

**Video, Audio, Data, Ethernet
Digital Optical
Transmitter and Receiver**

USER MANUAL

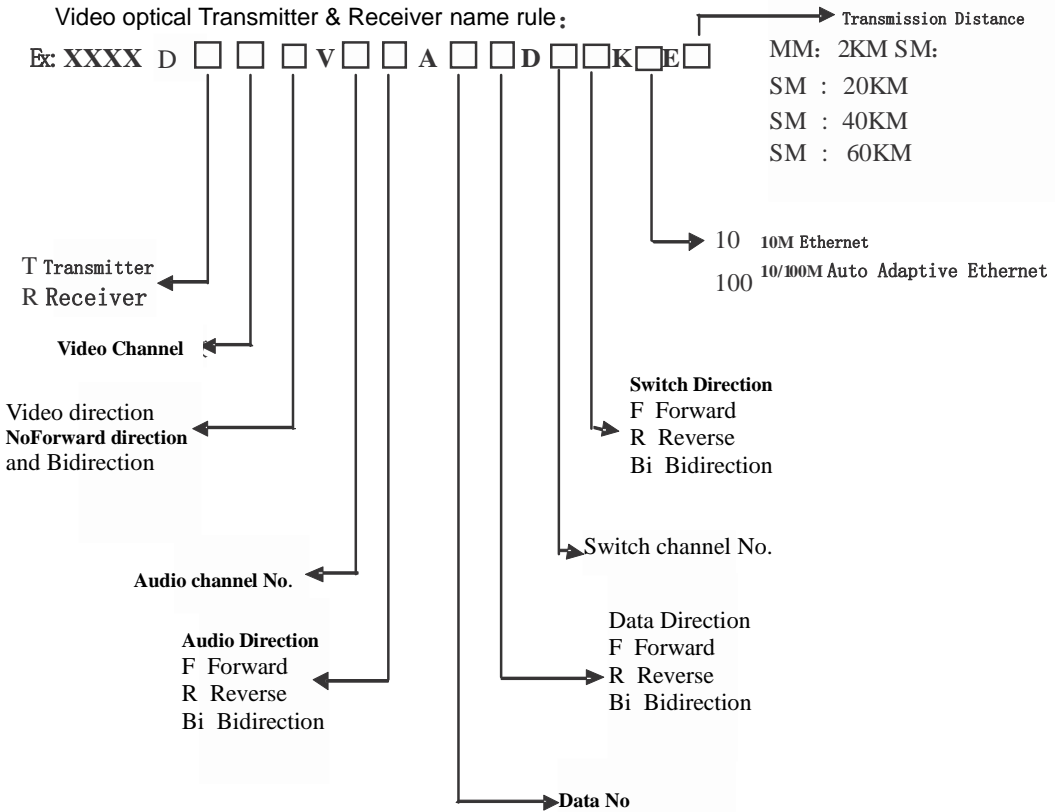
Solemn Tips:

To maintain credibility of the company, our company products are stucked with anti-demolition label, The user shall not open the device without our permission. Once the anti-demolition Label is damaged ,We will not bear any responsibility for after-sales service and to reserve the right complaints for intellectual property rights infringement .

- * When using the Video fiber optical transmitter and receiver, please pay special attention to anti-static measures in order to avoid damage the equipment
- * The Company reserves the right to change products, we will not notify customer if some changes for products.
- * The following cases do not belong to warranty conditions:
Improper access power supply such as High voltage, anti-polarity;
Not meet the environmental conditions of application; operate not follow User Manual;

Due to the wrong use or damage caused by negligence; Because of other accidents (such as lightning, water, fire, etc.) as well as all damage caused by man-made factors etc!

Products classification and order information



Remark : D= DATA; S= SWITCH
 V=VIDEO; A= AUDIO; E=ETHERNET
 SM= SINGLE MODE; MM= MULTI MODE
 T= TRANSMITTER; R= RECEIVER

Note: ①.FIBER TRANSMISSION

MM: 50/125 62.5/125 100/140 μ m

SM: 8.3/125 8.7/125 9/125 10/125 μ m

②TRANSMISSION DISTANCE

MM:>: 2km

SM: > 20km 40km 60km 100km, Can excess 120km as customers' request

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Chapter 1: Overview

1.1 Overview

All series of digital fiber optic transmitter and receiver adopted the special ASIC design and the high-speed DSP technology full digital without compression, without damaged broadcast transmission, can transmit long distance analog or digital DVR Recorder, VCR, DVD / VCD, Digital Camera, High-definition Television, High-resolution baseband 8 MHz bandwidth video signal through fiber with high-quality, no damaged to remote monitoring center. It is the use of digital technology that avoid incurring cross-modulation distortion interference, image and control data crosstalk each other, poor stability, the impact of environmental factor caused by analog FM, phase modulation, amplitude modulation. The independent modules or rack, Gigabit optical transmission technology have high-capacity, easy to upgrade, single, multimode fiber transmission, distance 0-100 KM; Support any high-resolution video signals, video relay nondestructive renewable, automatically compatible with PAL, NTSC, SECAM video formats, APC circuit, stable optical power output, large dynamic range. Its Main applications as below:

