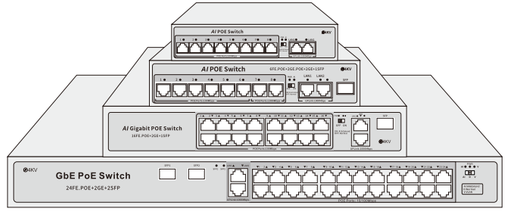
# POE SWITCH

## User Manual




## Product description

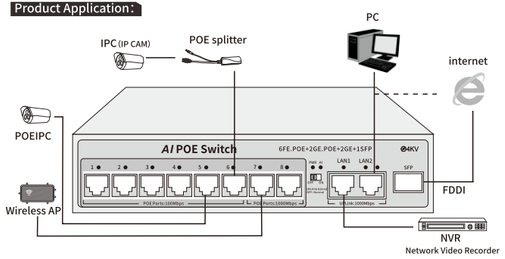
This product is a 100M Ethernet Poe power supply switch independently developed by our company. All power supply ports can automatically detect and identify the power receiving equipment complying with IEEE 802.3at/af standard. This model supports AI intelligent detection. When the monitoring equipment crashes or other network abnormal interruption occurs, it can judge the intelligent restart of Poe port equipment through AI algorithm. Automatic network optimization: automatically judge the network signal transmission status, Intelligent switching of ultra long distance mode, long-distance transmission is stable and does not drop the line.

## Features

- ◆ AI Watchdog Protection: Actively turn on the AI mode. If the access device does not work normally, the device will be automatically POE restarted (Watchdog)*;
- ◆ Extend Mode: open the ultra far transmission state of Poe power supply port, and the farthest transmission can reach 250m (extend);*
- ◆ VLAN Model: power supply ports are isolated from each other to shield broadcast storms and other intranet interference*;
- ◆ Intelligent power supply：Support Ieee802.3af / at standard POE protocol;
- ◆ Safety protection: anti-static impact, short circuit protection, over-current and overload protection, to prevent failures and portect power supply;
- ◆ Whole machine lightning protection: High-quality TVS/TSS devices and high-specification surge protection design greatly reduce the repair rate;
- ◆ Support power supply line sequence 1236, each port has a maximum power of 30W and an average power of 12W or more;
- ◆ Flow control mode: full-duplex adopts IEEE 802.3x , half-duplex adopts Back pressure;
- ◆ Support port automatic flip (Auto MDI/MDIX);
- ◆ Switching system using store-and-forward;
- ◆ All ports support wire-speed switching and support jumbo frame transmission;

Items marked with * are selected according to different product models

## Product Application：

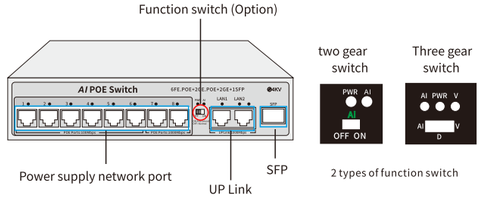



*SFP: Some models have SFP port that support optical modules.The default rate is 1.25Gb/s;

The display is representative of the product, the actual object may be different, but the function is the same.

## Product display:

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**Two gear switch description:**

AI mode *: Enable Poe port AI function (Watchdog) and other auxiliary optimization functions, such as VLAN or Extend

| Gear | Working mode | Function Description |
|---|---|---|
| OFF | Default mode | All ports are free to communicate. Suitable for general mixed data transmission environments |
| ON | AI Mode* | AI Mode:Enable AI monitoring and optimization |

Optimization functions are selected and matched according to different models

**Three gear switch description:**

| Gear | Working mode | Function Description |
|---|---|---|
| AI | Ai+Extend | POE port AI+ smart ultra-long range feature enabled |
| D | default | Do not enable Normal; use the default transmission mode |
| V | Vlan | POE port isolation |

AI mode is only recommended for access to IP cameras

Indicator definition

| Indicator light | Status | Description |
|---|---|---|
| P/POWER | ON | Normal Power |
| | OFF | no electricity |
| Network/POE light | Lighting /Flickering | POE port: Green on means power supply is normal; flashing means data transmission. |
| AI | OFF/ON | Function switch: off/on |

## FAQ:

A. What cameras can connect to this POE switch?
◆POE camera with IEEE 802.3AF/AT
◆If it is not a POE camera, you can add a standard POE splitter to connect the switch to the camera.

B. The indicator light of the switch is normally on. Why there is no video display on the NVR?
◆Please make sure the network settings of the NVR is ok, and search again in the channel management menu of the NVR.
◆For the above operations, please refer to the NVR manual. For example, when the IPC and NVR are of different brands, it is recommended to consult relevant manufacturers for compatibility and IP setting requirements.

C. I used cat 5e network cable, Why it lost signal just over 30 meters?
◆Please make sure that the crystal head is crimped into the position. It is recommended to use a line tester to test whether the network cable can communicate at both ends.
◆Check the crystal head pressure wiring sequence, please use T568B connection method to crimp the crystal head.

D. Can it support 4-core network cable power supply, will it affect camera data transmission?
◆Our company's POE switch supports 1236 line-sequence power supply, so it is very compatible with 4-core power supply.
◆The network interface of the camera is a 100M network port. The transmission of the 100M network is only 1236 quad core, and the other four cores do not play or connect, so it will not affect the camera transmission.

E. When do I need to enable the AI function?
◆Extend is a super-long transmission function, generally more than 100 meters distance requirement.
◆The camera signal is disturbed or insufficient in intensity, causing instability such as image transmission and intermittent.

Product parameters and appearance are subject to change without notice, please refer to the official website.

QUALIFIED CERTIFICATE
MODEL:
CHECKER:
DATE:
PASS 01

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