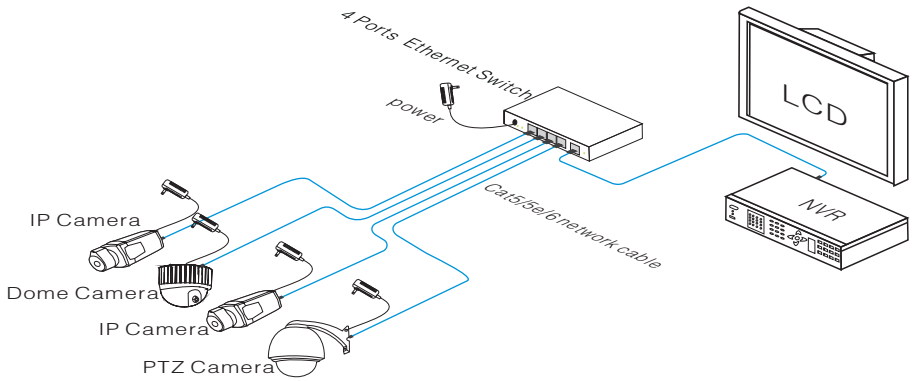
4 Ports Ethernet Switch User Manual

VerB 1.3

4 ports Ethernet Switch is a security surveillance Ethernet switch which aims at Ethernet high definition surveillance and Ethernet project 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 CCTV mode, can achieve VLAN, control the Net storm, protect the information security, prevent the viral transmission and Ethernet attack, fully satisfy the Ethernet video security surveillance system and Ethernet project needs.

Application



Feature

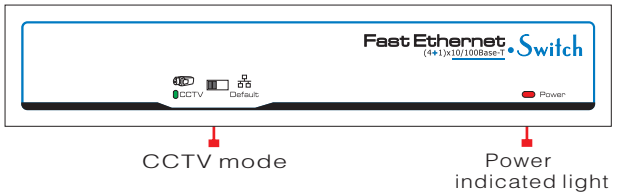
- Major ports: 1pcs 100Mbps uplink Ethernet port, 4pcs 100Mbps downlink Ethernet ports , each port supports MDI/MDIX;
- Special function: One key CCTV mode;1 ~ 4 downlink ports can only communicate with uplink ports;
- Power input: DC12V;
- Transmission Distance: 0 ~ 100m; the farthest transmission distance could reach 250m in CCTV model; Uplink port can reach 100m;
- Standard: Meet IEEE802.3, IEEE802.3u standards;
- Protection: Excellent anti-thunder, anti-static and anti-interference ability;
- Appearance: Delicate design and easy installation, configure the anti-theft lock hole, guard against theft;
- Operation: Plug and Play, No Setting required.

Notice

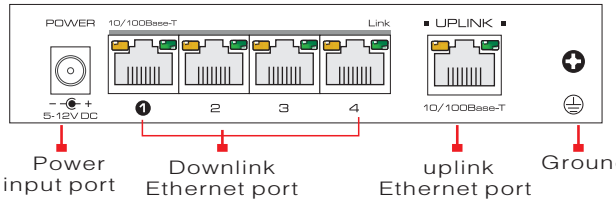
The transmission distance is related to the connected cable. We suggest standard Cat5e/6 network cable, so the transmission distance can up to furthest distance!

Board Diagram

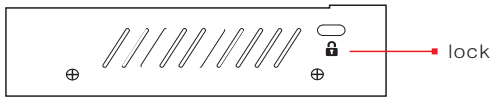
Front board



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 power on.

Installation steps

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

- 4 ports Ethernet Switch 1pc
- Power adaptor 1pc
- Accessory 1pc
- User manual 1pc

Please follow below the installation steps

1) Please turn off the signal power and display device power before installation, installation with power will damage the transmission equipment;
2) Use network cable connect IP camera and 1 ~ 4 downlink ports of product respectively;
3) Use a network cable connect switch's up link port with NVR or computer;
4) Connect power adapter;
5) Check if the installation is correct, equipment is in good condition, the connection is stable, then provide power for system;
6) Ensure the Ethernet equipment with power and work properly.

Specification

Item		Description
Power	Power Supply	Power Adaptor
	Voltage Range	DC5V~12V
	Consumption	<5W
Ethernet	Speed	1~4 port:Default:10/100Mbps; CCTV:10Mbps; UPLINK:10/100Mbps
	Transmission Distance	1-4 port:Default:0~100m; CCTV:0~250m; UPLINK:0~100m
Network Switch	Ethenet Standard	IEEE 802.3/802.3u
	Exchange Capacity	1.0Gbps
	Packet Forwarding Rate	0.74Mpps
	Packet Buffer	768K
	MAC	2K
Status Indicator	Power Light	1pc(Red)
	Ethernet Port Light	2pcs(Yellow&Green) on RJ45,yellow off, green indicates Link/act
	Surveillance Module Light	1pcs(Green), On indicates CCTV
Protection Level	Pluse Group	Level 3 Standard: IEC61000-4-4
	ESD	1a Contact Discharge Level 3 1b Air Discharge Level 3 Standard: IEC61000-4-2
	Anti-thunder Level	6KV Standard: IEC61000-4-5
Working Environment	Working Temperature	-10℃~55℃
	Storage Temperature	-40℃~85℃
	Humidity(Non-condesing)	0~95%
Mechanical	Dimension(L*W*H)	135mm×85.6mm×27mm
	Out Shell	Galvanized Sheet
	Color	Black
	Weight	290g

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.
- Replace the equipment that can not work with a good one to check if the equipment is damaged.
- Please contact your vendor if trouble still exists.

Plug Producing Method

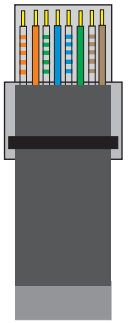
Instruments to be used: wire crimper, network tester. Wire sequence of RJ45 plug should conform with EIA/TIA568A or 568B.

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) Using 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.