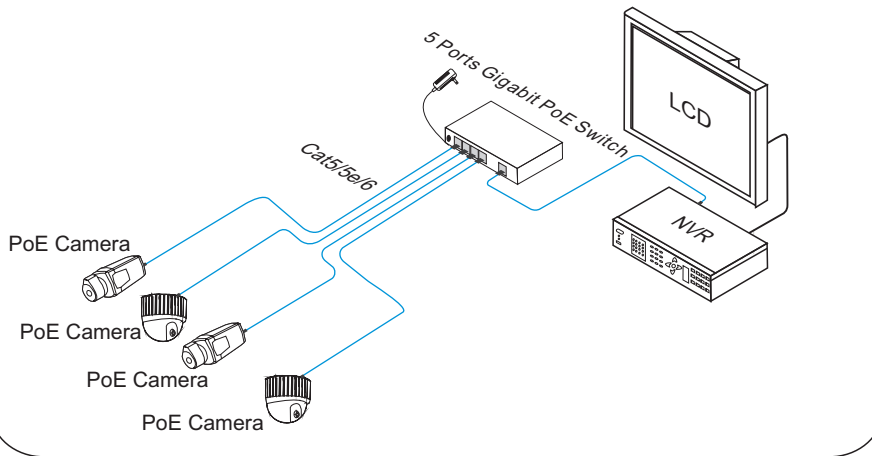


# 5 Ports Gigabit PoE Switch User Manual

VerB 1.0

The 5 Ports Gigabit PoE Switch is specially designed for the application of high definition network security surveillance system. The PoE switch provides 4 Gigabit downlink PoE ports support 802.3at and 1 Gigabit uplink ports. It's widely used in surveillance monitor and Ethernet network solution.

## Application



## Features

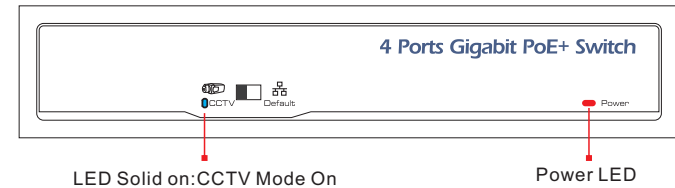
- Main Ports: 4x downlink gigabit PoE Ethernet ports, 1x uplink gigabit Ethernet ports ;
- Unique Feature: one-key CCTV mode, which can restrain network storm, realize VLAN function and 1~4 downlink ports only able to communicate with uplink ports;
- Power Input: DC48V~57V;
- Transmission Distance: 0~100m;
- Standard: IEEE802.3, IEEE802.3u, IEEE 802.3ab, IEEE802.3af, IEEE802.3at;
- Protection: Superior lightning protection(6KV), ESD protection and anti-interference ability; Structure: stable and delicate, easy to install;
- Operation: plug and play, no any settings needed.

## Notice

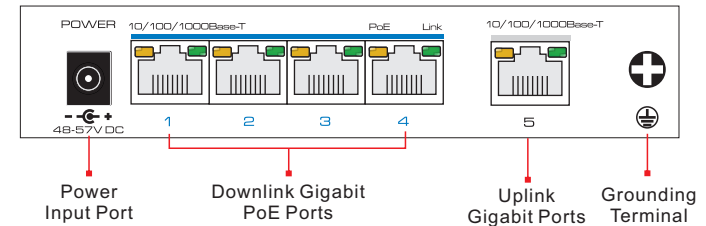
The transmission distance depends on the signal source and cable quality; standard Cat5e/6 Ethernet cable is strongly suggested for reaching the maximum transmission distance!

## Board Diagram

### Front board



### Back Board



## 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 Mode Switch has been utilized.

## Installation 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 IP cameras and 1~4 downlink ports with Ethernet cable;
- 3) Connect UPLINK port with Storage device, like NVR or PC, with Ethernet cable;
- 4) Connect power adapter ;
- 5) Double check the installation and connection of equipments are correct and the equipments are working properly, then power on system;
- 6) Make sure the devices are powered and work properly.

## ■ Specification

Item	Description
Downlink Ports	4x10/100/1000Base-T(PoE)
Uplink Ports	1x 10/100/1000Base-T
Network Standard	IEEE 802.3/IEEE802.3u/IEEE802.3ab/IEEE802.3x
Switch Capacity	10Gbps
Packet Forwarding Rate	7.44Mpps
Exchange Type	Storage&Fowarding
MAC Address List	2K
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≤60W
CCTV Mode	Downlink ports only communicate with uplink ports
Surge Immunity	6KV : IEC61000-4-5
ESD Protection	Contact discharge 6K, Air discharge 8KV, Per: IEC61000-4-2
Voltage Input	DC 48V~57V
Power Consumption	5W
Operation Temperature	-10°C~+55°C
Storage Temperature	-40°C~+85°C
Operation Humidity	5%-95%(Non-condensing)
Dimensions(LxWxH)	135mm×85.6mm×27mm
Material	Metal
Weight	315g

Product specifications subject to change without prior notice.

## ■ Trouble Shooting

Please find the following solution when the device doesn't work

- Please confirm if the installation is correct;
- 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 properly functioning one to check if the device is broken;
- If the problem still exists, please contact the factory.

## ■ 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) Separate 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

- Make sure both ends use EIA/TIA568A connection method when using RJ45 port.
- Make sure both ends use EIA/TIA568B connection method when using RJ45 port.