- ◆ Intelligent Traffic Monitoring System (ITS)
- ◆ The large-capacity Security System
- ◆ TV medical
- ◆ Long-distance broadcast television transmission system
- ◆ Long-distance multimedia teaching / campus monitoring
- ◆ Television /telephone conference
- ◆ Building control system
- ◆ Occasions requirements for high-definition video, audio transmission .such as: Big public square, Big stadium, Airport.

In addition to transmitting video signals, also provide you with multi-channel Bidirectional audio signal and multi-channel RS232/RS485/422 data signals for option. Multi-channel Bidirectional audio signals adopted full-digital uncompressed 24 bits high dynamic audio technology, it can support any hi-fi, stereo audio without distortion for transmission, the digital format complies with DVD format. Multi-channel Bidirectional data used for controlling camera pan-tilt or video matrix switching and professional data interface for RS232/RS485/RS422.

It is complete use of industrial Chips and all surface sticking technology, hence posses high reliability. Support -45 ~ +85 °C industrial environment of high and low temperatures; Using

advanced switching power supply to ensure that equipment last for long-term operation without breakdown The card-type or standalong structure apply to centralized management 2U and 4U rack.

1.2 Functions and Features

1.2.1 Using high quality optoelectronic components provides good optical properties and electrical properties to ensure reliable data transmission, long working life.

1.2.2 plug-and-play design gets simple installation, no need for adjustment at the scene. The design complying with industrialization and modular standards enable equipments to be reliable flexible, Gigabit fiber transmission, large capacity, easy to upgrade.

1.2.3 provide a plentiful power status indicator, fiber link state, the video signal input and output, audio input and output, data input and output functions of effective indication, which enables users to easily conveniently install and test equipment.

1.2.4 support any high-resolution video signals, automatically compatible with PAL, NTSC, SECAM and other video formats; video interface in a standard 75 Ω BNC, power supply and other parameters status of the LED indicator can show the operation of the surveillance system.

1.2.5 It is the use of digital technology that avoid incurring cross-modulation distortion interference, image and control data crosstalk each other, poor stability, the impact of environmental factor caused by analog FM, phase modulation, amplitude modulation.

1.2.6 The connection and installation for all Single fiber video optic transmitter and receiver equipment is same as dual-fiber, but single fiber video optic transmitter and receiver equipment be used only in pairs (1310 nm matches with 1550 nm)

1.2.7 support single-mode optical interface, transmission distance from 0 to 25 Km, the most long-distance can reach over 100 km , the optical interfaces : FC, SC or ST interface.

1.2.8 fully meets operating requirements for professional-level monitoring, the average fault-free working hours is over 100,000 hours.

1.2.9 Perfect after-sale service, we can provide one month change new product. if is not artificial, one -year warranty of quality commitment.

ChapterII: Technical standards and instructions

Technical Parameters

2.1 Fiber optic Technical Parameters

Technology Parameters		Parameters					
Optical features	Wavelength (nm)	850/1310	1310/1300			1550	
	Fiber type	Multi Mode	Single Mode				
	type of fiber interface	FC, SC, ST	FC, SC, ST			FC/SC	
	Transmission distance (km)	0~2	0~20	0~40	0~60	0~80	15~120
	Transmission power (dBm)	-14~-18.5	-7~-16	-9~-4	-4~0	+1~-8	-5~0
	Receiving Sensitivity (dBm)	-31	-29	-32	-32	-34	-35
	Optical Saturation (dB)	-14	-8	-3	-3	-3	-3
	Optical Loss (dBm/Km)	2.5	0.4	0.4	0.4	0.25	0.25
otherwise	Power	DC+5V/2A or DC +5V/1A					
	Alternating current power supply	AC90-260V input					
	Operating temperature	-40 ~ 85°C					
	Storage temperature	-50 ~100°C					
	Relative humidity	5% ~ 90% no condensation					

Our company commonly tend to recommend not to use multimode fiber transmission, its expanding capacity is poor; It is better to use of single-mode fiber transmission, which is cheap price, long transmission distance and facilitate expanding capacity.

