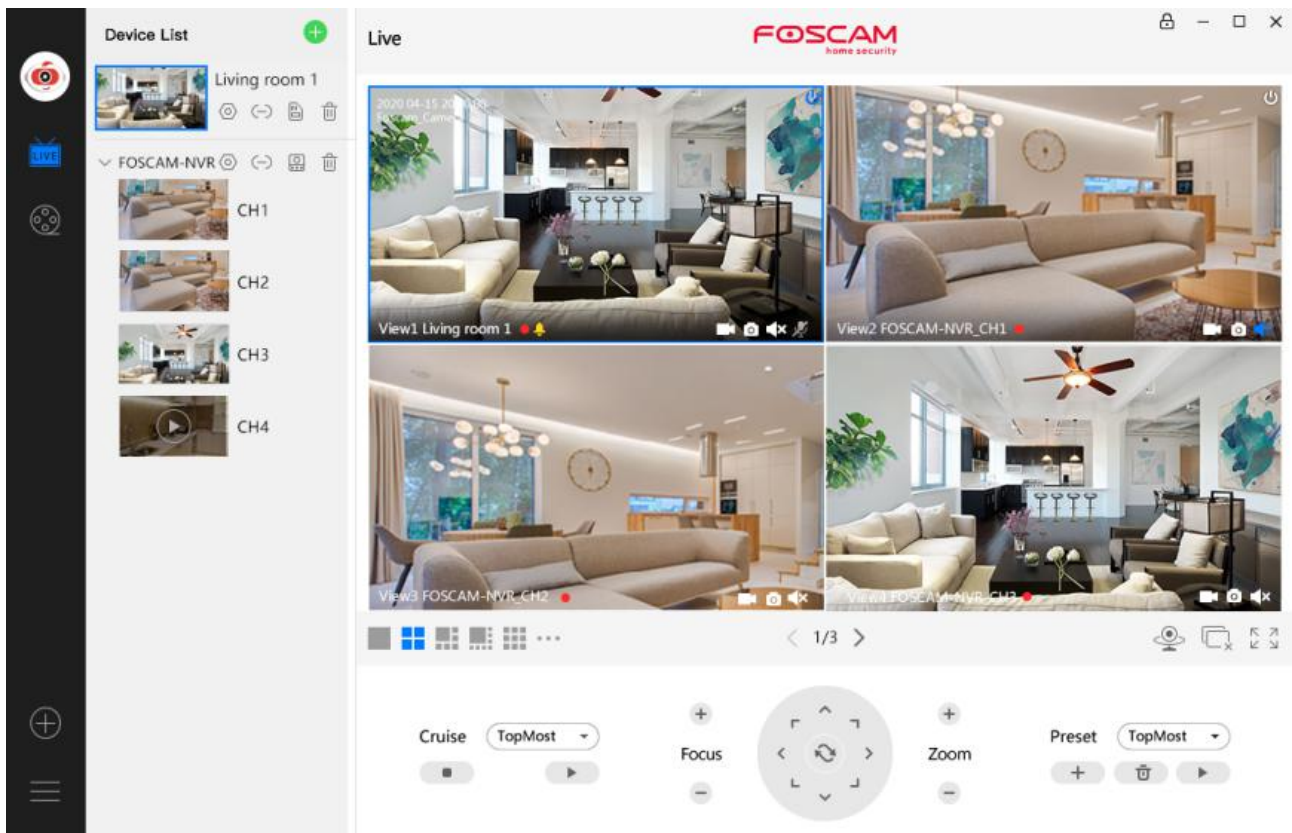


## Video Management System User Manual \_ For Windows



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# 1 Overview

FOSCAM offers the most comprehensive central management software video management system, it is a new tool for PC. It does not require plug-ins and is compatible with Windows & Mac, it supports all Foscam HD cameras and up to 36 cameras at the same time, as well as recording, playback, and alarm management with efficient control.

## 1.1 Key Features

- ◆ Powerful functions for multiple live views, real-time 36 channel live viewing
- ◆ Supports P2P/LAN/manual adding of devices
- ◆ Supports auto-adaption of the stream type of previewed video
- ◆ Supports surveillance window patrol automatically
- ◆ Web-based configuration page embedded in the client for all functions
- ◆ Intelligent Pan/Tilt camera control
- ◆ Supports Preset Positions
- ◆ Supports playback of recording files
- ◆ Supports multiple paths for saving the video
- ◆ Supports Log Management
- ◆ Motion detection alert via email or uploading an image to FTP
- ◆ Multi-level user management with password protection
- ◆ Supports setting connected devices

## 1.2 Software Installation

1. Enter the Mac version of the VMS download URL on the Mac computer Safari browser:  
[foscam.com/vms](http://foscam.com/vms).
2. Find "Foscam VMS(Win\_VersionXXX)", then click "For Windows 32 Bit" or "For Windows 64 Bit" depending on your downloaded Windows version.

Foscam VMS (Win\_Version 2.4)

Video Management Software for all Foscam HD Cameras and NVR kits.



