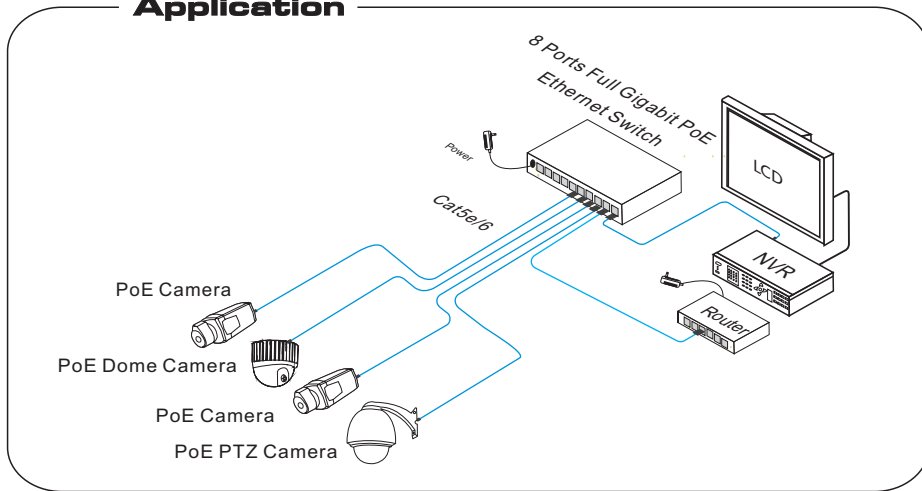# 8 Ports Full Gigabit PoE Ethernet Switch
User Manual
V1.0

8 Ports Full Gigabit PoE Ethernet Switch is an unmanaged Ethernet switch designed for Gigabit Ethernet access and PoE applications. It provides eight Gigabit downlink ports, one Gigabit uplink Ethernet port, and one Gigabit optical SFP module slot. The eight downlink ports support 802.3af/at standard and feature Max. 30W PoE power output of single port, Max. 120W of whole machine. The device supports one-key VLAN which isolates the communication between downlink and uplink ports. It can be widely used in security surveillance, hotels, schools, SMB engineering and other occasions.

Application

- PoE Camera
- PoE Dome Camera
- PoE Camera
- PoE PTZ Camera
- 8 Ports Full Gigabit PoE Ethernet Switch
- Power
- Cat5e/6
- LCD
- NVR
- Router

■ Feature

● Main Function: Provide 8*10/100/1000Base-T Ethernet ports(PoE), 1* 10/100/1000BASE-T Ethernet ports and 1*gigabit SFP ports;

● Compliance with standards: IEEE802.3 、IEEE802.3u、IEEE802.3ab、IEEE802.3z、 IEEE802.3X、 IEEE802.3af/at;

● PoE Power Supply: With 8x gigabit PoE RJ45 ports, each port supports max. 30W PoE output, whole machine reaches 120W PoE power output;

● One-key CCTV: Quickly achieve isolation among downlink ports vis dial switch, effectively restrain network storm, improve network feature;

● Protection: Support 6KV surge immunity, EFT testing standard;

● Operation Environment: Support -10℃~45℃ wide-temperature;

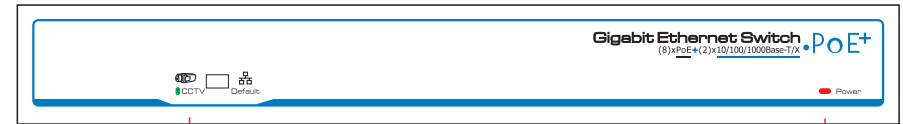● Operation: Plug&play, convenient to use, support desktop, wall-mounted installations.

⚠ 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

Gigabit Ethernet Switch
(8)×PoE+(2)×10/100/1000Base-T/X ·PoE+
CCTV Default
Power

CCTV-mode Toggle Switch   Power LED

Back Board

POWER 10/100/1000Base-T   PoE Link 10/100/1000Base-T
                                                            1000Base-X
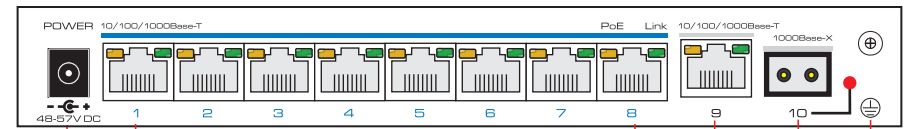48-57V DC   1   2   3   4   5   6   7   8   9   10

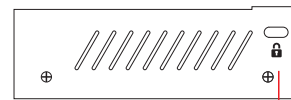Power Port   Grounding

PoE Downlink Ethernet Ports   Uplink Optical Port

Uplink Ethernet Port

Side Board

Kensington Security Slot

⚠ 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.

■ Installaiton Steps

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

● Ethernet Switch   1pc
● Power Adapter   1pc
● AC Power Cable   1pc
● Accessory   1pc
● User Manual   1pc

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) Connect PoE cameras with 1~8 downlink ports of product by Ethernet cable;

3) Connect UPLINK port of product with NVR or PC by Ethernet cable;

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;

6) Ensure the Ethernet equipment with power on can work properly.

■ Specification

Item	Description
Downlink Ports	8x10/100/1000Base-T Ethernet Ports(PoE)
Uplink Ports	1x 10/100/1000Base-TEthernet Ports & 1x 1000Base-X SFP Port
Network Standard	Support IEEE 802.3/802.3u/IEEE802.3ab/IEEE802.3z/IEEE802.3x
Switch Capacity	20Gbps
Packet Forwarding Rate	14Mpps
Exchange Type	Storage&Fowarding
Buffer	1M
MAC Address List	4K
PoE Standard	802.3af/at(PSE)
PoE Mode	End-span
PoE Power Supply	1/2(+) , 3/6(-)
PoE Output	Single PoE Output≤30W(54V DC), Whole machine PoE output≤120W
Surge Immunity	6KV
ESD Protection	Contact discharge 6K, Air discharge 8KV, Per: IEC61000-4-2
Voltage Input	DC 48V~57V
Power Consumption	5W
Operation Temperature	-10℃~+45℃
Storage Temperature	-40℃~+85℃
Operation Humidity	5%-95%(Non-condensing)
Dimensions(LxWxH)	200mm×101.8mm×27mm
Material	Metal
Color	Black
Weight	500g

Product parameters are project to change without prior notice.

■ Trouble Shooting

If any trouble with operation, please follow these steps to do troubleshooting:

● 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 whichexceeds the maximum PoE power supply;
● Please replace a failure device with a proper one to check if the device is broken;
● Please contact your vendor if trouble still exists.

■ RJ 45 Making Method

Tools to make RJ45: wire crimper, network tester.
Wire sequence of RJ45 plug should conform with EIA/TIA568A or EIA/TIA568B standard.
1) Strip off the 2cm insulating layer to expose the 4 pairs UTP cable;
2) Seperate the 4 pairs of UTP cable and straighten them;
3) Line up the 8 separated pieces of cables per EIA/TIA 568A or 568B;
4) Cut the cables to leave 1.5cm bare wire and make sure 8 thread ends are flat and neat ;
5) Insert 8 cables into RJ45 plugs, make sure each cable is inserted in each pin;
6)Then use wire crimper to crimp the RJ45;
7) Do the above 5 steps again to make the another end of the twisted pair and make sure consistent cable order between two ends ;
8) Using network tester to test the cable.

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.