)P** for single mode high power ( $\geq 0$  dBm) 1550 nm transmitter
- = **S(15)D** for single mode 1550 nm / DFB transmitter
- = **S(15)PD** for high power ( $\geq 0$  dBm) 1550 nm / DFB transmitter
- = **S(W)** for single mode CWDM / DFB transmitter
- = **S(W)P** for high power ( $\geq 0$  dBm) CWDM / DFB transmitter

CWDM wavelength (**W**): **14.7**(1470 nm), **14.9**(1490 nm), **15.1**(1510 nm), **15.3**(1530 nm),  
**15.5**(1550 nm), **15.7**(1570nm), **15.9**(1590 nm), **16.1**(1610 nm).

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

**Note:** The specifications are subject to change without notice.



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