For Windows 32 Bit



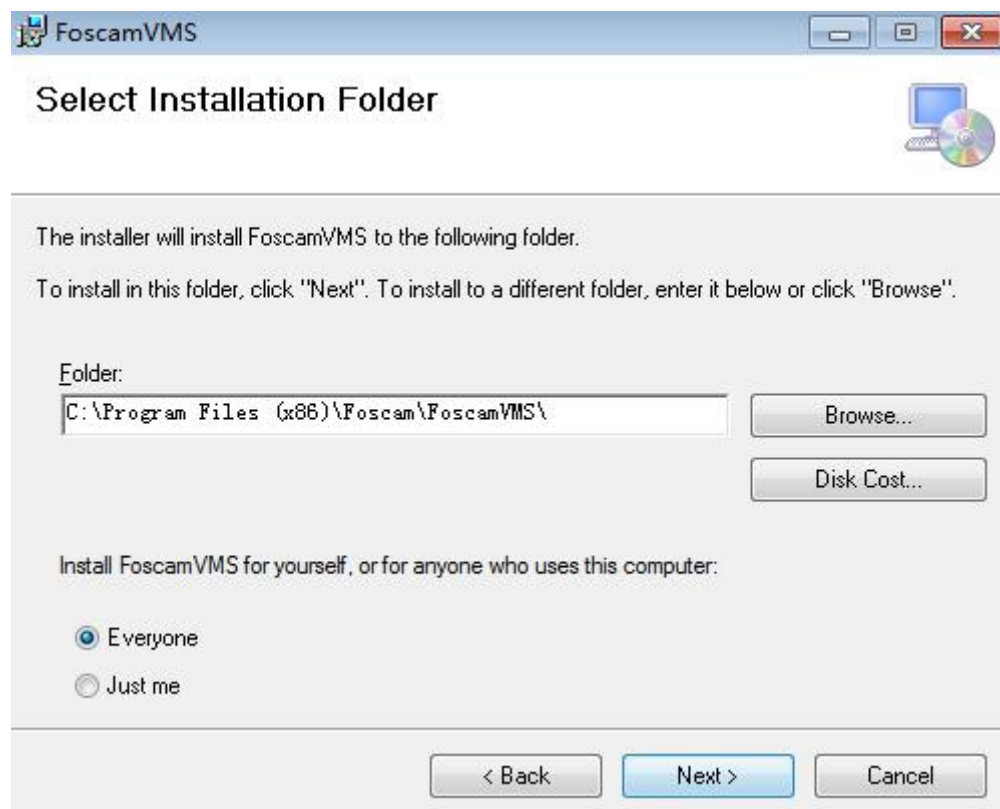
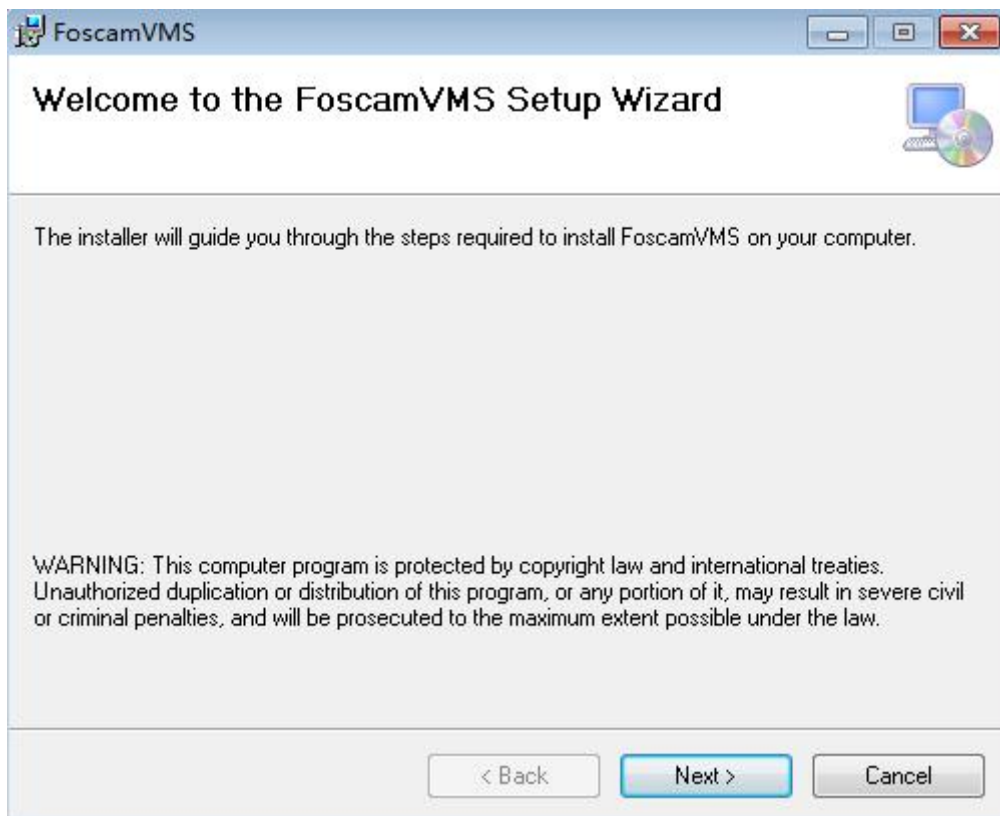
For Windows 64 Bit

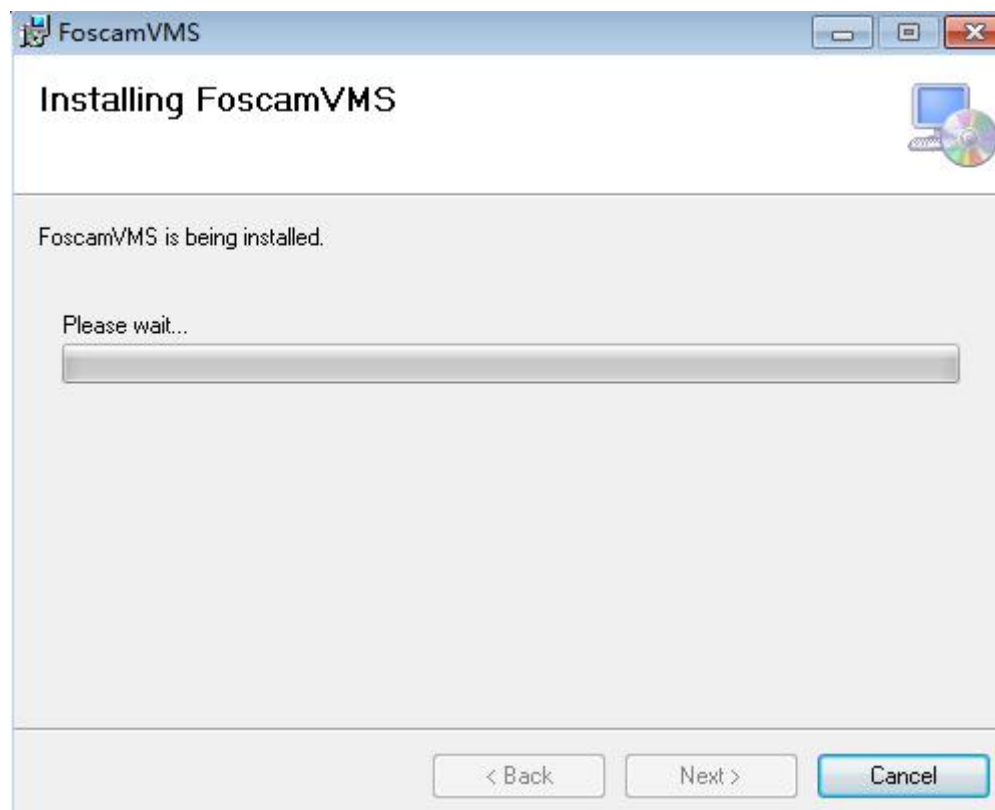
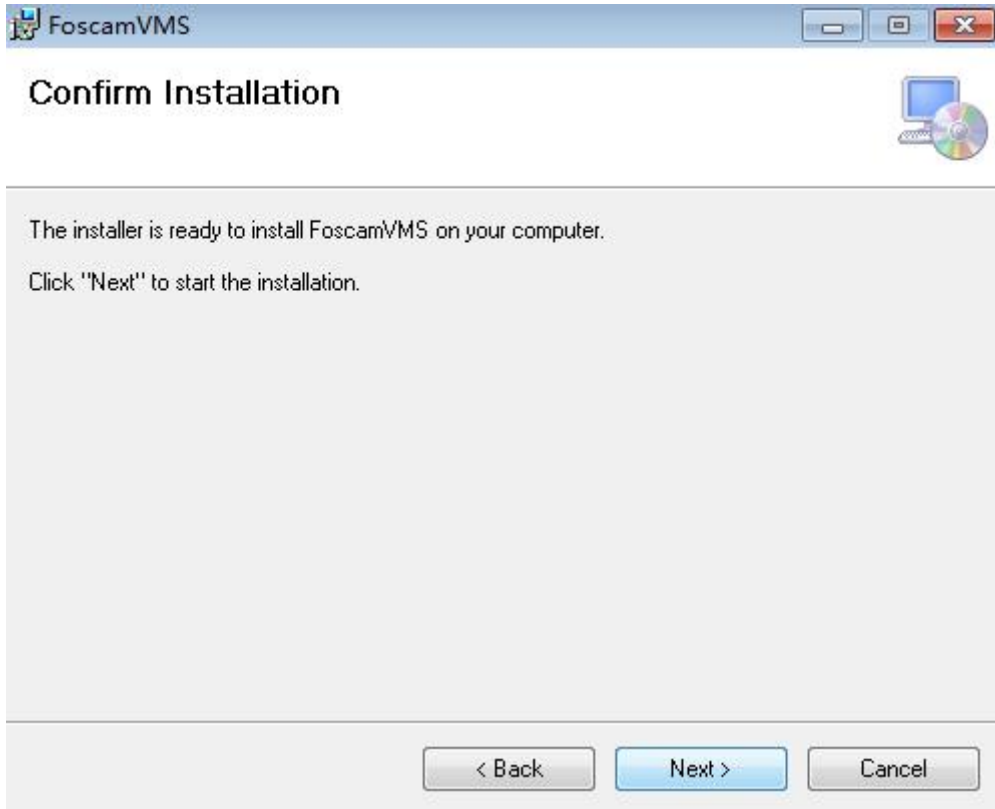
**Note:** Choose 32-bit or 64-bit according to your computer system.

