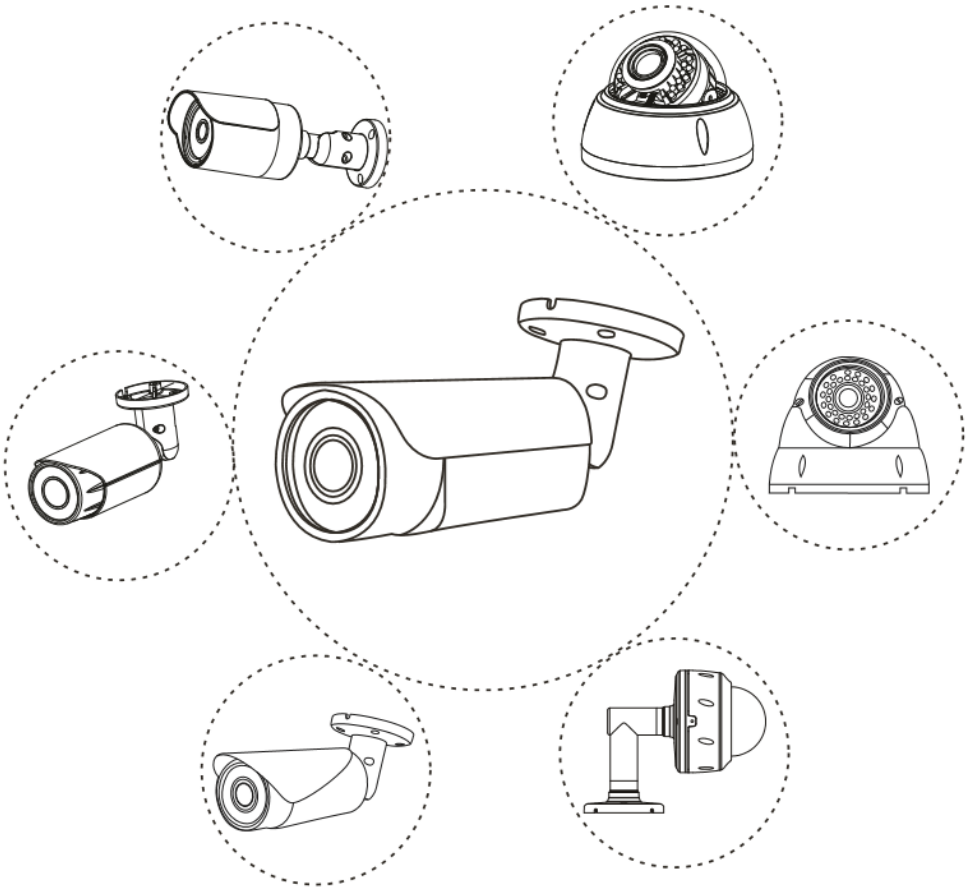
HD IP CAMERA USER GUIDE



U Series v1.1

Note: This manual may contain some incorrect information, even though it was published with our carefully proofreading. The new updates will be added to the next release without notice. Your valuable advice is really appreciated.

Connecting the camera to system *(reference only)*

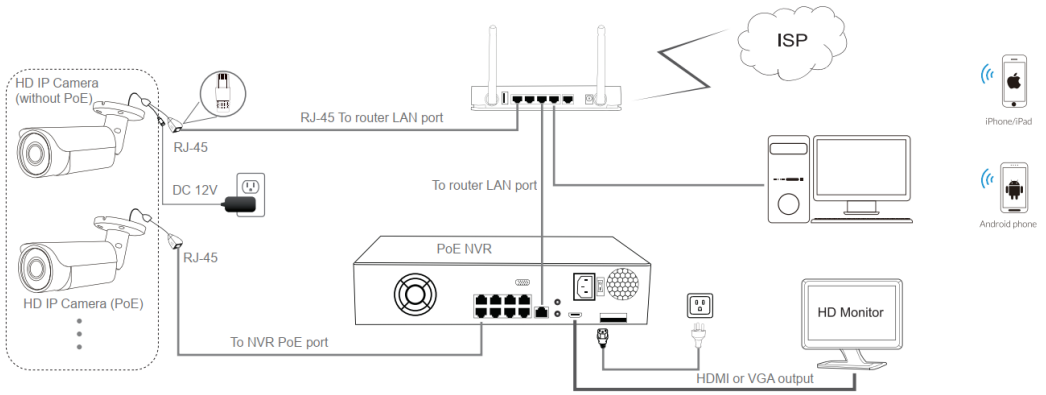


Figure 1: Working With PoE NVR

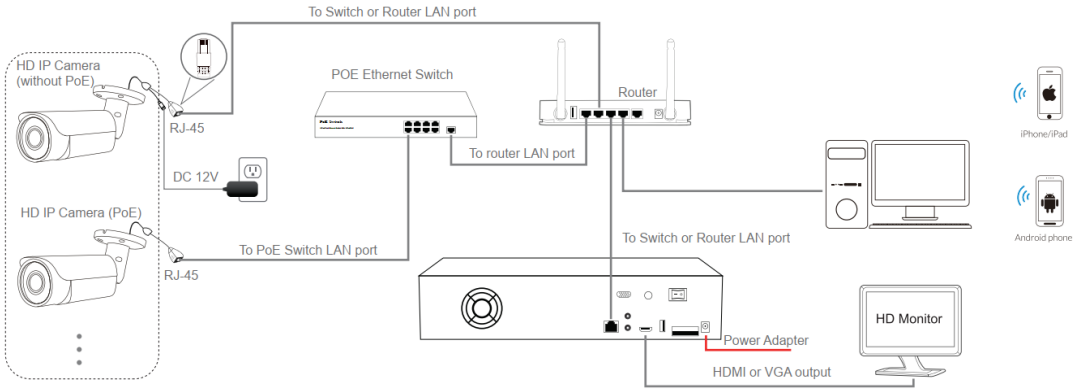


Figure 2: Working With PoE switch and NVR

Note:

1. The camera should be connected to an OPTIONAL 12 volt power supply if you do not use PoE (Power over Ethernet).
2. A Windows computer is more convenient to setup and troubleshooting.

Camera's IP address assignment

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

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

Obtaining IP settings automatically by DHCP

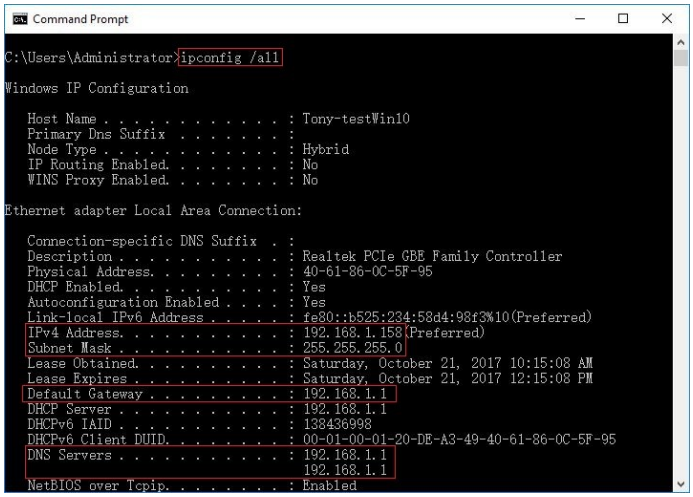
This series camera's default network configuration is **DHCP** mode, you can get IP settings assigned automatically from the LAN router or DHCP server, otherwise, the camera will set its own IP address to **192.168.0.123** in a few seconds for local access. The camera will save the obtained IP settings to **static** configuration after 24 hours continous running to keep your system working more stable.

You can install the **GuardTools** or **Guardstation** to quickly configure the IP camera.

Assigning camera IP address manually

If you prefer to assign camera IP address manually, you'd better confirm the IP network planning and avoid IP address conflict.

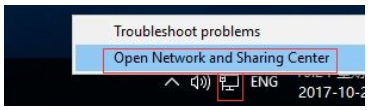
Steps on Local Area Windows 10 PC : Search Windows -> cmd -> ipconfig /all



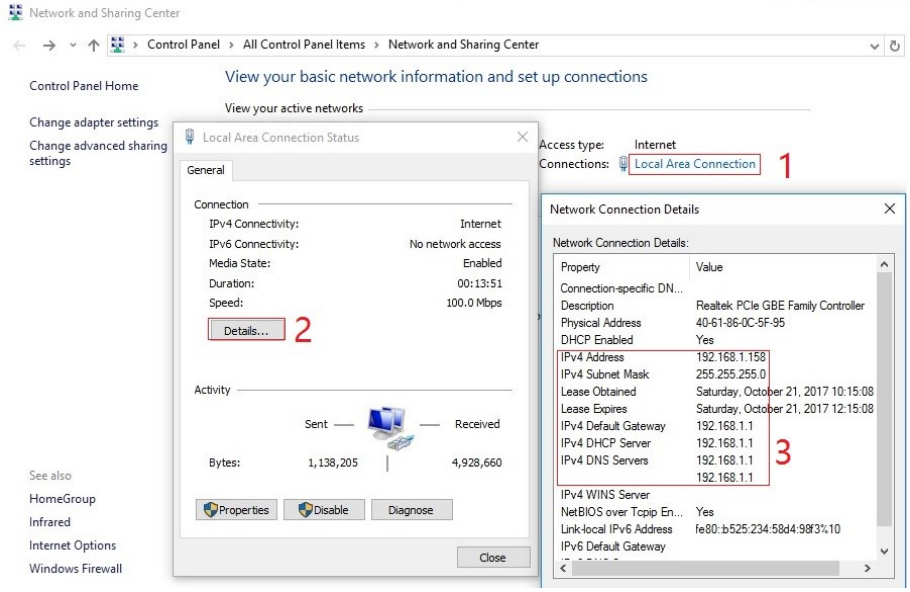
Now you can get all the local network information.

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 .

