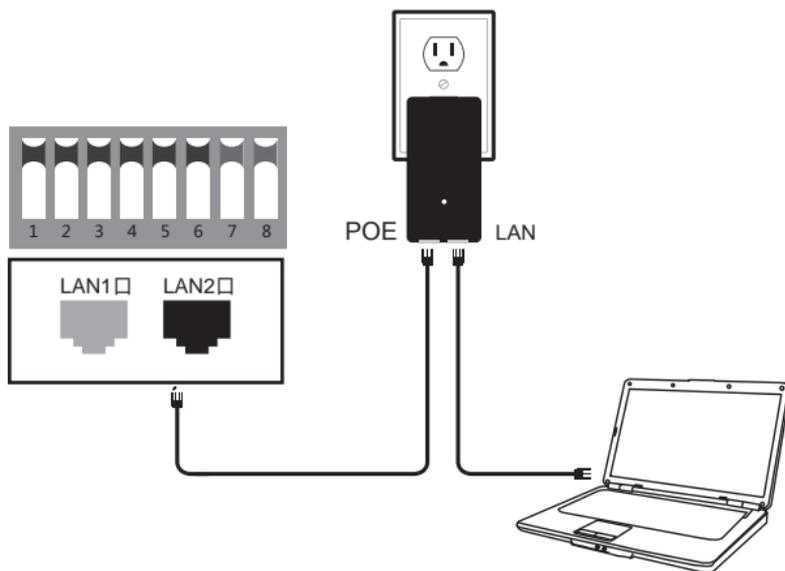# DIP Manual

Connecting diagram of POE with CPE
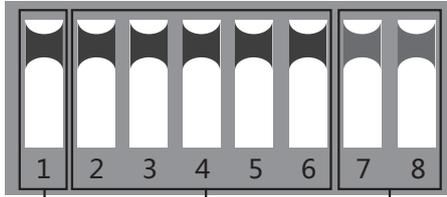

POE port ·······► connect with any port of CPE

POE LAN port ·······► connect with PC(Switch or DVR)

NOTE:1.Both ports of CPE are LAN

2.If you want to enter web page,you need manually bound
IP address of PC

DIP device instructions

Working mode key   Matching key   IP key

Key"1" is mode key:button up is AP mode(sender),button down is CPE mode(receiver).

Key"23456" are matching keys:32 various combination be made of 5 keys,correspond 32 different SSID,and decide 32 different segment.

If button up denotes as 1,button down denotes as 0,dial-up "down up up down down" can be denoted as "01100"(as the picture shows key "23456" can be recored as "11111")

As DIP to assign different wireless channels,there are 32 cases(as the form shows),all channels use 40M mode

Key"78" are IP keys,means the last figure of CPE IP,applicable to point-to-multipoint mode(1 point to 4 points)

Remarks
1.Restart CPE after finishing DIP settings.
2.SSID of DIP type CPE defaults not broadcast,passwords have been set up,no need set again.
3.There are 32 segments and 160 IPs for DIP type CPE,please avoid these when you use cameras.

When no need management

As point-to-point for example:

Just make sure two points match,and work good.

Case 1：Matching keys are "up up up up up",can be recored as "11111"
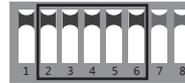
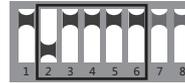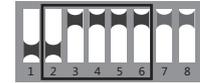AP transmitter   CPE receiver

Case 2：Matching keys are "down up up up up",can be recored as "01111"

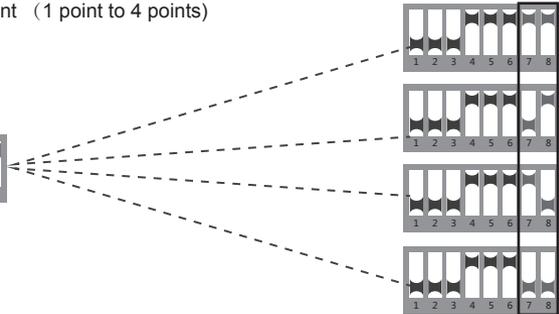AP transmitter   CPE receiver

As point-to-multipoint （1 point to 4 points）
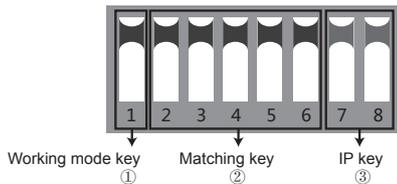for example:

transmitter

receiver

NOTE：1.Ignore key 7,8
      2.Make sure matching keys of 5 devices are the same,then they can work well.

