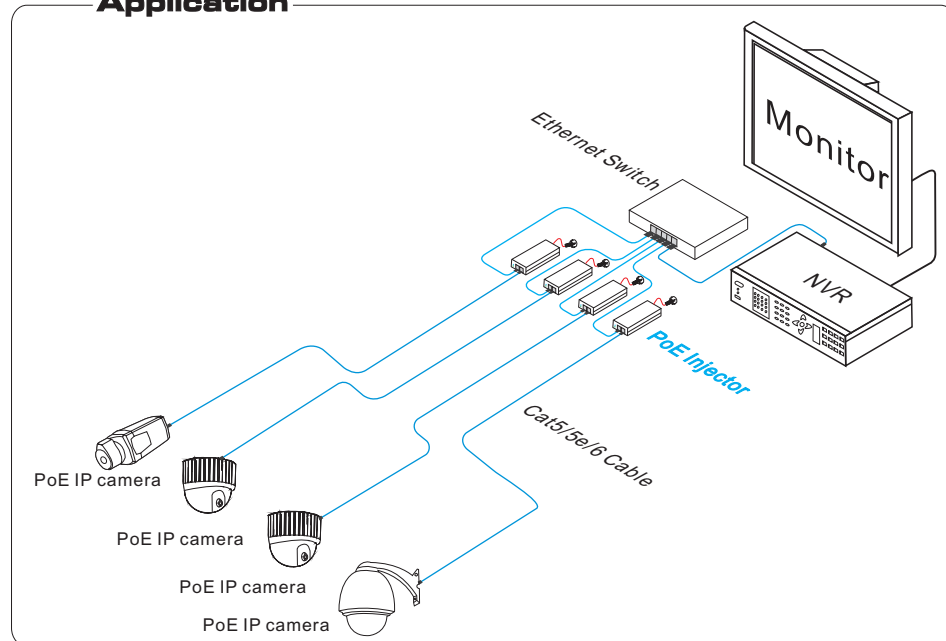# PoE Injector (Gigabit/30W)
User Manual

VerB 1.0

This is a single-port PoE injector with one Ethernet port, one PoE output port, and one AC input power port. It supports end-span PoE and the output power consumption is up to 30W; It features:10/100M/1000Mbps network,100m transmission distance,6KV lightning protection, industrial-level chip, and patent alert. it's an excellent choice for power supply and network transmission on PTZ cameras, all-in-one PC, digital display system.

Application

Monitor

Ethernet Switch

NVR

PoE Injector

Cat5/5e/6 Cable

PoE IP camera

PoE IP camera

PoE IP camera

PoE IP camera

■Features

● PoE+ power supply standard; Output power consumption up to 30W;

● IEEE 802.3af/at、IEEE 802.3 10Base-T/100Base-TX/IEEE802.3ab 1000Base-T;

● Higher conversion efficiency(90%); Lower heat radiation;

● Working Temperature: -10℃ ~ 55℃;

● 6KV lightning protection; 8KV ESD;

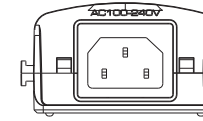● No fan, no noise, dustproof;
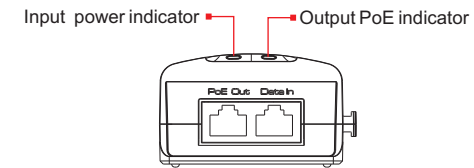
● LEDs indicate operation status.

⚠ Notice

The transmission distance depends on the signal source and cable quality,standard Cat5e/6 cable is strongly suggested for reaching the maximum transmission distance!
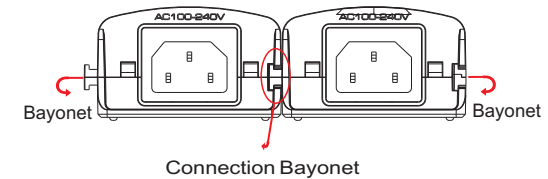
■Board Diagram

Front

AC100-240V

Back

Input power indicator   Output PoE indicator

PoE Out   Data In

Bayonet

AC100-240V   AC100-240V

Bayonet   Bayonet

Connection Bayonet

■Installation

Please check the following accessory, if you find the item lost, please contact our local dealer.

● PoE Injector   1pc
● AC Power Cable   1pc
● Power Buckle   1pc
● User Manual   1pc

Please follow installation steps as below

1) turn off the system's power before the installation;

2) The PoE Output port of this injector is connected with PoE IP Camera;

3) The Data Input of this injector is connected with switch of no PoE fuction;

4) Please connect PoE Injector with AC cable;

5) Please examine and power the system.

■ Specification

Item		Description
Interface	Input Voltage	AC100V~AC240V
	Data Input	1×RJ45
	PoE output	1×RJ45
PoE	PoE Power Supply Type	End-span
	PoE Power Output	DC 54V/30 watts
	Output Ripple	< 5%
	Power Pin Assignment	Pair : 1/2(+),3/6(-)
Ethernet Port	Communication Port	1×RJ45 Input
	TransmissionRate	10/100/1000Mbps
	Transmission Medium	Cat5/5e/6 Cable
	Distance	100m (Max.)
Status	Power LED	1 (Red)
	PoE LED	1 (Orange)
Protection	Surge Protection	PoE Power : 1KV(Differential Mode),2KV(Common Mode)1.2/50us , 8/20us Ethernet : 2KV(Differential Mode),6KV(Common Mode)10/7000us
	ESD	1a Contact Discharge Level 3 1b Air Discharge Level 3 Per: IEC61000-4-2
Environment	Working Temperature	-10℃~55℃
	Storage Temperature	-40℃~85℃
	Humidity(Non-condensing)	0~90%
Mechanics	Dimension(LxWxH)	160mm×64mm×60mm
	Material	ABS Plastics
	Color	Black
	Weight	200g

Product specifications subject to change without prior notice

■ Trouble Shooting

If any trouble in installation, please follow these steps

● Please make sure you have followed the instruction to install the device;

● Please confirm if the RJ45 cable order is in accordance with the EIA/TIA 568A or 568B industry standard;

● The power supply of PoE port is no more than 30W; please do not connect the network device whose power consumption is over 30W;

● Please replace a failure device with a proper one to check if the device is broken;

● If the problem still exist, please contact the local dealer.

■ RJ45 Making 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 bar the 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 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.