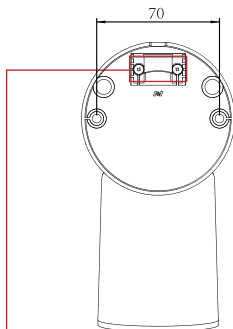
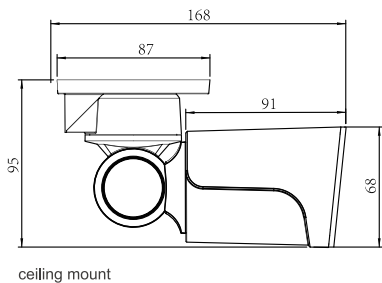
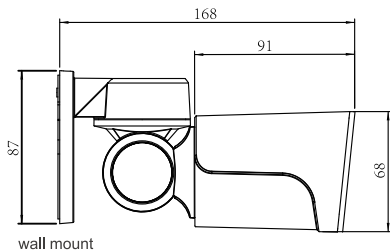




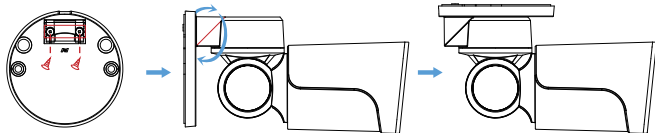
*For the Best*



INSTRUCTION MANUAL  
**50MM-CB003**



To switch the mount style, remove the two screws on the pan bottom and rotate 180 degree to remount.



This Mini PTZ cylinder camera can support both wall mount and ceiling mount.  
 Pan: 0° ~ 180° Tilt: 0° ~ 55°, with Guard Position function.

# 1

## Connecting the camera to system

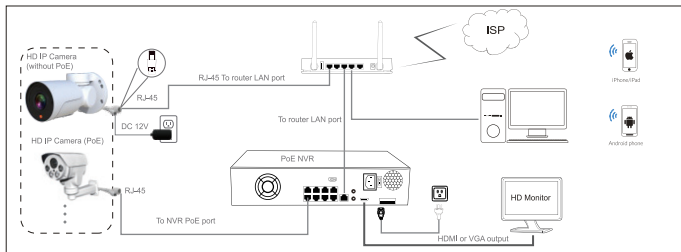


Figure 1: Working With POE NVR

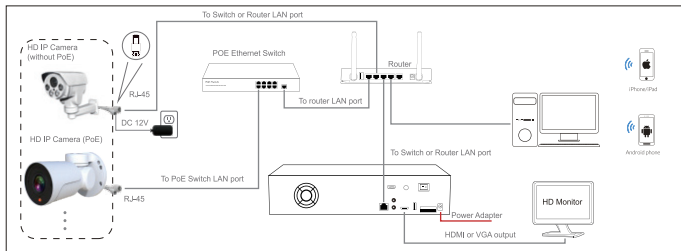


Figure 2: Working With POE Switch

### Note:

1. The camera should be connected to an OPTIONAL 12 volt power supply if you do not use PoE (Power over Ethernet).
2. There are two kinds of zoom lens 2.8-12mm and 5-50mm optional. Please choose 5-50mm zoom lens for long distance video surveillance .

# 2

## Modifying the camera's IP address

**Default: DHCP IP address: 192.168.0.123 , Username: admin, Password: 123456**

*( We strongly recommend modifying the default password for your security).*

Each IP camera has the same default IP address after leaving the factory. In order to guarantee network connectivity and access the live video, it is essential to change the camera's IP address to unique via computer before using.

Before modifying the IP address you'd better confirm the IP network planning and avoid IP address conflict.

