

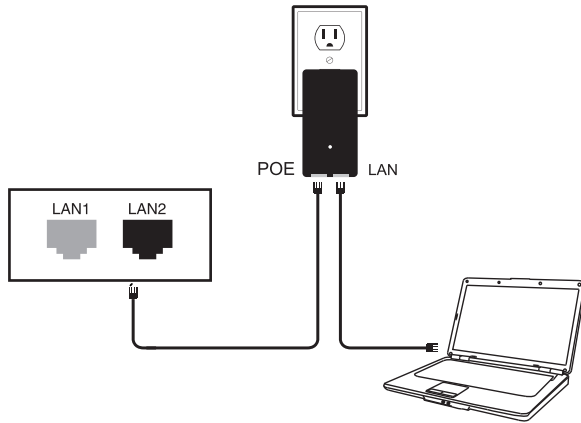
Wireless Access Point

DIP Operation Manual

128 pair DIP codes(Cloud)

A decorative graphic in the bottom right corner consisting of several concentric gray arcs and a gray sector, resembling a stylized signal or a portion of a circle.

Connection diagram of POE with CPE

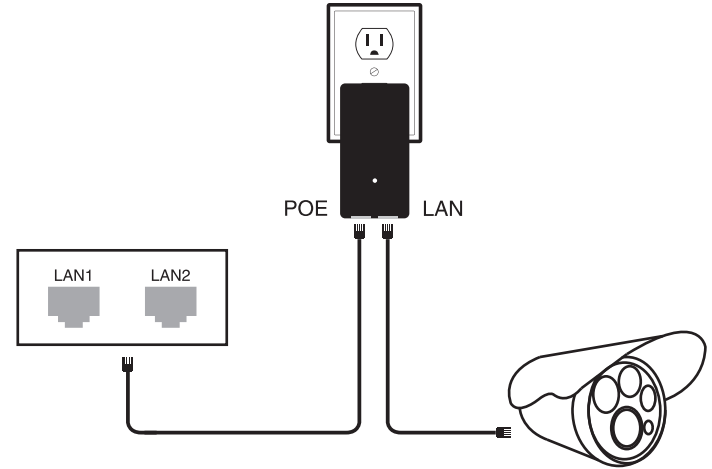


POE Port Connect with LAN1 or LAN2 port on AP

POE LAN Connect with PC, Camera, Switch or NVR

NOTE: 1.Both RJ45 ports(black and yellow) on AP are LAN connections.

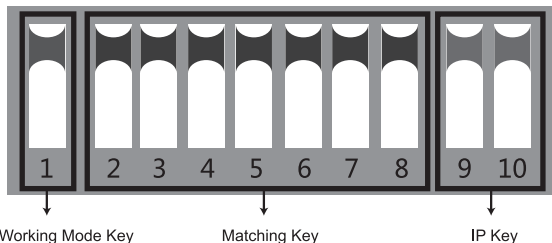
- 2.If you want to enter web page, you need manually bound IP address of PC
- 3.The PoE power adapter has 3 inputs. One is for the AC cord, and two are for networking.
- 4.Please note the PoE adapter and power cord are not designed for outdoor use and should be installed in a location protected from the elements.



The bottom of the adapter has two RJ45 connections. One marked POE and one marked LAN.

Using one Cat5 cable, connect one end to "LAN" and the other end to your camera, recorder, PC, etc.

DIP device instructions

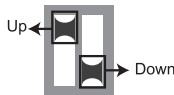


Button 1 changes the mode of the device. UP is access point (AP) mode for use with your recorder, PC, etc.. DOWN is for use with your camera.

Buttons 2 through 8 are for matching AP devices together. There are 128 various combinations that can be made from the 7 keys, which corresponds to 128 different SSIDs and 128 different segments. The Pages 8-15 below show all possible combinations.

Buttons 9 & 10 are for point to multi-point functionality. To use up to 4 cameras with one recorder, configure the DIP switches as follows:

1. On the recorder/PC/Switch side, switches 9 and 10 should remain up.
2. On the camera side, select one of 4 configurations for switches 9 and 10:
 - a. Camera 1: 9 Down and 10 Down
 - b. Camera 2: 9 Down and 10 Up
 - c. Camera 3: 9 Up and 10 Down
 - d. Camera 4: 9 Up and 10 Up
3. You cannot duplicate the switch settings between Cameras for switches 9 & 10 or you will experience interference, thus the max of 4 points.