When need management,specific operations as below

▶ Step 1 CPE settings

Working mode key   Matching key   IP key
     ①   ②   ③

1 Working mode key:the first key used for mode selection.
Key up is "AP mode",key down is "CPE mode"

2Matching key：5 keys can be set up to 32 different IP

The IP address of the AP

192.168. 101 .1
192.168. 102 .1
192.168. 103 .1
⋮
192.168. 132 .1

Last figure of IP should be 1 in AP mode

The IP address of the CPE

192.168. 101 .2/3/4/5
192.168. 102 .2/3/4/5
192.168. 103 .2/3/4/5
⋮
192.168. 132 .2/3/4/5
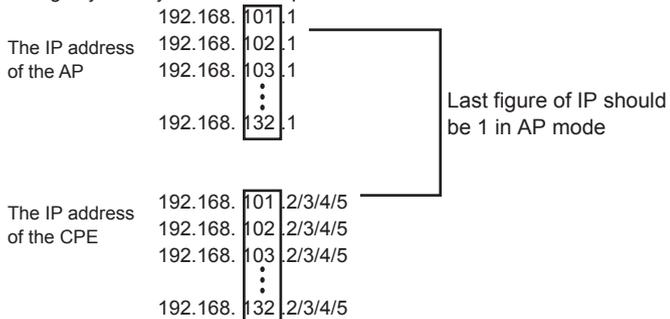
3IP key:last 2 keys can be set up to 4 different IP addresses.For example

Point-to-multipoint，as the 32nd pair CPEs for a example:

IP keys DIP code：00

CPE　　　　　　192.168.132.2

IP keys DIP code：01

CPE　　　　　　192.168.132.3

IP keys DIP code：10

CPE　　　　　　192.168.132.4

IP keys DIP code：11

CPE　　　　　　192.168.132.5

AP　　　　　192.168.132.1
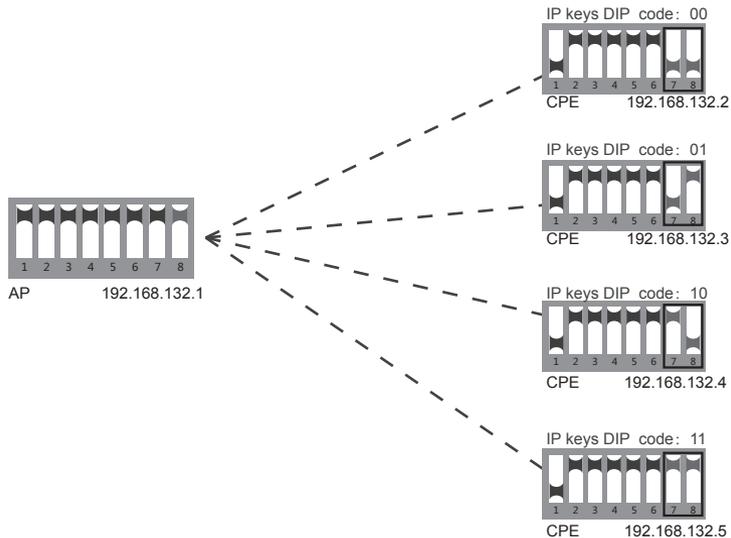
NOTE:In the same local Area Network with one sender multi receivers,every
        device must be set up to different IP.

▶ Step 2 PC settings

Manually setting static IP address,as picture 1 shows(type the ip of corresponding device in IE)

Internet Protocol（TCP/IP)Properties

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: 192.168.133.1
Subnet mask: 255.255.0.0
Default gateway: .   .   .

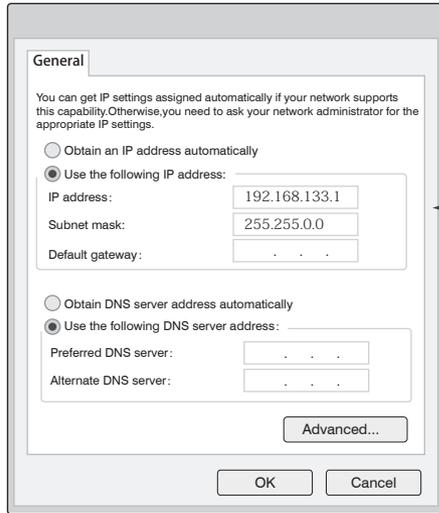○ Obtain DNS server address automatically
● Use the following DNS server address:

Preferred DNS server: .   .   .
Alternate DNS server: .   .   .

[Advanced...]

[OK]   [Cancel]

（picture 1）

NOTE：Subnet Mask must be
"255.255.0.0" for IP
"192.168.133.1"
NOTE：Entering IP only can
check device Status,
can not setup.