Steps on Local Area Windows 10 PC : **Search Windows -> cmd -> ipconfig /all**

```
C:\Users\Administrator>ipconfig /all

Windows IP Configuration

Host Name . . . . . : Tony-testWin10
Primary Dns Suffix . . . . . :
Node Type . . . . . : Hybrid
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No

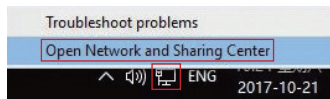
Ethernet adapter Local Area Connection:

Connection-specific DNS Suffix . . :
Description . . . . . : Realtek PCIe GBE Family Controller
Physical Address. . . . . : 49-61-86-0C-5F-95
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
Link-local IPv6 Address . . . . . : fe80::b525:234:59d4:98f3%10(Preferred)
IPv4 Address. . . . . : 192.168.1.158(Preferred)
Subnet Mask . . . . . : 255.255.255.0
Lease Obtained. . . . . : Saturday, October 21, 2017 10:15:08 AM
Lease Expires . . . . . : Saturday, October 21, 2017 12:15:08 PM
Default Gateway . . . . . : 192.168.1.1
DHCP Server . . . . . : 192.168.1.1
DHCPv6 IAID . . . . . : 138436998
DHCPv6 Client GUID . . . . . : 00-01-00-01-20-DE-A3-49-40-61-86-0C-5F-95
DNS Servers . . . . . : 192.168.1.1
                        192.168.1.1
NetBIOS over Tcpip. . . . . : Enabled
```

**Now you can get all the local network information.**

IPv4 Address: 192.168.1.?  
Subnet Mask: 255.255.255.0  
Default gateway: 192.168.1.1  
DNS Servers: 192.168.1.1

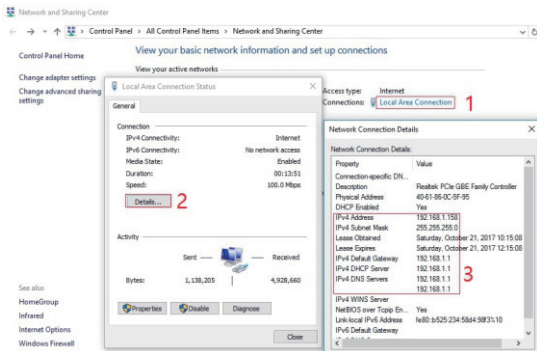
Note : you can also find out the LAN configuration via Windows GUI



# 2

## Modifying the camera's IP address

Right-click on the Network icon and select **open Network and Sharing Center**.



If the camera is installed to work with the local switch or router directly, the camera IP range should be 192.168.1.x (x=2-254). To void IP conflict, you should test and select an unoccupied IP like this:

Command Prompt ping test

```
Command Prompt
C:\Users\Administrator>ping 192.168.1.123
Pinging 192.168.1.123 with 32 bytes of data:
Reply from 192.168.1.158: Destination host unreachable.
Reply from 192.168.1.1: Destination host unreachable.
Reply from 192.168.1.1: Destination host unreachable.
Reply from 192.168.1.1: Destination host unreachable.
Ping statistics for 192.168.1.123:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
C:\Users\Administrator>ping 192.168.1.41
Pinging 192.168.1.41 with 32 bytes of data:
Reply from 192.168.1.41: bytes=32 time=1ms TTL=64
Reply from 192.168.1.41: bytes=32 time<1ms TTL=64
Reply from 192.168.1.41: bytes=32 time<1ms TTL=64
Reply from 192.168.1.41: bytes=32 time=1ms TTL=64
Ping statistics for 192.168.1.41:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\Users\Administrator>
```

Only when reply unreachable that means the IP address is no conflict and available, otherwise when you see time reply do not use this IP address.

There are three methods to modify the camera IP configuration, Search tool, PC Client software and Internet Explorer.

## 3

## Using Device Search Tool



IP camera search tools V5.0.4\_20200107

Start Search Export to Excel admin 123456  QR Automatic printing Total: 2 Selected: 2

IP Address	HTTP ...	Model	Title Name	Preview	Firmware Version	Status	All sub...
<input checked="" type="checkbox"/> 192.168.16.160	80	IM0008	Camera		IM0008_AF_VO_BH_Y_BH-RTMP-HE_L V3.0.2.3 b...	Login success	close
<input checked="" type="checkbox"/> 192.168.16.161	80	IM0000	Camera		IM0000_AF_VO_BH_Y_BH-HE_L V3.0.2.1 build 2...	14:09:53 Alarm:action detect disappear	close

IP address setting

DHCP

Start IP: 192.168.1.60

End IP: 192.168.1.61

Netmask: 255.255.255.0

Gateway: 192.168.1.1

DNS1: 192.168.1.1

DNS2: 8.8.8.8

IP address Checked OK.

