

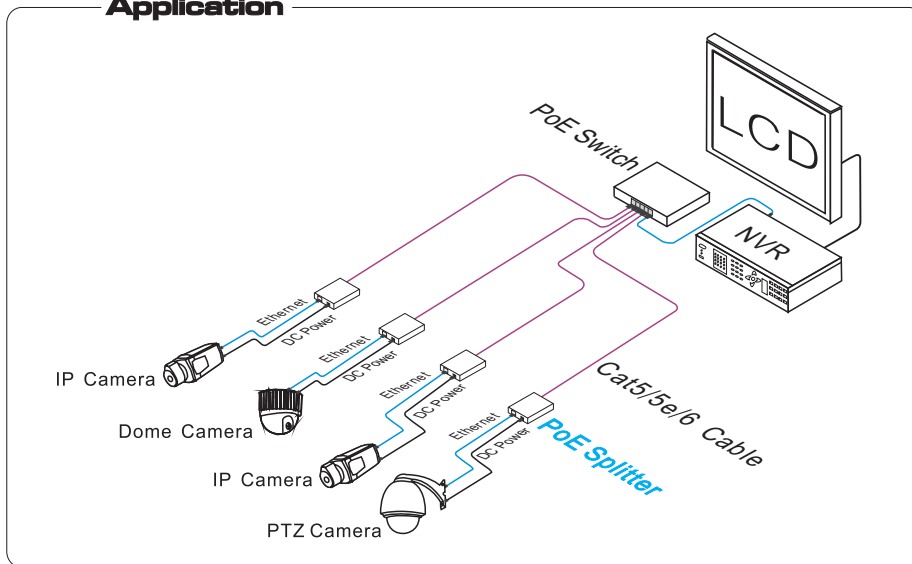
# PoE Splitter (10/100/1000Base-T; IEEE802.3af)

## User Manual

VerB 1.2

PoE Splitter consisting of one PoE Input Port, one Ethernet port, and one DC Power Output port. PoE (Power over Ethernet) technology allows the existing Ethernet infrastructure to transmit electrical power, along with data, to remote IP endpoints over the Ethernet cables. It fully complies with IEEE802.3 af/at standard, and can work with all IEEE802.3 af/at PoE compliant PSE (Power Sourcing Equipment) or PoE Supplier Adapter. It supports Mode A (end-span) and Mode B (mid-span). The maximum power available at PD is up to 25W and it delivers power up to 100 meters. It features optional 12V DC/24V DC power supply, Gigabit speed support, 6KV Surge Protection, 1.5KV circuit isolation, -40°C ~75°C Operating Temperature, Industrial chip, and aluminum shell.

### Application



### Feature

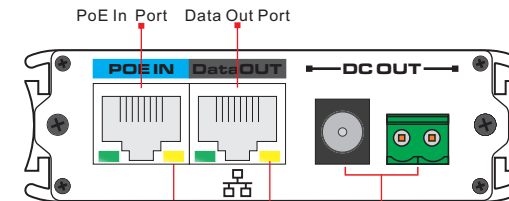
- Power Supply: Support 36~60V wide voltage input, 25W high power consumption output and DC 12V/24V switch output;
- Compatible with mode A(End-span) and mode B(Mid-span);
- Conversion efficiency  $\geq 90\%$ , reduce the heat;
- Standard: accord with IEEE802.3af/at, IEEE802.3 10Base-T/100Base-TX/IEEE802.3ab 1000Base-T;
- Reliable connection: Network connectors adopt high-power PoE flat-pin RJ45 ports with 30u gold-plated;
- Power output connectors support DC terminal and green terminal two styles;
- Wide-temperature design: -40°C~75°C wide range, the aluminum shell is good for heat dissipation;
- Structure: small volume, easy installation, accord with MIT rack and wall-mounted installation.