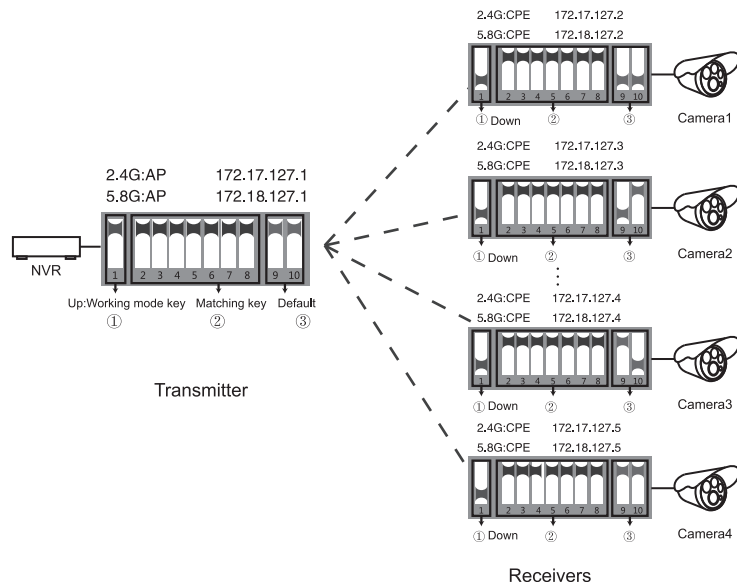


Remarks:

1. Restart your AP after finishing DIP settings.
2. The SSID of DIP type AP defaults is not broadcast, password has been set up and can be customized.
3. Make sure the IP address of the camera is different from AP

Managing Settings CPE settings

Point to multipoint, as follows:



NOTE: For a single point-to-point case, the DIP switches selected for slots 9 and 10 do not matter. Just make sure the working mode key and matching key are set correctly.

Signal power setting

If you wish to edit the settings of your AP, instructions are immediately below.
First, assign your computer a static IP address in the same range as the AP:

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

☐ Obtain an IP address automatically

☒ Use the following IP address:

IP address:

Subnet mask:

Default gateway:

☐ Obtain DNS server address automatically

☒ Use the following DNS server address:

Preferred DNS server:

Alternate DNS server:

Advanced...

OK Cancel

NOTE: Subnet Mask must be "255.255.0.0" for IP "172.18.128.1"

(picture 1)

NOTE: The default IP address of 2.4G units is 172.17.0.2
Subnet mask is 255.255.0.0
The default IP address of 5.8G units is 172.18.0.2
Subnet mask is 255.255.0.0

Signal power setting

Type the IP address of corresponding AP device in IE browser to get into the WEP page, the default password is "password". Signal power can be set after logging in.

Wireless Network

Status

System

Transmit Power Mode

Router Access Time

Backup / Restore

Update Firmware

Reboot

Logout

Transmit Power Configuration

Power: dBm(Max 27 dBm)

Encryption Configuration

Use Custom Key: ☐ ☐ show

Distance Configuration

Distance:

Client Signal Threshold

Signal Threshold: (Only for Station)

Save Changes >

Reset >

Transmit Power Configuration: The default is the maximum value, the transmit power should be reduced appropriately when the signal is too strong.

Encryption Configuration: Customized key can be used for security. (The same key should be set in the transmitter and receiver.)

Distance Configuration: Default value is two kilometers, it should be set according to practical situation. (The same distance value should be set in the transmitter and receiver. If not, it will lead to high latency, low bandwidth network connection.)

Q&A

Q1: What should be noted when setting the AP DIP Switches?

A1: Make sure the power is off.

Q2: How dose the AP work without a dedicated power supply?

A2: The AP gets it's power via the Cat5 cable. It is called PoE. Two cables are needed for the connection. STP CAT5e cable is strongly recommended.

Q3: How long can the PoE cable be?