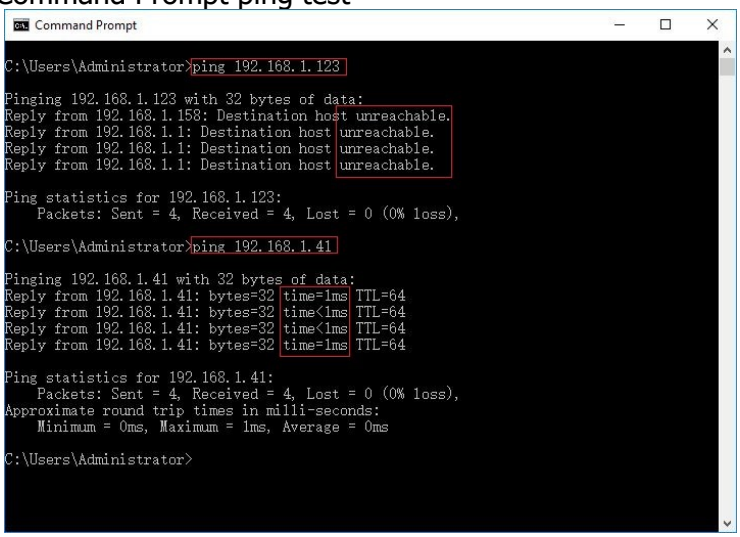


Right-click on the Network icon and select **open Network and Sharing Center**.



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:

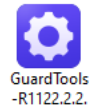
Command Prompt ping test

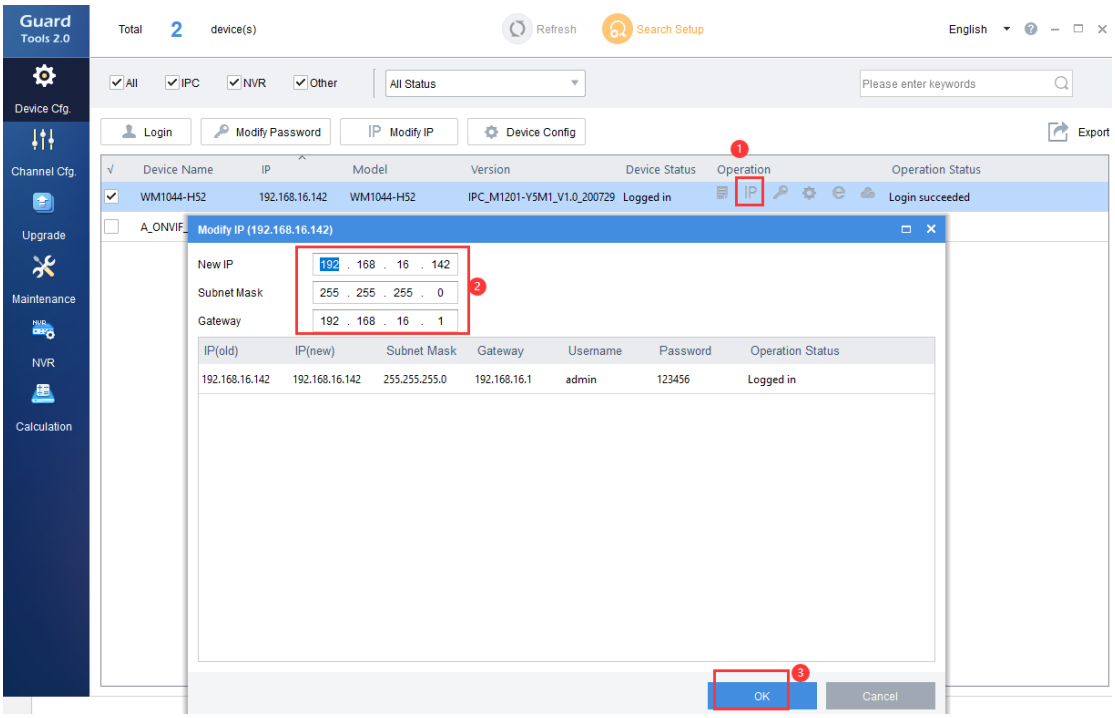


Only when reply unreachable that means the IP address is no conflict and available, otherwise when you see time reply do not use this IP address.

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

Using Device Search Tool **GuardTools**



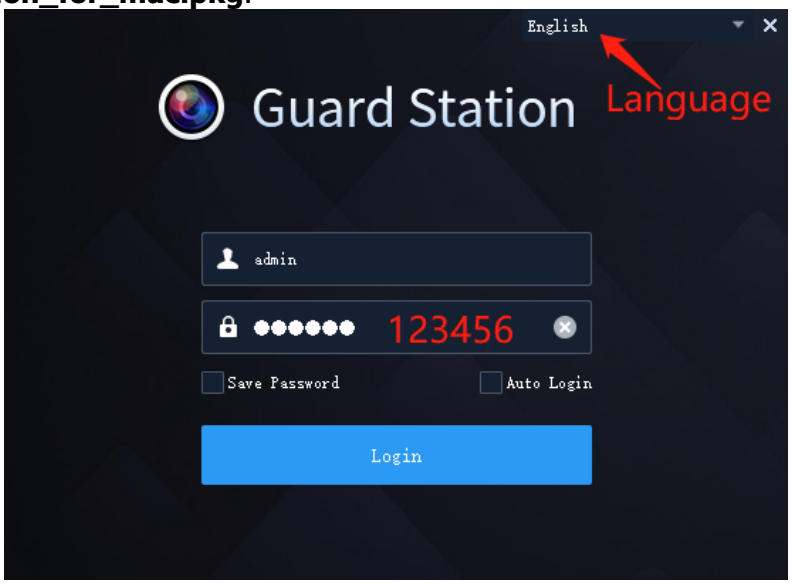


Click **Refresh** and all your cameras in the LAN will be listed. Modify IP address to suit the LAN's IP scheme.

Accessing the camera via GuardStation PC software

1) For Windows PC please download and install the software **GuardStation_for_windows.exe** and install it as administrator.

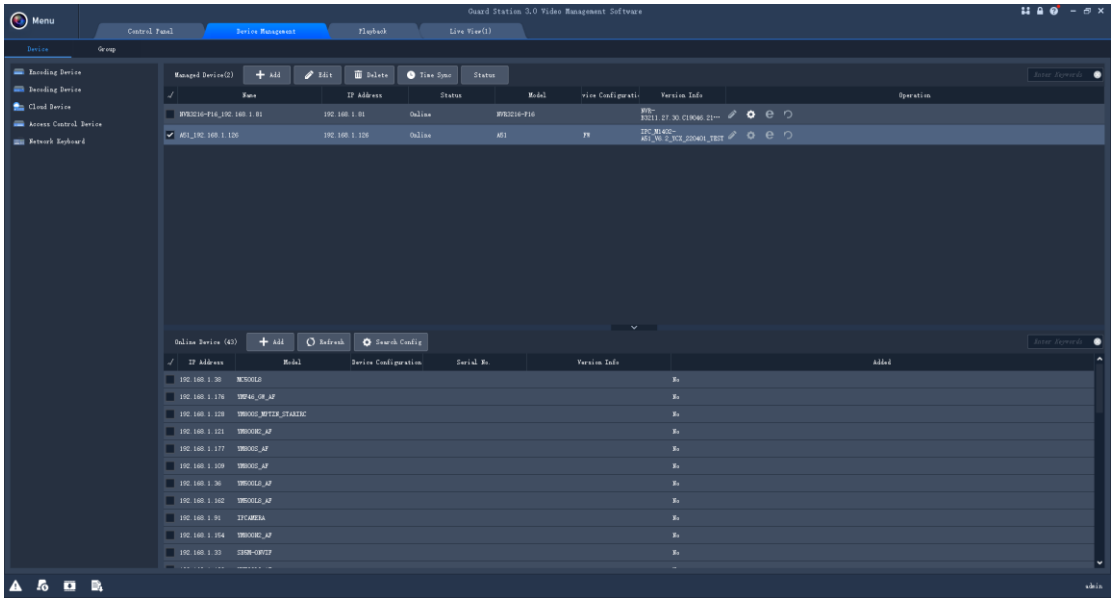
2) For Apple mac please download and intall the software **GuardStation_for_mac.pkg**.



Guard Station 3.0

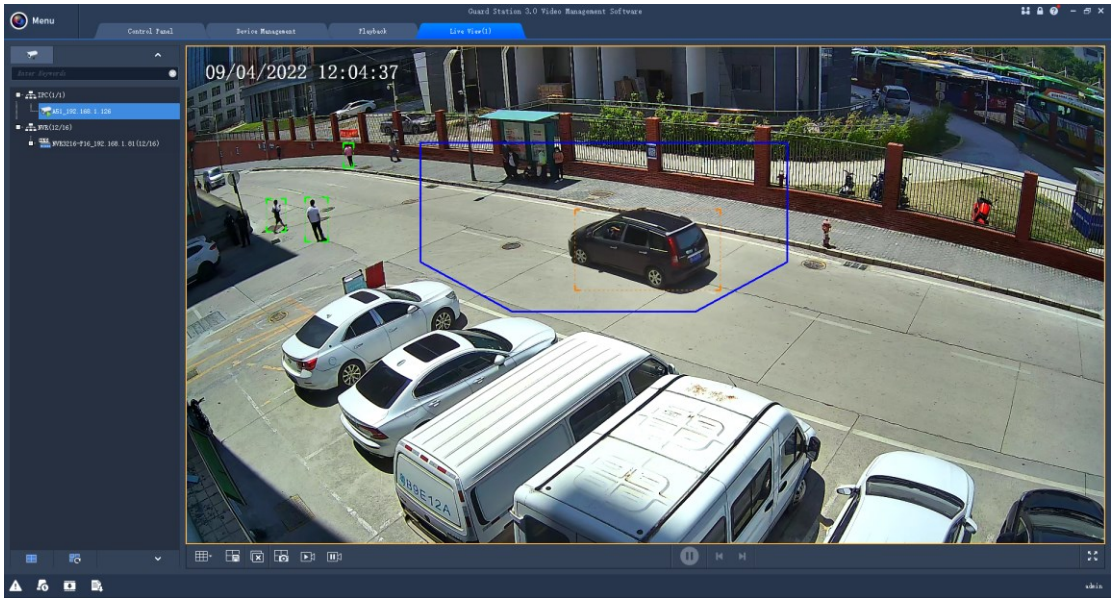
3) Login with default username and password *(admin 123456)*

4) Goto **Device Management** to add devices.



