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Version 09/2019

## User manual

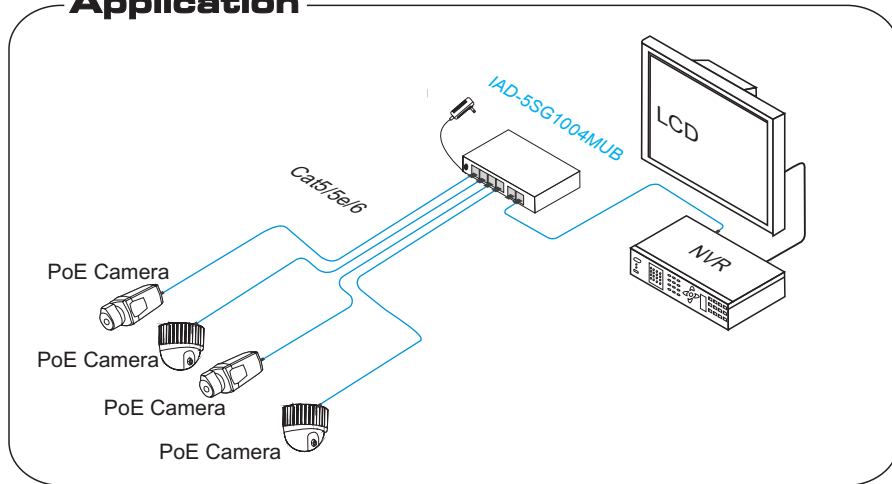
**Gigabit Switch, Unmanaged,  
60W, 4x PoE, 2x RJ45,  
10/100/1000 Mbps, Desktop**

**IAD-5SG1004MUB**

# 4 Ports Full Gigabit PoE Switch User Manual

The 4 Ports Full 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 dual Gigabit uplink ports. It's widely used in surveillance monitor and Ethernet network solution.

## Application



## Features

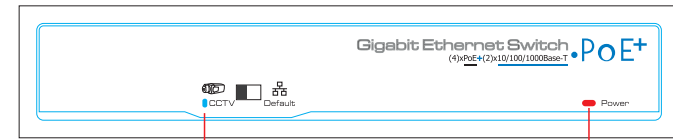
- Main Ports: 4x downlink gigabit PoE Ethernet ports, 2x uplink gigabit Ethernet ports ;
- Unique Feature: one-key CCTV mode, which can restrain network storm, realize VLAN function and 1~4 downlink ports only able to communicate with uplink ports;
- Power Input: DC48V~57V;
- Transmission Distance: 0~100m;
- Standard: IEEE802.3, IEEE802.3u, IEEE 802.3ab, IEEE802.3af, IEEE802.3at, PoE adopts End-span;
- 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

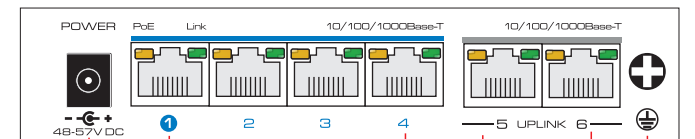
### Front board



LED Solid on: CCTV Mode On

Power LED

### Back Board



Power Input Port

Downlink Gigabit PoE Ports

Uplink Gigabit Ports

Grounding Terminal

## ! 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		IAD-5SG1004MUB
Power Supply	Power Supply	Power Adaptor
	Voltage Range	DC48V~57V
	Power Consumption	60W
Connector Parameters	Ports Ethernet	1~4 Downlink Ports:10/100/1000Mbps PoE Ethernet Ports; 5~6 Uplink Ports:10/100/1000Mbps Ethernet Ports.
	Transmission Distance	0~100m
	PoE Standard	IEEE802.3 af, IEEE802.3 at, End-span
	PoE Power Supply	Each Port ≤30W, Total <60W
Network Switching	Network Standard	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab
	Packet Forwarding Rate rate	8.93Mpps
	Switching Capacity	12G
	Packet Data Cache	1Mb
	MAC Table	8K
One-key CCTV Mode	Mode Function	a. All Downlink Ports Can Only Communicate with Uplink Ports, Can't communicate each other; b. Restrain Network Storm under 2M.
Indicator Status	Power Input	1x Red Light
	One-key CCTV	1x Green Light, Solid on after CCTV Mode on
	Downlink Ports	Link: Green LED( on RJ45) PoE: Yellow LED( on RJ45)
	Uplink Ports	Link:Green LED(on RJ45) Acting:Yellow LED(on RJ45);
Protection Level	Lightning Protection	6KV, Per: IEC61000-4-5
	ESD Protection	Level 3, 1a Contact Discharge Level 3, 1b Air Discharge Per: IEC61000-4-2
Operation Environment	Operation Temperature	-10°C~+45°C
	Storage Temperature	-40°C~+85°C
	Humidity(Non-condensing)	0~95%
Mechanics	Dimension(LxWxH)	135 mm×86 mm×27mm
	Material	Metal
	Color	Black
	Weight	343g

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.