A3: The length of the cable depends on the power voltage and cable quality. For 24V power, the length of the cable can typically be 100', and up to 200' for 48V power.

Q4: Why don't I see any signal lights once the AP should be powered up?

A4: We recommended you do a troubleshooting test as detailed below. For the transmitter, set all buttons from "1" to "10" UP. For the receiver, set button "1" DOWN, and the button from "2" to "10" UP. After finishing, turn on the power and wait for three minutes. The distance between the transmitter and the receiver should be more than 2 meters. If you still don't see any indication the units are powered up and communicating with each other, contact our technical support department.



Transmitter



Receiver

Q5: Why is the local network connection choppy after installation?

A5: We suggest trying two things:

1. Change the cable to see if it is a cable problem
2. Change to a different wireless channel (different DIP switch settings between 2 and 8) to avoid the signal interference.

If you still have issues after trying both those steps, contact our technical support department.

Q&A

Q6: Can the 10-digit AP be compatible with the previous 8-digit ones?

A6: Sure. Log in the WEP page, select "system" menu, click "mode", check the box of "8-digit DIP Switch mode", then "Save Changes". Turn off the AP power. And then set up the AP according to the operation of 8-DIP device (only focusing on 1-8 buttons)

Q7: I have a 8-DIP switches. Are these new units with 10-DIP switches compatible?

A7: Yes. Log into the WEP page as instructed above, select "system" menu, click "mode", check the box of "8-digit DIP Switch mode", then "Save Changes". Turn off the AP power. And then set up the AP according to the operation of 8-DIP device (only focusing on 1-8 buttons)

Q8: After connecting the AP to the NVR, I can see the IP address of the camera, but I don't see any video.

A8: Try switching the LAN port on the AP to the other port. If you still do not have an image, contact our technical support department.

Q9: What do the signal lights represent?

A9: Red: PWR: The power light. It will work when power is on.

Blue: WLAN: WIFI signal light. It will blink when working.

LAN1, LAN2: The LAN1/LAN2 light. It will be on when working.

Orange: Wireless signal strength

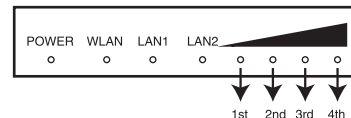
1st light on: the signal is very weak.

1st , 2nd lights on: signal is weak.

1st, 2nd, 3rd lights on: the signal is adequate

All 4 lights on: Optimal signal.

If ONLY the 4th light on: the signal is too strong. Try adjusting the signal strength setting detailed above.



Q&A



Q10:How do I reset the device?

A10:Long press the RST button for 6 seconds while the AP is powered on.

















Q11:How to fine the binding code in the devices?

















A11:Login the device interface, please select System–Remote Management Settings, tick and fill in the binding code and save the changes to complete the operation. For more details, please see the cloud operation manual.

















Wireless Network
















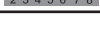
Status	Network
System	Option: DIP Mode IP ▼
> Remote Management Transmit Power Router Access Backup / Restore Update Firmware Reboot	Cloud Binding Code: <input type="checkbox"/> <input type="text"/> <input type="checkbox"/> Show/Hide Access the cloud management platorm!
Logout	<div>Save </div> <div>Reset </div>
















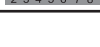
128 pair DIP codes, segment and frequency can be referred to the following chart:
















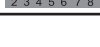
Group	2-8 Dial	IP segment	5.8GHz	IP segment	2.4GHz
No.1		172.18.0.X	5160	172.17.0.X	2412
No.2		172.18.1.X	5180	172.17.1.X	2417
No.3		172.18.2.X	5200	172.17.2.X	2422
No.4		172.18.3.X	5220	172.17.3.X	2427
No.5		172.18.4.X	5240	172.17.4.X	2432
No.6		172.18.5.X	5745	172.17.5.X	2437
No.7		172.18.6.X	5765	172.17.6.X	2442
No.8		172.18.7.X	5785	172.17.7.X	2447
No.9		172.18.8.X	5805	172.17.8.X	2452
No.10		172.18.9.X	5825	172.17.9.X	2457
No.11		172.18.10.X	5160	172.17.10.X	2462
No.12		172.18.11.X	5180	172.17.11.X	2412
No.13		172.18.12.X	5200	172.17.12.X	2417
No.14		172.18.13.X	5220	172.17.13.X	2422
No.15		172.18.14.X	5240	172.17.14.X	2427
No.16		172.18.15.X	5745	172.17.15.X	2432
















