

One-way Video, One Duplex Audio, and One Duplex Data for PTZ

The FMV-586 is a simplex Video transmission system with one duplex Audio port and one duplex Data port for PTZ, ideal for CCTV cameras and traffic surveillance. Status indicators on Video, Sync, Data, carrier detect, voltage, temperature, and optical levels are monitored via LEDs.



System Design

All units come in a small 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 Desktop Card Racks (DTCR series).

The Desktop Card Racks 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 85-265 V_{AC}.



Features

- Multimode or singlemode operation over one fiber
- 10 Hz to 20 KHz audio bandwidth
- True DC restoration
- Flat frequency response
- Complies with RS-170 and RS-170A EIA video standards
- Compatible with NTSC, PAL and SECAM
- No EMI or RFI and no ground loops
- Stand Alone or Rack Mount
- Ideal for CCTV cameras, surround sound, traffic surveillance control, and ITS

| 865 | 1310 | 1550 | 1270-1610 (CWDM) | Type | Mode | Wavelength Suffix | Fiber Type | Output Power | Receiver Sensitivity | Optical Loss Budget | Range* | Conn Type |
|-----|------|------|---------------------|-------|------|----------------------|---------------|-----------------|-------------------------|---------------------------|----------|--------------|
| • | • | | | LED | MM | L0/L1 | 50/125μ | -16 dBm | -34 dBm | 18 dB | 3 km | ST |
| • | • | | | | | | 62.5/125μ | | | | | |
| | • | • | | Laser | SM | L2/L3 | 09/125μ | -10 dBm | -34 dBm | 24 dB | 25 km | FC |
| | | | • | Laser | SM | L4 | 09/125μ | -3 dBm | -36 dBm | 33 dB | 25-90 km | FC |

* 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 | 5 Hz to 7 MHz @ -3dB |
| Differential gain | < 1.0 % typical |
| Differential phase | < 1.0° typical |
| Linearity | \pm 1.1 % typical |
| Tilt | \leq 0.5 % typical |
| Compatibility | NTSC, PAL, SECAM, RS-170, RS-170A |
| Signal to noise ratio | >67 dB using RS-250C standards @ 1 km |
| FM carrier frequency | 70 MHz |
| Connector type | BNC |

Audio

| | |
|---------------------------|---|
| Audio in/out impedance | 600 Ω or 10k Ω – balanced or unbalanced |
| Audio in/out level | -6 to +6 dBm |
| Frequency response | 10 Hz to 20 KHz |
| Signal to noise ratio | > 60 dB |
| Total harmonic distortion | < 1.0 %, 1 KHz at maximum modulation |
| Connector type | Hi-density 15 pin DB9 (DE15) |

Data

| | |
|------------------------|--|
| Data rate | DC to 300 Kbps |
| Bit error rate | 10 ⁻⁹ |
| Data formats available | Async RS-232, RS-422, RS-485/2W, Genlock, Manchester, 20 mA current loop, TTL, or six Contact Closures |
| Connector type | Hi-density 15 pin DB9 (DE15) |

General

| | | |
|-----------------------|---|-------|
| Dimensions & Weight | Stand Alone (SA): 7.16" L x 5.21" W x .94" H | 39 oz |
| | Insert Card (IC): 6.3" L x 0.8" W x 4.0" H | 16 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) or 9-24 V _{AC} (6W) or 110/220 V _{AC} | |
| 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 **ISO**
YEAR **9001:2000**
WARRANTY **CERTIFIED**

CE

FCC **PART 15**
COMPLIANT

MADE IN THE USA

Sample Configuration

