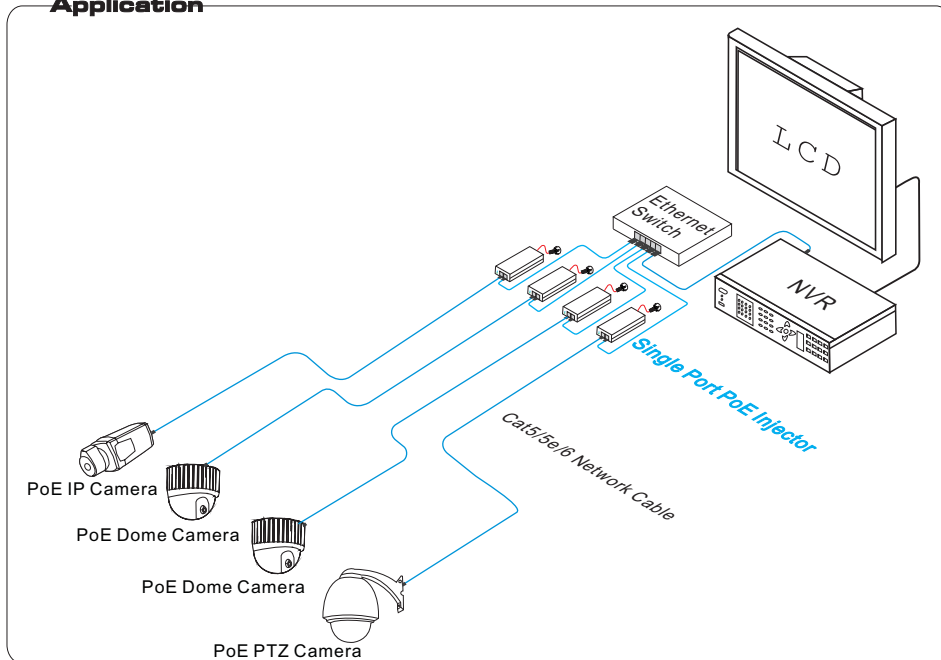# Single Port PoE Injector /af

This is a single port PoE injector which can transfer normal Ethernet signal into standard PoE signal supporting IEEE802.3af, in order to power supply for terminal device which support IEEE802.3af. It improve the system stability, simplified installation and wiring.

Application

Ethernet Switch

LCD

NVR

Single Port PoE Injector

Cat5/5e/6 Network Cable

PoE IP Camera

PoE Dome Camera

PoE Dome Camera

PoE PTZ Camera

■ Features

● Power：AC100V~AC240V@50/60Hz;

● Power Rate: ≤15.4W;

● Transmission Media: Cat5/5e/6 Cable standard network cable;

● Standard: IEEE802.3af;

● Protection: Wide voltage AC Input. Strong lighting protection, ESD, anti−inteference

● Structure: Support tablet and wallet installation. 2 sets of PoE injector can connect with the
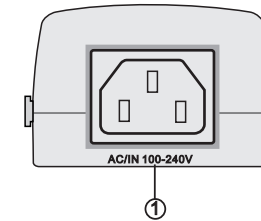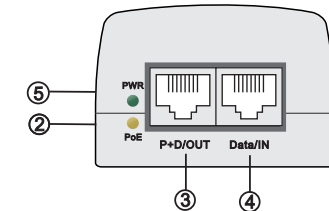   bayonet.

⚠ **Notice**

To make sure the transmission quality, please use standard Cat5/5e/6 cable.
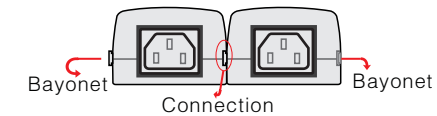

■ Board Diagram

Front

AC/IN 100-240V

①

Back

PWR

⑤
②

PoE

P+D/OUT   Data/IN

③   ④

Bayonet

Bayonet   Bayonet
        Connection

Board

No.	Board	Description
1	AC/IN 100−240V	AC100V~240V power port
2	PoE	PoE LED on means PoE signal output
3	P+D/OUT	PoE signal output port
4	Date/IN	Ethernet input port
5	PWR	PWR LED on means power supply normal

■ Installation Step

Please check the following items before installation. If any missing, please contact the dealer.

● Single Port PoE Injector   1pc
● AC Power Line   1pc
● User Manual   1pc

Please follow the following step

1) Please turn off the signal source and the device's power, installation with power on may
    damage the device;

2) Use a network cable to connect PoE IP camera with PoE OUT port of Single Port PoE Injector;

3) Use another network cable to connect Data In of Single Port PoE Injector with Ethernet switch and other
    devices which dose not support PoE ;

4) Connect AC power line;

5) Check if the installation is correct and device is good, make sure all the connection is
    reliable and power up the system;

6) Make sure all the network devices have power supply and they are working normal.

■ Specification

Item		Description
Power	Power Supply	City Electricity
	Power Voltage	AC100V~AC240V
	Output Consumption	≤15.4W
Ethernet Port	Communication Port	1 × RJ45
	Transmission Rate	10/100Mbps
	Transmission Medium	Cat5/5e/6 standard network cable
	Transmission Distance	100m (Max)
LED Status Indicator	Power	1(Green)
	PoE	1 (Yellow)
Protection	Surge Protection	1KV Per:IEC61000−4−5
	ESD	1a Contact Discharge Level 3 1b Air Discharge Level 3 Per: IEC61000−4−2
Environmental	Working Temperature	0℃~55℃
	Storage Temperature	−20℃~70℃
	Humidity	0~90%
Mechanical	Size (L × W × H)	145.5mm × 64.5mm × 40.5mm
	Material	ABS Plastic
	Color	Black
	Weight	163g
Stability	MTBF	>30000h

Product are 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 in accordance with the EIA/TIA568A or 568B industry standards;

● The maximum output consumption of the PoE port can't exceed 15.4W, please do not connect the
  network device which consumption is more than 15.4W;

● Please replace a normal device with a failure one to check if the device is broken;
  If the problem still exist, please contact the factory.

■ RJ 45 Making Method

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

1) Shuck off about 2cm long the insulating layer, and bar the 4 pairs UTP cable;

2) Depart the 4 pairs UTP cable and straighten them;

3) Line up the 8 pieces of cables per EIA/TIA 568A or 568B;

4) Cut out 1.5 cm cable wrap and leave the bare wire;

5) Plug 8 cables into RJ45 plug, make sure each cable is in each pin;

6) Then use wire crimper to crimp it;

7) Follow the 5 steps above to make the another end, following the same sequence of the first plug;

8) Using network tester to test the cable whether is working.

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 RJ−45 make sure if one end is EIA/TIA568A,the other end should also be EIA/TIA568A.

● When choose RJ−45 make sure if one end is EIA/TIA568B,the other end should also be EIA/TIA568B.