### Caution

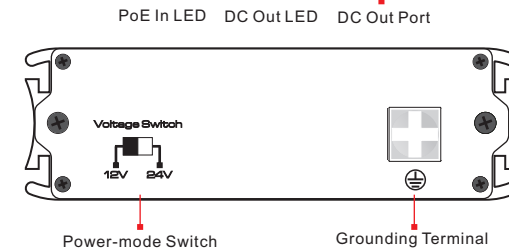
The equipment must connect anti-thunder ground, otherwise the protection level of the equipment will be greatly reduced; please use 20th or over wire connect ground port to the ground.

### Board Diagram

#### Front



#### Back



### Notice

Please power off the device while using the Power-mode Switch in case of destroying the device.

### Installation Step

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

- |                 |      |
|-----------------|------|
| ● PoE Splitter  | 1pc  |
| ● MIT Hanger    | 2pcs |
| ● DC Plug Cable | 2pcs |
| ● RJ45 Cable    | 1pc  |
| ● User Manual   | 1pc  |

#### Please follow installation step as below

- 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 the PoE switch, and connect the other side with the splitter's PoE IN port;
- 3) Use another network cable to connect the IP camera with the PoE splitter's ethernet port;
- 4) Connect the DC power line with the splitter's DC port, and connect the other side to the IP camera's power port;
- 5) Check if the installation is correct and device is good, make sure all the connection is reliable and system is powered on;
- 6) Make sure all the network devices have power supply and they work normally.

## ■ Specification

Item	Description	
Interface	PoE In	1 × RJ45
	Data Out	1 × RJ45
	DC Out	1 × green terminal 1 × DC connector(*alternative)
	Grounding	Grounding Terminal
PoE power supply	Protocol	IEEE803.2af/at
	Power Supply	Support Mode A (End-Span) and Mode B (Mid-Span)
	Power Requirements	PoE36V~60V 30W(max)
	Power Consumption	≤25.4W
	Output power	DC 12V/24V by DIP switch control
	Output Ripple	<5%
Ethernet Port parameter	Transmission Distance	100m
	Transmission Speed	10/100/1000Mbps
	Transmission Medium	Cat5/5e/6 Standard Network Cable
Status Indicator	Input PoE Power	1 (PoE IN Port RJ45 Yellow Light)
	Output DC Power	1 (Ethernet Port RJ45 Yellow Light)
Protection level	ESD	3 level, Standard:IEC61000-4-2
	Lightning Protection	PoE Power:3KV(Differential Mode),6KV(Common Mode)1.2/50us, 8/20us Ethernet:3KV(Differential Mode), 6KV(Common Mode)10/7000us
Environmental	Operating Temperature	-40°C~75°C
	Storage Temperature	-40°C~85°C
	Humidity (Non-Condensing)	0~95%
Mechanics	Dimension (L × W × H)	82mm×63mm×25mm
	Material	Aluminum
	Color	Black
	Weight	180g

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 in accordance with the EIA/TIA568A or 568B industry standards;
- The maximum output consumption of the PoE port can't exceed 30W, please do not connect the network device which consumption is more than 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.

## ■ RJ 45 Making Method

Instruments to be used: wire crimper, network tester.

Wire sequence of RJ45 plug should conforms with EIA/TIA568A or 568B standards.

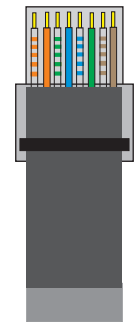
- 1) Shuck off about 2cm long of the insulating layer to expose the 4 pairs UTP cables;
- 2) Seperate the 4 pairs UTP cables and straighten them up;
- 3) Line up the 8 pieces of cables per EIA/TIA 568A or 568B standards;
- 4) Brunt cut the cables to leave 1.5cm wire exposed and make sure the wire ends are leveled off;
- 5) Plug 8 cables into RJ45 plug, make sure each cable is in each pin;
- 6)Then use wire crimper to crimp it;
- 7) Repeat above 5 steps to make the another end;
- 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

- 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.