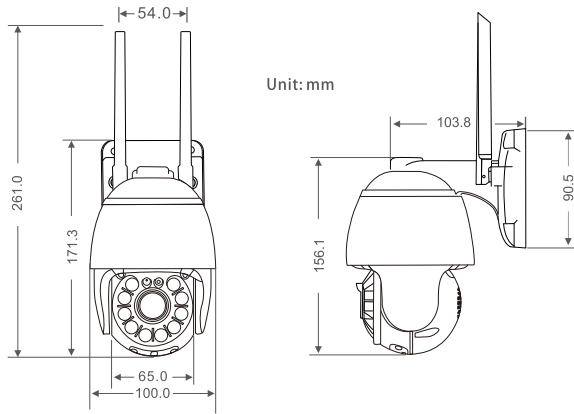
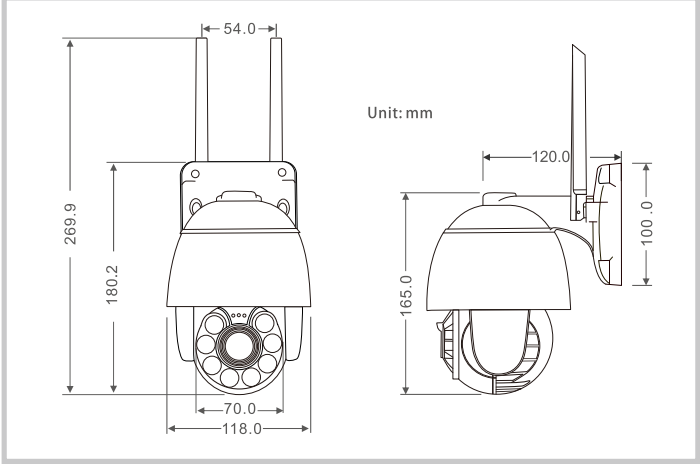


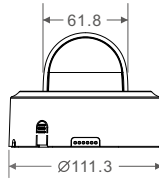
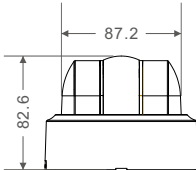
WiFi CAMERA

USER GUIDE

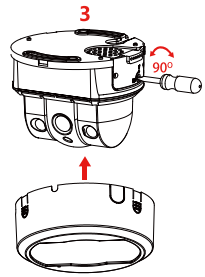
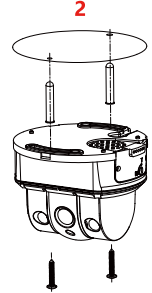
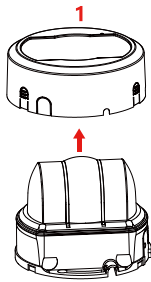


