

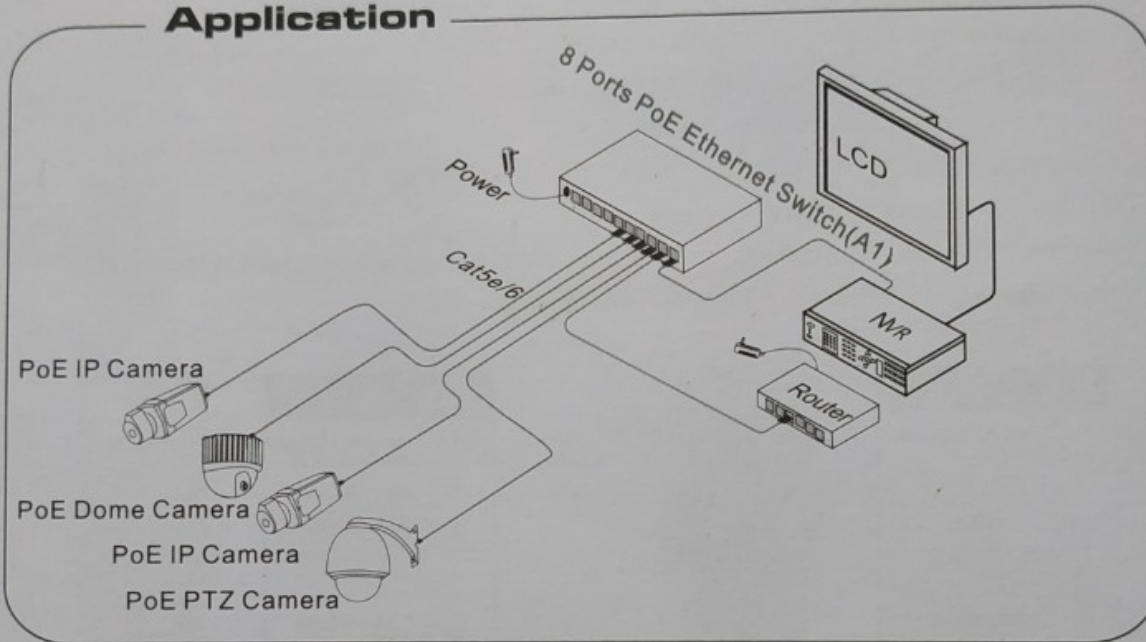
8 Ports PoE Ethernet Switch User Manual

ID: A1

VerB 1.1

The 8 ports PoE Ethernet Switch with 8 downlink PoE ports and double 1000Mbps uplink ports is a security surveillance Ethernet Switch which is applied in high definition network surveillance and security system. The product fully combines the characteristics of security surveillance, provides fast packet forwarding rate and up to 7G backplane bandwidth, which ensures clear image and fluent video transmission. Besides, the 8 downlink PoE ports support IEEE802.3af/at standard, and the double 1000Mbps uplink ports are reliable assurance for connection between the surveillance system and external network connection. The ESD, 6KV lightning protection and surge protection circuits improve product stability. Also the device supports one key CCTV mode which realizes VLAN function, restrains the network storm, protects the information security, prevents the virus spread and cyber attack, fully satisfies the Ethernet video security surveillance system and Ethernet projects needs.

Application



Feature

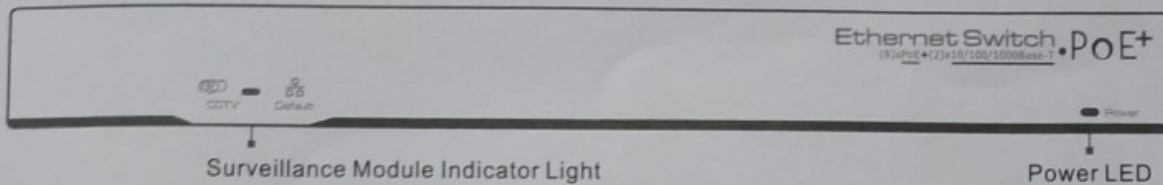
- Major ports 2* Gigabit uplink Ethernet ports, which design is convenient to connect external network system; 8* 10/100Mbps downlink PoE Ethernet ports, each of them supports MDI/MDIX;
- Special Function One Key CCTV Mode: Support VLAN and restrain network storm; 1~8 downlink ports can only communicate with uplink ports; the further transmission distance up to 250m in CCTV mode with the transmission speed rate 10Mbps;
- Input Power DC48V~57V;
- Transmission Distance: In Default mode, the distance of Ethernet port is 100m; In CCTV mode, the distance of downlink 1~8 ports up to 250m;
- Standard Accord with IEEE802.3, IEEE802.3u, IEEE802.3af, IEEE802.3at standard; PoE meets End-Span;
- Protection superior lightning protection up to 6KV, excellent ESD protection and anti-interference ability.