2.2 Video Interface

Video input / output impedance : BNC 75 Ω / non-equilibrium Interface

Video input / output voltage: Typical: 1 V p - p, the largest 1.5 V p - p

Video bandwidth: 5-8MHZ

Video digital Interface: 10bit

Differential gain <1%

Differential phase <0.6

Field tilted <0.5%

Signal to noise ratio \geq 80dB

2.3 Audio Interface

Audio input / output impedance: 600 Ω balanced / unbalanced interface, industry-standard wiring terminal.

Audio input / output voltage: Typical 0 dBm

Frequency response: 10HZ - 20KHZ

Audio digital bit width: 24-bit digital audio DVD format

SNR: 85dB

2.4 Data, Switch Interface

Physical interface: Phoenix terminal (DATA)

RS232 rate: 0-115200 bps

RS-422/485 rate: 0 ~ 115200 bps

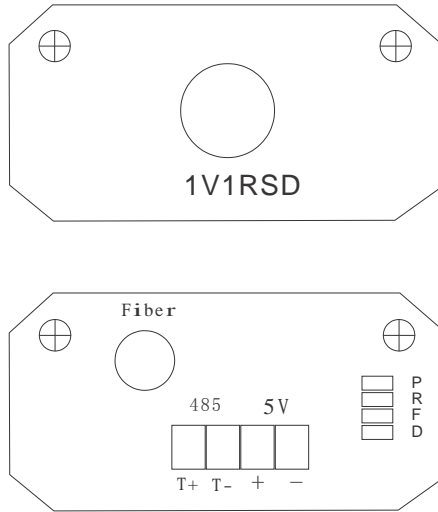
RS-422/485 distance: 0 ~ 1200m

RS-422/485, RS232 protocol: Transparent support arbitrary RS-485/422 protocol.

There are other Cayman code / Biphase, switch signal

3. Mini 1Ch Video+1Reverse Data Optical Transmitter and Receiver Series

3. 1: Schematic diagram of Panel



3. 2 Description of indicator lights

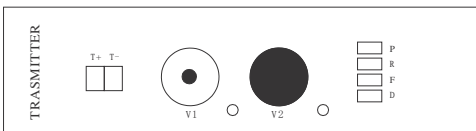
Indicator light	Funtions and State
P (PWR)	Power indicator the bright light means power supply in normal
R (RUN)	It is not in this system.
F (FXD)	Fiber Signal Indicator,it flickers once it receives fiber signal
D (DATA)	Data Indicator, it flickers once there is emission of Reverse Data

3. 3 Description of connection for wire in panel.

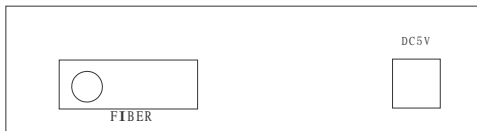
V(BNC)	Transmitter: Video input terminal (5-8 M video signal), Receiver: video output terminal(5-8 M video signal)
T+, T-	Transmitter: RS485 output, other related devices connection: T- matches with T-, T+ matches T+(decoder) Receiver: RS485 input, other related devices connection: T- matches with T-, T+ matches T+ (Monitoring center serial ports)
5V+, 5V-	Power + connects the positive pole DC 5V/1A Power - connects the negative pole DC 5V/1A

4. 1Ch Video or 1Ch Video +1 Reverse Data Optical Transmitter and Receiver

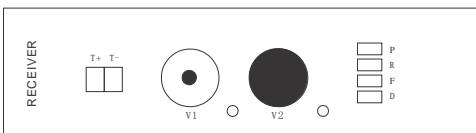
4.1 Schematic diagram of Panel



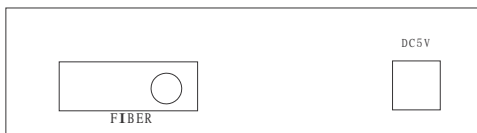
The front Panel of 1ChVideo+1Reverse Data Optical Transmitter



The back Panel of 1ChVideo+1Reverse Data Optical Transmitter



The front Panel of 1ChVideo+1Reverse Data Optical Receiver



The back Panel of 1ChVideo+1Reverse Data Optical Receiver

4. 2 Description of indicator lights

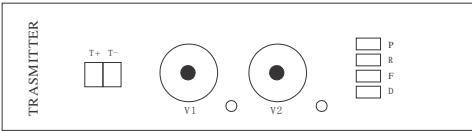
Indicator	Funtions and State
P (PWR)	Power indicator bright light means power supply in normal
R (RUN)	System running indicator, it flicks when the power is on
F (FXD)	Fiber Signal Indicator,it flickers once receives fiber signal
D (DATA)	Data Indicator, it flickers once there is emission of Reverse Data
V1 (VIDEO)	Video signal indicator, it is bright when the video signal is in normal.

4. 3 Description of connection for wire in panel.