(Default user name: admin, Password: 123456)

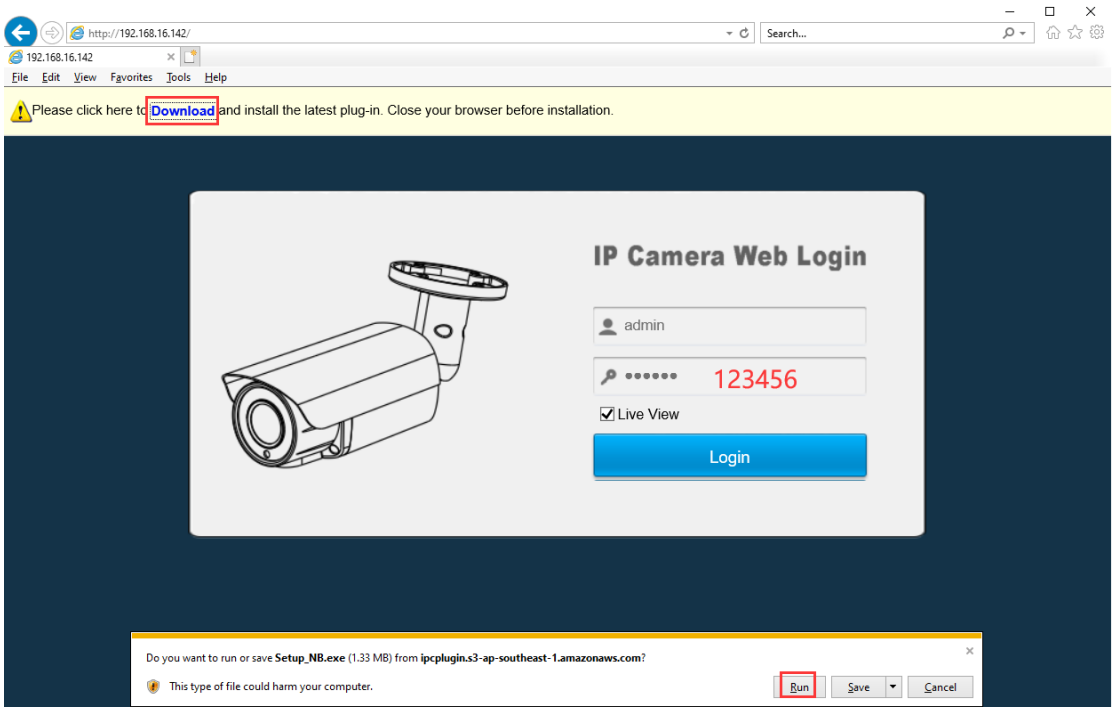
5) Goto **Live View** and drag the camera to display window



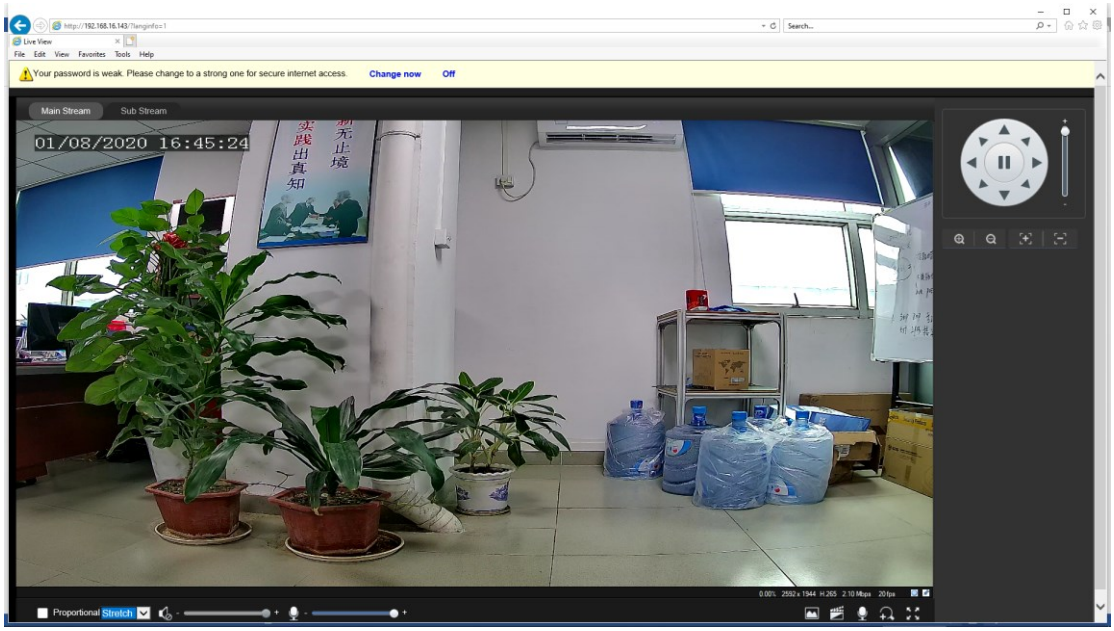
Working with Internet Explorer web browser

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 perfect supported. You can also use Chrome , Edge, Firefox ,safari to access the camera, but it maybe less smooth than IE because lack of the webplugin support.*



Install Web Plug-in when prompted. You may have to download and run it as administrator. After installation, restart or refresh your web browser,the live video will start automatically after login successfully.



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

Note:
1. Chrome, Edge and other free Active-x web browser maybe not full supported on some functions.

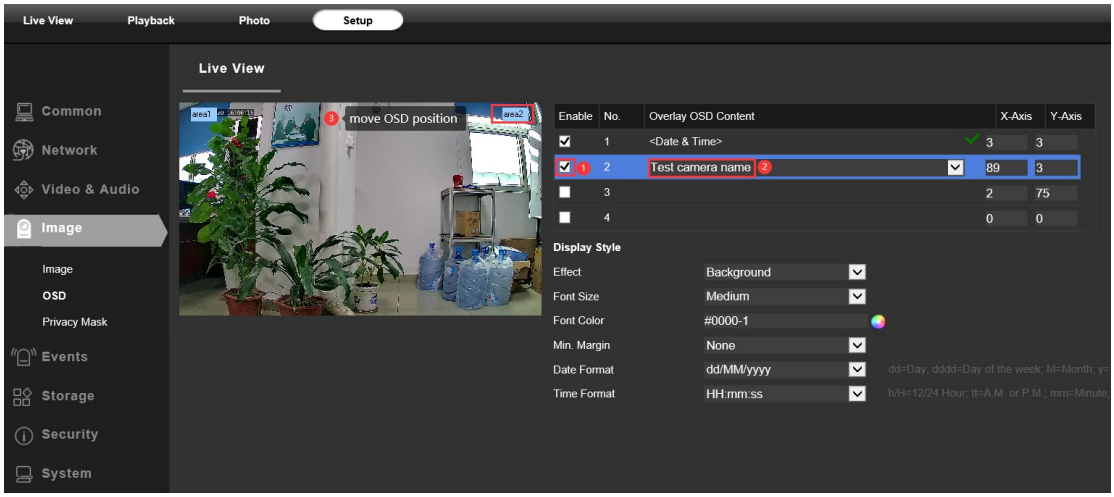
2. Only the **Motorized Auto Focus** cameras can **Zoom In** and **Zoom Out.** Keeping pressing on live video and dragging for **Digital Zoom**.

If there is a delay in video response when accessing remotely, please switch to Sub Stream instead.

