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Video

Audio

Data

Mini-size One-channel (IM) Video Transmission System

The MMV-110 Mini is an Intensity Modulated (IM), LED-based fiber optic Video transmission system with Automatic Gain Control (AGC) and an LED for status monitoring. It is NTSC, PAL and SECAM compatible, ideal for the extension of a B&W or color CCTV camera.

System Design

All units come in a small module form factor. They can sit on a flat surface or can be surface mounted with the flanges provided. The regulated switching power supply has short circuit protection, and an input operating voltage of 85-265 V_{AC}. All MMV-110 Standard, Mini and Micro models are link compatible.



Features

- Multimode operation over one fiber
- 15 MHz video bandwidth with AGC
- True DC Restoration
- Flat Frequency Response
- Complies with RS-170, & 170A EIA video standards
- Compatible with NTSC, PAL, and SECAM video signals
- No EMI or RFI and no ground loops
- Stand Alone or Rack Mount
- Ideal for CCTV camera extensions
- Loss of Signal Alarm

| 865 | 1310 | 1550 | Type | Mode | Wavelength Suffix | Fiber Type | Output Power | Receiver Sensitivity | Optical Loss Budget | Range* | Conn Type |
|-----|------|------|------|------|----------------------|----------------------|-----------------|-------------------------|---------------------------|--------|--------------|
| • | | | LED | MM | L0 | 50/125μ 62.5/125μ | -18 dBm | -25 dBm | 7 dB | 2.5 km | ST |

* Chromatic dispersion and additional losses should be taken into account.

Composite Video, Audio & Data

Video

| | |
|------------------------|------------------------------------|
| Video in/out impedance | 75 Ω |
| Video in/out level | 1 volt peak to peak, 1.5 volts max |
| Video bandwidth | 10 Hz to 15 MHz @ -3dB |
| Differential gain | < 1.5 % typical |
| Differential phase | < 1.5° typical |
| Linearity | \pm 1.1 % typical |
| Tilt | \leq .05 % typical |
| Compatibility | NTSC, PAL, SECAM, RS-170, RS-170A |
| Connector type | BNC |

General

| | | |
|-----------------------|--|------|
| Dimensions & Weight | 2.25" L x 1.25" W x 0.75" H | 3 oz |
| Operating temperature | -20° C to +70° C | |
| Storage temperature | -30° C to +85° C | |
| Humidity | 0 to 95% non-condensing | |
| Operating voltage | 12 V _{DC} (200mA) or 24 V _{AC} (300mA) | |
| Optical Dynamic Range | 9 dB | |
| Vibration | Up to 5 g's | |
| Shock | Up to 12 g's | |

Diagnostics

| | |
|-------------------|----------------|
| Status monitoring | LED indication |
|-------------------|----------------|

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10 **ISO**
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CE

FCC PART 15
COMPLIANT

MADE IN THE USA

Sample Configuration