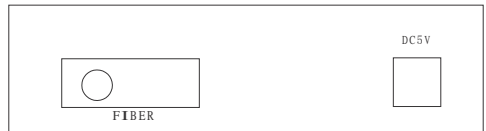
V1 BNC	Transmitter BNC terminal is video signal input
	Receiver BNC terminal is video signal output
T+ T-	Transmitter : RS485 for the output and connecting with camer or pan unit & control decoder, T- to T- ,T + to T + Receiver : RS485 for the input and connecting with video matrix or other 485 data controlling device, 485 total wires terminal in Mornitoring Center.)

5. 2Ch Video/2Ch Video+1Reverse Data Optical Transmitter and Receiver

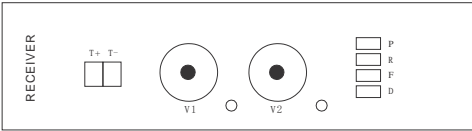
5.1 Schematic diagram of Panel



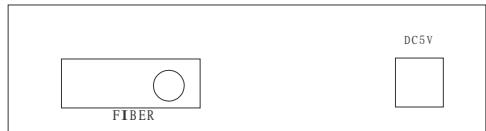
The front Panel of 2ChVideo+1Reverse Data Optical Transmitter



The back Panel of 2ChVideo+1Reverse Data Optical Transmitter



The front Panel of 2ChVideo+1Reverse Data Optical Receiver



The back Panel of 2ChVideo+1Reverse Data Optical Receiver

5. 2 Indicator lights

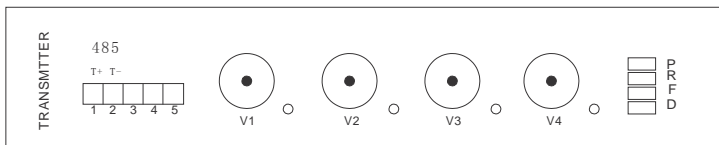
Indicator	Funtions and State
P (PWR)	Power indicator the bright light means power supply in normal
R (RUN)	System running indicator, it flicks when the power is on
F (FXD)	Fiber Signal Indicator,it flickers once receives fiber signal
D (DATA)	Data Indicator, it flickers once there is emission of Reverse Data
V1 V2	Video signal indicator, it is bright when the video signal is in normal.

5. 3 Description of connection for wire in panel.

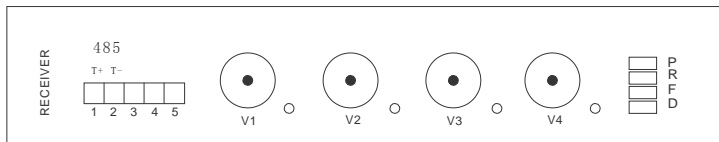
V1, V2 BNC	Transmitter: Video input terminal (5-8 M video signal); Receiver: video output terminal (5-8 M video signal)
T+, T-	Transmitter : RS485 for the output and connecting with other related devices , T- to T-,T + to T + (decoder side) Receiver: RS485 for the input and connecting with other related devices, T- to T-,T + to T + ,(series terminal side in Mornitoring Center)

6. 4Ch Video + Data Optical Transmitter and Receiver Series

6.1 Schematic diagram of Panel



The Front Panel of 4ChVideo/Auido/Data Data Optical Transmitter



The Front Panel of 4ChVideo/Auido/Data Data Optical Receiver

6.2 Description of indicator lights

Indicator	Funtions and State
P	Power indicator the bright light means power supply in normal.
R	System running indicator, it flicks when the power is on.
F	Fiber Signal Indicator,it flickers once receives fiber signal.
D	Data Indicator, it flickers once there is emission of Reverse Data.
V1-V4	Video signal indicator, it is bright when the video signal is in normal.

6. 3 onnection for wire terminal in panel

485
T+ T-



Default: Pin1 and Pin2 are Reverse 485 Data
T+, T- respectively.

Rs485 Data: 4:T+ 5:T-

Rs232 Data: 4:TX 5:RX 3:GND

Audio Funtion:

Pin 3: Audio Public GND

Pin 4: Audio1 Output Input

Pin5:Audio2 Output Input

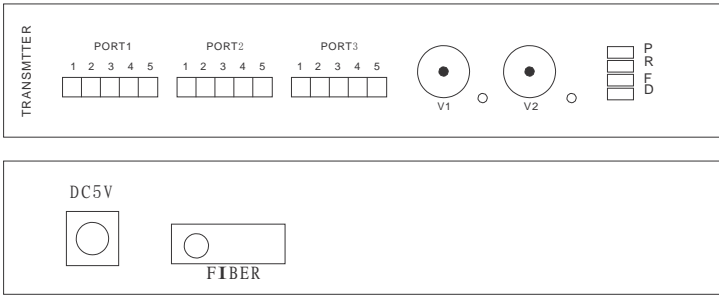
Switch: Pin 4: K Pin5: K'