3. After the download is complete, double-click the ".exe" file to install the FoscamVMS software.

4. Follow the Setup Wizard to finish installing the FoscamVMS software.

**Note:** If DirectX has not been installed on your computer, Direct X will appear during the installation process, otherwise, DirectX will not be installed







## Welcome to setup for DirectX

The DirectX setup wizard guides you through installation of DirectX Runtime Components. Please read the following license agreement. Press the PAGE DOWN key to see the rest of the agreement. You must accept the agreement to continue the setup.

MICROSOFT SOFTWARE LICENSE TERMS  
MICROSOFT DIRECTX END USER RUNTIME  
These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft  
\* updates.

- I accept the agreement  
 I don't accept the agreement

< Back

Next >

Cancel



## We are pleased to offer you the FREE Bing(TM) Bar.

Try the Bing Bar today!

- A fast way to search and make decisions
- Easy access to entertainment, breaking news, videos, and more
- Up-to-the-minute headlines at the click of a button

Install the Bing Bar

By installing the Bing Bar, you agree to the [Microsoft Service Agreement](#) and [Privacy Statement](#).

You'll get future updates to Bing Bar and other Microsoft products from [Microsoft Update](#). This software may also download and install some updates automatically.

< Back

Next >

Cancel

Installing Microsoft(R) DirectX(R)

**DirectX Setup**

Install DirectX runtime components



**Installing components:**

Initializing...

< Back

Next >

Cancel

Installing Microsoft(R) DirectX(R)

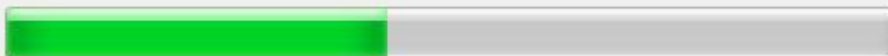
**Progress**

Please wait while Setup completes the following actions.



**Downloading Bing Bar(TM)**

Installing Bing Bar(TM)

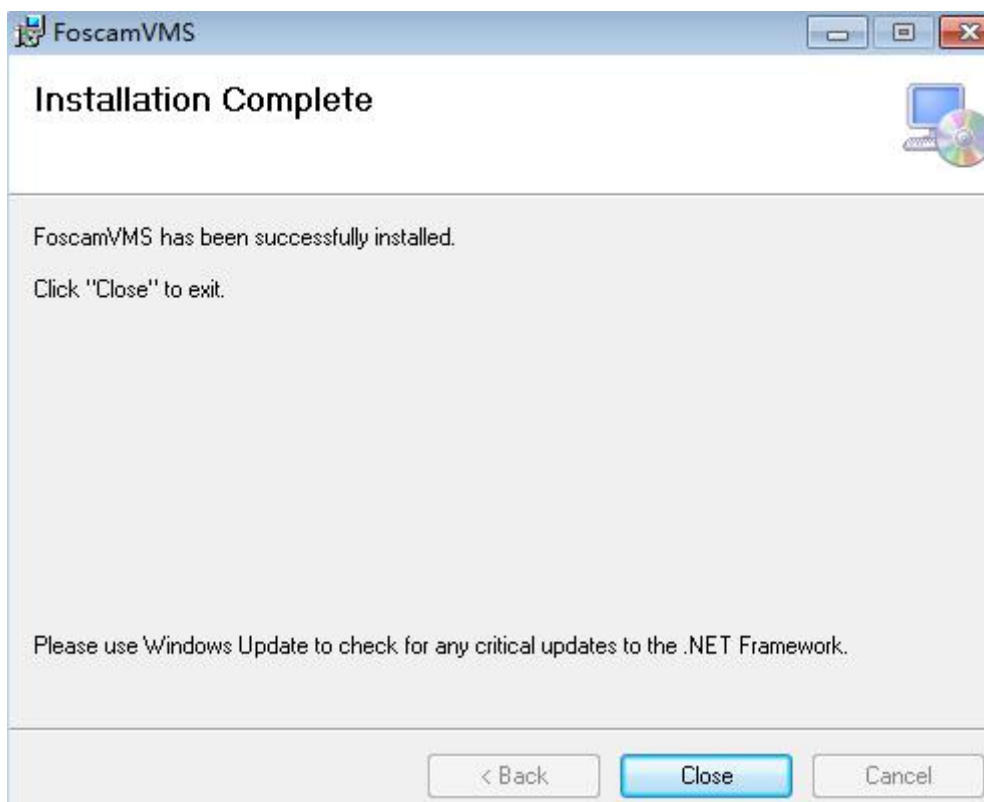
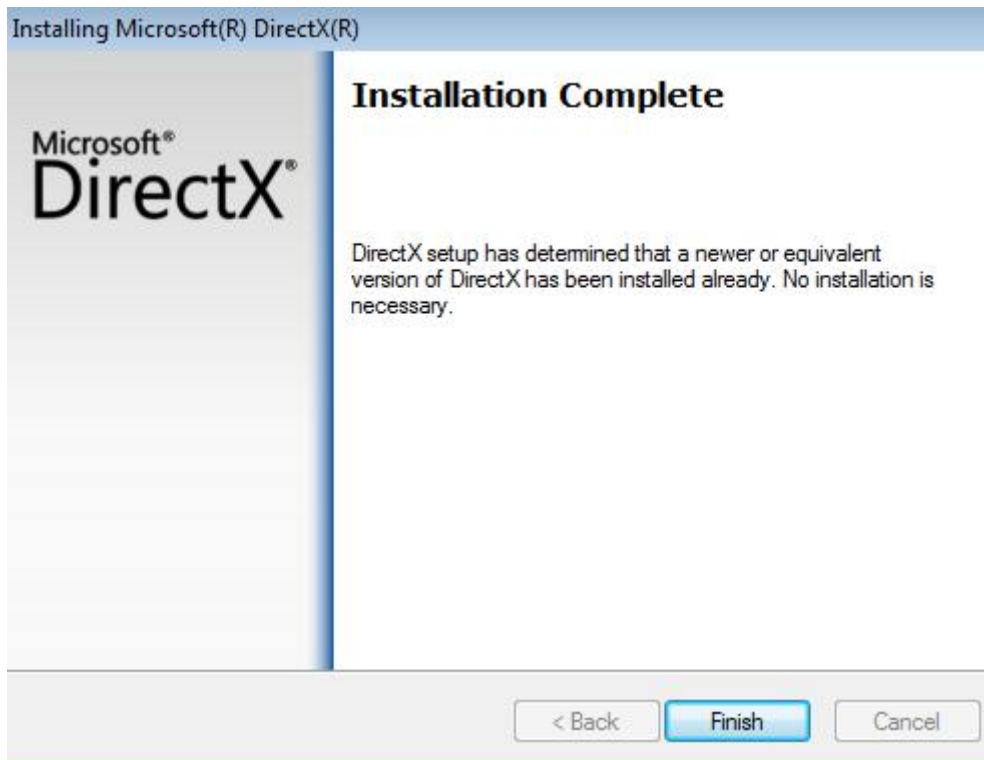