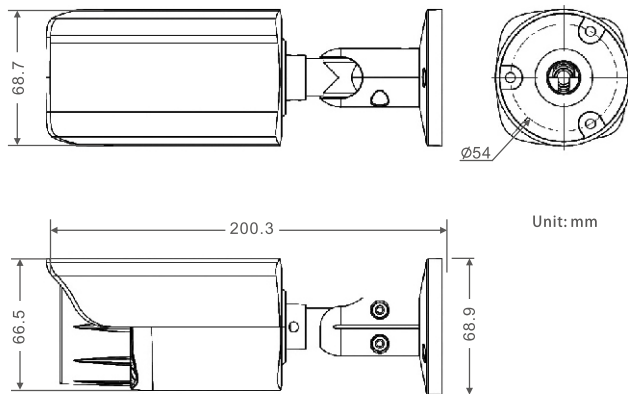




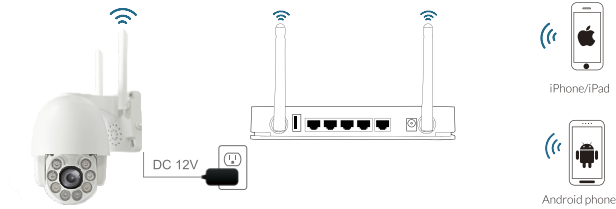


Unit: mm

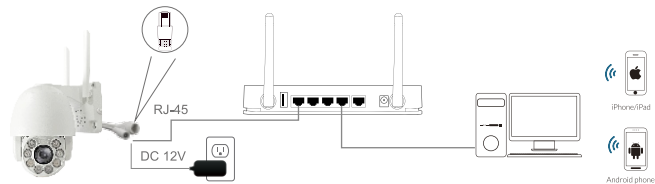


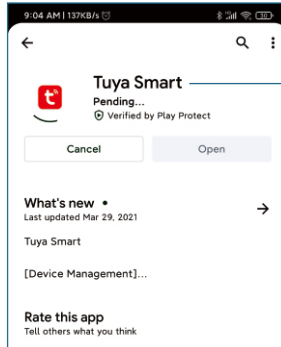


WiFi connection



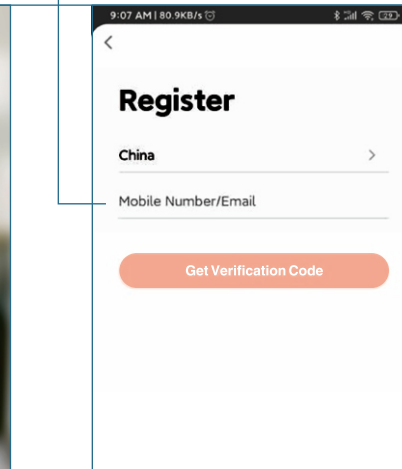
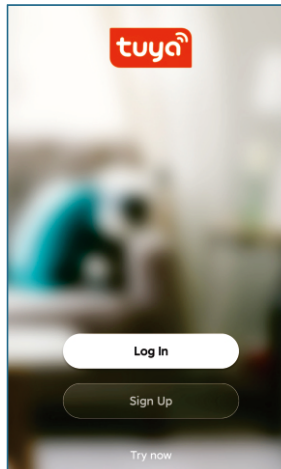
Wired connection





1 Search “Tuya Smart” on Apple Store or Google Play store.

2 Register an account in Tuya app with mobile phone number or email address.



Enter Verification Code

A verification code has been sent to your email
438427068@qq.com Resend(54s)

[Didn't get a code?](#)

9:13 AM | 98.1KB/s

Set Password

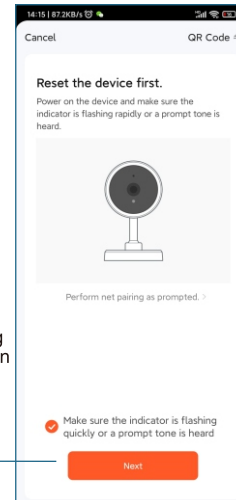
Use 6-20 characters with a mix of letters and numbers