Switch type: Input

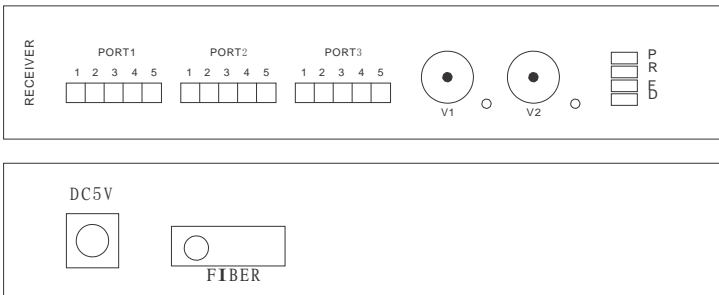
Output

7. Multifunctional 2Ch Video Optical Transmitter and Receiver Series

7.1 The Front and Back Panel of Transmitter



The Front and Back Panel of Receiver



7. 2 Description of indicator lights

Indicator	Funtions and State
P	Power indicator the bright light means power supply in normal.
R	System running indicator, it flicks when the power is on.
F	Fiber Signal Indicator,it flickers once receives fiber signal.
D	Data Indicator, it flickers once there is emission of Reverse Data
V1-V2	Video signal indicator, it is bright when the video signal is in normal.

7. 3 Description of connection for wire terminal in panel.

V1, V2 BNC	Transmitter: Video input terminal (5-8 M video signal)
	Receiver: video output terminal (5-8 M video signal)

The following connections for wire in panel are subject to mark , please read attached file if there are special funtions.

Wire Terminal PORT 1

Data Function:

Rs485Data: 1:T+ 2:T- 4:T+ 5:T-

Rs422Data: 1:TX+ 2:TX- 4:RX+ 5:RX-

Rs232Data: 1:TX 2:RX 3:GND 4:TX 5:RX 3:GND

Switch

1:K1	2:K1'
<input type="checkbox"/> Input	<input type="checkbox"/> Output

4:K2	5:K2'
<input type="checkbox"/> Input	<input type="checkbox"/> Output

Audio Functions

Pin 1: Audio 1 output input

Pin 2: Audio 2 output input

Pin 3:Audio Public Ground

Pin 4: Audio 3 output input

Pin 5: Audio 4 output input

Wire Terminal PORT 2

Data Functions:

Rs485data 1:T+ 2:T- 4:T+ 5:T-

Rs422data 1:TX+ 2:TX- 4:RX+ 5:RX-

Rs232data 1:TX 2:RX 3:GND 4:TX 5:RX 3:GND

Switch

1:K1	2:K1'
<input type="checkbox"/> Input	<input type="checkbox"/> Output

4:K2	5:K2'
<input type="checkbox"/> Input	<input type="checkbox"/> Output

Audio Functions

Pin 1: Audio 1 output input

Pin 2: Audio 2 output input

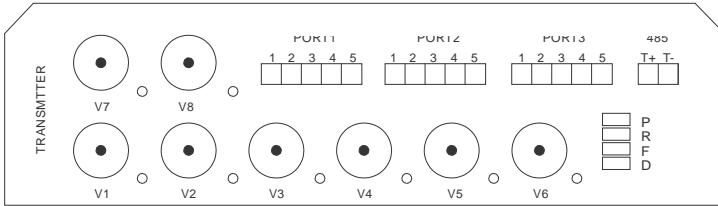
Pin 3:Audio Public Ground

Pin 4: Audio 3 output input

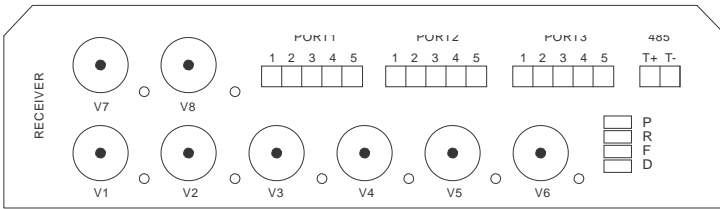
Pin 5: Audio 4 output input

8. 8Ch Video + Data Optical Transmitter and Receiver Series

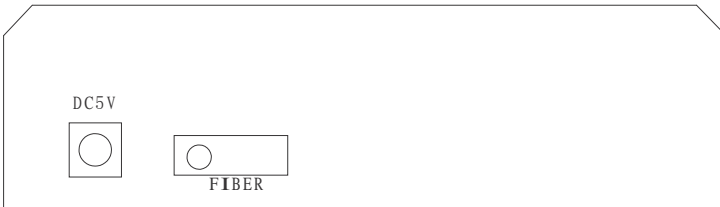
8.1 Schematic diagram of Panel



The Front Panel of 8Ch Video Transmitter



The Front Panel of 8Ch Video Receiver Series



The Back Panel of 8Ch Video Transmitter and Receiver

8.2 Description of indicator lights

Indicator	Funtions and State
P	Power indicator the bright light means power supply in normal
R	System running indicator, it flicks when the power is on.
F	Fiber Signal Indicator,it flickers once receives fiber signal.
D	Data Indicator, it flickers once there is emission of Reverse Data
V1-V8	Video signal indicator, it is bright when the video signal is in normal.