Notice

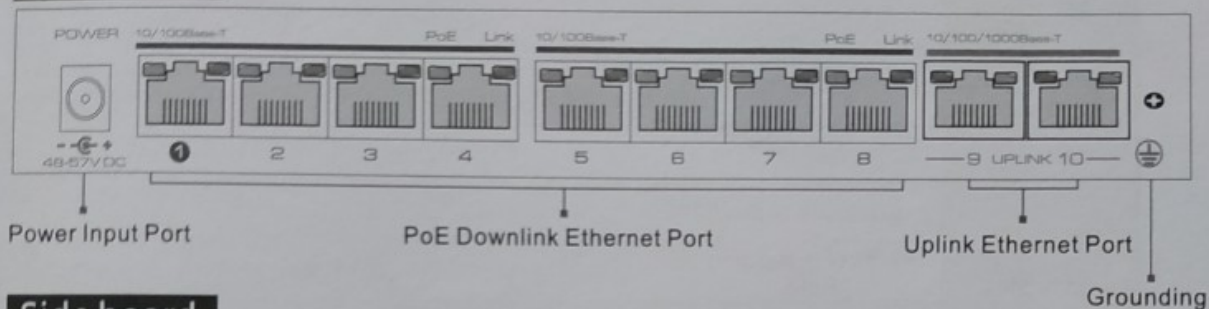
The transmission distance depends on the signal source and cable quality; standard Cat5e/6 Ethernet cable is strongly suggested for reaching the maximum transmission distance!

Board diagram

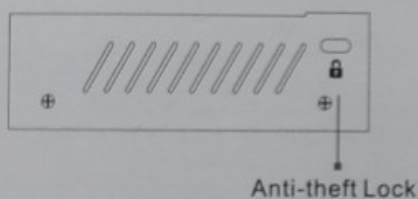
Front board



Back board



Side board



Notice

- 1) Device must be connected with lightning protection grounding; otherwise protection level will be greatly reduced; please use above No.20 wire to connect the grounding terminal;
- 2) The device requires rebooting after the dial switch has been utilized.

Installation steps

Please check the following items before installation, if it is missing, please contact the dealer.

- | | |
|-------------------------------|------|
| ● 8 Ports PoE Ethernet Switch | 1pcs |
| ● Power Adapter | 1pcs |
| ● AC Power Cable | 1pcs |
| ● Accessory | 1pcs |
| ● User Manual | 1pcs |

Please follow installation steps as below:

- 1) Turn off the power of all the related devices before the installation; otherwise the device would be damaged;
- 2) Use Ethernet cable connect PoE IP camera and 1~8 downlink ports of product respectively;
- 3) Use an Ethernet cable to connect equipment uplink port with NVR or computer;
- 4) Connect power adapter;
- 5) Check if the installation is correct, equipment is in good condition, the connection is stable, then power on for system.

Specification

Item	Description
Power	Power Supply Power Adapter DC48V-57V
	Voltage Range DC48V-57V
	Power Consumption <5W
Port Parameter	Rate 1-8 Downlink Ethernet port:10/100Mbps 9-10Uplink Ethernet port:10/100/1000Mbps
	Transmission Distance Downlink Ethernet port:0-250m (CCTV) 0-100m (Default) Uplink Ethernet port:0-100m
Ethernet Exchange	POE Ports RJ45 Ports with 30u Gold-plated Flattened Pin,Satisfy 802.3at/at Standard,Compatible with Mid-Span and End-Span
	Ethernet Standard IEEE 802.3/802.3u/IEEE802.3 at/at
	Backplane Bandwidth 5.6Gbps
	Packet Forwarding Rate 4.16Mpps
	Data Package Cache 1.5Mb
MAC 4K	
Indicator LED	Power LED 1pcs (Red)
	Ethernet Port LED 2pcs (Yellow& Green) on RJ45, Yellow Indicates PoE, Green Indicates Link/Act
Protection Level	Surveillance Mode LED 1pcs(Green), Green Indicates CCTV
	EFT Level 2 Per: IEC61000-4-4
	ESD Level 3 Per: IEC61000-4-2
Environment	Lightning Protection 6KV Per: IEC61000-4-5
	Operation Temperature -10℃~+55℃
	Storage Temperature -40℃~+85℃
Mechanics	Humidity(non-condensing) 0-95%
	Dimensions(LxWxH) 200mm x 101 8mm x 27mm
	Material Metal
	Color Black
	Weight 500g

Product specifications subject to change without prior notice

Trouble shooting

If any trouble in installation, please follow these steps:

- Please make sure you have followed the instruction to install the device;
- Please confirm if the RJ45 cable order is in accordance with the EIA/TIA568A or 568B industry standards;
- The power supply of each PoE port is no more than 30W; please do not connect the PoE device which exceeds the maximum PoE power supply;
- Please replace a failure device with a proper one to check if the device is broken.

RJ 45 Making Method

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

- 1) Struck off about 2cm long the insulating layer, and bare 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) Cut out 1.5 cm cable wrap and leave the 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) Follow the 5 steps above to make the another end, following the same sequence of the first plug;
- 8) Using network tester to test the cable whether is working.

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

Notice

- When choose RJ-45 make sure if one end is EIA/TIA568A, the other end should also be EIA/TIA568A.
- When choose RJ-45 make sure if one end is EIA/TIA568B, the other end should also be EIA/TIA568B.