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# DVOP Digital Video/Audio/Data Fiber Optical Receiver Chassis

(64-128 channel)

## Profile

DVOP-4R is 19inch width,4U height,21slots,can be mix-inserted 18pieces of 1ch-4ch video/audio/data optic receiver or 9pieces 5ch-8ch video/audio/data optic receiver. support 1+1 redundant power. Up to 72channels videos can been received if adopt 4ch or 8ch type video/audio/data receiver.



DVOP-2R is 19inch width,2U height,21slots,can be inserted 18pieces of MINI1ch video/audio/data optic receiver. support 1+1 redundant power. Up to 18channels videos can been received.

## Product Characteristics

- ◆ Digital Fiber transmission platform,Multi-operation flexible setting, Save investment to build complex network
- ◆ No EMI,RFI etc
- ◆ Support Audio, Data, Phone etc cross connection function and remote set on management platform
- ◆ Perfect High-grade Thunderbolt, Surge, ESD protection design to ensure long time stable working
- ◆ Good Data, Audio, Ethernet, Phone, Talk-back etc electromagnetism compatible feature

- ◆ Large-scale Proprietary IC Core and high-speed DSP technique
- ◆ Support 24bits DVD format; high-dynamic range, stereo Audio signal
- ◆ Auto-switch Fiber protection (<20ms),improve the reliability of system
- ◆ Support Audio, Data regenerate and relay
- ◆ Support base-on SNMP e-MS management system, convenient surveillance management of big network
- ◆ SNMP system has powerful functions, simple user interface
- ◆ Modularized and industrialized design ensuring reliability and flexibility
- ◆ Adopt WDM/CWDM/DWDM technique
- ◆ 10 digit coding and non-compression video transmission
- ◆ Auto PAL/NTSC/SECAM Compatible
- ◆ Indicators for Power Supply, Video, Optic-link and Data-loop
- ◆ Large capacity of gigabit optical fiber transmission allowing of easy upgrade
- ◆ Card type, Stand-alone type,19 inch 1U/2U standard case and 4U chassis optional

## Ordering Information

No	Model	Amount
1	Video	48-128
2	RS485	64
3	RS232	64
4	RS422	32
5	Audio	64
6	Ethernet	16
7	I/O	64
8	Phone	64
9	CAN	24
10	External expansion interfaces	64
11	EMS	Yes

## Application Area

- ◆ High way & Tall station surveillance
- ◆ Speedway & Railway remote surveillance
- ◆ Public security surveillance
- ◆ Surveillance and cable TV system
- ◆ Intelligent traffic monitor system
- ◆ High quality video conference
- ◆ Broadcast and TV program transmission
- ◆ Long-distance multimedia teaching
- ◆ Industrial Closed Circuit Television Surveillance

- ◆ Custom, Airport, Warehouse video monitor
- ◆ Supermarket, Bank Hall& ATM machines video surveillance
- ◆ Smart building, Government office etc safety & protection system

## Technical Parameters

### 1. Optical Channel Technical Specifications: (Table 1)

Wavelength	850nm / 1310nm / 1550nm
Distance	MM:0-2km, SM: 0-100km
Power	-15~-10dBm / -10~-5dBm/-5~+3dBm (SM); -19~-14dBm (MM)
Receiving Sensitivity	-34~-38dBm
Optical Dynamic Range	20~40d
Maximum Optical Loss	18~38dB

### 2. Video channel technical indicators: (Table 2)

Channels number	1 channel vidoe
Video Format	PAL/NTSC/SECAM Auto compatible
Video Bandwidth	10MHz
Video Sampling	20MHz
Differential Gain	DG <1%
Differential Phase	DP <0.7°
Video signal to noise ratio	S/N ≥ 65dB

### 3. Data Channel Specification: (Table 3)

Interface type	RS-232/422/485/ Manchester Biphase
Code rate	0~2Mbps
BER	≤ 10 <sup>-12</sup>

### 4. Technical indicators for the audio channels: (Table 4)

Input / Output Voltage	0.5VP-P—4VP-P
Audio Bandwidth	10Hz~20kHz
Distortion	<0.1%
Audio signal to noise ratio	S/N≥80db
Audio Coding	24Bit

### 5. Connection terminals: (Table 6)

Optical Interface	FC/ST/SC
Video Interface	BNC
Data Interface	DB9/DB25/ Industrial pressure connector

Audio Interface	Pressure connector /RCA
Ethernet	RJ45
Binary	Industrial pressure connector /RJ45

#### 6. Voltage: (Table 7)

AC supply voltage	220VAC±30% 50HZ
DC	5-12VDC±20%
Power	≤ 3W

#### 7. Work environment (Table 8)

Work Temperature	-40 °C~+75 °C
Storage Temperature	-40 °C~+85 °C
Relative Humidity	≤95% (No cold condensation)