OK Cancel

Batch Reset Batch Reboot IP Batch Setting 5002/6002 Batch Set Language Batch Sync Time Batch Set Password

Upgrade Firmware C:\Users\Administrator\Desktop\Firmware\IM0008\_VO\_AF-RTMP-HE\_L V3.0.2.3 b... Browse ...

Click **Start Search** and all your cameras in the LAN will be listed. Modify IP address to suit the LAN's IP scheme.

- 1) Click the **ALL** check-box then click "IP Batch Manual Setting".
- 2) Click **Check** to verify IP address configuration and click **OK** to save. it's user-friendly that the search tool can read the computer Network IP address and calculate the camera quantity to match the range of Start IP and End IP.

### Tips:

Reset Password -> **Restore default settings**;

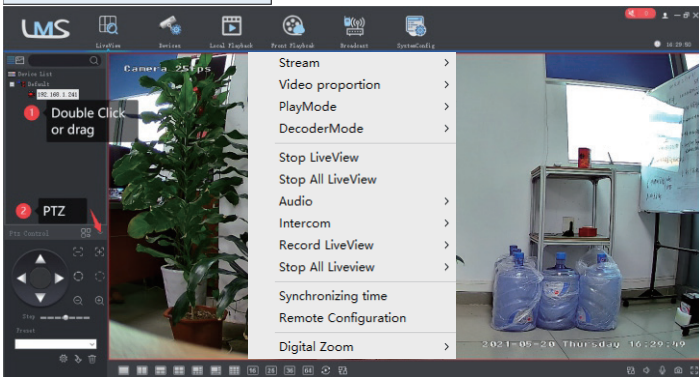
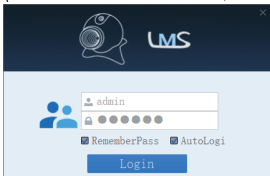
Video Preview -> Click **Preview** buttons;

Firmware upgrade -> Select the check-box, click **Browse** then click **Upgrade Firmware**.

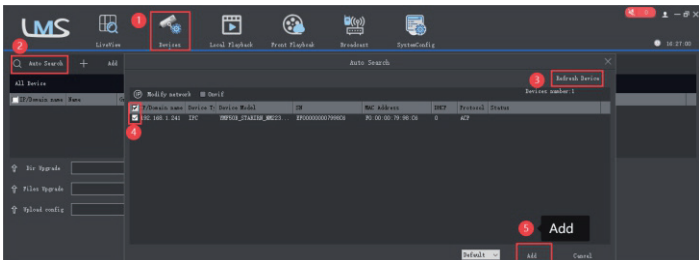
# 4

## Using the LMS client software for Windows PC

(Default user name: admin, Password: 123456)



Go to the Devices Config and click Start search, all the camera in the LAN will be listed.

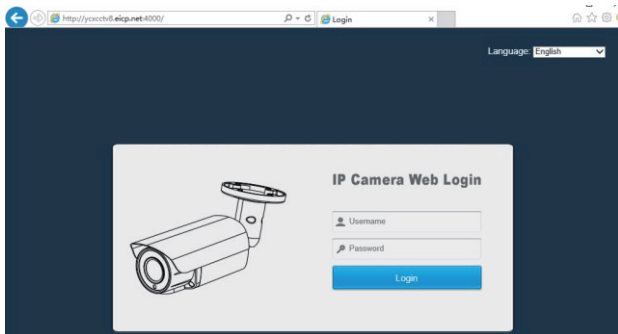


# 5

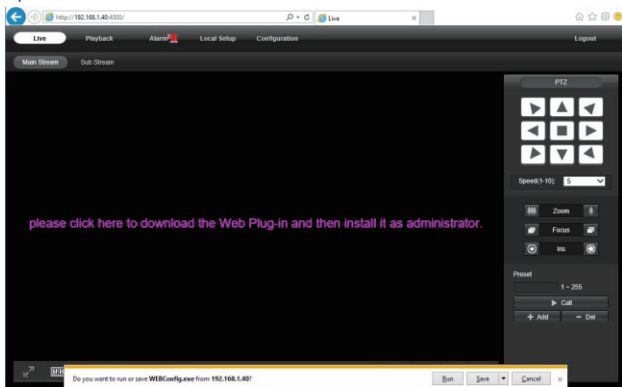
## Working with Internet Explorer

To access the camera's web interface, type in the IP camera's IP address in Internet Explorer's URL bar to gain access to the login page. Please modify IP address to the same subnet if login page can not load.