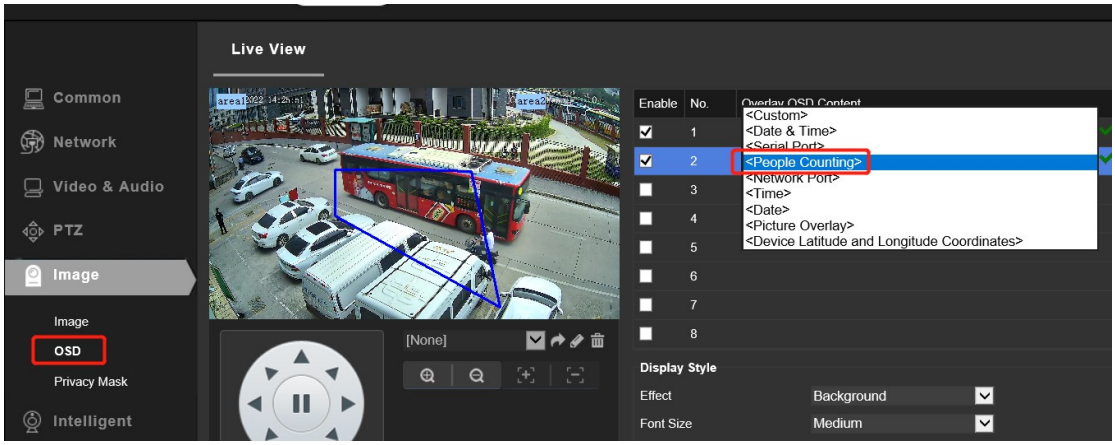
General Configurations

1) To modify the camera **Title name** and **Time & Date**

➢ **Setup > Image > OSD**

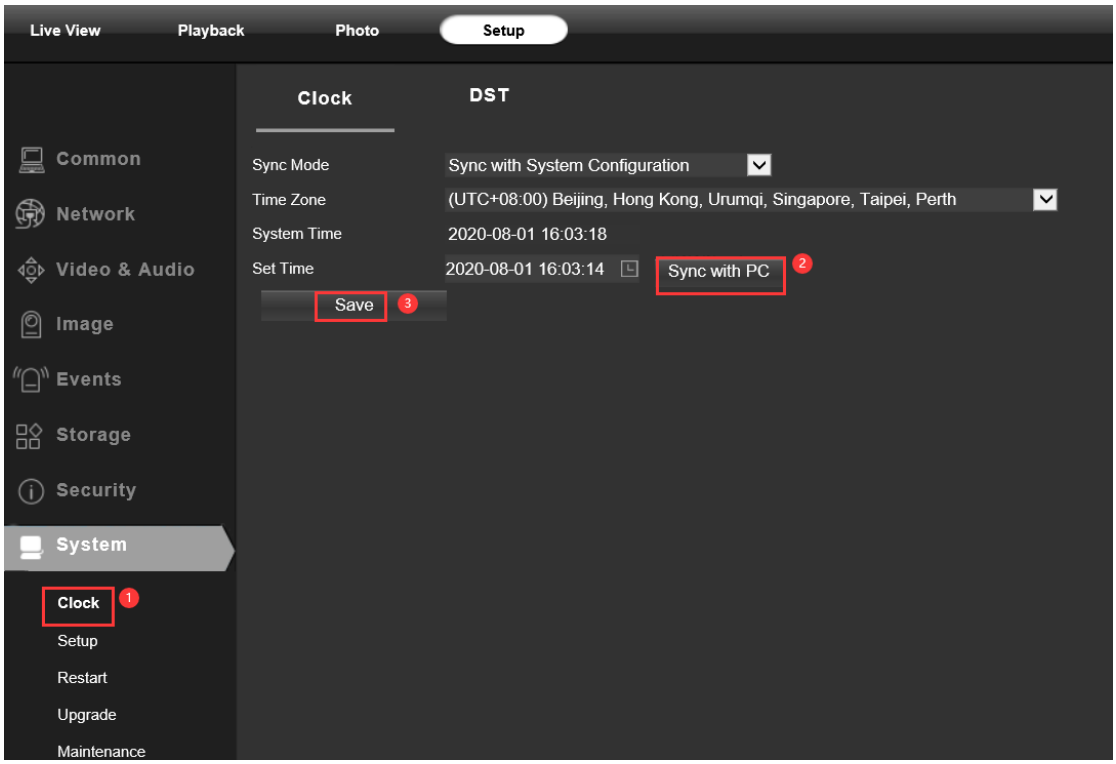


If People Counting feature is available in camera, the People Counting OSD is very useful.

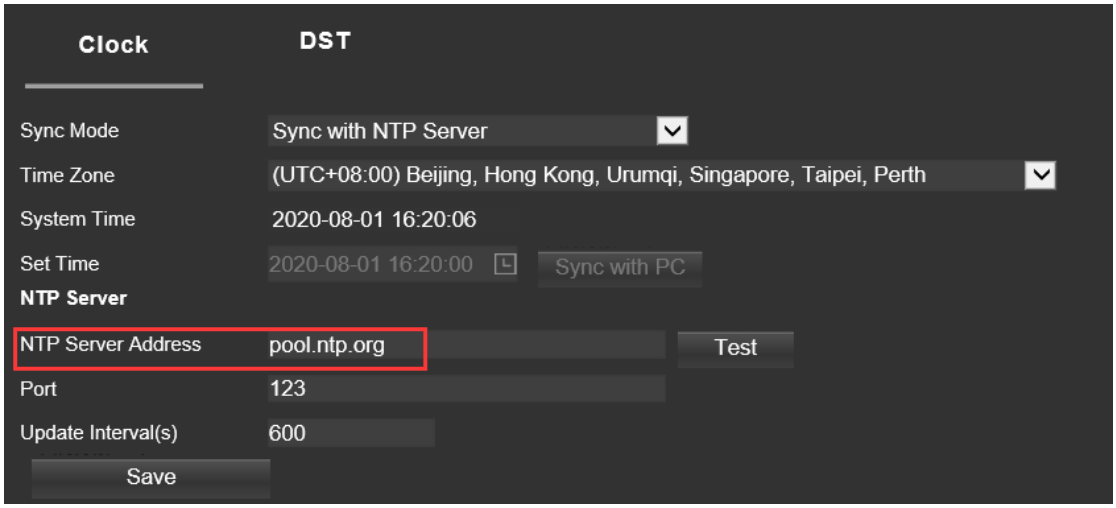


➢ **Setup > System > Clock**

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



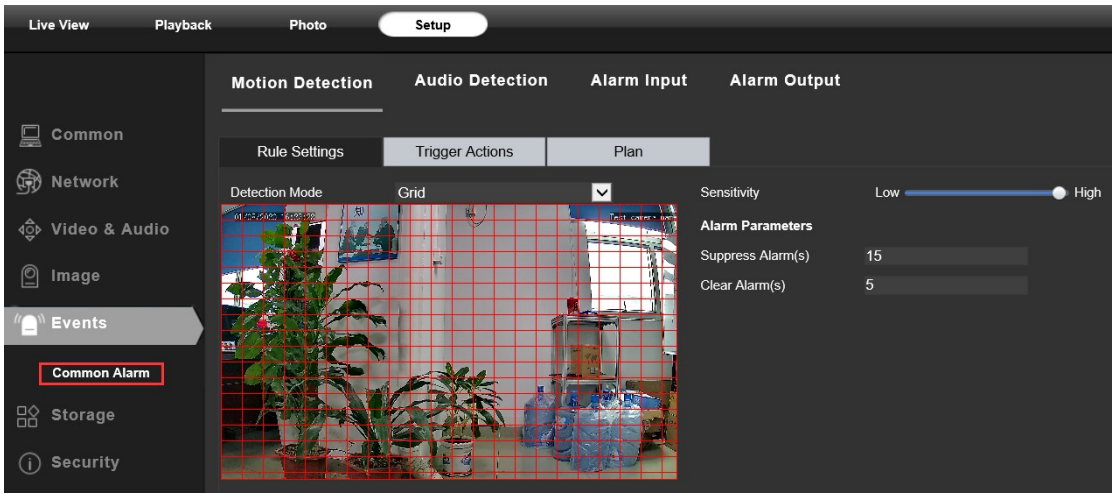
a. Select your **Time Zone**, and click **Sync PC**. Set up your DST (Daylight Savings Time) if needed , click **Save.** *(Time and date will reset to 2000-01-01 if camera restarts without NVR connected)*

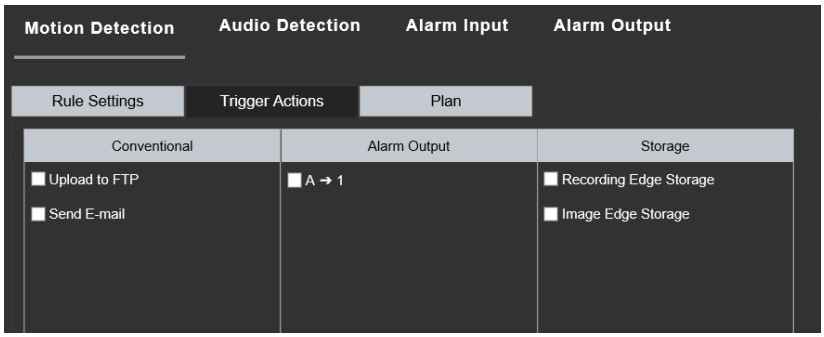


b. If the camera is connected to the Internet, you can set up a **NTP server** for the camera to sync the time and date automatically. DST is available if needed.

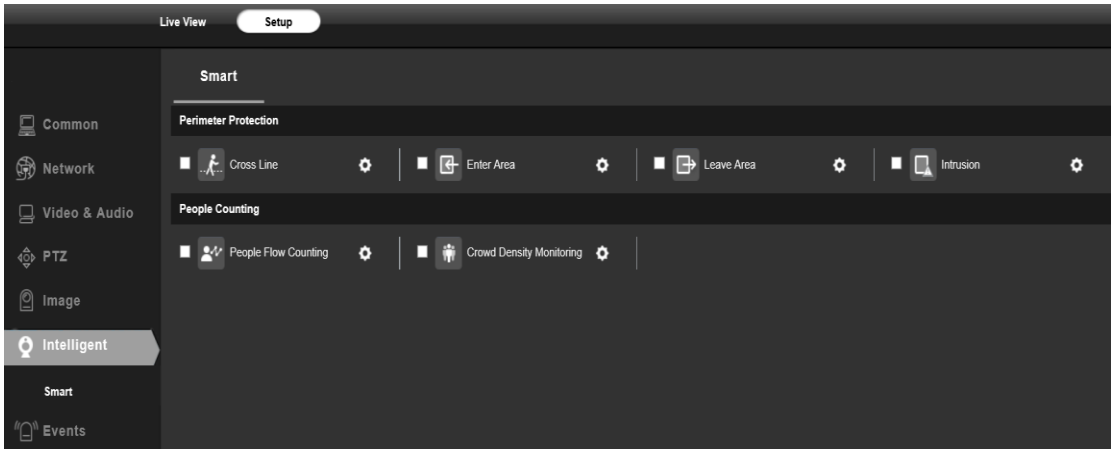
2) To enable Motion Detection Alarm or Intelligent Alarm and trigger actions

➢ **Setup > Events > Common Alarm**





➢ **Setup > Intelligent > Smart**



The Smart Intelligent features above maybe different in different models.