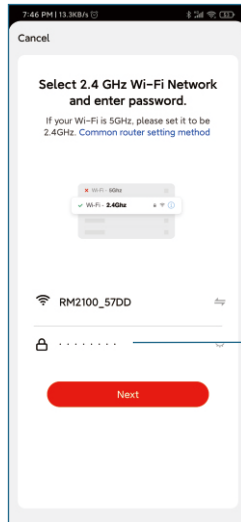
Done



3 Login in , select Security & Video Surveillance -> Smart Camera (Wi-Fi)

4 Hold on the Reset button until the voice play " The camera is waiting your configuration ... "



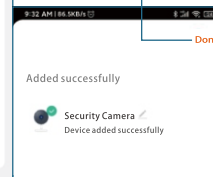


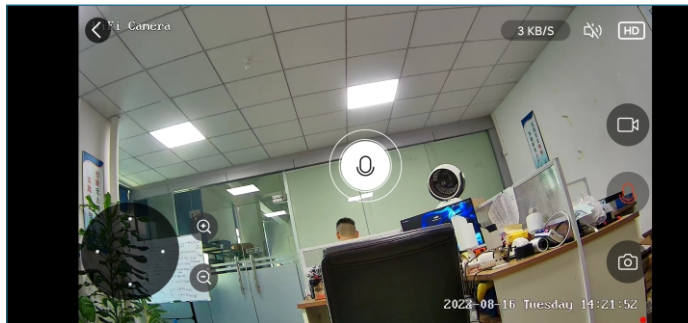
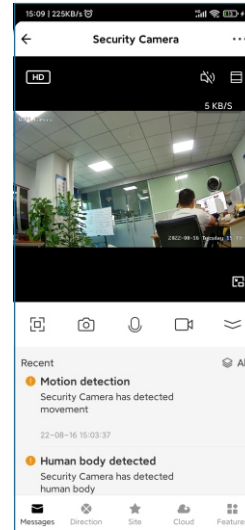
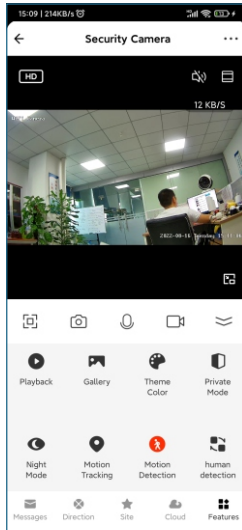
- 5 Select your home 2.4G WiFi and confirm the password.

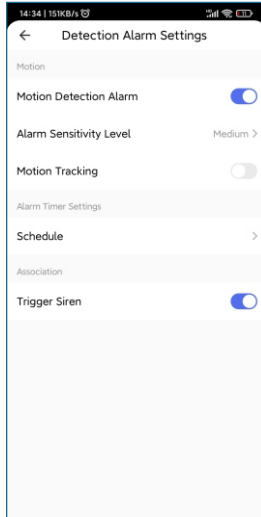
- 6 Tap Next button you can see the QR code, put the QR code at front of the camera in 15-20 CM to let the camera scan your phone QR code. You will hear the “di...di...” sound very soon when the camera finished the scan.



- 7 Click “Done” button to finish the adding.

