



4 HD CVI/AHD Optical Transceiver

OP-VM-HD4CVI



Shenzhen Optostar Optoelectronics Co., Ltd

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Description

HDCVI optical transceiver is designed by Beyond for long-distance fiber transmission of HDCVI HD compound video, adopt the compressed digital photoelectric conversion technology by their research and development, use fiber to transfer Millions of pixel HD video by dot to dot, and realize video transmission without delay and with high reliability. Single fiber can transfer 1-4 CH HDCVI HD compound video at the same time.

HDCVI HD optical transceiver supports two HD video format 1280H and 1920H, supports two resolution ratio 1280×720 and 1920×1080, four frame rate 25,30,50,60, six HD format 1280H/25f, 1280H/30f, 1280H/50f, 1280H/60f, 1920H/25f, 1920H/30f.

Product Features

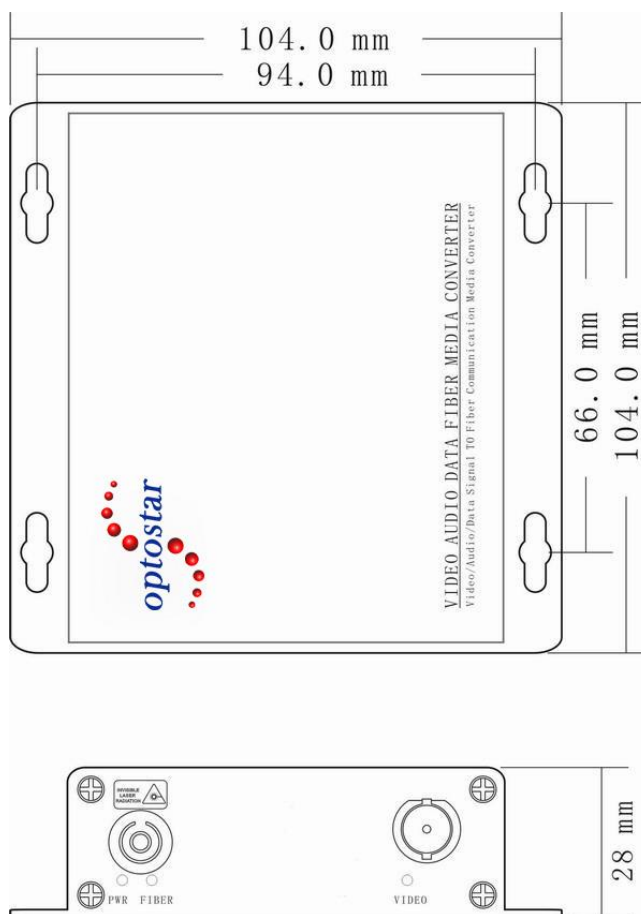
- Aluminum alloy shell wall or 1 u case
- Support 1280H and 1920H two HD video format
- All interface adopts three-level anti-static, lightning protection
- Ultra-wide optical dynamic range and advanced adaptive technology , and transmission distance is up to 40 km
- Surface Mount Optical Device, and ensure small volume of products, high stability, high reliability
- Very low electromagnetic interference (EMI)、radio-frequency interference (RFI) and a total of ground loop interference
- Rich LED lights, diagnostics indicator
- Plug and play, support hot plug
- The advantage of small dimension, small power, strong anti-interference ability, high fidelity
- Industrial-grade ultra wide temperature range (-40℃~+85℃), adapt to the more environment
- Support user customization and OEM

Target Industries

- City traffic monitoring system
- Public security and safe city monitoring system

- Security and charging system on the highway
- Building, campus monitoring network
- Industrial monitoring (airport, chemical, steel, petroleum, railway, water conservancy, mining, etc.)
- Military monitoring (warehouse, frontier defense, the guards, national defense, etc.)
- Television transmission system
- Gymnasium (live video and audio transmission)

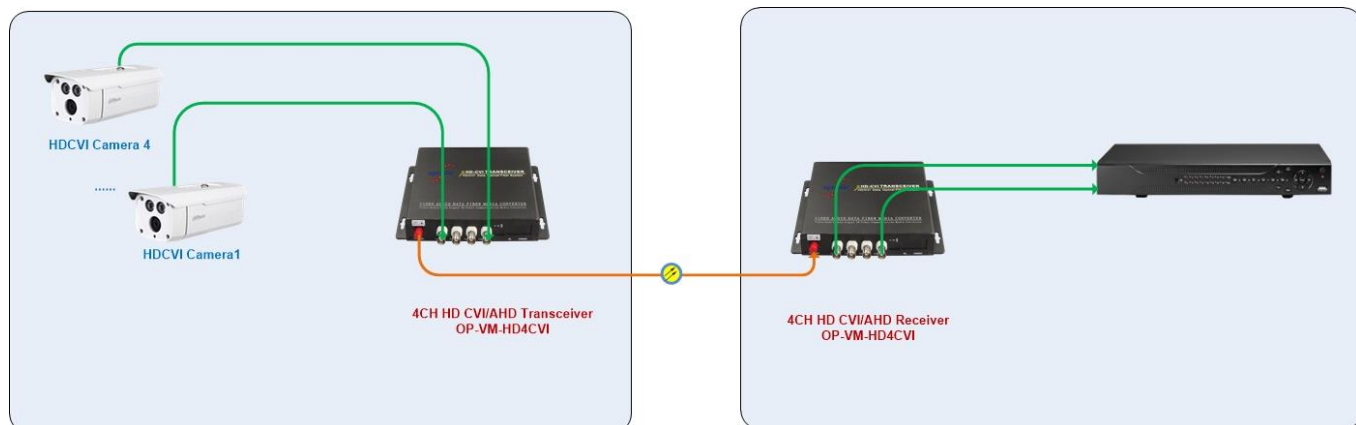
Product Size



Technical Parameter

Product Name	4HDCVI Fiber Optical Transceiver
Product Model	OP-VM-HD4CVI
Connector Type	1310nm&1550nm
Network Media	-8~ -3dBm / -3~+2dBm
Bandwidth	50/125um Multimode, 62.5/125um Multimode, 9/125um Single-Mode
MAC Address Table	-22dBm
MTBF	FC, ST , SC (Optional)
Network Latency	0~500M(Multimode) / 0~40KM(Single-Mode)
Forwarding Mode	>500mVp-p
Video Interface	1Vp-p
Video Bandwidth	75
Video Bit Wide	<0.8ns
Differential Gain	<0.2 UI
Differential Phase	BNC Interface
Video SNR	1~2
Data Interface	Light Chain, Power Supply, Data and Video Source Lights
Data Bit Rate	DC5V 2A
Audio Interface	≤5W
Audio Bandwidth	100V~240V AC Adaptive
Audio SNR	Working temperature: -40℃~ +85℃; Storage temperature:-40℃~ +85℃; Working humidity: 0~95% No Condensation;
Protocol	≥100,000 Hours

Application



Order Information

Model	Description	Max Transmission Distance (KM)
OP-VM-HD4CVI-M-0.5	4 HD CVI/AHD Optical Transceiver	0.5 KM(Multi-mode)
OP-VM-HD4CVI-S-20	4 HD CVI/AHD Optical Transceiver	20 KM(Single-mode)
OP-VM-HD4CVI-S-40	4 HD CVI/AHD Optical Transceiver	40 KM(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	4 HD CVI/AHD Optical Transceiver
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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