MMV-110 Standard
1-channel 15 MHz Video

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Video

Audio

Data

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

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

System Design

All of our units come in a Stand Alone, small Standard Module, or Insert Card version. The cards can be inserted into our 18 slot, 19" rack-mountable card cage (CC-18-80W) or one of our smaller Desk Top Card Racks (DTCR series). The DTCR series can handle one, two, four or seven cards, allowing for greater flexibility and future expansion. They can sit on a flat surface as a larger Stand Alone unit, or can be surface mounted with the flanges provided. Each one of our card housings operates with an appropriate power supply. The regulated switching power supply has short circuit protection, and an input operating voltage of 87-264 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 Sstandards
- 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

865	1310	1550	Type	Mode	Wavelength Suffix	Fiber Type	Output Power	Receiver Sensitivity	Optical Loss Budget	Range*	Conn Type
●			LED	MM	L0	50/125μ	-20 dBm	-44 dBm	24 dB	3 km	ST
●						62.5/125μ	-17 dBm	-44 dBm	27 dB	4 km	ST

* Chromatic dispersion should be taken into account.

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	± 1.1 % typical
Tilt	≤ 0.5 % typical
Compatibility	NTSC, PAL, SECAM, RS-170, RS-170A
Signal to noise ratio	>67 dB using RS-250C standards @ 1 km
Connector type	BNC

General

Dimensions & Weight	Stand Alone (SA): 3.5" L x 2.3" W x 1.0" H	60 oz
	Insert card (IC): 6.3" L x 0.8" W x 4.0" H	11 oz
Operating temperature	-30° C to +60° C	
Storage temperature	-55° C to +85° C	
Humidity	0 to 95% non-condensing	
Operating voltage	12 V_{DC} (200 mA) or 24 V_{AC} (300 mA)	
Vibration	Up to 5 g's	
Shock	Up to 12 g's	

Diagnostics

Status monitoring	LED indicator

Selection Guide

Digital Broadcast

AM/IM Analog

SWFM Analog

Analog-to-Digital

RGB Video

Datacom

RF CATV

Appendix

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Opticomm reserves the right to change product specifications without notice.

FCC PART 15 COMPLIANT   C E

Emissions: FCC Part 15, ICES-003, AS/NZS, 3548, EN55022
Immunity: ENVS0204, EN61000-4-2,3,4,5,6,11
Safety: UL1950, CAN/CSA 22.2, NO.950-95

MADE IN THE USA

Sample Configuration

Video → MMV-110 XMT → 1 Fiber → MMV-110 RCV → Video

STANDARD   STANDARD