(Default user name: **admin**, Password: 123456) Firefox ESR and IE are supported.



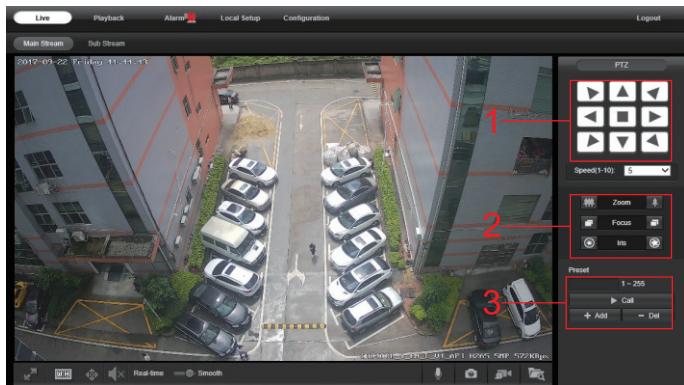
From the login page, select your familiar language, then log in with the username and password.





Install **Web Plug-in** when red line characters prompted. You may have to download **WEBConfig.exe** and run it as administrator.

After installation, restart or refresh your web browser and access the IP again. The live video will start automatically after login successfully.



- 1. Rotation direction control** – Left/Right horizontal rotation angle is up to 180°. Up/Down vertical rotation angle can reach to 55°. Rotation speed can be adjusted.
- 2. Motorized zoom lens control** – camera can do optical **Zoom In** and **Zoom Out**.
- 3. Preset** – to remember a position, input a number and click **Add**. Then you can directly go back via call the number. Delete a preset: input a number and click **Del** (Type A camera only supports one preset point)
- 4. Guard Position** – 1)remember preset 1: move the camera to an import position then **add** to **preset 1** ; 2)enable Guard Position: **Add** preset 76 ->**Call** preset 1 ; 3)disable Guard Position: **Add** preset 76 ->**Call** preset 2. (TypeA and Type B)
- For more advanced functions , go to Appendix 1 for command list. Keeping pressing on live video and dragging for **Digital Zoom**. If there is a delay in video response when accessing remotely, please switch to Sub Stream instead. To learn the function of each button, just put the mouse on, it will show screen tips.

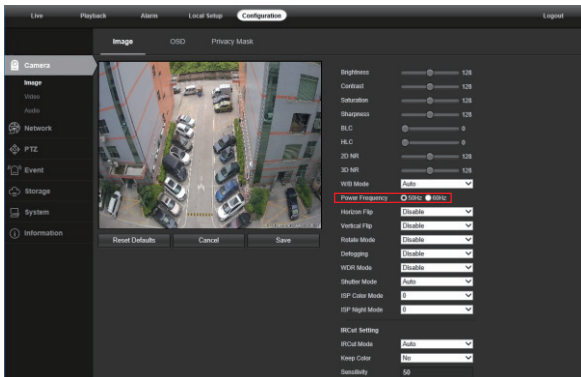
# 6

## General Configurations

### 1) Power System frequency configuration (50Hz/60Hz)

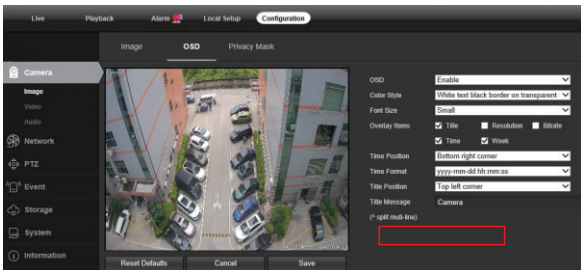
#### ➤ Configuration > Camera > Image > Power Frequency

To avoid the video flicker, the camera should be set to right working frequency to suit the country electric system. The countries that use 60Hz have USA, Canada, Japan, Korea, Taiwan, Brazil, Philippines, Mexico. Other countries apply 50Hz.