< Back

Next >

Cancel





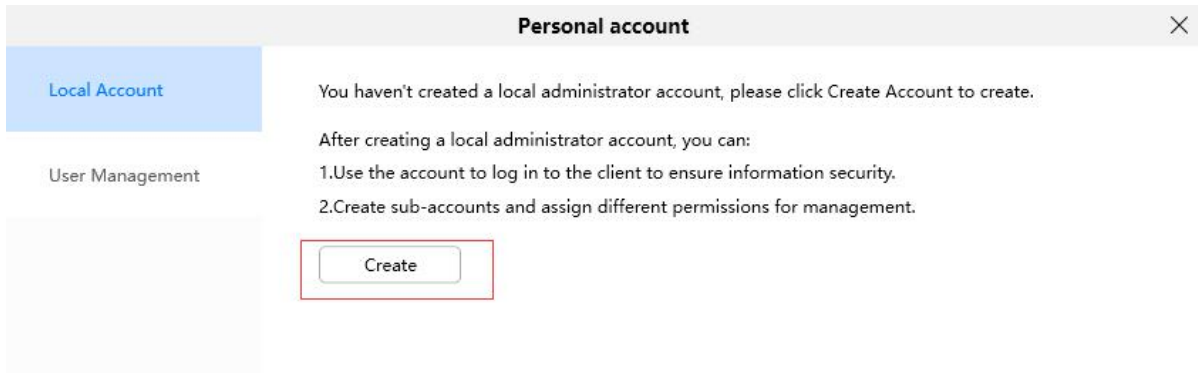
## 2 Surveillance Software GUI

After finishing the software installation, you can take time to learn the operation of the software.

## 2.1 Create Account


You can create a local administrator account.

For security, it is strongly recommended to create local accounts and password management, which prevents the entry of intruders.




You are creating a local administrator account.


This account is a local administrator account and will not be uploaded to the cloud. Please remember your password. If you forget your password, delete the Data directory in this software path and reboot.




The maximum username length is 20, including numbers, letters and symbols



The password should be a combination of 6-12 digits, letters, symbols



## 2.2 Login Window

After creating an account, or Double click the shortcut icon  and it will show the login window:

Video Management System

1

2

3

### Section1 Username & Password

Enter the Username & Password

### Section2 Remember / Auto Login

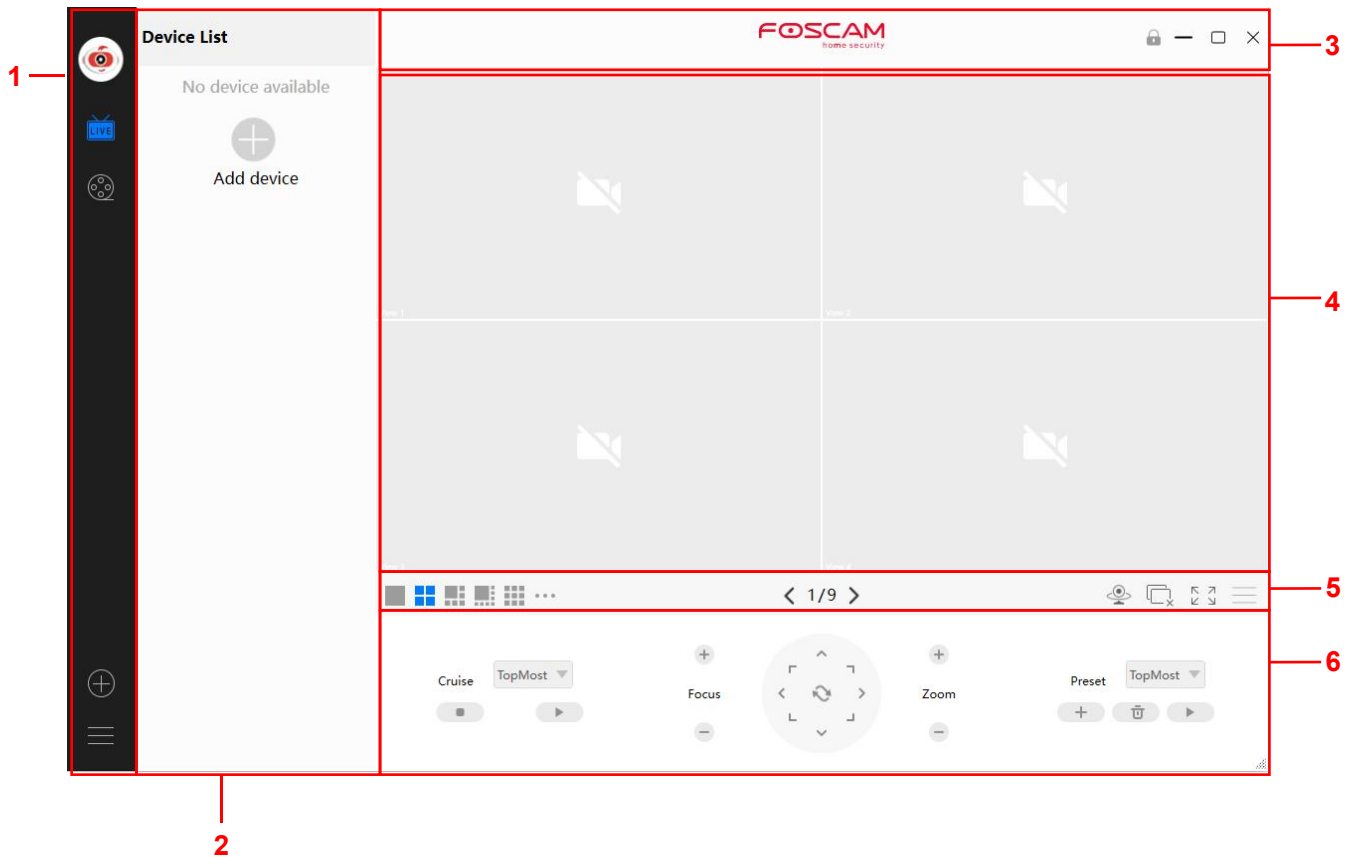
Selecting **Remember**, you don't need to re-enter the username & password when log in next time.