Perimeter Protection including :

Cross Line – trigger action when object go through the warning line

Enter Area - trigger action when object enter the warning area

Leave Area - trigger action when object leave the warning area

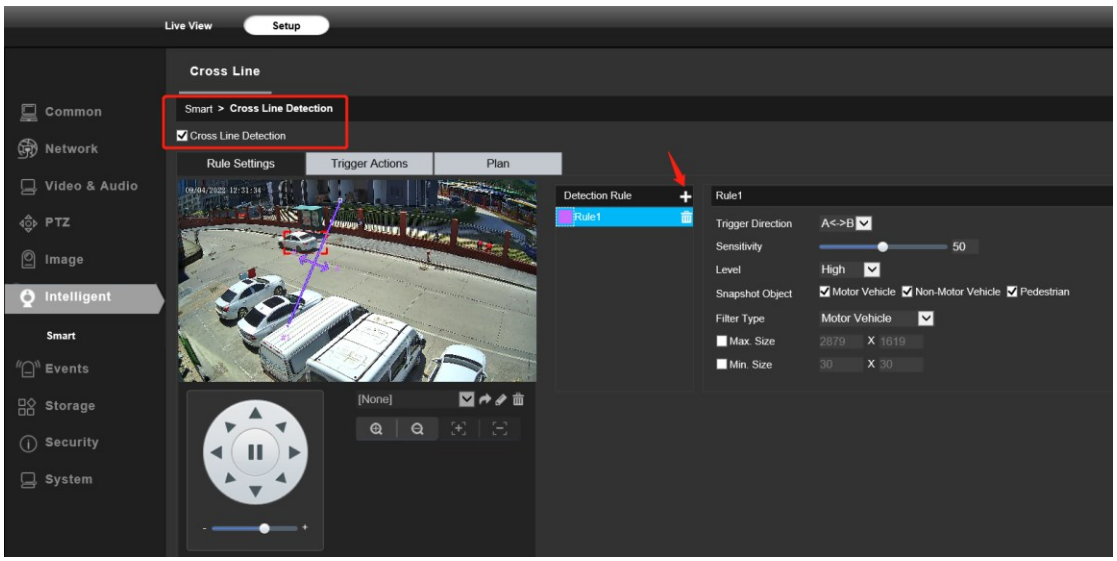
Instrucsion - trigger action when object touch the warning area

People Counting including :

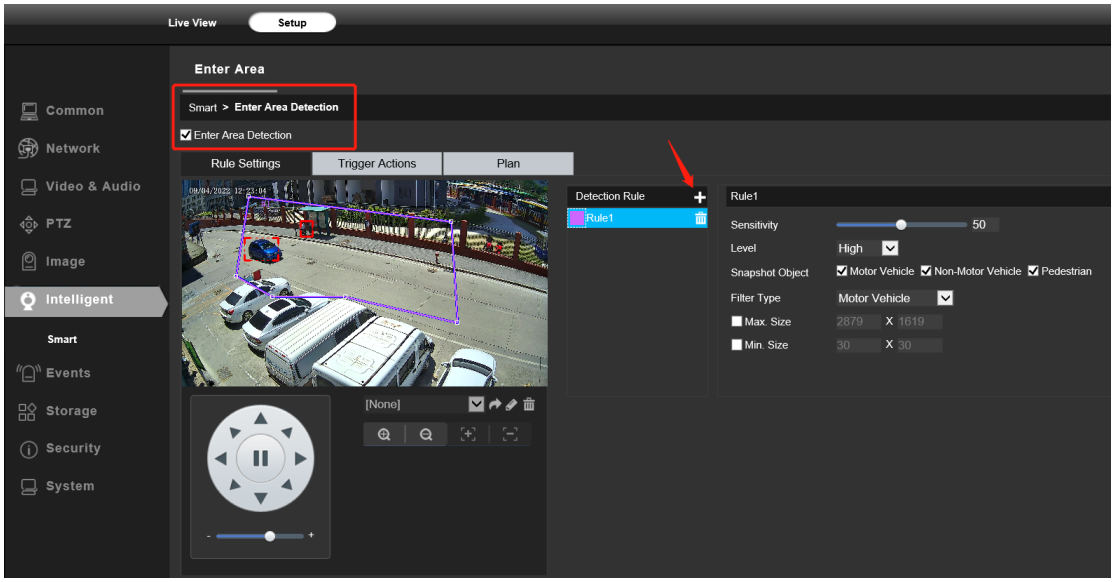
People Flow Counting - Count the entry cross line and exit cross line people , and trigger action when people flow reach the alarm value

Crowd Density Monitoring - Analyse the current total people in the target area , and trigger action when people flow reach the alarm value

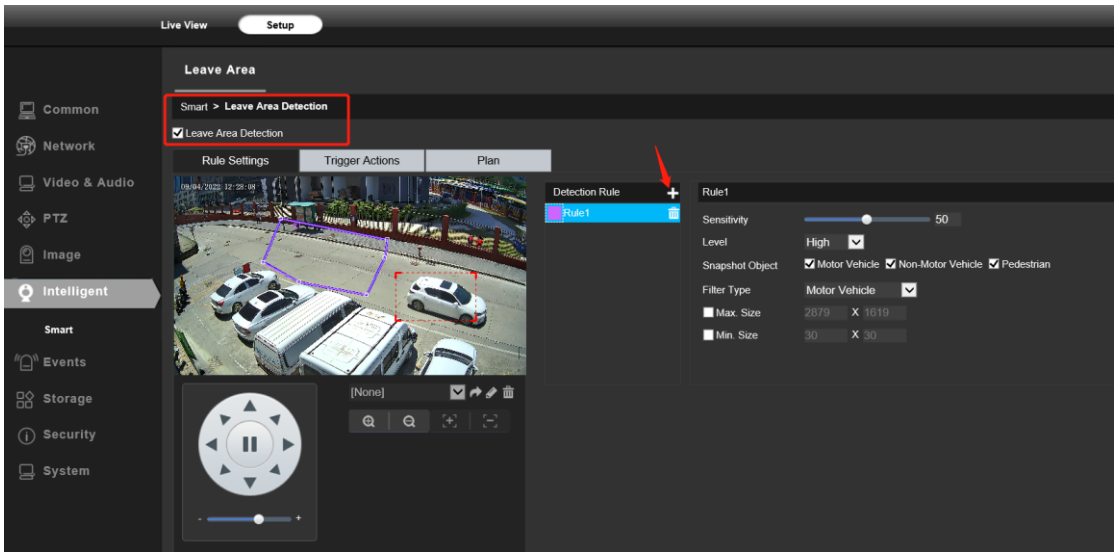
Cross Line – trigger action when object go through the warning line



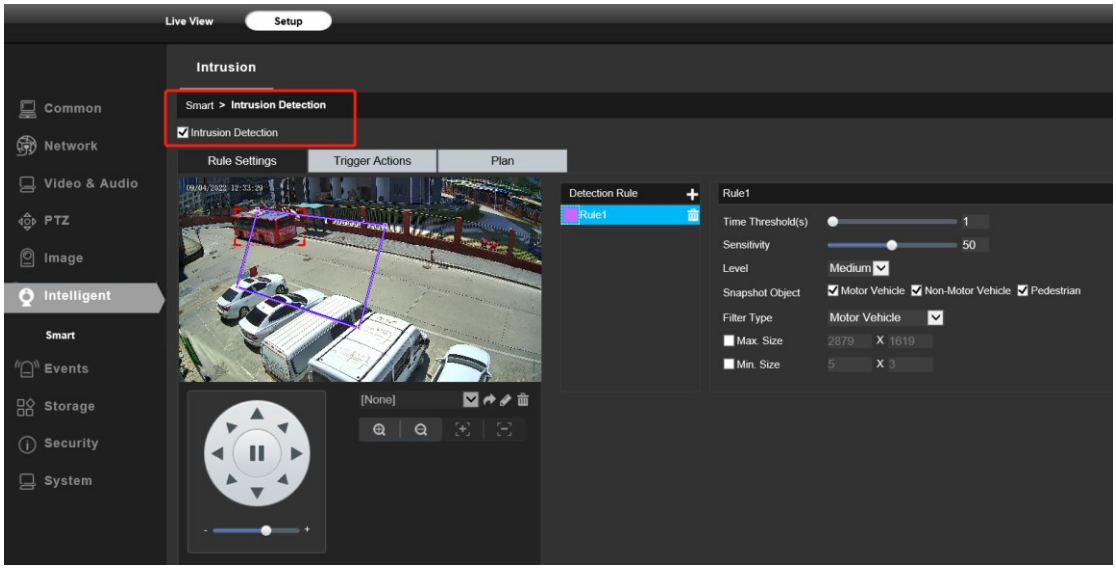
Enter Area - trigger action when object enter the warning area



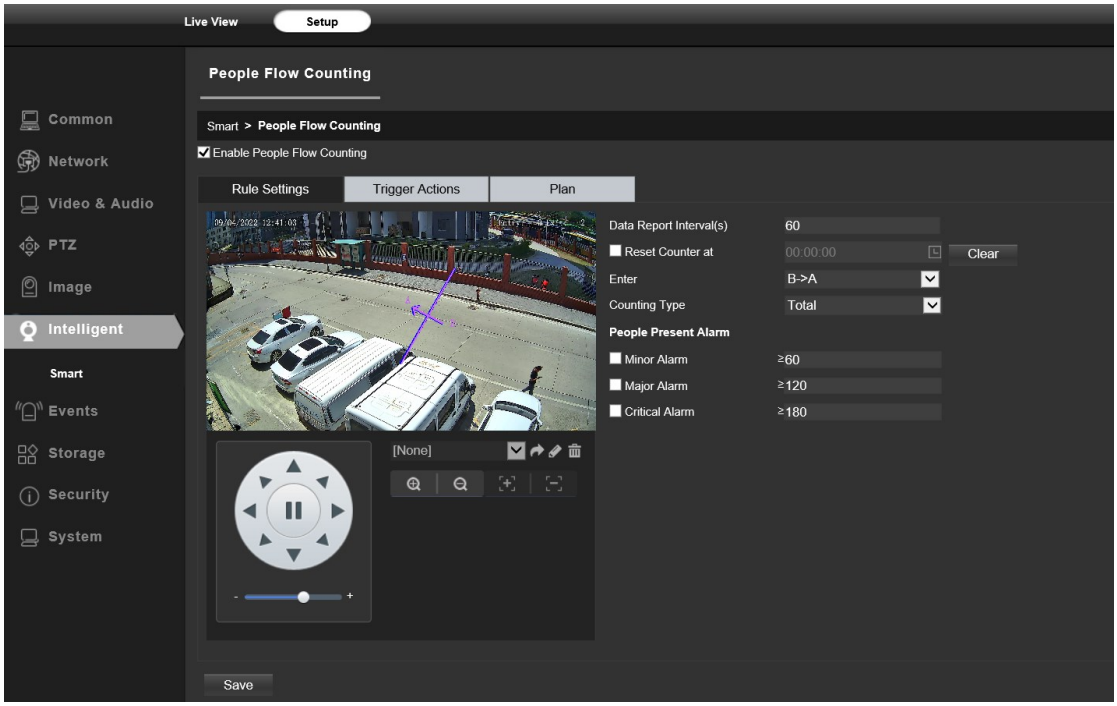
Leave Area - trigger action when object leave the warning area