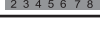
Group	2-8 Dial	IP segment	5.8GHz	IP segment	2.4GHz
No.17		172.18.16.X	5765	172.17.16.X	2437
No.18		172.18.17.X	5785	172.17.17.X	2442
No.19		172.18.18.X	5805	172.17.18.X	2447
No.20		172.18.19.X	5825	172.17.19.X	2452
No.21		172.18.20.X	5160	172.17.20.X	2457
No.22		172.18.21.X	5180	172.17.21.X	2462
No.23		172.18.22.X	5200	172.17.22.X	2412
No.24		172.18.23.X	5220	172.17.23.X	2417
No.25		172.18.24.X	5240	172.17.24.X	2422
No.26		172.18.25.X	5745	172.17.25.X	2427
No.27		172.18.26.X	5765	172.17.26.X	2432
No.28		172.18.27.X	5785	172.17.27.X	2437
No.29		172.18.28.X	5805	172.17.28.X	2442
No.30		172.18.29.X	5825	172.17.29.X	2447
No.31		172.18.30.X	5160	172.17.30.X	2452
No.32		172.18.31.X	5180	172.17.31.X	2457

















Group	2-8 Dial	IP segment	5.8GHz	IP segment	2.4GHz
No.33		172.18.32.X	5200	172.17.32.X	2462
No.34		172.18.33.X	5220	172.17.33.X	2412
No.35		172.18.34.X	5240	172.17.34.X	2417
No.36		172.18.35.X	5745	172.17.35.X	2422
No.37		172.18.36.X	5765	172.17.36.X	2427
No.38		172.18.37.X	5785	172.2.37.X	2432
No.39		172.18.38.X	5805	172.17.38.X	2437
No.40		172.18.39.X	5825	172.17.39.X	2442
No.41		172.18.40.X	5160	172.17.40.X	2447
No.42		172.18.41.X	5180	172.17.41.X	2452
No.43		172.18.42.X	5200	172.17.42.X	2457
No.44		172.18.43.X	5220	172.17.43.X	2462
No.45		172.18.44.X	5240	172.17.44.X	2412
No.46		172.18.45.X	5745	172.17.45.X	2417
No.47		172.18.46.X	5765	172.17.46.X	2422
No.48		172.18.47.X	5785	172.17.47.X	2427

Group	2-8 Dial	IP segment	5.8GHz	IP segment	2.4GHz
No.49		172.18.48.X	5805	172.17.48.X	2432
No.50		172.18.49.X	5825	172.17.49.X	2437
No.51		172.18.50.X	5160	172.17.50.X	2442
No.52		172.18.51.X	5180	172.17.51.X	2447
No.53		172.18.52.X	5200	172.17.52.X	2452
No.54		172.18.53.X	5220	172.17.53.X	2457
No.55		172.18.54.X	5240	172.17.54.X	2462
No.56		172.18.55.X	5745	172.17.55.X	2412
No.57		172.18.56.X	5765	172.17.56.X	2417
No.58		172.18.57.X	5785	172.17.57.X	2422
No.59		172.18.58.X	5805	172.17.58.X	2427
No.60		172.18.59.X	5825	172.17.59.X	2432
No.61		172.18.60.X	5160	172.17.60.X	2437
No.62		172.18.61.X	5180	172.17.61.X	2442
No.63		172.18.62.X	5200	172.17.62.X	2447
No.64		172.18.63.X	5220	172.17.63.X	2452

