

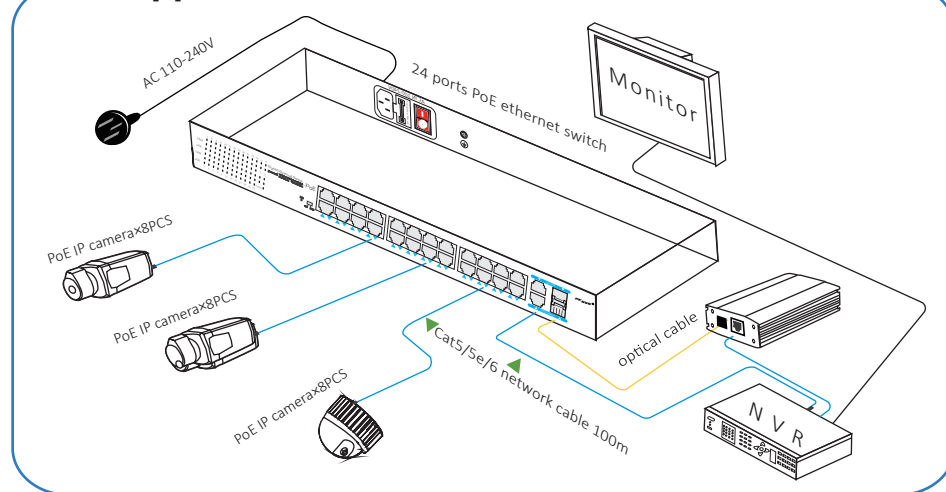
# 24 Ports PoE Ethernet Switch

User Manual

VerB 1.0

24 ports PoE Ethernet Switch is a security surveillance Ethernet Switch which aims at Ethernet high definition surveillance and security system. The product fully combines the characteristics of security surveillance, provides fast packet forwarding ability and abundant backplane bandwidth, which ensures clear image and fluent transmission. ESD and surge protection circuit can improve product stability. The product supports one key Extend mode, with VLAN function can restrain the network storm, protect the information security, prevent the viral transmission and cyber attack, fully satisfy the Ethernet video security surveillance system and Ethernet project needs.

## Application



## Feature

- Major ports: 24x 10/100/1000Mbps PoE ports, 2x 10/100/1000Mbps uplink port, 2x 10/100/1000Mbps SFP port, every port supports MDI/MDIX;
- Special function: downlink ports can only communicate with uplink ports;
- Standard: IEEE802.3af, POE pin: 1/2+, 3/6- (End-span), the remaining lines (4, 5, 7, 8) can be used for other program;
- Protection: Excellent anti thunder, anti static and anti-interference ability;
- Smart Design, With anti-theft lock, Easy installation;
- Operation: Plug and Play, No Setting required;



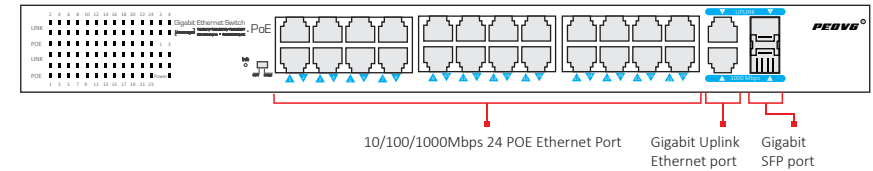
## Notice

The transmission distance is related to the connected cable. We suggest standard Cat5e/6 network cable to make sure transmission distance can up to furthest!

# 24 Ports PoE Ethernet Switch

## Board Diagram

### Front board



### Back board



### Side board



## Notice

- 1) Device must be connected with lightning protection grounding, otherwise protection level will reduce; please use above No.20 wire to connect the grounding terminal.
- 2) Turn the dial switch for left, the equipment can enter surveillance module after providing equipment power.