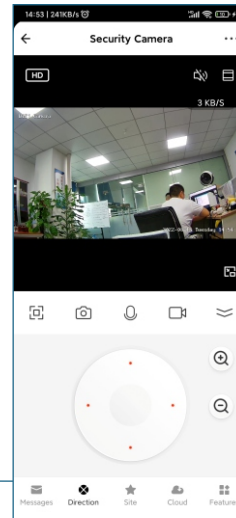


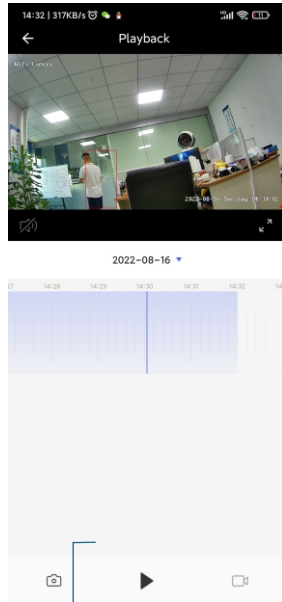




8 Detection Alarm Settings

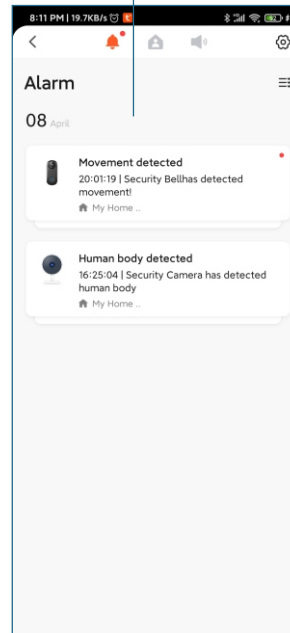
9 Zoom function



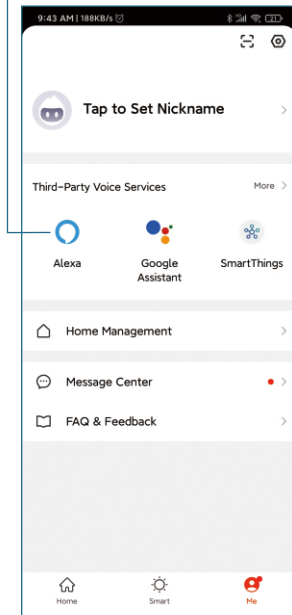


10 Light mode settings

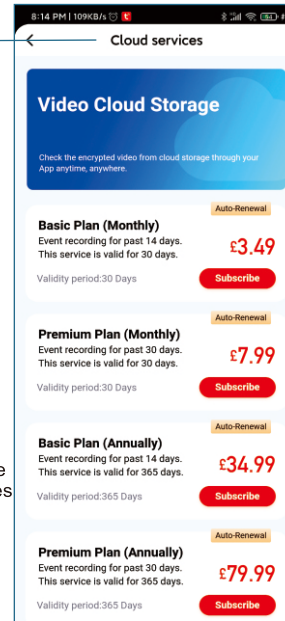
11 Alarm notification push



- 12 Compatible with Alexa, Google Assistant, SmartThings Smart Home systems.



- 13 Cloud storage services



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.

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 continuous running to keep your system working more stable. You can install the device search tool or UC client 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

```

Command Prompt
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. . . . . : 40-61-86-0C-5F-95
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . . : Yes
Link-local IPv6 Address . . . . . : fe80:b525:234:5b84:98f7n10(Preferred)
IPv4 Address. . . . . : 192.168.1.188(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 IAD . . . . . : 139430999
DNS Client DUID. . . . . : 00-01-00-01-20-DE-A3-49-40-61-86-0C-5F-95
DNS Servers . . . . . : 192.168.1.1
NetBIOS over Tcpip. . . . . : Enabled
  
```

Now you can get all the local network information.

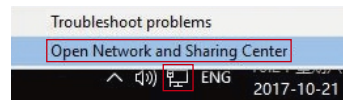
IPv4 Address: 192.168.1.?

Subnet Mask: 255.255.255.0

Default gateway: 192.168.1.1

DNS Servers: 192.168.1.1

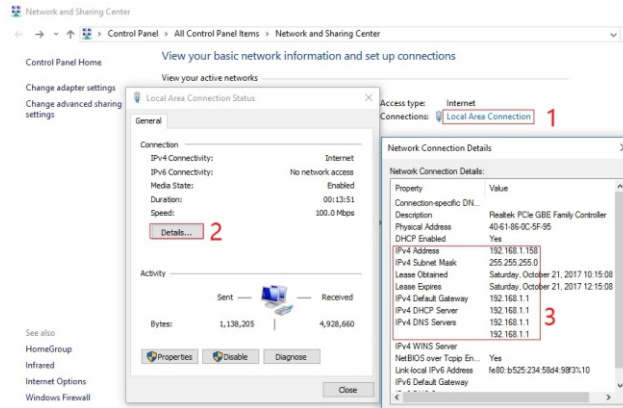
Note : you can also find out the LAN configuration via Windows



