

# OM-7

## Fiber Optic Analog Video Link

### Applications

- Remote surveillance
- High quality video systems



### Description

When higher quality video is desired, use the OM7-T to transmit NTSC or PAL baseband video signals over a multimode fiber.

The OM7-R receives this signal and outputs high quality video.

### Features:

- Compact
- Low cost
- Good link margin
- High quality video
- Power indicator
- Optical Link indicator
- Squelch
- Automatic gain control
- Video clamping circuit
- Low power consumption
- Stand alone or Rack mount
- NTSC or PAL

### Specifications

#### Optical

Light source .....	SLED for multimode fiber
Operating Wavelength M version .....	850 nm
MM version .....	1300 nm
Optical output 50/125 fiber .....	-19 dBm min.
62.5/125 fiber .....	-16 dBm min
Optical Sensitivity .....	-28 dBm
Optical Connectors .....	ST
Operating distance with 62.5/125 fiber	
at 3dB loss/Km M version .....	4Km
at 1dB loss/Km MM version .....	12Km

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### Specifications

#### Analog Interface

Differential Gain .....	< 3%
Differential Phase .....	< 2°
Amplitude vs Frequency .....	± 3%
Chrominance to Luminance gain inequality .....	< -1/+4 IRE
Chrominance to Luminance delay inequality .....	< 20 ns
Luminance Non-Linearity .....	< 2.5%
Chrominance Non-Linear Gain .....	< 2%
Dynamic Gain of Luminance .....	2%
Dynamic Gain of Sync .....	2 IRE
Analog I/O connectors .....	BNC coaxial
Input Level including sync tip .....	0.9-1.3Vpp
Output Level including sync tip .....	0.95-1.05Vpp
Input Impedance OM7-T .....	75 ohms
Output Impedance OM7-R .....	75 ohms
Input level .....	0.1 to 1.7Vpp
Output level .....	1Vpp or 1.7 Vpp
Bandwidth .....	Hi gain setting >100Hz to 10 Mhz

#### Electrical

Power Consumption .....	< 1 Watt / transmitter or receiver
Power Source stand alone version .....	External 12V DC power cube
Power Source rack mount version .....	Incorporated in the RMF30 Rack
Power requirement (TX) .....	11v Dc to 18v Dc @ 60mA
Power requirement (RX) .....	11v Dc to 18v Dc @ 180mA

#### General

Operating temperature .....	-10°C to 55°C
Humidity (RH) .....	10% to 95%
Dimensions Transmitter (HxWxD) .....	1.4" x .8" x 2.5"
Dimensions Receiver (HxWxD) .....	2.5" x .8" x 3.7"

\*Specifications subject to upgrade without notice.

### Part Numbers

<b>OM7 - T</b>	Transmitter
<b>OM7 - R</b>	Receiver

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