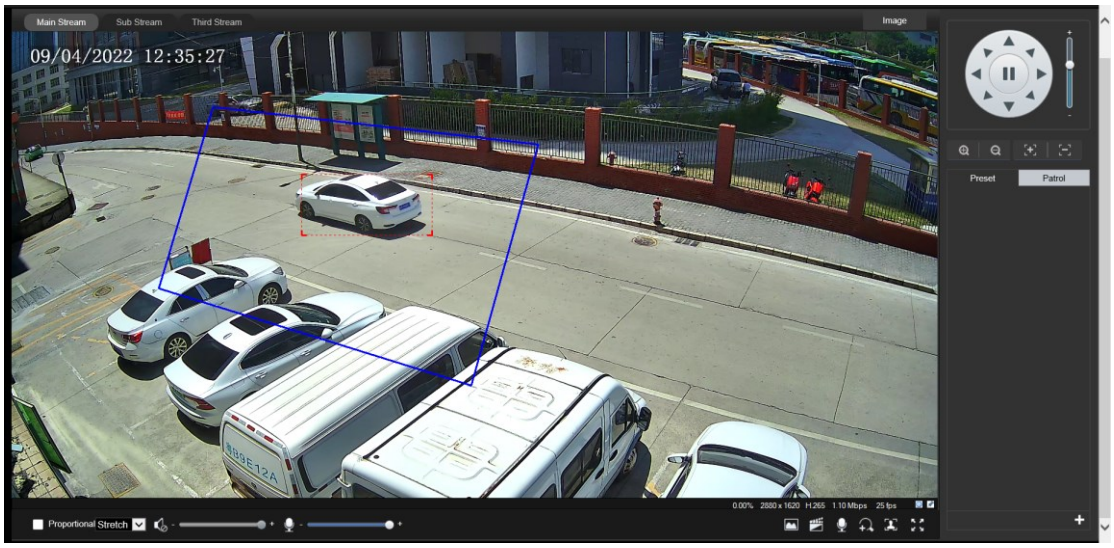
Instrucsion - trigger action when object touch the warning area



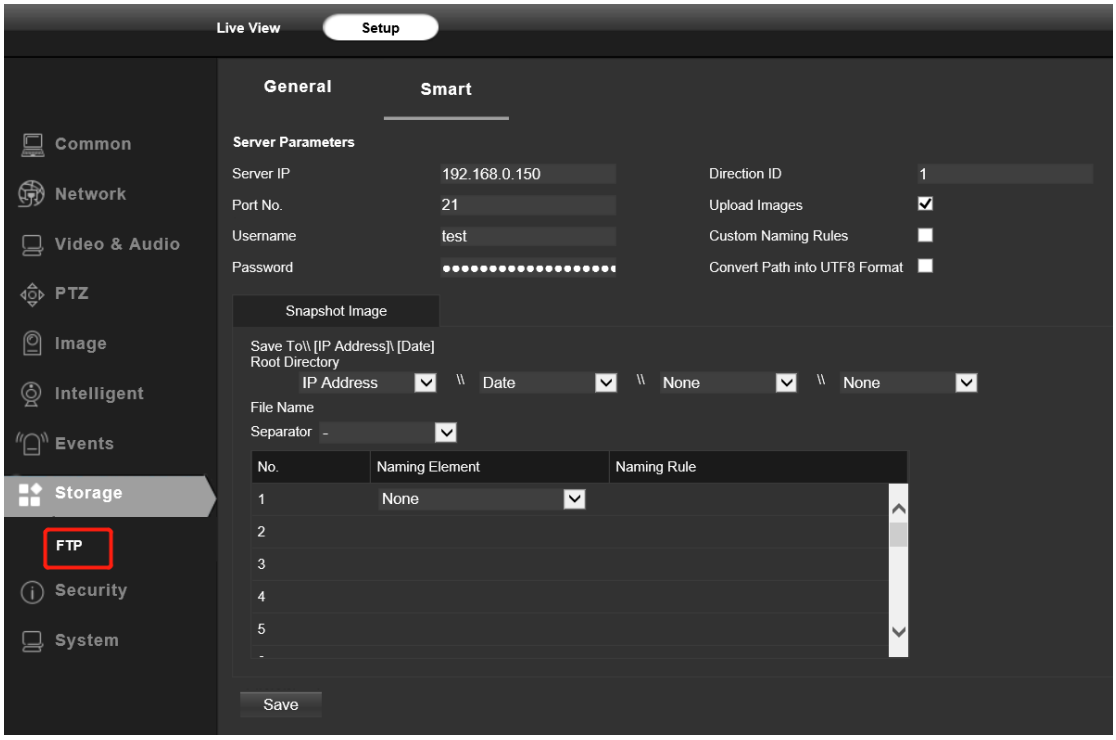
People Flow Counting - Count the entry cross line and exit cross line people , and trigger action when people flow reach the alarm value



Crowd Density Monitoring - Analyse the current total people in the target area , and trigger action when people flow reach the alarm value

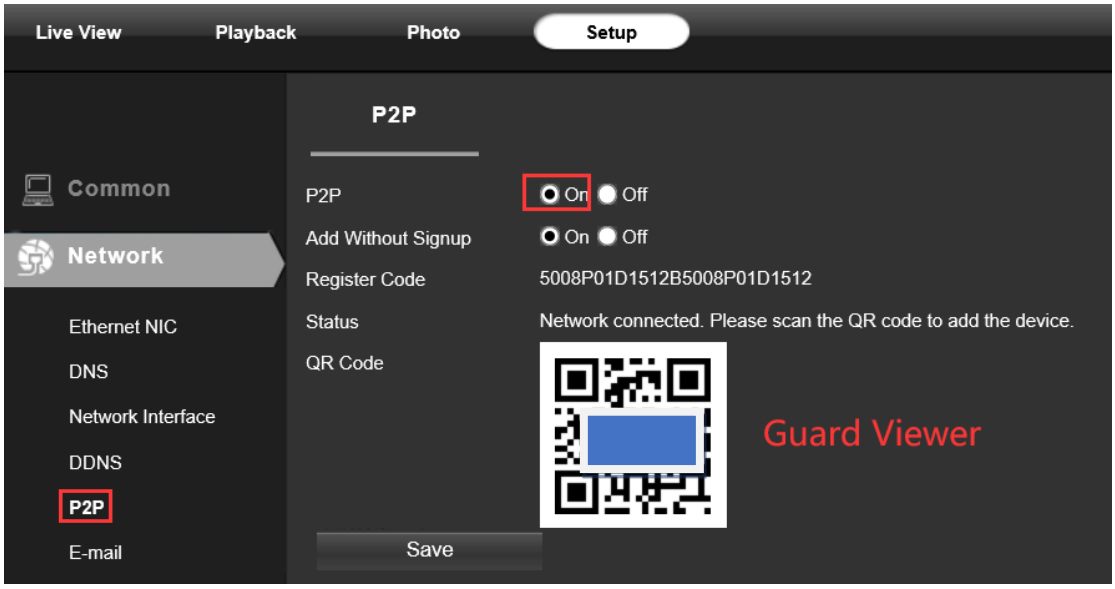


You can also setup an email address or FTP storage server to receive the event snapshot.



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

➢ **Setup > 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 **Guard Viewer** APP from **Apple Store** or **Google Play** , then log in and add your camera to start previewing.

Tips:

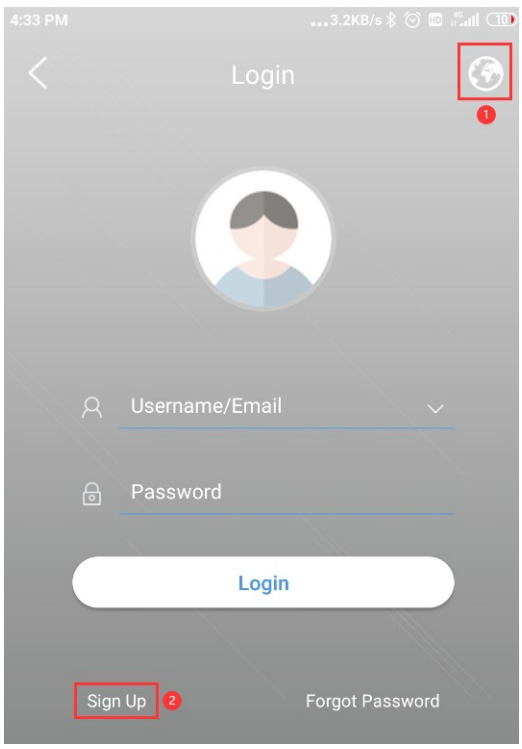
*If the **Login Status** shows **Offline,** please check your Internet connection and IP camera **TCP/IP Network** configurations. Please make sure to use a valid IP address, Gateway and DNS server in the TCP/IP Network settings.*

