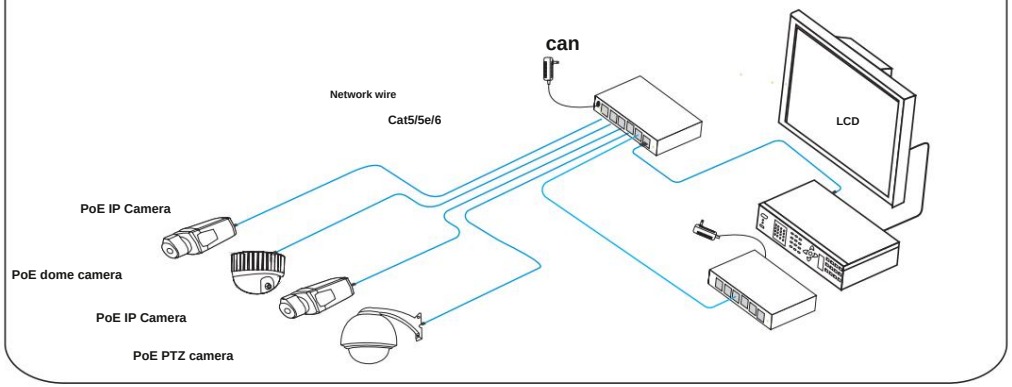
4 Port PoE Switch

User's manual

Version 1.2

4 Port PoE Ethernet Switch is a switch that is aimed at Ethernet high-definition surveillance and security system of Ethernet projects. The product fully combines the features of security surveillance, provides forwarding capability of fast packets and abundant backplane bandwidth, ensuring clear image and smooth transmission. protection circuit against surges and ESD can improve the stability of the product. The product supports a model of IP CCTV, it can achieve a VLAN, control a network storm, protecting information security, prevent viral transmission and Ethernet attack, meet completely the Ethernet video security surveillance system and Ethernet project needs.

Application



Feature

• Main ports: 2 x 100Mbps uplink Ethernet ports (reserve one port to connect to the Internet), 4 x 100Mbps downlink PoE Ethernet ports, each port supports MDI/MDIX.

• Special function: one key CCTV model; 1ÿ4 downlink ports can only communicate with uplink ports.

• Power input: DC48V ÿ 57V.

• Transmission distance: Ethernet port 0 ÿ 100m; the farthest transmission distance could reach 250m in CCTV model; The uplink port can reach 100m.

• Standard: Complies with IEEE802.3, IEEE802.3u, IEEE802.3 af/at standards, PoE uses End-Span, spare cable can be other use.

• Protection: Excellent anti-thunder, anti-static and anti-interference ability.

• Appearance: Delicate design and easy installation, set the anti-theft lock hole, protect against theft.

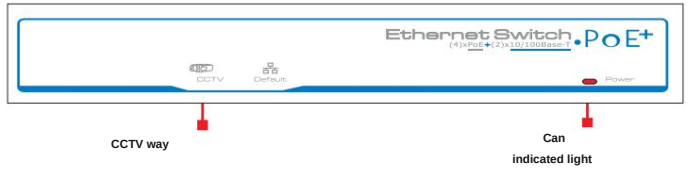
• Operation: Plug and Play, no configuration required.

Important

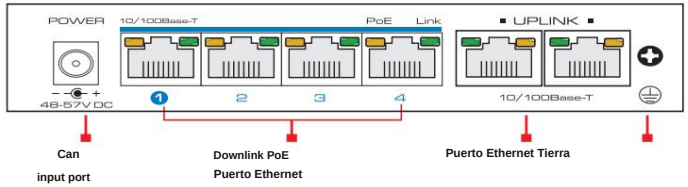
The transmission distance is related to the connected cable. We suggest a standard Cat5e/6 network cable, so the transmission distance may be longer.

switch diagram

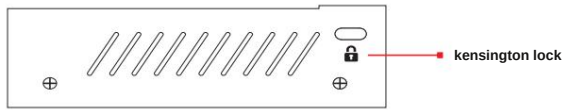
front side



rear side



Lateral



Important

1) The device must be connected with lightning protection ground; otherwise, the protection level will be will reduce; Use wire no. 20 above to connect the ground terminal.