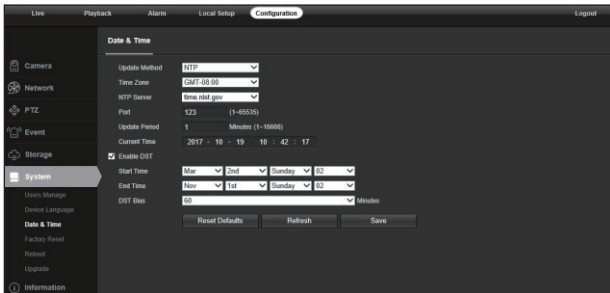
### 2) To modify the camera Title name and Time & Date

#### ➤ Configuration > Camera > Image > OSD > Title Message



### ➤ Configuration > System > Time setup

There are two time update modes available, **Manual** and **NTP**.

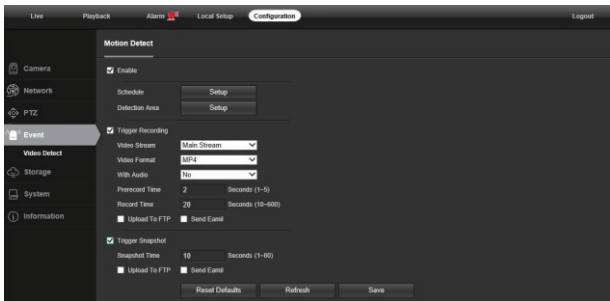


a. Select your Time Zone, and click PC Sync. Set up your DST (Daylight Savings Time) if needed , click Save. (Time and date will reset to 2000-01-01 if camera restarts)

b. If the camera is connected to the Internet, you can set up a NTP server for the camera to sync the time and date automatically.

3) To enable Motion Detection Alarm

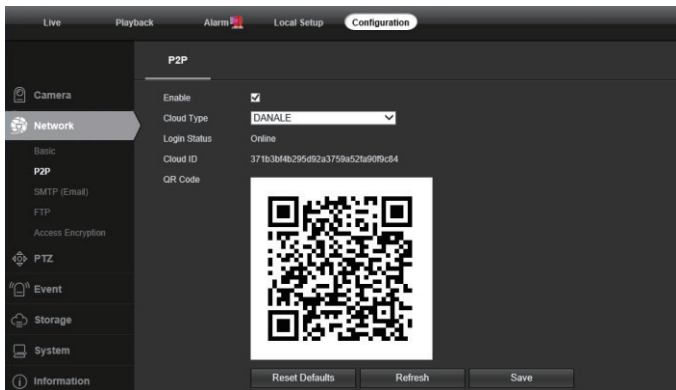
### ➤ Configuration > Event > Video Detection



When Motion is detected, there is a small alarm light pup up beside the Alarm menu. You can also setup an email address or FTP storage server to receive the motion snapshot. (Trigger recording will work only if memory card or NFS NAS connected. )

4) To find the device Cloud ID and QR code for p2p remote access

➤ **Configuration > Network > P2P**



Using the P2P ID and QR code, you can access the camera remotely anywhere via smart phone with Internet access. Please register an account via mobile phone after installing the **Danale** APP from APP Store or Google Play Market, then log in and add your camera to start previewing.

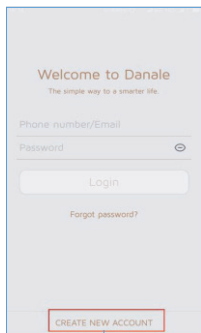
Or you can go to the website <http://www.danale.com/> to register if you need PC remote access. You can download APP from the website to find out more.

Tips: if the Login Status shows Offline, please check your Internet connection and IP camera TCP/IP Network configurations. Please make sure to use a valid DNS server IP in the TCP/IP Network setting.