## Installation steps

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

- |                                |      |
|--------------------------------|------|
| • 24 ports PoE Ethernet Switch | 1pcs |
| • AC power cable               | 1pcs |
| • Accessory                    | 1pcs |
| • User manual                  | 1pcs |

Please follow the below installation steps

- 1) Please turn off the signal source and the device's power before installing, installation with power on may damage the device;
- 2) Use network cable connect PoE IP camera and 1~16 downlink ports of product respectively;
- 3) Use a network cable connect equipment uplink port and 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;
- 6) Ensure the Ethernet equipment with power on can work properly.

## Specification

| Item                 |                                  | Description                                                        |
|----------------------|----------------------------------|--------------------------------------------------------------------|
| Power                | Power Adapter Voltage            | AC 110V-240V                                                       |
|                      | Consumption                      | 450W                                                               |
| Network Connector    | Network Port                     | POE Ethernet Port                                                  |
|                      |                                  | 1~24 Port : 10/100/1000Mbps                                        |
|                      |                                  | Ethernet port                                                      |
|                      | SFP Port                         | Uplink Port: two Ethernet 1000Mbps                                 |
|                      |                                  | SFP Port : two SFP 1000Mbps                                        |
|                      | Transmission Distance            | 1~24 Port : 0 ~ 100m;                                              |
|                      |                                  | 1-2 Uplink port:0~100m                                             |
|                      |                                  | SFP: depends on the optical module                                 |
| Network Switch       | Transmission Medium              |                                                                    |
|                      | Cat5/5e/6 standard network cable |                                                                    |
|                      | Network Standard                 | IEEE802.3/802.3u, IEEE802.3x,IEEE802.1D                            |
|                      | Switching Capacity               | 56Gbps                                                             |
|                      | Packet Forwarding                | 41.7Mpps                                                           |
|                      | MAC Table                        | 8K                                                                 |
| Power Over Ethernet  | PoE Standard                     | IEEE 802.3af                                                       |
|                      | PoE Power Supply                 | End-Span(1/2+;3/6-)                                                |
|                      | PoE Power                        | af=15.4W(every port)                                               |
| LED Status Indicator | PoE Ethernet LED Indicator       | Power: 1 red light indicates that the power normal work;           |
|                      |                                  | POE: 24 yellow lights indicate that the POE is power on;           |
|                      |                                  | Ethernet: 28 green lights indicate that the Ethernet link and act; |
| Environmental        | Working temperature              | 0℃~55℃                                                             |
|                      | Relative Humidity                | 20~95%                                                             |
|                      | Storage temperature              | -20℃~70℃                                                           |
| Mechanical           | Dimension (L×W×H)                | 440mm*290mm*45mm                                                   |
|                      | Color                            | Black                                                              |
|                      | Weight                           | 3957g                                                              |
| Stability            | MTBF                             | >30000h                                                            |

Specification change will not be noticed

## Trouble Shooting

Please follow the steps if the equipment has trouble.

- Make sure the equipment is installed according to the manufactures installation guide.
- Confirm RJ45 cable order meets EIA/TIA568A or 568B standard.
- Every PoE port can provide PoE equipment maximum power less than 30W, please do not connect the PoE equipment with power over 30W.
- Replace the equipment with a proper functioning 4 ports PoE Ethernet Switch to check if the equipment is damaged.
- Please contact your vendor if trouble still exists.

## Plug Producing Method

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

- 1) Please remove 2cm long the insulating layer, and bare 4 pairs UTP cable;
- 2) Separate the 4 pairs UTP cable and straighten them;
- 3) Line up the 8 pieces of cables per EIA/TIA 568A or 568B;
- 4) Cut off the cables to leave 1.5cm bare wire;
- 5) Plug 8 cables into RJ45 plug, make sure each cable is in each pin;
- 6) Use the wire crimper to crimp it;
- 7) Repeat above 5 steps to make the another end;
- 8) Use 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

## Notice

When choose RJ45 make sure if one end is EIA/TIA568A,the other end should also be EIA/TIA568A.

When choose RJ45 make sure if one end is EIA/TIA568B,the other end should also be EIA/TIA568B.