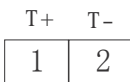
8.3 Description of connection for wire in panel.

V1-V8 BNC	Transmitter: Video input terminal (5-8 M video signal); Receiver: video output terminal (5-8 M video signal)
T+, T-	Transmitter : RS485 for the output and connecting with other related devices , T- to T-,T + to T + (decoder side) Receiver: RS485 for the input and connecting with other related devices, T- to T-,T + to T + ,(series terminal side in Mornitoring Center)

The following connections for wire in panel are subject to mark ✓ , please read attached file if there are special functions.

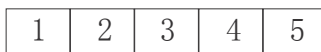
Description of connection for 485 Data wire terminal in panel.

485



Default: Pin1 and Pin2 are Reverse 485
 Data 1 : T+ 2 : T-

Wire Terminal PORT 1

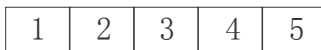


Pin 1: Audio 1 Input
 Pin 2: Audio 2 Input

PORT1
Pin 3:Audio Public Ground

Pin 4: Audio3 Input
 Pin 5: Audio 4 Input

Wire Terminal PORT 2

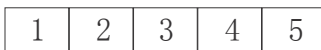


Pin 1: Audio 1 Input
 Pin 2: Audio 2 Input

PORT2
Pin 3:Audio Public Ground

Pin 4: Audio3 Input
 Pin 5: Audio 4 Input

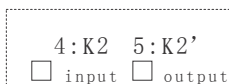
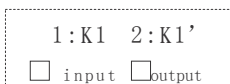
Wire Terminal PORT 3



PORT3

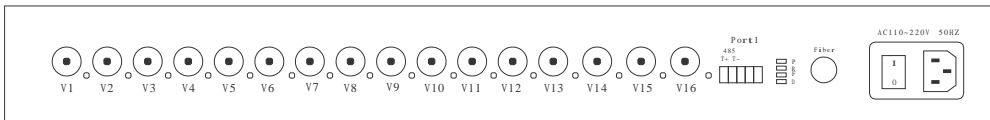
Rs485data 1: T+ 2: T- 4: T+ 5: T-
 Rs422data 1: TX+ 2: TX- 4: RX+ 5: RX-
 Rs232data 1: TX 2: RX 3: GND 4: TX 5: RX 3: GND

Switch



9. 16Ch Video/Audio/Data Optical Transmitter and Receiver Series (16Ch Video 1U Standard Rack Mounted Optical Transmitter and Receiver) The Panels of Transmitter and Receiver are the same.

9.1 Schematic diagram of Panel



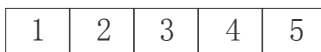
9.2 Description of indicator Lights

Indicator	Functions and State
P	Power indicator the bright light means power supply in normal
R	System running indicator, it flicks when the power is on
F	Fiber Signal Indicator,it flickers once receives fiber signal.
D	Data Indicator, it flickers when the data signal is linking
V1-V16	Transmitter: It is bright when the transmitter gets video input signal.
	Receiver: It is bright when the receiver gets the signal from transmitter.

9.3 Description of connection for wire in panel.

V1-V16 BNC	Transmitter: Video input terminal (5-8 M video signal); Receiver: video output terminal (5-8 M video signal)
T+, T-	Transmitter : RS485 for the output and connecting with other related devices , T- to T-,T+ to T+ (decoder side) Receiver: RS485 for the input and connecting with other related devices, T- to T-,T+ to T+ ,(series terminal side in Mornitoring Center)

Wire Terminal PORT 1 (connection for wire terminal in panel on Transmitter is same as Receiver)