Group	2-8 Dial	IP segment	5.8GHz	IP segment	2.4GHz
No.65		172.18.64.X	5240	172.17.64.X	2457
No.66		172.18.65.X	5745	172.17.65.X	2462
No.67		172.18.66.X	5765	172.17.66.X	2412
No.68		172.18.67.X	5785	172.17.67.X	2417
No.69		172.18.68.X	5805	172.17.68.X	2422
No.70		172.18.69.X	5825	172.17.69.X	2427
No.71		172.18.70.X	5160	172.17.70.X	2432
No.72		172.18.71.X	5180	172.17.71.X	2437
No.73		172.18.72.X	5200	172.17.72.X	2442
No.74		172.18.73.X	5220	172.17.73.X	2447
No.75		172.18.74.X	5240	172.17.74.X	2452
No.76		172.18.75.X	5745	172.17.75.X	2457
No.77		172.18.76.X	5765	172.17.76.X	2462
No.78		172.18.77.X	5785	172.17.77.X	2412
No.79		172.18.78.X	5805	172.17.78.X	2417
No.80		172.18.79.X	5825	172.17.79.X	2422

Group	2-8 Dial	IP segment	5.8GHz	IP segment	2.4GHz
No.81		172.18.80.X	5160	172.17.80.X	2427
No.82		172.18.81.X	5180	172.17.81.X	2432
No.83		172.18.82.X	5200	172.17.82.X	2437
No.84		172.18.83.X	5220	172.17.83.X	2442
No.85		172.18.84.X	5240	172.17.84.X	2447
No.86		172.18.85.X	5745	172.17.85.X	2452
No.87		172.18.86.X	5765	172.17.86.X	2457
No.88		172.18.87.X	5785	172.17.87.X	2462
No.89		172.18.88.X	5805	172.17.88.X	2412
No.90		172.18.89.X	5825	172.17.89.X	2417
No.91		172.18.90.X	5160	172.17.90.X	2422
No.92		172.18.91.X	5180	172.17.91.X	2427
No.93		172.18.92.X	5200	172.17.92.X	2432
No.94		172.18.93.X	5220	172.17.93.X	2437
No.95		172.18.94.X	5240	172.17.94.X	2442
No.96		172.18.95.X	5745	172.17.95.X	2447

Group	2-8 Dial	IP segment	5.8GHz	IP segment	2.4GHz
No.97		172.18.96.X	5765	172.17.96.X	2452
No.98		172.18.97.X	5785	172.17.97.X	2457
No.99		172.18.98.X	5805	172.17.98.X	2462
No.100		172.18.99.X	5825	172.17.99.X	2412
No.101		172.18.100.X	5160	172.17.100.X	2417
No.102		172.18.101.X	5180	172.17.101.X	2422
No.103		172.18.102.X	5200	172.17.102.X	2427
No.104		172.18.103.X	5220	172.17.103.X	2432
No.105		172.18.104.X	5240	172.17.104.X	2437
No.106		172.18.105.X	5745	172.17.105.X	2442
No.107		172.18.106.X	5765	172.17.106.X	2447
No.108		172.18.107.X	5785	172.17.107.X	2452
No.109		172.18.108.X	5805	172.17.108.X	2457
No.110		172.18.109.X	5825	172.17.109.X	2462
No.111		172.18.110.X	5160	172.17.110.X	2412
No.112		172.18.111.X	5180	172.17.111.X	2417

Group	2-8 Dial	IP segment	5.8GHz	IP segment	2.4GHz
No.113		172.18.112.X	5200	172.17.112.X	2422
No.114		172.18.113.X	5220	172.17.113.X	2427
No.115		172.18.114.X	5240	172.17.114.X	2432
No.116		172.18.115.X	5745	172.17.115.X	2437
No.117		172.18.116.X	5765	172.17.116.X	2442
No.118		172.18.117.X	5785	172.17.117.X	2447
No.119		172.18.118.X	5805	172.17.118.X	2452
No.120		172.18.119.X	5825	172.17.119.X	2457
No.121		172.18.120.X	5160	172.17.120.X	2462
No.122		172.18.121.X	5180	172.17.121.X	2412
No.123		172.18.122.X	5200	172.17.122.X	2417
No.124		172.18.123.X	5220	172.17.123.X	2422
No.125		172.18.124.X	5240	172.17.124.X	2427
No.126		172.18.125.X	5745	172.17.125.X	2432
No.127		172.18.126.X	5765	172.17.126.X	2437
No.128		172.18.127.X	5785	172.17.127.X	2442

FCC Warning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.