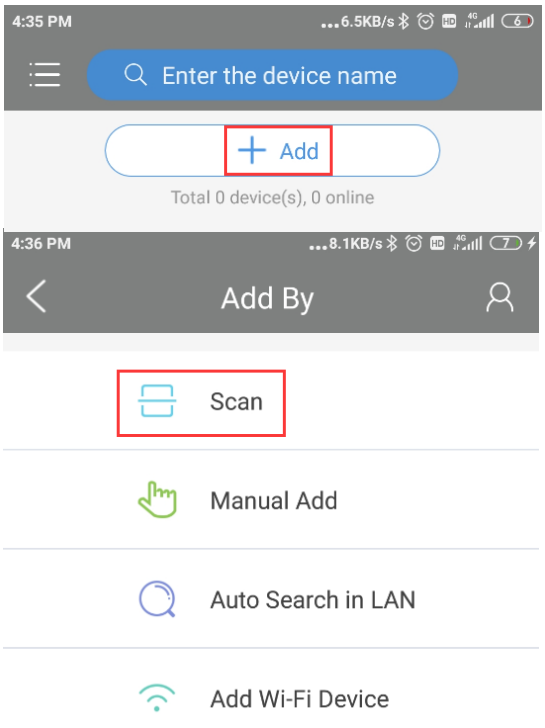
Working with mobile device

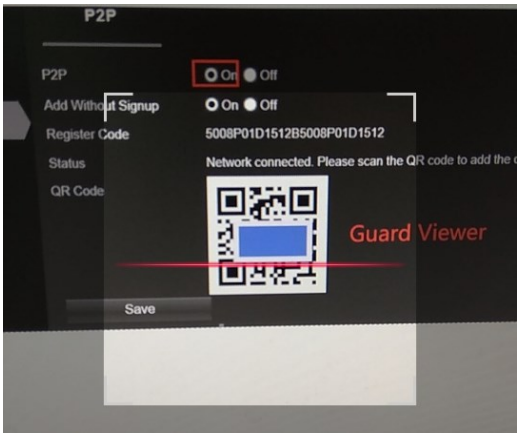
Visit the **Apple Store** or the **Google Play Store** to download the **Guard Viewer** app for iOS or Android devices. After installation, tap the icon to launch the app.

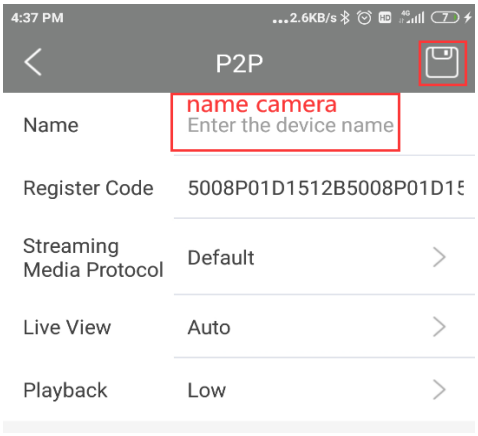
1. scan the QR code to download and install the app.

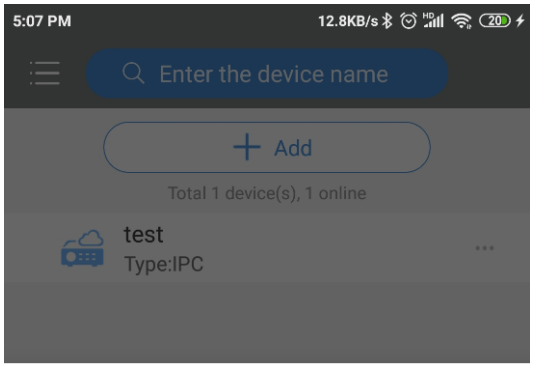
For first time use, please create a new account and add camera following steps:

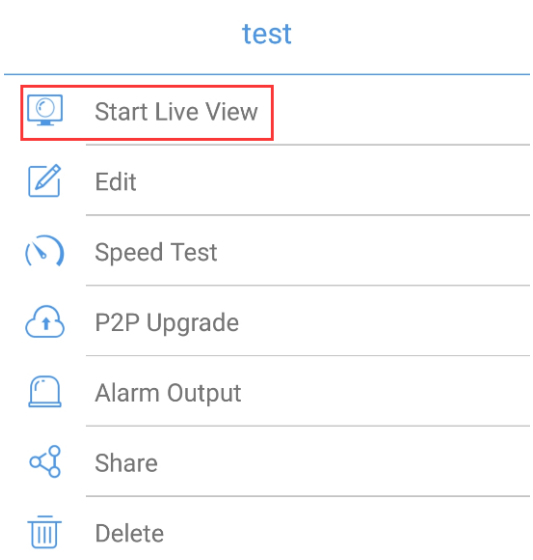


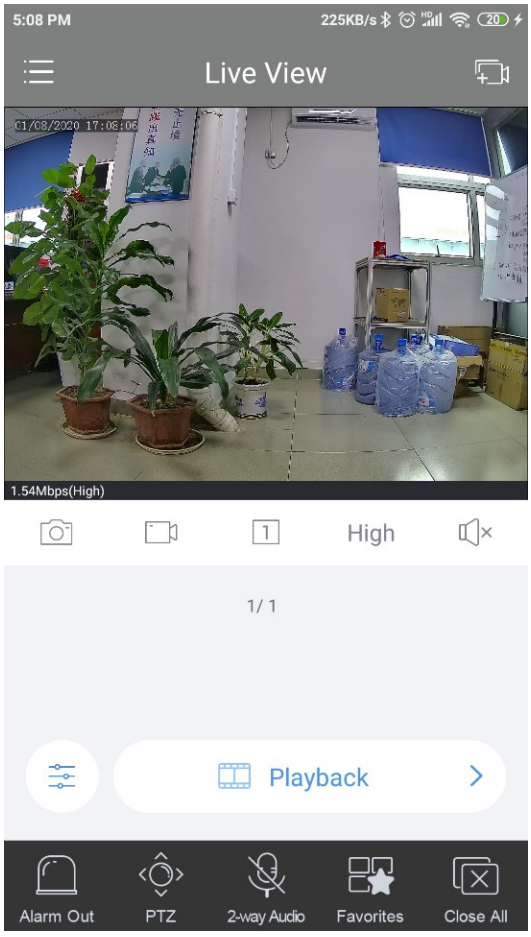


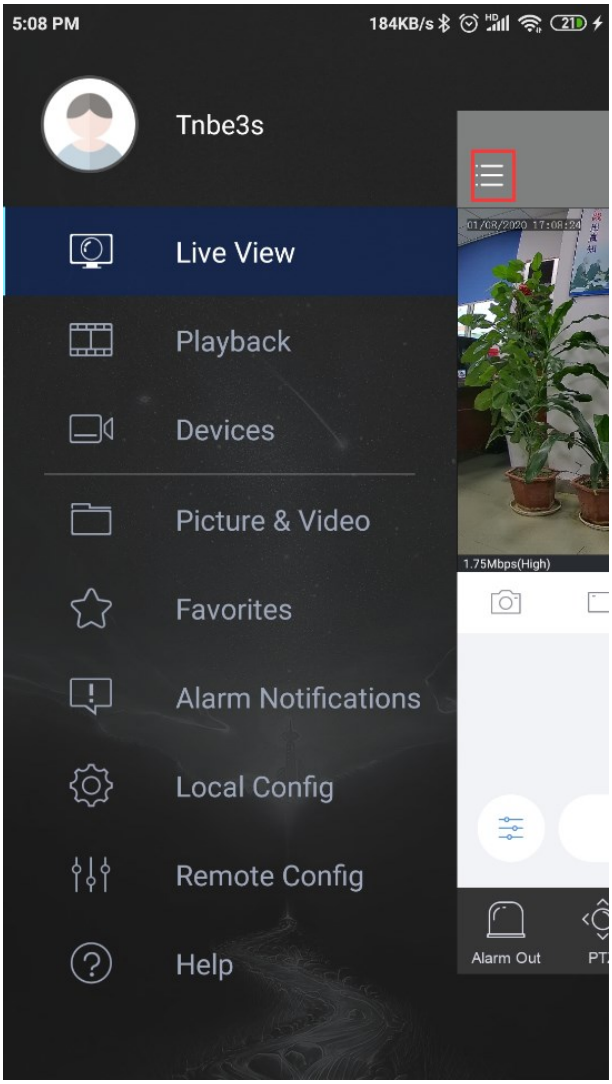

P2P
P2P
On Off
Add Without Signup
On Off
Register Code
5008P01D1512B5008P01D1512
Status
Network connected. Please scan the QR code to add the
QR Code
Guard Viewer
Save


4:37 PM
...2.6KB/s
P2P
Name
name camera
Enter the device name
Register Code
5008P01D1512B5008P01D1
Streaming Media Protocol
Default
Live View
Auto
Playback
Low


5:07 PM
12.8KB/s
Enter the device name
Add
Total 1 device(s), 1 online
test
Type:IPC


test
Start Live View
Edit
Speed Test
P2P Upgrade
Alarm Output
Share
Delete


5:08 PM
225KB/s
Live View
01/08/2020 17:08:06
1.54Mbps(High)
High
1/ 1
Playback
Alarm Out
PTZ
2-way Audio
Favorites
Close All



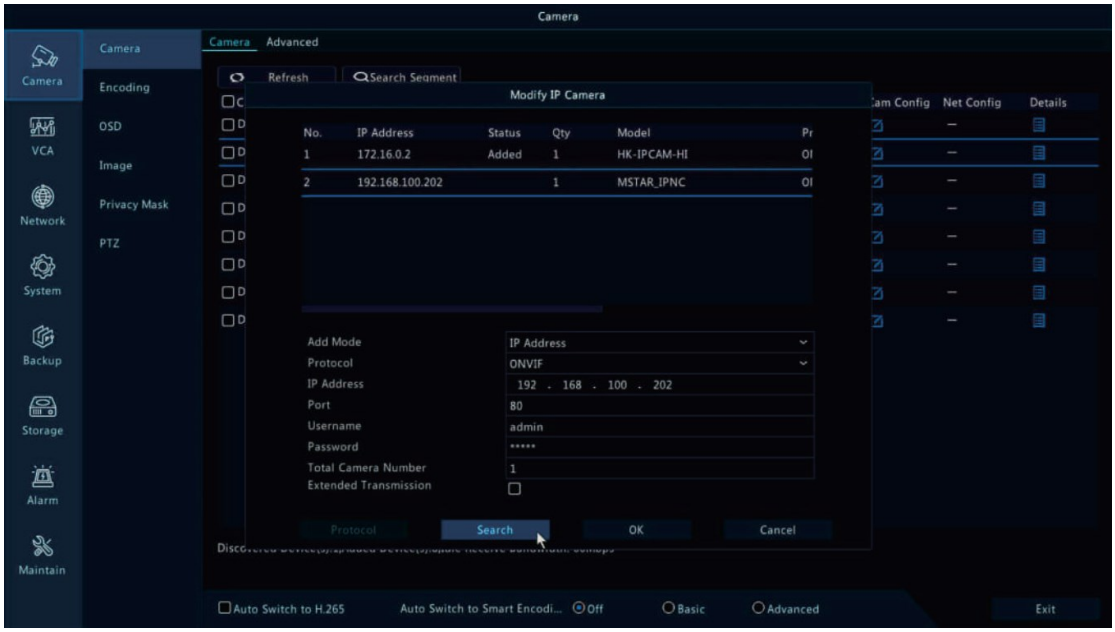
1. For new users, please tap **Sign up** to register an account.
2. Tap **Add devices** to scan camera QR code page, or click **Auto Search in LAN** to discover the connected local LAN IP camera.
3. give nickname for the recognized camera,and click **SAVE** icon.
4. Tap the camera list to start live video.

