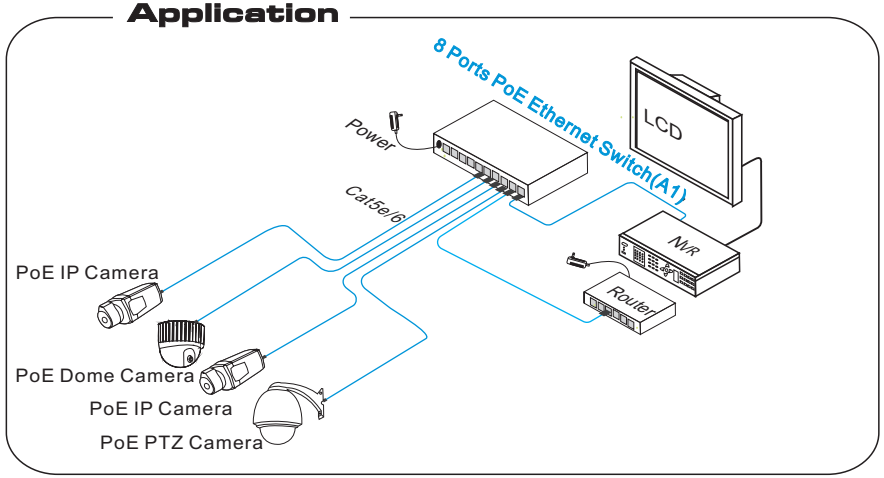
8 Ports PoE Ethernet Switch User Manual

ID: A1

VerB 1.0

The 8 ports PoE Ethernet Switch with 8 downlink PoE ports and double 1000Mbps uplink ports is a security surveillance Ethernet Switch which is applicated 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.Saf、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!

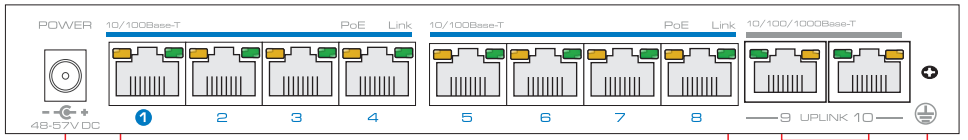
Board diagram

Front board

Surveillance Module Indicator Light

Power LED

Back board



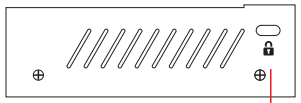
Power Input Port

PoE Downlink Ethernet Port

Uplink Ethernet Port

Grounding

Side board



Anti-theft Lock

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
	Voltage Range	DC48V~57V
	Power Consuption	＜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
	PoE Ports	RJ45 Ports with 30u Gold-plated Flattened Pin;Satisfy 802.3af/at Standard;Compatible with Mid-Span and End-Span
Ethernet Exchange	Ethernet Standard	IEEE 802.3/802.3u/IEEE802.3 af/at
	Backplane Bandwidth	7G
	Packet Forwarding Rate	4.166Mbps
	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
	Surveillance Mode LED	1pcs(Green), Green Indicates CCTV
Protection Level	EFT	Level 2 Per: IEC6 1 000-4-4
	ESD	Level 3 Per: IEC6 1 000-4-2
	Lightning Protection	6KV Per: IEC6 1 000-4-5
Environment	Operation Temperature	-10℃~+55℃
	Storage Temperature	–40℃~+85℃
	Humidity(non-condensing)	0~95%
Mechanics	Dimensions(LxWxH)	200mm×101.8mm×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) Shuck 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.