opticomm
travel by light™

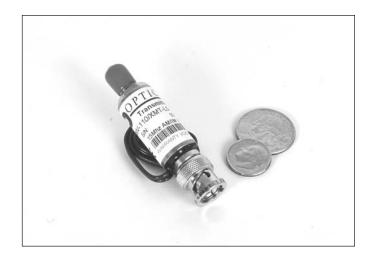**1** → Video

Audio

Data

Micro-size One-channel (IM) Video Transmitter

The MMV-110 Micro is an Intensity Modulated (IM), LED-based fiber optic Video transmitter. NTSC, PAL and SECAM compatible, the Micro is ideal for B&W or color CCTV camera transmission.

System Design

The MMV-110 Micro transmitter has a compact, cylindrical casing and features a BNC mount. This unit is also available without the casing, as a hybrid card suitable for soldering. The MMV-110 Micro transmitter is paired with the MMV-110 Standard or Mini receiver, both of which provide Automatic Gain Control (AGC). Please see the MMV-110 Standard or MMV-110 Mini product pages for specific system design features.

The MMV-110 Micro transmitter is also compatible with any of Opticomm's Insert Card receivers, which can be mounted into a Desk Card Rack (DTCR-1, 2, 4 or 7) or the CC-18-80W chassis. This allows for greater flexibility and future expansion. Each of our card housings operates with an appropriate power supply.

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

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	-28 dBm	10 dB	2.5 km	ST

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

800-867-8426 • info@opticomm.com • www.opticomm.com • Contact Opticomm for custom requirements.

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	Micro cylinder: 2.0" L x 0.65 diameter	1 oz
	Hybrid card: 1.8" L x 0.5" W	1 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} (200 mA)	
Vibration	Up to 5 g's	
Shock	Up to 12 g's	

Diagnostics

Status monitoring	LED indication

Optiva™ Configurable Communication Platform

Network Management

SDI & HD-SDI

Composite Video, Audio & Data

RGB/VGA/DVI

Audio/FSK/Intercom

Data (Ethernet/Serial/USB)

CATV/RF & L-Band

Optical Switching, Routing & Redundancy

Passive Multiplexing Solutions

Enclosures, Racks & Frames

Power Supplies & Accessories

10 YEAR WARRANTY

ISO 9001:2000 CERTIFIED

CE

FCC PART 15 COMPLIANT

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

MICRO

STANDARD OR MINI