Select **Auto Login**, when you log in next time, the login window won't appear, and you can see the surveillance window directly.

### Section3 Login & Cancel

Click Login button to login the software.

## 2.2 Surveillance Window



First time you log into the software, the whole video window is gray, you need to connect the cameras and add cameras to it.

### 2.2.1 Section 1 Menu Bar




icon

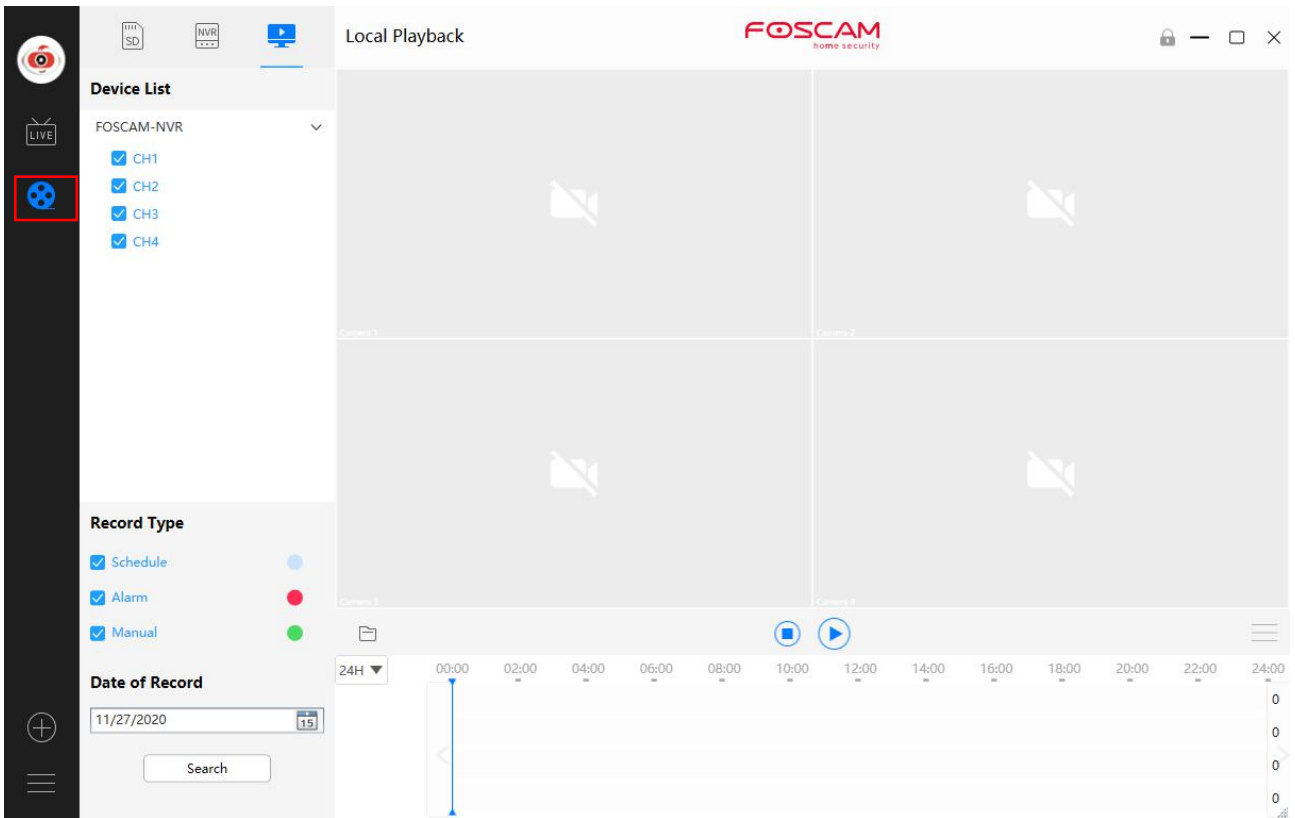



Device List, click the button, you can show the camera information list

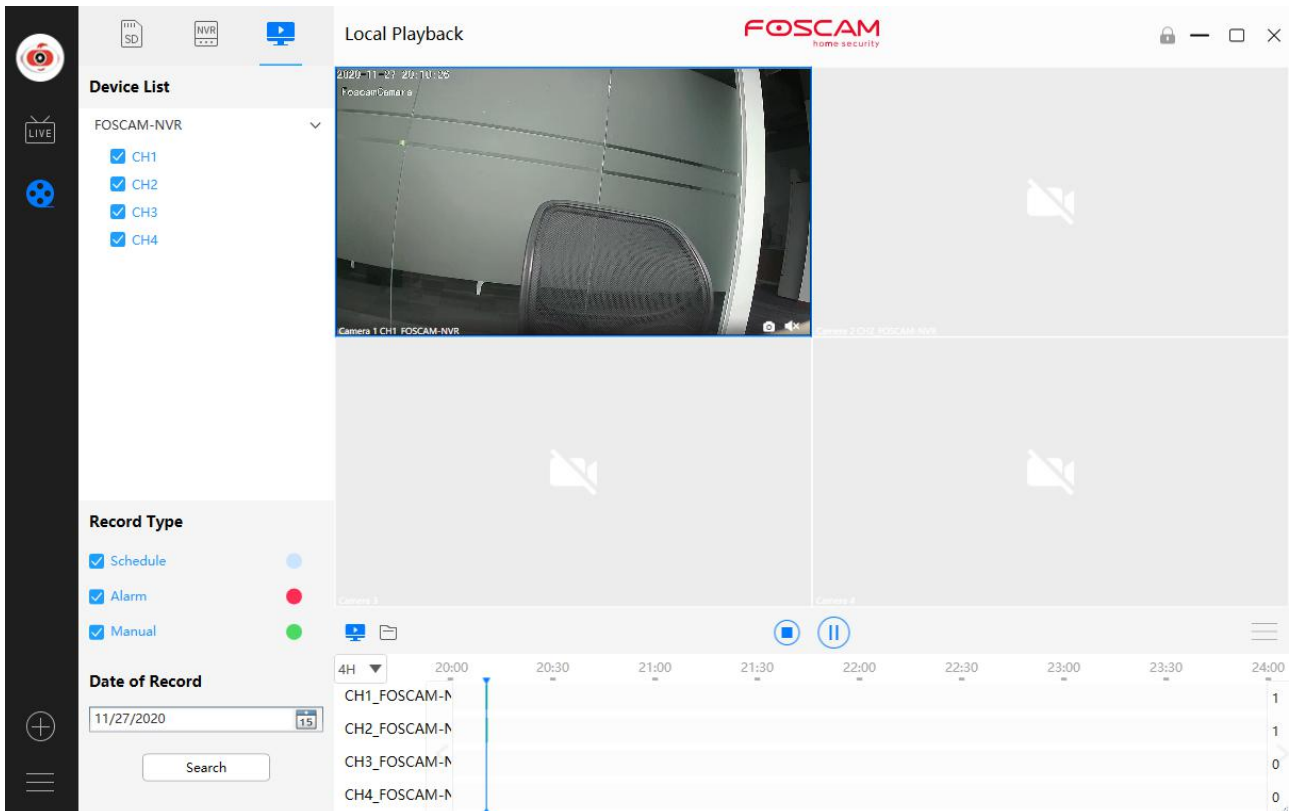



Playback, playback the video recording and view Snap Shot pictures.

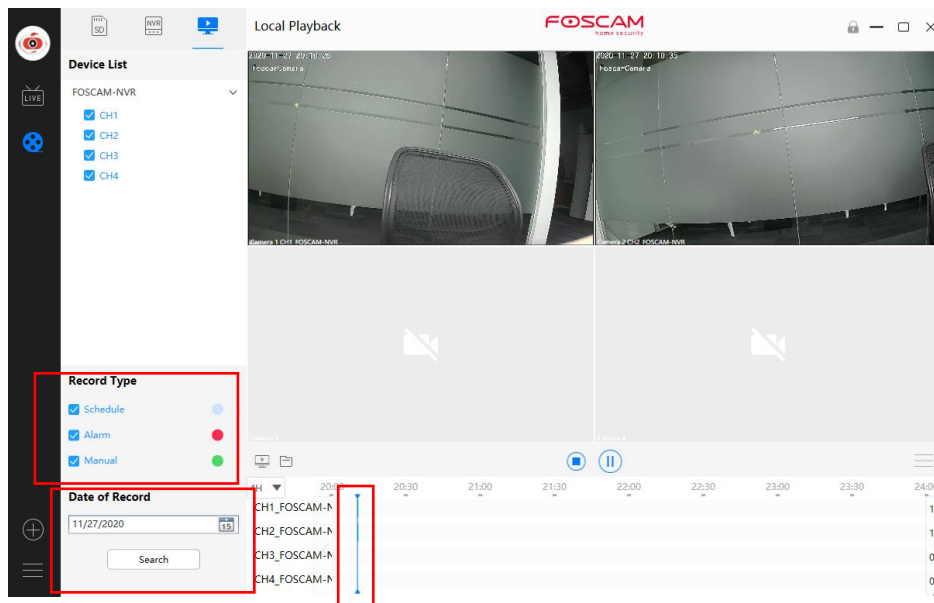
1. Click this button  to enter the Playback interface.





2. Click the Local Playback  icon to enter the Local Playback video playback page. Video playback supports up to four channels for simultaneous viewing, so the retrieval device can select up to four channels, and the video types can be selected from local recordings, alarm recordings, and manual recordings. The retrieval date can be selected. The retrieval time zone defaults to 24 hours, and the retrieval time zone can be modified independently.