4

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 Prompting test

```
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, UC Client software and Internet Explorer.

The screenshot shows the 'IP camera search tools V5.0.4_20200107' application. The main window has a menu bar with 'Start Search', 'Report to Excel', 'Admin', and '123456'. Below the menu is a table of discovered cameras:

IP Address	HTTP	Model	Title Name	Preview	Firmware Version	Status	All
<input checked="" type="checkbox"/> 192.168.16.160	80	IM500W	Camera		IM500W_AF_V0_30_Y_BH-RTMP-HE_L V3.0.2.3 b...	Login success	close
<input checked="" type="checkbox"/> 192.168.16.161	80	IM500	Camera		IM500_AF_V0_30_Y_BH-HE_L V3.0.2.1 build 2...	14:59:53 Alarm action detect disappear	close

An 'IP address setting' dialog box is open, showing the following fields:

- 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

The 'Check' button is highlighted with a red circle. Below the dialog, a green message says 'IP address Checked OK.' and 'OK' and 'Cancel' buttons are visible.

At the bottom of the application, there are buttons for 'Batch Reset', 'Batch Backup', 'IP Batch Setting', 'SSID/SSID', 'Batch Set Language', 'Batch Sync Time', and 'Batch Set Password'. The 'IP Batch Manual Setting' button is highlighted with a red circle. Below these buttons, the file path 'C:\Users\Administrator\Desktop\Firmware_upgrade\IM500W_AF_V0_30_Y_BH-RTMP-HE_L_V3.0.2.3_b...' is shown.

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**;

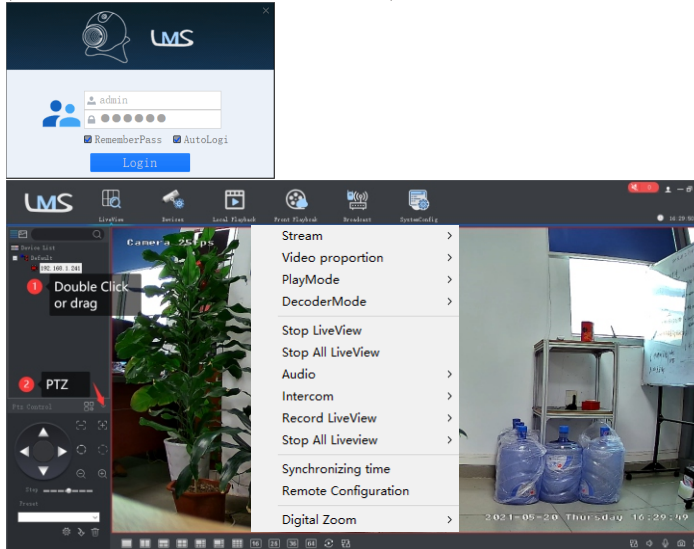
Video Preview -> Click **Preview** buttons;

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

