



**2CH Video +1CH bi-directional data + 1CH Audio+ 100M
Ethernet Series Video Multiplexer**

OP-VM-2V1F1A1D



Shenzhen Optostar Optoelectronics Co., Ltd

2014. 02(Version 1)

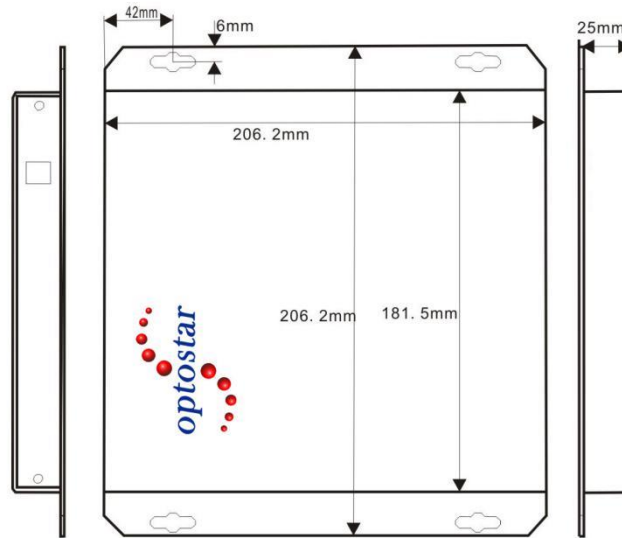
Product Features

- Card-type or Stand-alone type for your choice; suitable for concentration management in 4U Racks
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- 10 –digit coding and non-compression video transmission
- supporting any high –resolution video signal
- automatically compatible with PAL, NTSC and SECAM video format
- Supporting video intact regenerative relay, the video transmission can be reach above 200km
- Supporting advanced SNMP standards, realise long-distance web-controlling
- LED indication of power and other parameter status, monitoring real-time operation
- Modularized and industrialized design ensuring reliability and flexibility

Target Industries

- Intelligent transportation supervisory system (ITS)
- High-speed Way supervisory/Tele-Communication System
- Security protection system, TV medical treatment
- Long-distance Muti-media Schooling, Campus monitoring
- Long-distance broadcast television transmission system
- High-building Security Protection, Military Tele-Com projects