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.

Working with NVR

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.

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

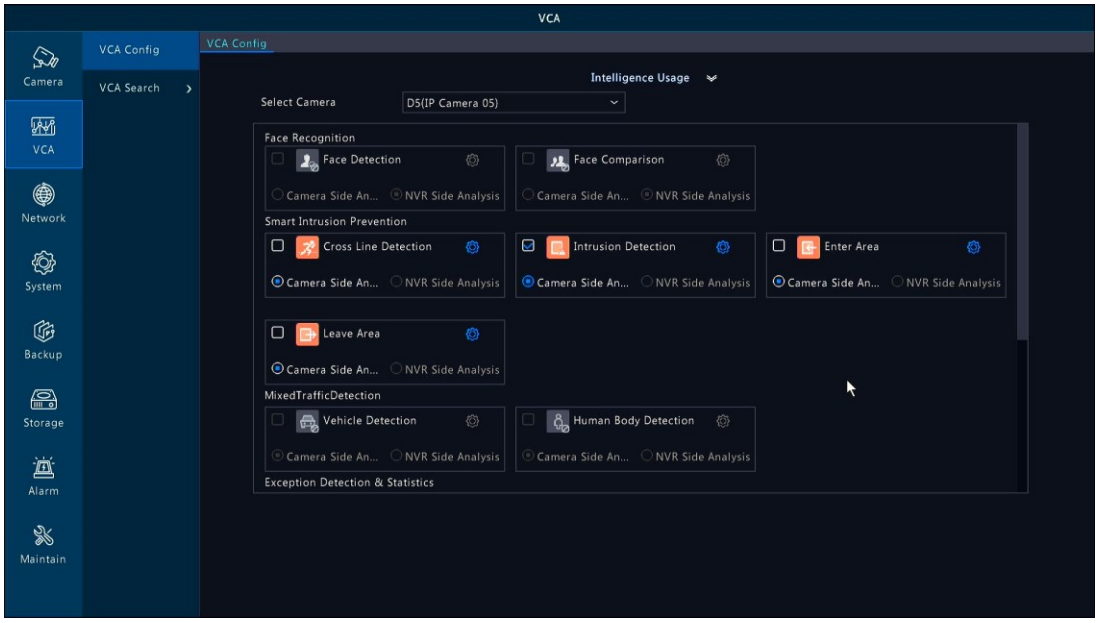


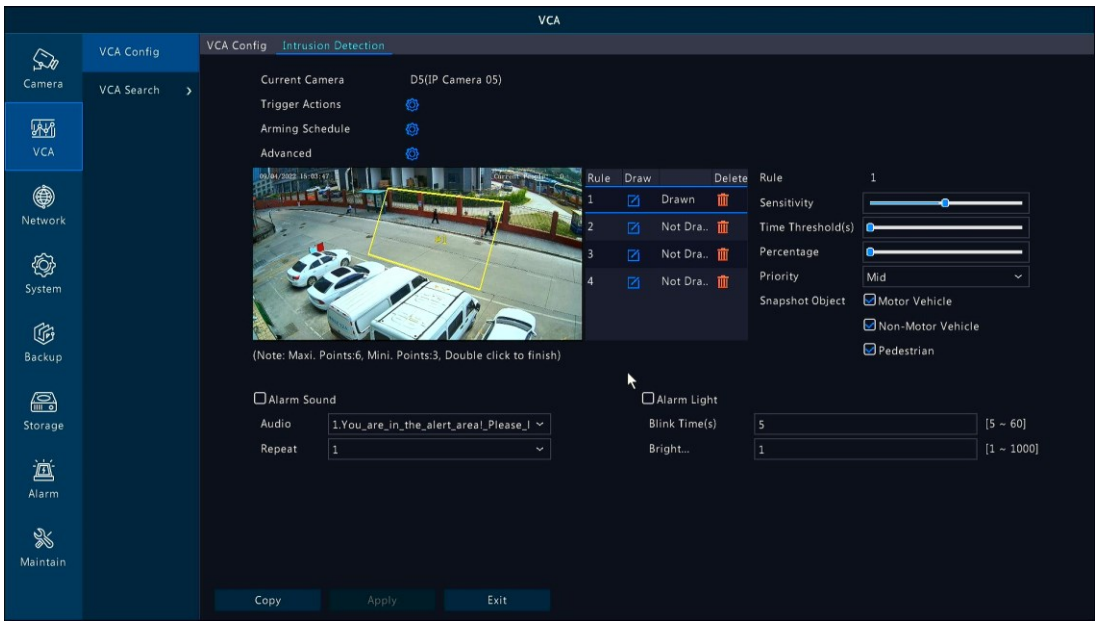
Note: Some of the PoE NVR supports **Plug & play**, which allows you to get video without manually search and add. if **Plug & play** feature is not available or not compatible, please follow the NVR manual steps and select **ONVIF** protocol as the paring protocol. *(camera default password: 123456)*

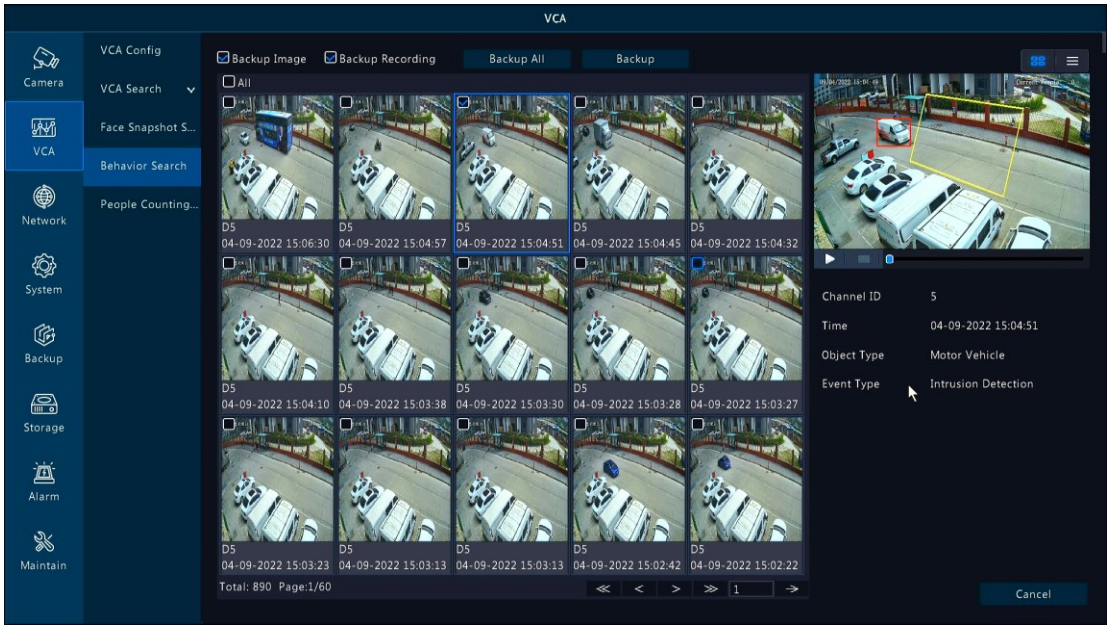
If the POE NVR can not discover the connected camera or can not display the camera video , please check it's internal POE interface IP configuration and make sure all connected cameras and NVR POE interface are in the same subnet schema.

Note:

The camera Intelligent Smart VCA functions only can be supported by the NVR supplied from the same manufacturer. You may cannot enable the camera Smart functions by third-pary NVR.


VCA
Camera
VCA
Network
System
Backup
Storage
Alarm
Maintain
VCA Config
VCA Search
VCA Config
Intelligence Usage
Select Camera
D5(IP Camera 05)
Face Recognition
Face Detection
Face Comparison
Camera Side An...
NVR Side Analysis
Smart Intrusion Prevention
Cross Line Detection
Intrusion Detection
Enter Area
Leave Area
MixedTrafficDetection
Vehicle Detection
Human Body Detection
Exception Detection & Statistics


VCA
Camera
VCA
Network
System
Backup
Storage
Alarm
Maintain
VCA Config
VCA Search
VCA Config
Intrusion Detection
Current Camera
D5(IP Camera 05)
Trigger Actions
Arming Schedule
Advanced
Rule
Draw
Delete
Drawn
Not Dra..
Sensitivity
Time Threshold(s)
Percentage
Priority
Mid
Snapshot Object
Motor Vehicle
Non-Motor Vehicle
Pedestrian
(Note: Maxi. Points:6, Mini. Points:3, Double click to finish)
Alarm Sound
Audio
1.You_are_in_the_alert_area!_Please_l
Repeat
Alarm Light
Blink Time(s)
Bright...
[5 ~ 60]
[1 ~ 1000]
Copy
Apply
Exit



For more help please contact the both NVR and IP camera suppliers for technical assistance.