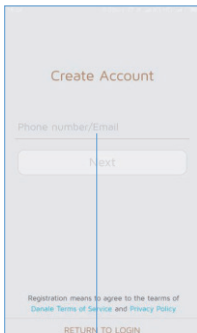
## 7

## Working with mobile device

Visit the Apple App Store or the Google Play Store to download the Danale app for iOS or Android devices. After installation, tap the icon to launch the Danale app. For first time use, please create a new account by following the steps below:

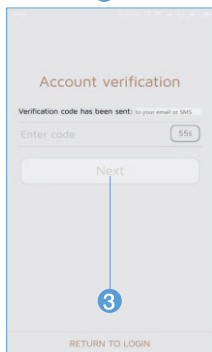


1

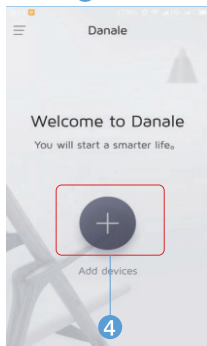


2

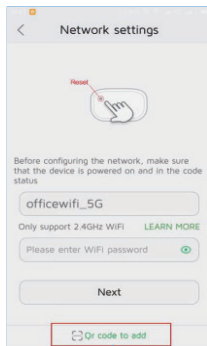
1. For new users, please tap **CREATE NEW ACCOUNT** to register an account.
2. Type in your mobile phone number or email address, then tap **NEXT**.
3. Check your SMS or Email for the verification code, then tap **NEXT**.
4. Tap **+** to **Add devices**
5. Tap **QR Code to add** to get into the scan camera QR code page, or click **NEXT** to discover the connected local LAN IP camera.



3



4

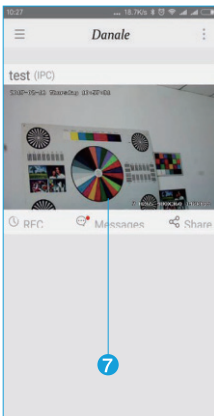
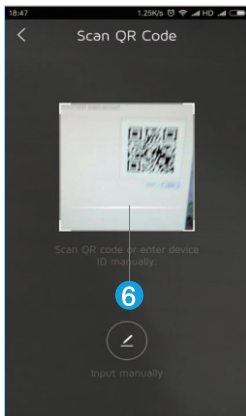


5



# 7

## Working with mobile device

- Put the IP camera QR code in the app effective scan area, and then give a nickname for the recognized camera.
- Tap the camera list to start live video.



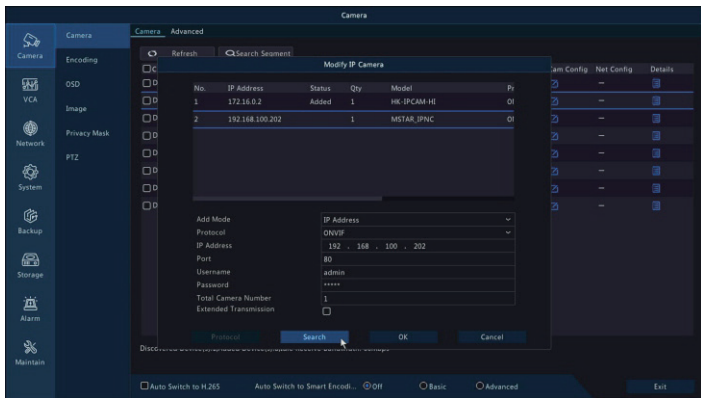
### Tips:

- Tap  to check your account profile and configure settings
- To share your camera with your friends or another user, click “” icon and type in or scan his/her Danale account.

**Note:** if you cannot connect the camera, please check your Internet connection and verify the IP address, gateway, and DNS setting in the camera. The Cloud login status should be **online**, which means the camera has registered to the cloud server. You may also want to connect your phone to WiFi for better performance.

The IP camera supports standard ONVIF protocol and it can be added to third-party video recorder. Some of the models support both H.264 and H.265 encode mode. The H.265 encode cameras can compress the video data to a very low bit rates which allows more video data storage than normal H.264 camera. **Only configure the camera to H.265 mode when your NVR supports H.265 mode**

Before pairing cameras to the NVR, make sure the NVR and cameras have valid and matching IP scheme.



**Note:** Some of the PoE NVR supports **Plug & play**, which allows you to get video without manually search and add. If **Plug & play** feature is not available or not compatible, please follow the NVR manual steps and select **ONVIF** protocol as the pairing protocol. (*camera default password: 123456*)

If the POE NVR can not discover the connected camera or can not display the camera video, please check it's internal POE interface IP configuration and make sure all connected cameras and NVR POE interface are in the same subnet schema. For more help please contact the both NVR and IP camera suppliers for technical assistance.