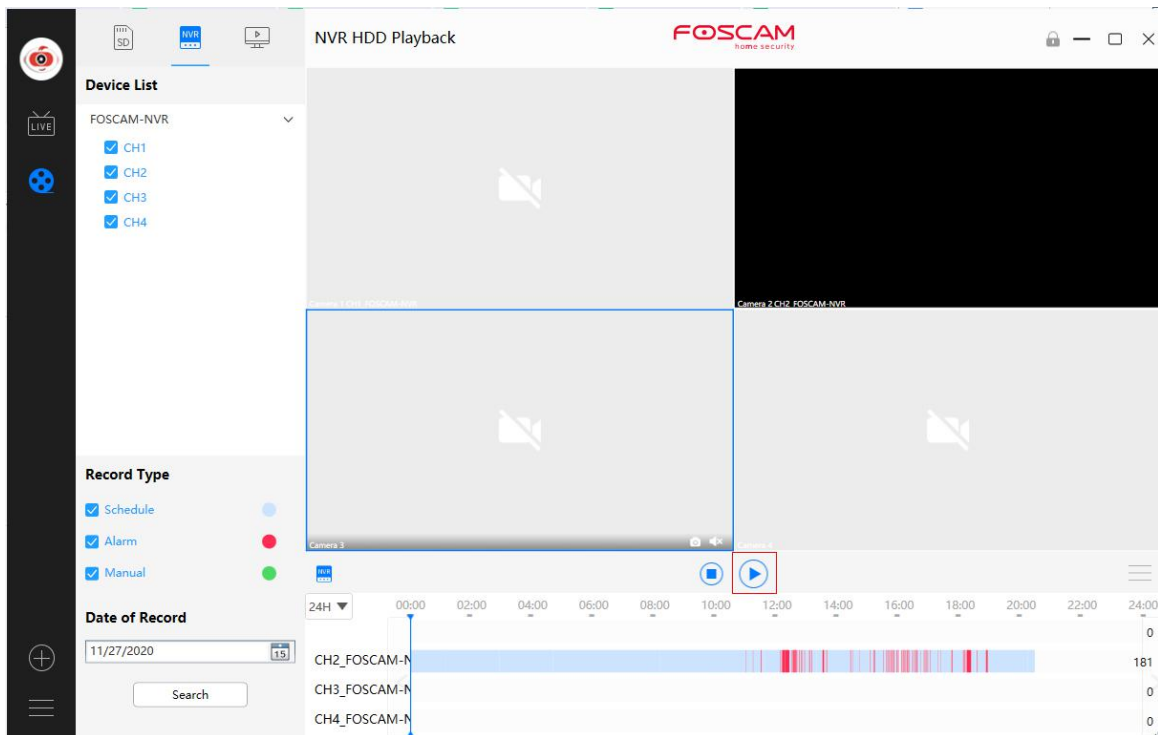
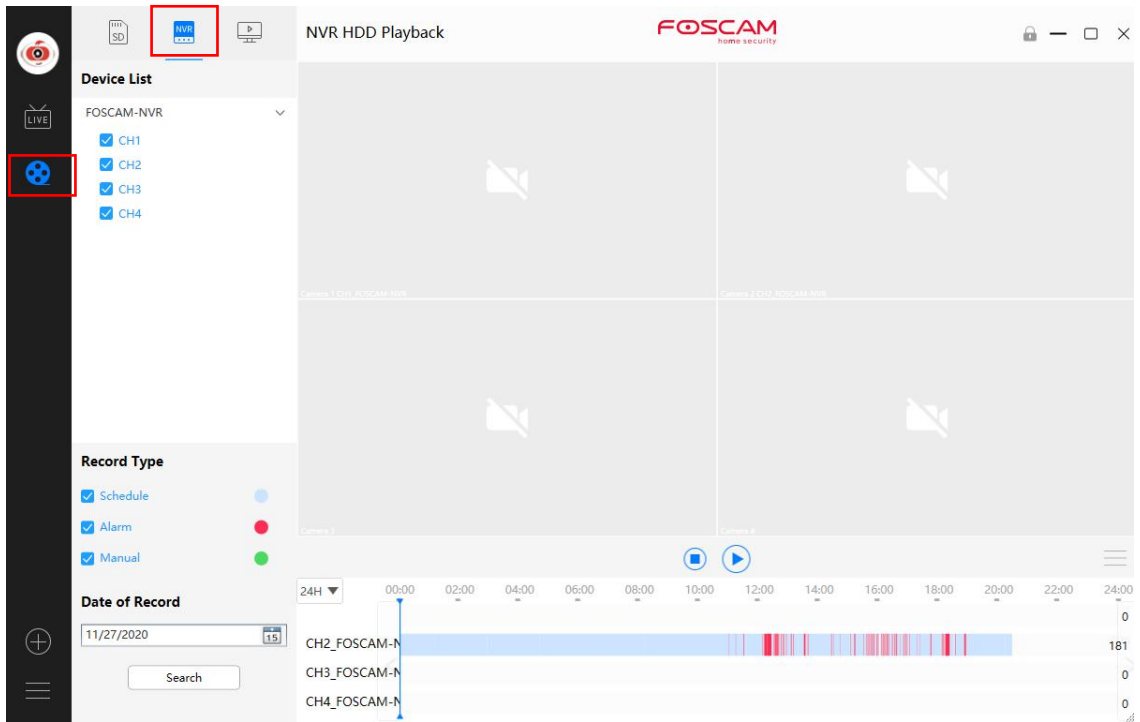



3. Click search, if there is a video in the search date, it will be displayed. Double-click the record video on the timeline to