Product Size

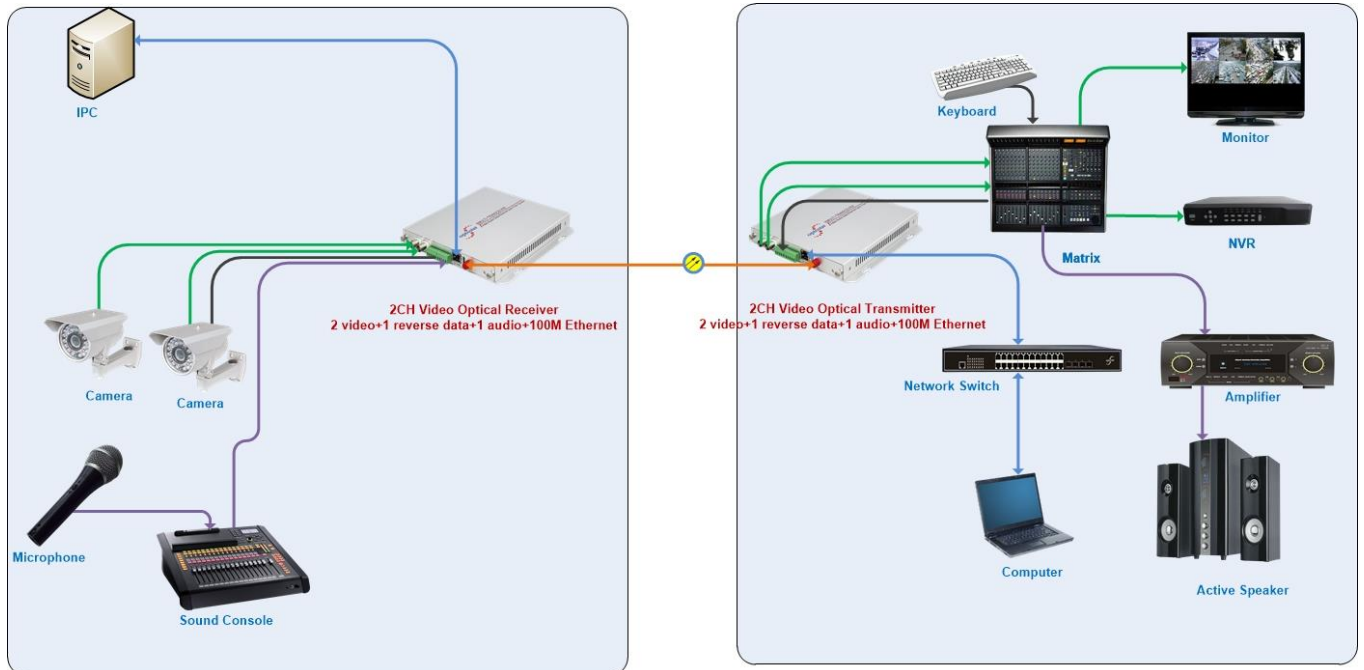


Technical Parameter

| | |
|--------------------|--|
| Product Name | 2CH Video Audio Optical Transceiver with 1CH Data and Ethernet |
| Product Model | OP-VM-2V1F1A1D |
| Connector Type | 2 BNC port, 1 data port, 1 Audio, 1 Ethernet port, 1 FC fiber port |
| Video Interface | BNC |
| Video Bandwidth | 10MHz |
| Video Bit Wide | 8/10/12 bit |
| Differential Gain | (10%-90%APL) DG<1% |
| Differential Phase | 10%-90%APL) DG<0.7dB |
| Video SNR | S/N ≥ 70dB |
| Data Interface | Industrial terminal blocks |
| Data Bit Rate | RS485,RS232 or RS422 |
| Audio Interface | Industrial terminal blocks |
| Audio Bandwidth | 20Hz~20kHz |
| Audio SNR | S/N≥85dB |
| Alarm Feature | switch |
| Ethernet Feature | IEEE802.3U 100Base-TX, UTP 5,10/100M Auto-adaption |

| | |
|---------------------|---|
| Protocol | switch short circuit signal,high and low level signal input,NO and NC signal output |
| Power Supply | External power adapter(input: AC100-240V 50/60Hz; output: 5V 1A) |
| Power Consumption | 2.5W(Input:DC5V 1000mA) |
| Working Environment | Environment temperature: -40 °C ~+85 °C; storage temperature:-45 °C ~+95 °C; relative humidity: 0~95% |
| Dimension | LxWxH:116X87.5X25.5mm |
| Certification | FCC Class A, CE, ROHS |
| Warranty | 3 years |

Application



Order Information

| Model | Description | Max Transmission Distance (KM) |
|----------------------|--|--------------------------------|
| OP-VM-2V1F1A1R-M-0.5 | 2 video +1 reverse data+ 1 audio+100M ethernet | 0.5 KM(Multi-mode) |
| OP-VM-2V1F1A1R-S-20 | 2 video +1 reverse data+ 1 audio+100M etherne | 20KM(Single-mode) |



| | | |
|---------------------|---|-------------------|
| OP-VM-2V1F1B1R-S-20 | 2 video+1 reverse data+1 bi-directional audio+100M ethernet | 20KM(Single-mode) |
| OP-VM-2V1F1B1D-S-20 | 2 video+1 bi-directional data+1 bi-directional audio+100M ethernet | 20KM(Single-mode) |
| OP-VM-2V1F2B2D-S-20 | 2 video+2 bi-directional data+2 bi-directional audio+100M ethernet | 20KM(Single-mode) |
| OP-VM-2V1F1B1D-S-20 | 2 video+1 bi-directional data+ 1 bi-directional audio+100M ethernet | 20KM(Single-mode) |

Note: The interface can be ST or FC, according to the different requirements from customers. The fiber optic transmission distance can be ordered. (40km, 60km, 100km...)

(F:10/100M Ethernet;G:10/100/1000 Ethernet; T:Telephone ; V:Forward Video;E: Bi-directiona Video; A:Forward audio; B:Bi-directiona audio; R: reverse data; D:Bi-directiona Data; W:Switch/alarm)

S-40:40KM; S-60: 60KM; S-100: 100KM -S: Single-mode; -M: Multi-mode

Package include

| No | Package List |
|----|-------------------------------|
| 1 | Video Multiplexer Multiplexer |
| 2 | User Guide |
| 3 | Warranty Card |
| 4 | Qualified Certification |
| 5 | Power Adapter |
| 6 | Facility |

Important Notice

Performance figures, data and any illustrative material provided in this data sheet are typical and must be specifically confirmed in writing by OPTOSTAR before they become applicable to any particular order or contract. In accordance with the OPTOSTAR policy of continuous improvement specifications may change without notice.

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