**1. Why can't I open the default IP address 192.168.0.123 via web browser?**

Check your computer's IP address before accessing the camera. If the IP address does not match the 192.168.0.x scheme, please install the IP search tool from the CD to modify the camera's IP address. Make sure the IP address of the camera matches the LAN IP scheme. For example, if the LAN is 192.168.1.xxx, then set the IP camera to 192.168.1.123 and so on. Only IE and Firefox ESR windows computer are supported by the camera.

**2. How to reset the password?**

The default Username: admin, Password: 123456. If you lost the password or would to reset the camera's setting, please install the search tool to search the camera IP and click Reset factory button.

**3. How to upgrade the IP camera?**

- 1) Ask the supplier for the suitable firmware
- 2) you can use the web browser, search tool, or PC client to upgrade the camera
- 3) go to the Configuration > System > update, click browse and select the firmware, then click Upgrade button and wait for the operation to complete.

**4. How to fetch the RTSP video stream and http snapshot?**

- 1) Main Stream: rtsp://IP:554/h264?username=admin&password=123456
- 2) Sub Stream: rtsp://IP:554/h264cif?username=admin&password=123456
- 3) low resolution snapshot: http://IP/cgi-bin/snapshot.cgi?stream=1
- 4) HD snapshot : http://IP/cgi-bin/snapshot.cgi?stream=0

**5. Why does the NVR not show image after adding your IP camera?**

- 1) Make sure you selected the right protocol and enter the correct username and password when adding the cameras,
- 2) Make sure the NVR and IP camera are the same IP scheme.(eg. NVR:192.168.1.x, and IP camera:192.168.1.y),
- 3) try changing the camera encode mode to H.264 if the NVR can't support H.265.  
(Configuration -> Camera -> Video > Encode mode: H.264)

**6. How to make the NVR record in motion detection mode?**

- 1) Enable the IP camera motion detection function via web browser or Search configure tool,
- 2) add the IP camera via ONVIF protocol,
- 3) change the NVR record mode to Motion Detection mode,
- 4) check the NVR screen MD icon and try playback. Please refer to your NVR manual for NVR motion record option.

**7. Where can I control the motorized auto focus lens zoom?**

- 1) Using the camera's web interface;
- 2) Control by PC client software UC;
- 3) Roll the mouse wheel at the search tool preview window;
- 4) Find the PTZ menu in your NVR to control lens zoom.



### Compatible Products

<b>50MM-CB003</b>	5MP Pan/Tilt/Zoom IP (POE) Full High Definition Bullet Camera with 2.8-12mm Autofocus Lens
<b>50MM-CB005</b>	5MP AI HD Bullet IP PoE Camera IP67 3.6MM Fixed Lens
<b>50MM-CB006</b>	8MP AI Ultra HD Bullet IP PoE Camera IP67 3.6mm Fixed Lens
<b>50MM-CD003</b>	5MP HD Dome IP PoE Camera IP66 3.6mm Fixed lens IK10 Vandal Rated
<b>50MM-CD007</b>	8MP AI HD Speed Dome PTZ IP PoE Camera IP66 4.7-94mm Lens with 20X Optical Zoom
<b>50MM-CD008</b>	5MP AI HD Dome IP PoE Camera IP67 3.6mm Fixed Lens
<b>50MM-CD009</b>	8MP AI Ultra HD Dome IP PoE Camera IP67 3.6mm Fixed Lens
<b>50MM-KB003</b>	PoE Security Kit with 8CH 2TB AI NVR and 4 Bullet Cameras
<b>50MM-KD003</b>	PoE Security Kit with 8CH 2TB AI NVR and 4 Dome Cameras
<b>50MM-KDB01</b>	PoE Security Kit with 8CH 2TB AI NVR, 2 Bullet and 2 Dome Cameras
<b>50MM-NVR08-4K</b>	Professional 8 Channel 4K AI NVR with Integrated 8 Port PoE Switch
<b>50MM-NVR16</b>	Professional 16 Channel 4K AI NVR with Integrated 16 Port PoE Switch
<b>50MM-NVR32</b>	Professional 32 Channel 4K AI NVR with Integrated 16 Port PoE Switch