32 pair DIP codes,segment and frequency refer to the following chart:

Group	2- 6 Dial	Correspond IP segment	2.4GHZ	5.8GHz
1st	2 3 4 5 6	192.168.101.X	2.372G	4.96G
2nd	2 3 4 5 6	192.168.102.X	2.377G	4.98G
3rd	2 3 4 5 6	192.168.103.X	2.382G	5.0G
4th	2 3 4 5 6	192.168.104.X	2.387G	5.02G
5th	2 3 4 5 6	192.168.105.X	2.392G	5.04G
6th	2 3 4 5 6	192.168.106.X	2.397G	5.06G
7th	2 3 4 5 6	192.168.107.X	2.402G	5.08G
8th	2 3 4 5 6	192.168.108.X	2.412G	5.10G
9th	2 3 4 5 6	192.168.109.X	2.417G	5.12G
10th	2 3 4 5 6	192.168.110.X	2.422G	5.14G
11th	2 3 4 5 6	192.168. 111.X	2.427G	5.16G
12th	2 3 4 5 6	192.168.112.X	2.432G	5.18G
13th	2 3 4 5 6	192.168. 113.X	2.437G	5.2G
14th	2 3 4 5 6	192.168.114.X	2.442G	5.22G
15th	2 3 4 5 6	192.168.115.X	2.447G	5.24G
16th	2 3 4 5 6	192.168.116.X	2.452G	5.745G

Group	2-6 Dial	Correspond IP segment	2.4GHz	5.8GHz
17th	(dial 2 3 4 5 6)	192.168.117.X	2.457G	5.765G
18th	(dial 2 3 4 5 6)	192.168.118.X	2.462G	5.785G
19th	(dial 2 3 4 5 6)	192.168.119.X	2.467G	5.805G
20th	(dial 2 3 4 5 6)	192.168.120.X	2.472G	5.825G
21st	(dial 2 3 4 5 6)	192.168.121.X	2.492G	5.845G
22nd	(dial 2 3 4 5 6)	192.168.122.X	2.512G	5.865G
23rd	(dial 2 3 4 5 6)	192.168.123.X	2.532G	5.885G
24th	(dial 2 3 4 5 6)	192.168.124.X	2.367G	5.905G
25th	(dial 2 3 4 5 6)	192.168.125.X	2.362G	5.925G
26th	(dial 2 3 4 5 6)	192.168.126.X	2.357G	5.945G
27th	(dial 2 3 4 5 6)	192.168.127.X	2.352G	5.965G
28th	(dial 2 3 4 5 6)	192.168.128.X	2.382G	5.985G
29th	(dial 2 3 4 5 6)	192.168.129.X	2.392G	6.005G
30th	(dial 2 3 4 5 6)	192.168.130.X	2.397G	6.025G
31st	(dial 2 3 4 5 6)	192.168.131.X	2.512G	6.045G
32nd	(dial 2 3 4 5 6)	192.168.132.X	2.532G	6.065G

Note:The mark is standar frequency, the other is Spread Spectrum Frequency.

Q&A

Q1. What should be noted when DIP?
    Must be powered off before DIP

Q2.How dose CPE get the power without power supply?
We use POE power,CPE get the power via cable.User need use 2 cables to connect and setting(better use Super five types copper cable with shielding net)POE manual can refer to cover connecting picture,but please remember connect with LAN port(black port),not the yellow one

Q3. How long the POE cable can be?
The length of cable depends on power voltage and cable quality.If you use 12v power, cable can be 10-20m. If you use 24v power,cable can be over 20m.Cable must be Super five types copper cable with shielding net(Better quality can be 50m)

Q4. How to reset CPE?
Get device power on,long press RESET button(about 7 seconds),device reboot.

Q5. Why local Area Connection is on and off after installed device?
Detection method as below:
①Try to change 1m cable,make sure it is not quality of cable problem.
②Try to change channels,avoid signal quality problem cause disturbance.

Q6.Light of signal

Red:PWR:power light showing the normal working status.

Blue:WLAN:wifi singal light the strobe light show the normal working status.

WAN,LAN:LAN light showing the normal working stats.

Orange:1-4 Signal.Strengh Indicator

Light 1,The signal is too weak.

Light 1.2, The signal is weak.

Light 1.2.3,The signal is general.

Light 4,The signal is too strong.

Light1.2.3.4,The best signal.

Q7.How to login the firmware with DIP product?

1.IP address:192.168.133.1, subnet mark :255 255.0.0

2.DIP devices refer to the IP address of the conrresponding manual.

Example

CPE

CPE

PTP3km

PTP3km

PTP3km

CPE

AP

AP

AP

NVR

Control room