#### 8. EMC (Table 9)

Susceptibility	EN50130-4、50028-1
Radiation	EN50081-1、EN55022-B、CCC
MTBF: >100000 hours	

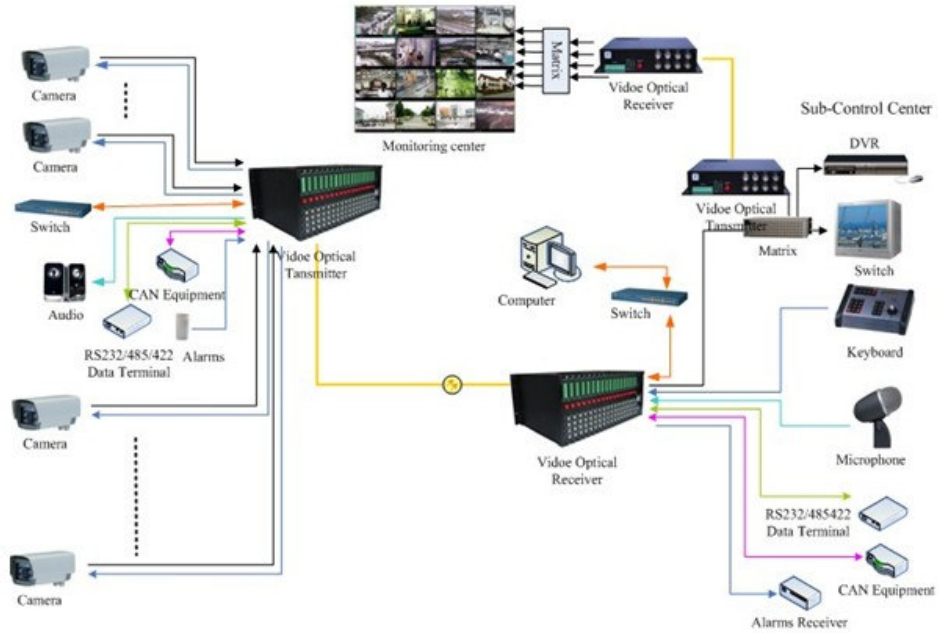
#### 9. Physical Characteristics: (Table 10)

Work Temperature	-40°C~85°C
Storage Temperature	-55°C~95°C
Humidity	0~95% Non-condensing
Hot flashes	BS2011
Induction	EN50130-5, 1995

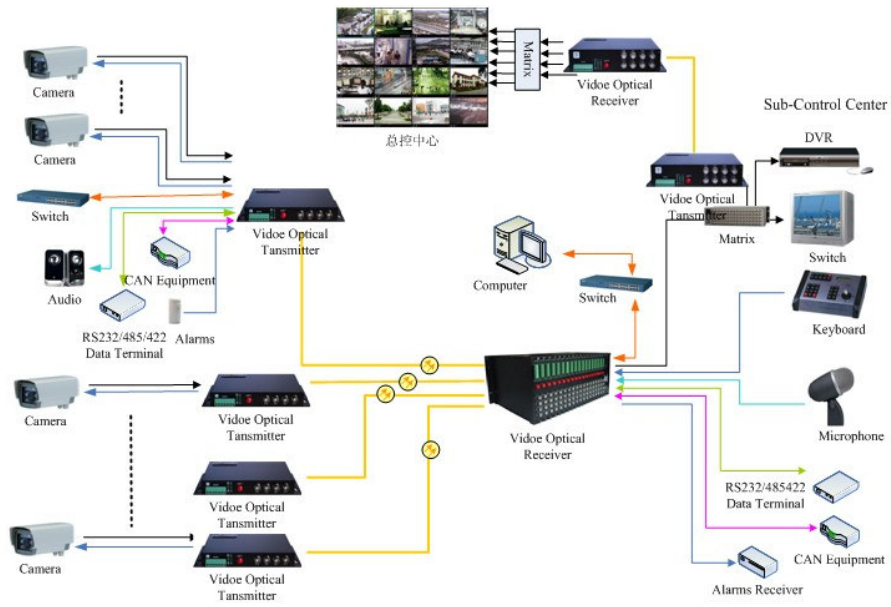
#### 10、机械尺寸: (表 11)

Transmitter	196mm×155mm×30mm
Receive	196mm×155mm×30mm
Receiver rack	480mm×290mm×200mm
Receiver Frame Description	19 Inch 4.5U, High Density, The largest business with 21 slots Optional dual power supplies, Power Built-in. If you need to EMS, there are only 20 slots.

# Typical Application Diagrams



Application diagram.



Centralized monitoring application diagram.