

BVT / BVR 250 series

Multimode fiber – Video Transmission



The Ernitec Series 250 is a range of units capable of transmitting video signals on multimode fibres up to a distance of 3000 m, depending on the fibre type.

The various types of transmitters and receivers are fully compatible, meaning for example that a BVT transmitter can send to an EVR receiver without any problems.

The transmitter units have a composite video input and a fibreoptic output.

In addition, the EVT-250 has a video monitoring coax output with a selectable 1.0 Vpp or 1.2 Vpp video output.

The receiver units have a composite coax video output (two outputs on the EVR-250) and a fibreoptic input. The video output level can be set to 1.0 Vpp or 1.2 Vpp and the frequency response may be lifted by 3 dB @ 5 MHz, all by means of jumper settings.

The receivers have built-in AGC which automatically compensates for the loss in the optical fibre, thereby eliminating the need for adjusting the receiver to the length of the optical fibre.

3.000 m

IP65

-25° C

Specification

Video Specifications¹	
Video type:	525 or 625 line composite, colour or monochrome
Connector type:	75 ohm BNC
Nominal video input level (BVT):	1 Vpp (max. 1.5 Vpp)
Video output level (BVR):	1 Vpp nominal, 1.2 Vpp by jumper setting
Video output HF boost (BVR):	+3 dB @ 5 MHz by jumper setting
Number of video outputs:	1
Bandwidth:	10 Hz to 8 MHz
Signal to noise ratio, 5 dB attenuation:	> 55 dB unweighted
K-factor:	< 0.5 %
2T pulse/bar ratio:	> 93%
Luminance non-linearity:	< 3% pp
Field time distortion:	< 0.5%
Differential gain @ 4.43 MHz:	< 3 %
Differential phase @ 4.43 MHz:	< 2 %
Group delay, 100 Hz to 5 MHz:	< ± 10 nsec.
Fibreoptic Specifications (All types)	
Connector type:	ST
Fibre type:	62.5/125 µm or 50/125 µm ²
Transmitter type:	LED
Wavelength:	820 nm nominal
Power budget:	7 dB
Output voltage:	12 VDC
Current:	750 mA
General Specifications	
Supply voltage and power consumption:	230 VAC ± 10 %, 45 - 60 Hz (115 VAC optional), < 5 VA
Enclosure:	Boxed, IP65
EMI / EMC:	EN 50081-1, EN 50130-4
Safety:	EN 60950
Humidity:	< 85 % relative @ 1 bar
Temperature range:	-25° to +55°C
Size (W x H x D):	120 x 55 x 122 mm

¹ All video specifications are for the equipment installed back-to-back, except where noted.