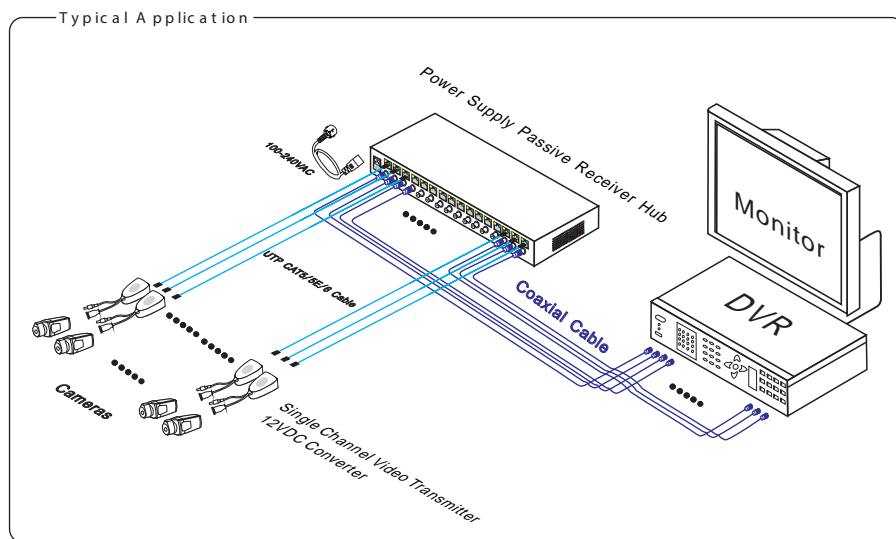# 16 Channel 36V Power Supply Passive Receiver Hub

The hub receives 16 channels CCTV video from up to 300M via UTP CAT5/5e cable.In addition it outputs 36V 320W power supply.Working with it the single channel video transmitter 12VDC converter can provide the remote cameras regulated 12VDC.

Typical Application

Features

- Receive 16channels CCTV video and provide power supply
- Compatible with PAL, NTSC, SECAM;
- Output 36V 320W power supply;
- Distance up to 300m, providing up to 1Amp 12V DC for each channel
- Owning power LED, signal LED, failure LED for over-voltage protection;
- Built-in additional module for easy maintenance ;
- Built-in fan for thermal dissipation ;
- Plug and play, simple installation;
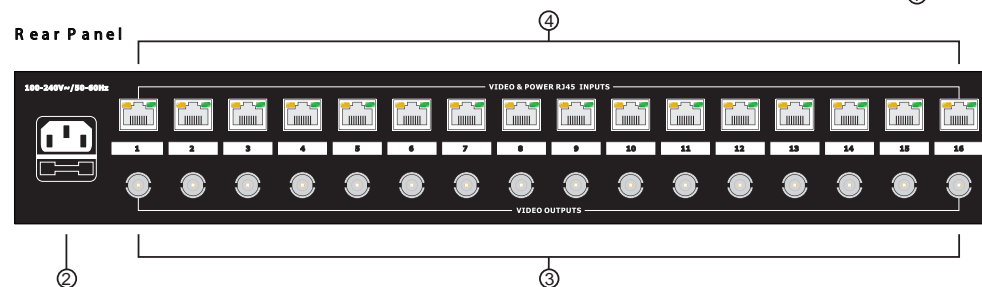- Super surge protection and interference rejection.

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Panel Diagram

Front Panel

16 Ports Video&Power Server

ON
OFF
POWER

①

Rear Panel

④

100-240V~/50-60Hz   VIDEO & POWER RJ45 INPUTS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

VIDEO OUTPUTS

②   ③

NO.	Component	Description
①	Power LED	To indicate if power supply is normal.
②	Power Supply Input	100V-240V 50-60Hz power input connector.
③	BNC	Video output.
④	RJ45	The green LED is power indicator,if on it's working normally, if weak it's not. The yellow LED is for over-current protection.

Installation Procedure

Please follow the next installation steps:

(1) Please switch off cameras and monitors before installation, or else installation with power may damage devices;

(2) Test if the UTP cable and coaxial cable to be used are available;

(3) Connect cameras with single channel video transmitter 12VDC converter via coaxial cable;

(4) Connect single channel video transmitter 12VDC converter with power supply passive receiver via UTP cable;

(5) Connect DVR / Monitor with power supply passive receiver hub via coaxial cable;

(6) Check all connection, and supply power to hub via power cord;

(7) Check if the image is normal.

■ Specification

Item		Parameter
Function	Channel	16 Channel
	Transmission Distance	300m(approx 12W for each camera)
Video Properties	Video Connector	BNC-M
	UTP Cable Connector	RJ-45
	Compatible With	PAL,NTSC,SECAM
	Signal Transmission Band	0- 6MHz
	Interference Rejection	>60db
	Surge Protection	2KV 10/700us Per IEC61000-4-5
Protection	ESD	Contact Discharge:6000V Air Discharge:8000V IEC61000-4-2 1995
Reliability	MTBF	>10000h
Physical Properties	Size（LWH）	430×200×66.8mm
	Outer Shell Material	Iron Metal
	Color	Black
	N.W.	3.76kg
Environmental	Operation Temperature	0°C-55°C
	Storage Temperature	-20°C-88°C
	Relative Humidity	0%-95%(non-condensing)

Specifications suject to change without notice.

■ Troubleshooting

If any trouble in installation, please follow these steps:
- Check if the installation is following the manual;
- Check if all connection is right, and if RJ45 is conformed with IA/TIA568A or 568B;
- Make sure cables are quality and the real distance not exceeds the allowed transmission distance;
- If yellow LED on RJ45 lighting on individual channel, please cut off power supply and unplug cable to checking whether short circuit or power consumption overload;
- Using normal working device to instead of not working one to checking whether problem of device itself;
- Please contact your vendor if trouble still exists.

■ How to make RJ45 Plug

Instruments to be used: wire crimper, network tester.
Wire sequence of RJ45 plug should conform with EIA/TIA568A or 568B.

1. Shuck off about 2cm long the insulating layer, and bar the 4 pairs UTP cable.
2. Depart the 4 pairs UTP cable and straighten them.
3. Line up the 8 pieces of cables per EIA/TIA 568A or 568B.
4. Brunt cut the cables to leave 1.5cm bare wire.
5. Plug 8 cables into RJ45 plug, make sure each cable is in each pin.
6. Then use wire crimper to crimp it.
7. Repeat above 5 steps to make the another end.
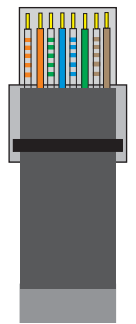8. Using network tester to test the cable whether is working.

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■ RJ45 PIN Diagram

Pin Diagram	
1	video
2	video
3	Power -
4	Power -
5	Power -
6	Power +
7	Power +
8	Power +

EIA/TIA 568A

Pin Diagram	
1	video
2	video
3	Power -
4	Power -
5	Power -
6	Power +
7	Power +
8	Power +

EIA/TIA 568B

⚠ Attention:
- Make sure if one end is EIA/TIA568A,the other end should also be EIA/TIA568A.
- Make sure if one end is EIA/TIA568B,the other end should also be EIA/TIA568B.

■ PackageContents

- 16channel 36V power supply passive receiver hub   (1 pc)
- Application manual   (1 pc)
- Power cord   (1 pcs)
- Rack-mounting ear   (2 pcs)
- Rack-mounting screws   (4 pcs)
- Robber pad   (4 pcs)