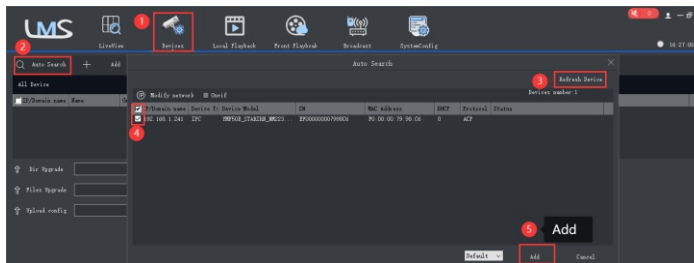
6

Using the LMS client software for Windows PC

(Default user name: admin, Password: 123456)

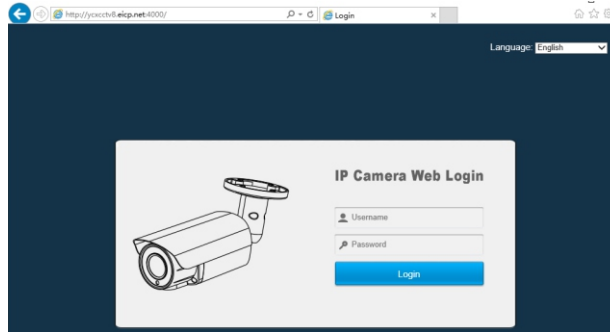


Go to the Devices Config and click Start search, all the camera in the LAN will be listed.

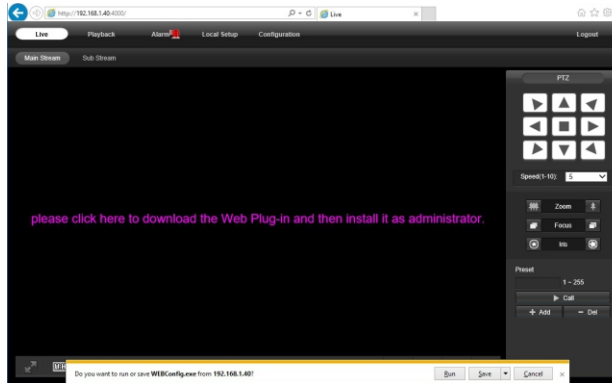


To access the camera's web interface, type in the IP camera's IP address in Internet Explorer's URL bar to gain access to the login page. Please modify IP address to the same subnet if login page can not load.

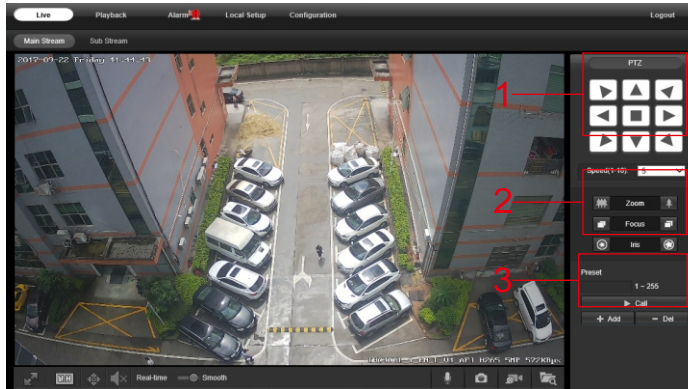
(Default user name: *admin*, Password: *123456*) Firefox ESR and IE are supported.



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. You can also install the **WEBConfig.zip** from the included CD if some uncertain problems happen during Web Plug-in loading. 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)

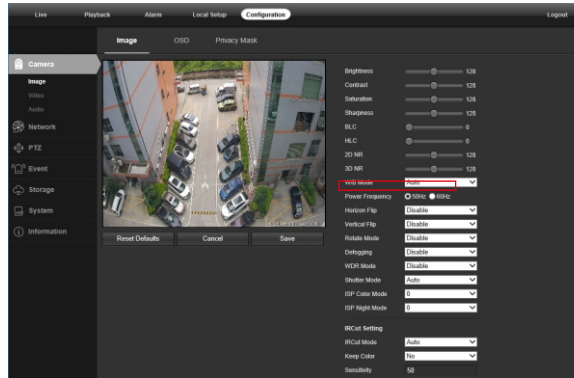
Keep Pressing on live video and dragging for **Digital Zoom**.

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.

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

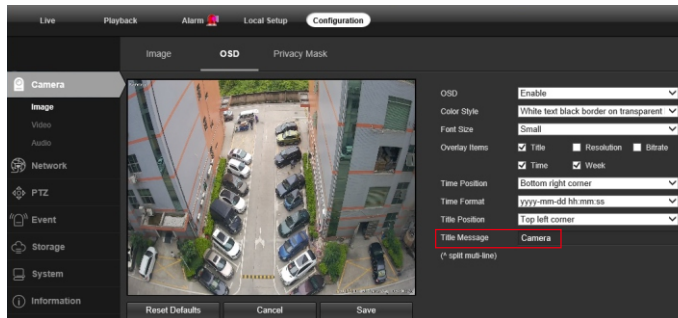
➤ Configuration > Camera > Image > Power Frequency

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

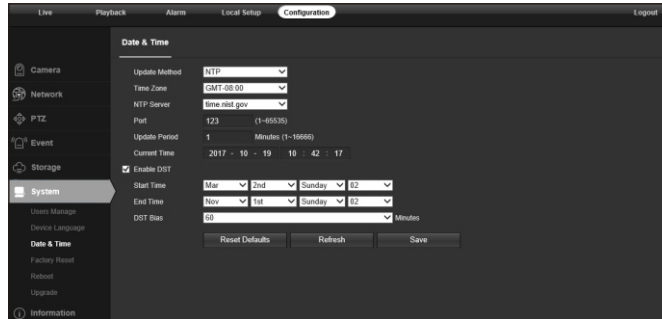
➤ Configuration > Camera > Image > OSD > Title Message





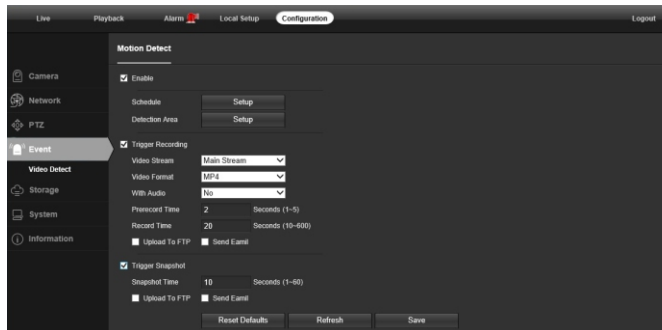
➤ Configuration > System > Time setup

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



- 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)
 - 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