2) Turn the dial to the left, the equipment can enter the watchdog module after supplying power to the equipment.

installation steps

Check the following items before installation; if it is missing, contact the dealer.

4 port switch power adapter	**PC 1**
AC power cord	**PC 1**
	PC 1
Accessory	**PC 1**
User's manual	**PC 1**

Then follow the steps below for installation

1) Please turn off signal power and show device power before installation, or it will damage the transmission equipment.

2) Use a network cable to connect the PoE IP camera and 1ÿ4 downlink ports of the product respectively.

3) Use a network cable to connect the uplink port of the equipment and the NVR or PC.

4) Connect the power adapter.

5) Check whether the installation is correct, the equipment is in good condition, the connection is stable, then turn on the system.

6) Make sure the powered on Ethernet equipment is working properly.

Specifications

Model		Description			
Energy	Power supply	Power adapter			
	voltage range	DC48V ~ 54V			
	Consumption	ÿ 5W			
Ethernet	Speed	Port 1-4: Default: 10/100Mbps; CCTV: 10 Mbps; UPLINK: 100 Mbps			
	transmission distance	Port 1-4: Default: 0 ÿ 100m; CCTV: 0 ~ 250 m; UPLINK: 100m			
Switch	Ethernet Standard	IEEE 802.3 / 802.3u / 802.3af / at			
	exchange capacity	1.0 Gbps			
	Packet forwarding rate	0.74 Mpps			
	packet buffer	768K			
	MAC	2k			
status indicator	power light	1pc(red)			
	ethernet port light	2 pieces (yellow and green) on RJ45, yellow indicates PoE, verde indica Link / Act			
	Watchdog Module Light	1 pcs (green), green indicates CCTV			
protection level	Group Pluse	Level 3 Standard: IEC61000-4-4			
	ESD	1a Contact discharge level 3 1b Air discharge level 3 Standard: IEC61000-4-2			
	anti-thunder level	6KV Standard: IEC61000-4-5			
Working Environment	Work temperature	- 10 ÿ ~ 55 ÿ			
	Storage temperature	- 40 ÿ ~ 85 ÿ			
	Humidity (not condescending)	0 ~ 95%			
Mechanic	Dimension(L* In * H)	135 mm × 85,6 mm × 27 mm			
	outside shell	galvanized sheet			
	Color	Negro			
	Weight	315 g			
power distance 54V	Distance	100m	150m	200m	250m
	Can	26W	24W	23W	21W

The specification change I don't know will notice

Troubleshooting

Follow the steps if the computer has problems.

- Make sure the equipment is installed in accordance with the manufacturer's installation guide.
- Please confirm that the RJ45 cable order complies with EIA/TIA568A or 568B standards.
- Each PoE port can provide PoE equipment with a maximum power of less than 30W, please do not connect PoE equipment with a power greater than 30 W.
- Replace the equipment with a working 4-port PoE switch to check if the equipment is damaged.

- **Contact your provider if the problem persists.**

Connector production method

Instruments to use: cable crimper, network tester. The wire sequence of the RJ45 plug must comply with EIA / TIA568A o 568B.

1) Remove the 2cm long insulating layer and 4-pair bare UTP cable;

2) Separate the 4 pairs of UTP cables and stretch them;

3) Align the 8 pieces of wires according to EIA/TIA 568A or 568B;

4) Cut the wires to leave 1.5 cm of bare wire;

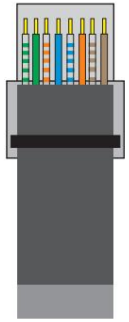
5) Plug 8 wires into the RJ45 socket, make sure each wire is on each pin;

6) Use the wire crimper to crimp it;

7) Repeat the 5 steps above to make the other end;

8) Please use a network tester to test the cable if it works.

pin color	
1	White green
2	Green
3	white / orange
4	Blue
5	White blue
6	orange
7	White Brown
8	Brown



EIA / TIA 568A

Pin	Color
1	white / orange
2	orange
3	White green
4	Blue
5	White blue
6	Green
7	White Brown
8	Brown

EIA / TIA 568B

Important

When you choose RJ45, please make sure if one end is EIA/TIA568A, the other end must be EIA/TIA568A as well. When you choose RJ45, make sure that if one end is EIA/TIA568B, the other end must also be EIA/TIA568B.