PORT1

Rs485data 1:T+ 2:T- 4:T+ 5:T-

Rs422data 1:TX+ 2:TX- 4:RX+ 5:RX-

Rs232data 1:TX 2:RX 3:GND 4:TX 5:RX 3:GND

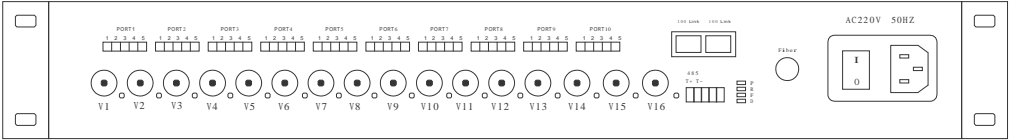
Switch

1:K1 2:K1'
 input ouput

4:K2 5:K2'
 input output

10. Multifunctional 16Ch Video Optical Transmitter and Receiver Series

10.1 Schematic diagram of Panel



10.2 Description of indicator lights

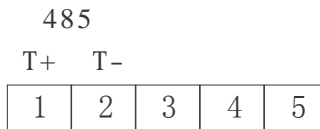
Indicator	Functions and State
P	Power indicator the bright light means power supply in normal
R	System running indicator, it flicks when the power is on
F	Fiber Signal Indicator, it flickers once receives fiber signal
D	Data Indicator, it flickers once there is emission of Reverse Data
V1-V16	Video signal indicator, it is bright when the video signal is in normal.

10.3 Description of connection for wire in panel.

V1-V16 BNC	Transmitter: Video input terminal (5-8 M video signal); Receiver: video output terminal (5-8 M video signal)
T+, T-	Transmitter : RS485 for the output and connecting with other related devices , T- to T-, T+ to T+ (decoder side).
	Receiver: RS485 for the input and connecting with other related devices, T- to T-, T+ to T+ ,(series terminal side in Mornitoring Center).

The following connections for wire in panel are subject to mark please read attached file if there are special funtions.

RS485/RS422 Terminal : Following is Terminal Panel



Rs485data: Pin 1and Pin 2 be acquiesced 485 data wire terminal by system

Rs485data: Pin 4and Pin 5 is Bi-directional 485Data wire terminal, also other way reverse 485data :T+ T-

Rs422data: 1:TX+ 2:TX- 4:RX+ 5:RX-

Wire Terminal PORT 1



PORT1

Rs485data 1:T+ 2:T- 4:T+ 5:T-

Rs422data 1:TX+ 2:TX- 4:RX+ 5:RX-

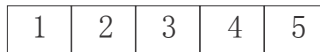
Rs232data 1:TX 2:RX 3:GND 4:TX 5:RX 3:GND

Switch

1:K1 2:K1'
<input type="checkbox"/> input <input type="checkbox"/> output

4:K2 5:K2'
<input type="checkbox"/> input <input type="checkbox"/> output

Wire Terminal PORT 2



PORT2

Rs485data 1:T+ 2:T- 4:T+ 5:T-

Rs422data 1:TX+ 2:TX- 4:RX+ 5:RX-

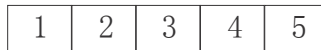
Rs232data 1:TX 2:RX 3:GND 4:TX 5:RX 3:GND

Switch

1:K1 2:K1'
<input type="checkbox"/> input <input type="checkbox"/> output

4:K2 5:K2'
<input type="checkbox"/> input <input type="checkbox"/> output

Wire Terminal PORT 3



PORT3

Rs485data 1:T+ 2:T- 4:T+ 5:T-

Rs422data 1:TX+ 2:TX- 4:RX+ 5:RX-

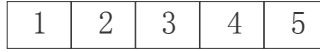
Rs232data 1:TX 2:RX 3:GND 4:TX 5:RX 3:GND

