Todaair

DIP MANUAL V3.0 (128)

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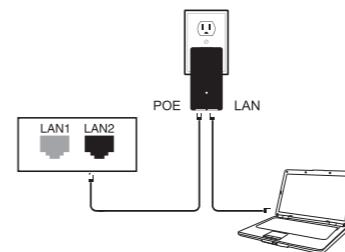WEB: www.todaair.com

Scan APP QR Code

Supporting Product Information

Detailed instruction on APP usage and WEB Settings, dialing lists
with 128 pair DIP codes, IP segment and frequency.
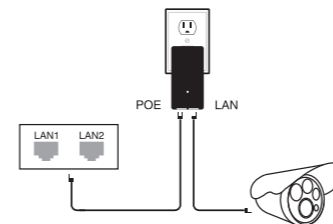Please scan the QR code below to get it.

Connecting Diagram

Connection diagram of POE with CPE
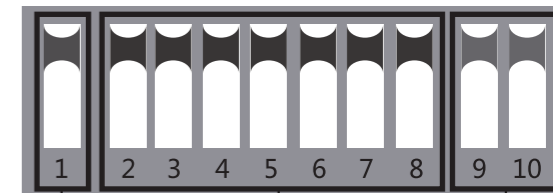
POE   LAN

LAN1   LAN2

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.

POE   LAN

LAN1   LAN2

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.
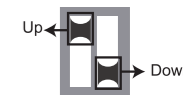
DIP Device Instructions

1 2 3 4 5 6 7 8 9 10
Working Mode Key   Matching Key   IP Key

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.
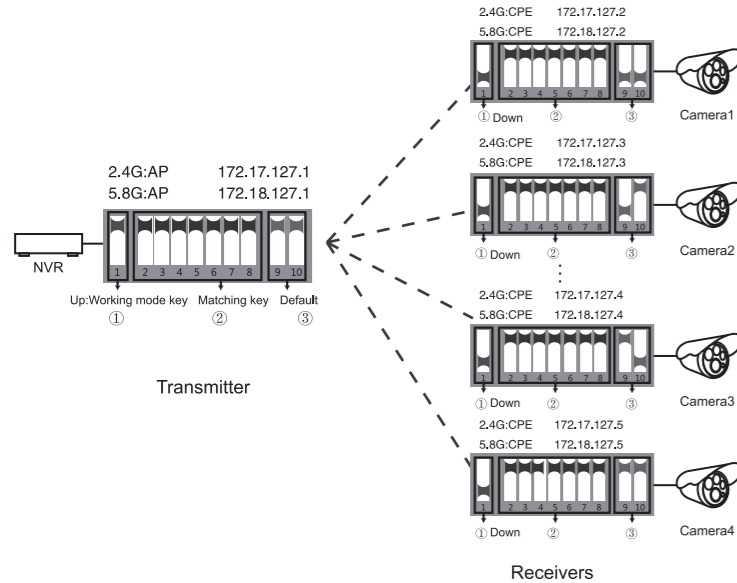
Buttons 9 & 10 are for point to multi-point functionality. To use up to 4 cameras with one recorder, configure the DIP switches as follows:
1.On the recorder/PC/Switch side, switches 9 and 10 should remain up.
2.On the camera side, select one of 4 configurations for switches 9 and 10:
a.Camera 1: 9 Down 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.

Up
Down

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.

Point to multipoint, as follows:

2.4G:CPE 172.17.127.2
5.8G:CPE 172.18.127.2
① Down ② ③ Camera1

2.4G:CPE 172.17.127.3
5.8G:CPE 172.18.127.3
① Down ② ③ Camera2

2.4G:CPE 172.17.127.4
5.8G:CPE 172.18.127.4
① Down ② ③ Camera3

2.4G:CPE 172.17.127.5
5.8G:CPE 172.18.127.5
① Down ② ③ Camera4

2.4G:AP 172.17.127.1
5.8G:AP 172.18.127.1

NVR
Up:Working mode key Matching key Default
① ② ③

Transmitter

Receivers

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.

— 4 —

Q&A

Q1: What should be noted when setting the AP DIP Switches?
A1: Make sure the power is off.

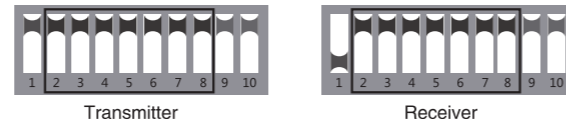Q2: How dose the AP work without a dedicated power supply?
A2: The AP gets it's power via the Cat5 cable. It is called PoE. Two cables are needed for the connection. STP CAT5e cable is strongly recommended.

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.

— 5 —

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.
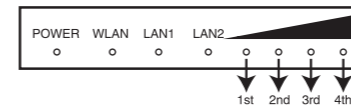   Orange: Wireless signal strength
     1st light on: the signal is very weak
     1st , 2nd lights on: signal is weak
     1st, 2nd, 3rd lights on: the signal is adequate
     All 4 lights on: Optimal signal
     If ONLY the 4th light on: the signal is too strong. Try adjusting the signal strength setting detailed above.

POWER WLAN LAN1 LAN2
1st 2nd 3rd 4th

Q10:How do I reset the device?
A10:Long press the RST button for 6 seconds while the AP is powered on.

— 6 —

FCC Warning:

This device 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 device 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 device does cause harmful interference to radio or television reception, which can be determined by turning the device 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 device and receiver.

● Connect the device 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 device.

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.
(2)This device must accept any interference received, including interference that may cause undesired operation.

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

— 7 —