play the video, or click the  the icon to enter the storage directory, select the video file and open it with a video player.

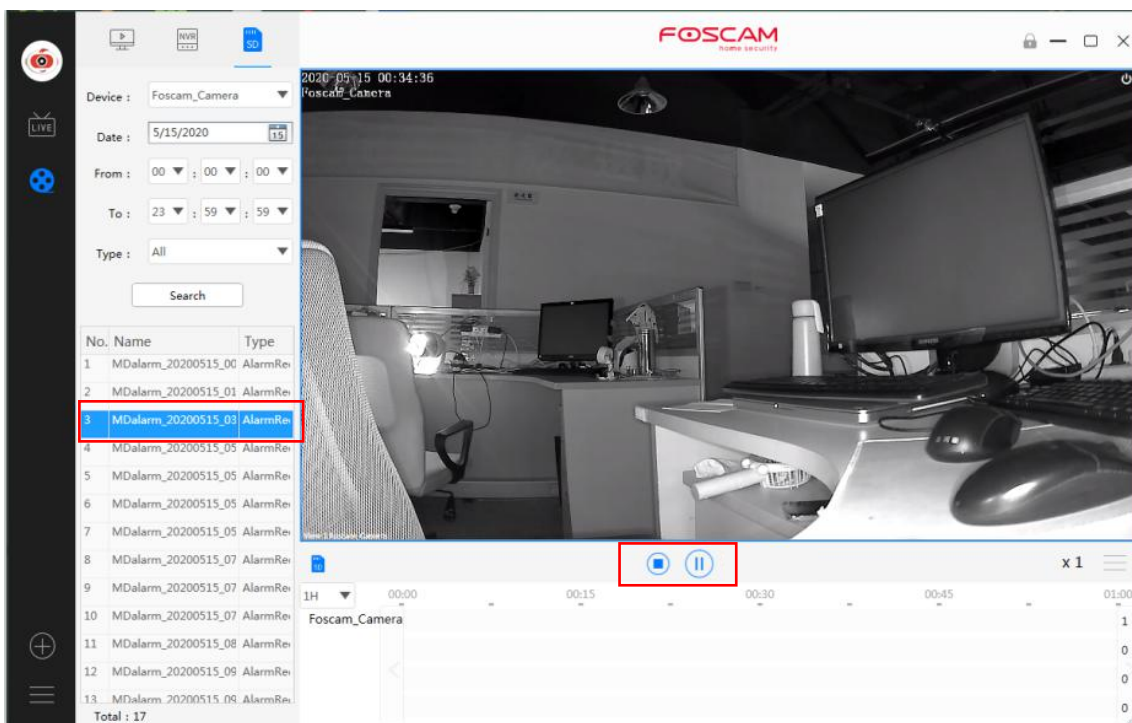
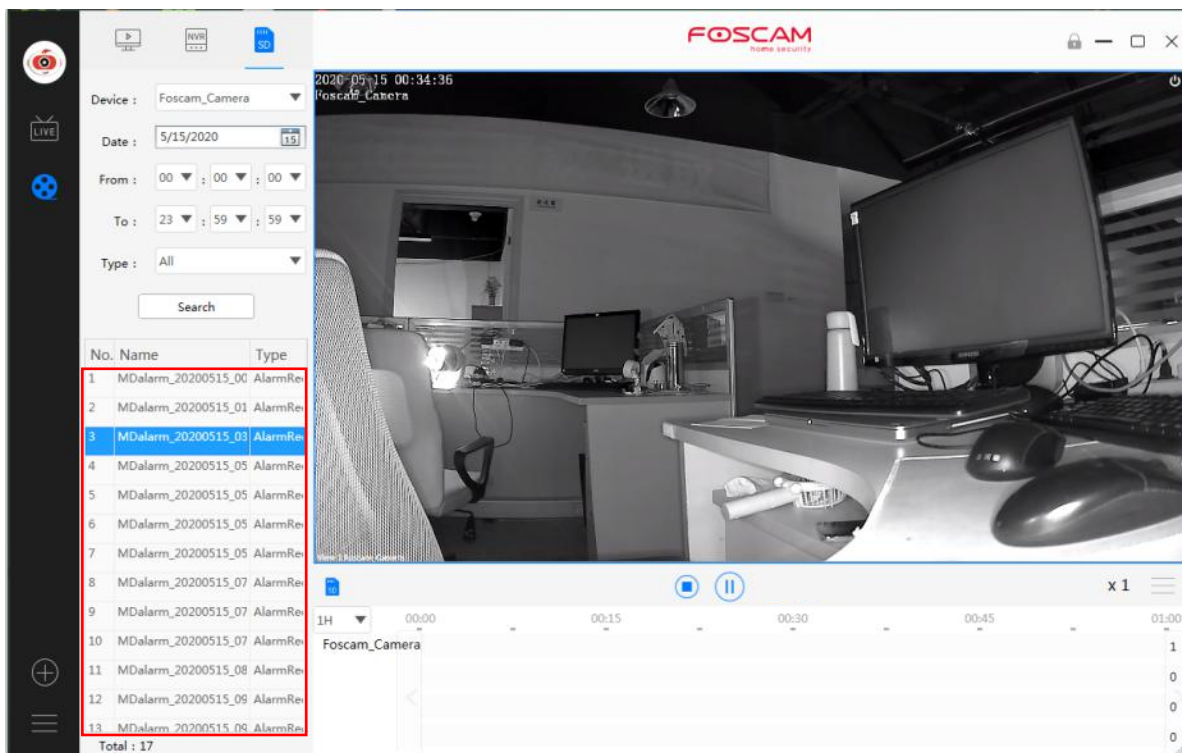