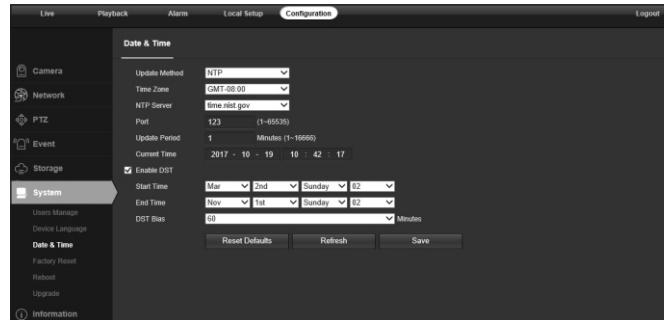
➤ Configuration > Event > Video Detection





➤ Configuration > System > Time setup

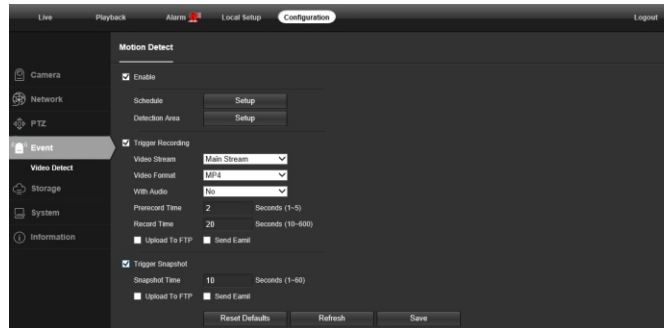
There are two time update modes available, **Manual** and **NTP**.



- 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.

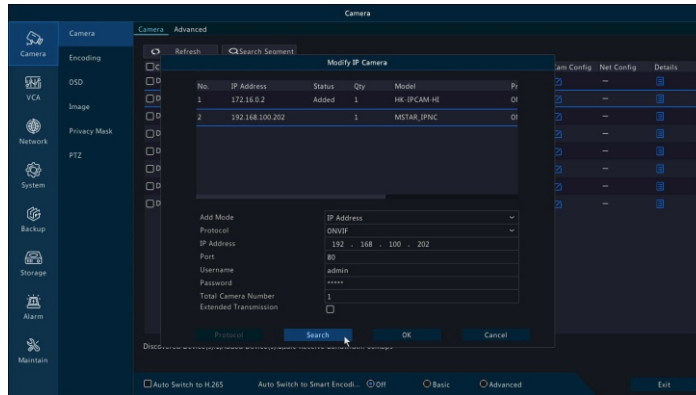
3) To enable Motion Detection Alarm

➤ Configuration > Event > Video Detection



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?
The camera is working in DHCP mode by default, it will obtain the IP settings from router automatically. Please install the IP search tool to find the camera's IP address. Camera IP address will be 192.168.0.123 if no router in the LAN.
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) VLC test Main Stream: `rtp://admin:123456@IP:554/stream0`
2) VLC test Sub Stream: `rtp://admin:123456@IP:554/stream1`
3) Low resolution snapshot: `http://IP/cgi-bin/snapshot.cgi?stream=1`
4) HD snapshot: `http://IP/cgi-bin/snapshot.cgi?stream=0` (some models support)
5. Why does the NVR not show image after adding 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 subnet. (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) add the IP camera via ONVIF protocol
2) change the NVR record mode to Motion Detection mode
3) 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 zoom by mobile app Danale
3) Roll the mouse wheel at the search tool preview window
4) Find the PTZ menu in your NVR to control lens zoom
8. Which kinds of third-party security software can be compatible with? Milestone, Avigilon, Pelco Vx Toolbox, Blue Iris, iSpy, Synology, Digifort