Switch

1:K1 2:K1'
<input type="checkbox"/> input <input type="checkbox"/> output

4:K2 5:K2'
<input type="checkbox"/> input <input type="checkbox"/> output

Wire Terminal PORT 4



PORT4

Rs485data 1:T+ 2:T- 4:T+ 5:T-

Rs422data 1:TX+ 2:TX- 4:RX+ 5:RX-

Rs232data 1:TX 2:RX 3:GND 4:TX 5:RX 3:GND

Switch 1:K1 2:K1'
 input output

4:K2 5:K2'
 input output

Wire Terminal PORT 5

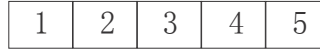


PORT5

Pin1 and Pin2 telephon Switch

Pin4 and Pin5 Telephon Switch

Wire Terminal PORT 6



PORT6

Rs485data 1:T+ 2:T- 4:T+ 5:T-

Rs422data 1:TX+ 2:TX- 4:RX+ 5:RX-

Rs232data 1:TX 2:RX 3:GND 4:TX 5:RX 3:GND

Switch 1:K1 2:K1'
 input output

4:K2 5:K2'
 input output

Wire Terminal PORT 7



PORT7

Pin 1: Audio1 Input

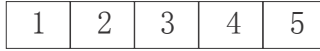
Pin 4: Audio3 Input

Pin 2: Audio 2 Input

Pin 3:Audio Public Ground

Pin 5: Audio 4 Input

Wire Terminal PORT 8



PORT8

Pin 1: Audio 5 Input

Pin 2: Audio 6 Input

Pin 3:Audio Public Ground

Pin 4: Audio 7 Input

Pin 5: Audio 8 Input

Wire Terminal PORT 9



PORT9

Pin 1: Audio 1 Output

Pin 2: Audio 2 Output

Pin 3:Audio Public Ground

Pin 4: Audio 3 Output

Pin 5: Audio 4 Output

Wire Terminal PORT 10



PORT10

Pin 1: Audio5 Output

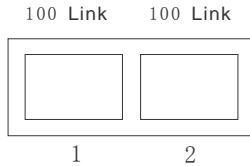
Pin 2: Audio 6 Output

Pin 3:Audio Public Ground

Pin 4: Audio 7 Output

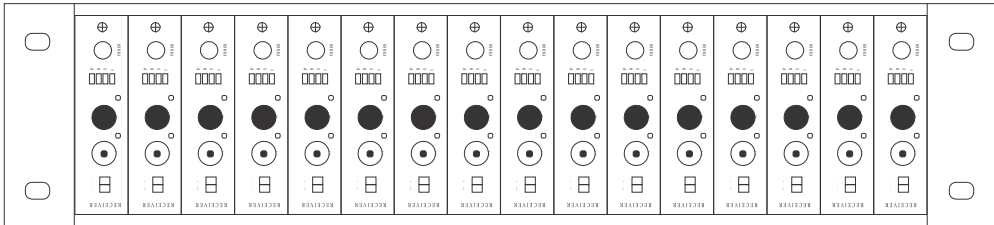
Pin 5: Audio 8 Output

2 Ethernet Network Port : Support 10/100Mbps Auto adaptable



11. 2U Standard Rack Mounted Video Optical Transmitter and Receiver Series

11.1 2U Standard Rack mounted schematic

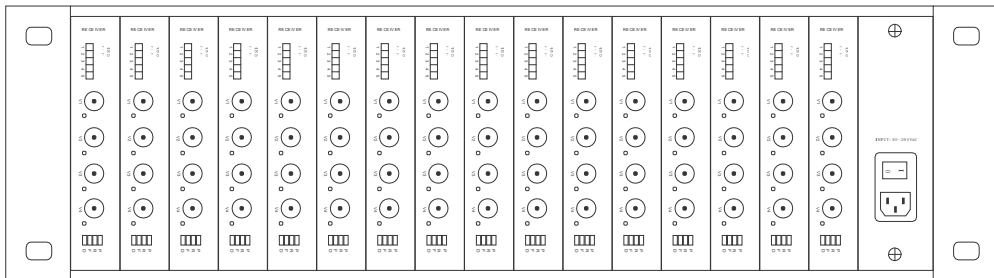


Notes:

The Centralized Management 2U Rack Mounted Video Optical Transmitter and Receiver is composed of 1Ch Video or 2 Ch Video Digital Optical Receiver Card. There are two efficient built-in power supplies with high capacity. The quantity for inserting Receiver Cards depend on customer’s requirements and choices. The maximum quantity: 16pcs for 1Ch Video+1Data Optical Receiver Cards or 16pcs for 2Ch Video+1Data Optical Receiver Cards .For the details, Please refer to relevant panel description.

11.2 4U Standard Rack Mounted Video Optical Transmitter and Receiver Series

Schematic diagram of Panel



Notes:

The Centralized Management 4U Rack Mounted Video Optical Transmitter and Receiver is composed of 4Ch Video or 8 Ch Video Digital Optical Receiver Card. There is one efficient built-in power supply with high capacity. The quantity for inserting Receiver Cards depend on customer’s requirements and choices. The maximum quantity: 16pcs for 4ChVideo Optical Receiver Cards or 8Video Optical Receiver Cards .For the details, Please refer to relevant panel description.

12, Device Installation

12.1 Inspection for opening Box.

When open packing box, please inspect all related accessories, please timely contact with the local sales person if it lacks some accessories.

- Video Optical Transmitter and Receiver or Rack : 1set
- Power cable or outside power supply: 1pcs
- User Manul :1 pcs
- Warranty Card/Quality Certificate: 1 pcs

The installation and connection for related devices , please refer to the following Application Diagram.

Installation Notes:

Please turn off the power when the user installs devices, The connection for all wire terminals should be exact, ensuring that check without any error, then turn the power on.

12.2 Application Diagram

(Telephone, Camer, Optical transmitter , Microphone, Alarm, fiber cable, controlling keyboard, TV all, Video& Audio Matrix, Audio device, network devices,Hard disk recording, Programmed Controlled Switchboard, Optical Receiver 4U Rack, Hard disk recording. Dome camer, (半球, 485)。 Box camer:bulet camer.

12.2 Application Scheme