FN7104W_0088030802DD	2020/4/20 11:30
MDS2010_A0E6FB6FAB01	2019/10/14 16:02
MDS2020_00626EE96E3C	2019/10/16 10:11
MPS4010_A0E927031094	2020/5/15 11:50
Opticam_NVR_Wireless_2_008803080...	2020/4/29 19:37
R4 V2_BCDECCDD0227	2020/5/15 11:54
R4C_00626E944001	2019/10/15 15:48

Click the NVR icon  to enter the NVR video playback page, select the channel of the device added to the NVR, select all alarm types, the search date will defaults to the current date of the computer, click search and click  to play the video.



4. Click the SD card  icon to enter the SD card video playback page. The retrieval device can only be a camera. You can select the retrieval date and retrieval time, select the recording type, and select a video to open after searching the SD card recording.



Click this button to add device.



Click the Add Device button , then follow below these steps:

### LAN add

Step 1 Select "ALL" from the device types.

Step 2 Click the IP address of the camera on the list, then the name of the camera and the IP information will be entered automatically.

Step 3 Click Add.



**Add Device** ✕

Device type :  All  IPC  NVR Refresh

Name	Device type	IP	Port	MAC
Foscam_Camera	IPC	192.168.1.246	88	A0EE6F154E85

[+ Connect the camera to WIFI](#) ?

1 device(s)

Step 4 Enter the username and password of the camera.

**Device account** ✕

Please enter the device account and password for your device.

Device account :

Password :

### Manually Add via IP

Step 1 Click the Manually Add button

**Add Device** ✕

Device type :  All  IPC  NVR [Refresh](#)

Name	Device type	IP	Port	MAC
Foscam_Camera	IPC	192.168.1.246	88	A0EE6F154E85

[+ Connect the camera to WIFI](#) ?

1 device(s)

- Step 2 Select the IP address from Connection Mode
- Step 3 Enter the IP and Port of the camera.
- Step 4 Select "IPC" or "NVR" from the Device types.
- Step 5 Click Add

**Add Device** ✕

Connection mode :

UID

DDNS  Port :

IP address  Port :

Device type :

IPC

NVR

Step 6 Enter the username and password of the camera.

**Device account** ✕

Please enter the device account and password for your device.

Device account :

Password :

### Manually Add via DDNS

Step 1 Click Manually Add button

**Add Device** ✕

Device type :  All  IPC  NVR [Refresh](#)

Name	Device type	IP	Port	MAC
Foscam_Camera	IPC	192.168.1.246	88	A0EE6F154E85

[+ Connect the camera to WIFI](#) ?

1 device(s)

Step 2 Select the DDNS from the Connection Mode

Step 3 Enter the DDNS and Port of the camera.

Step 4 Select "IPC" or "NVR" from the Device types.

Step 5 Click Add

**Add Device** ✕

Connection mode :

UID

DDNS  Port :

IP address  Port :

Device type :

IPC

NVR

Step 6 Enter the username and password of the camera.

**Device account** ✕

Please enter the device account and password for your device.

Device account :

Password :

### Manually Add via UID

Step 1 Click Manually Add button

✕
Add Device

Device type :  All  IPC  NVR ↻ Refresh

Name	Device type	IP	Port	MAC
Foscam_Camera	IPC	192.168.1.246	88	A0EE6F154E85

+ Connect the camera to WIFI ?

1 device(s)

Add
Cancel
Manual add

- Step 2 Select the UID from Connection mode
- Step 3 Enter the UID of the device.
- Step 4 Click Add

✕
Add Device

Connection mode :

UID

DDNS  Port :

IP address  Port :

Add
Cancel
LAN add

- Step 5 Enter the username and password of the camera.

Device account ✕

Please enter the device account and password for your device.

Device account :

Password :

## Wi-Fi Connection

**Step1** Click Connect the camera to Wi-Fi or the + button

Add Device ✕

Device type :  All  IPC  NVR ↻ Refresh

Name	Device type	IP	Port	MAC
Foscam_Camera	✓ IPC	192.168.1.246	88	A0EE6F154E85

+ Connect the camera to WIFI ?

1 device(s)

**Step 2** Enter the **WiFi Name** and **WiFi Password**, then click **Next**

**Note:** Please reset your camera.

×**Connect wireless camera to WiFi**



Reset

Please reset your camera and input the WiFi informations

WiFi Name :

WiFi Password :


**Step 3** Please scan the QR code above with the camera you want to add. After the scan is successful, click confirm.

×**Connect wireless camera to WiFi**

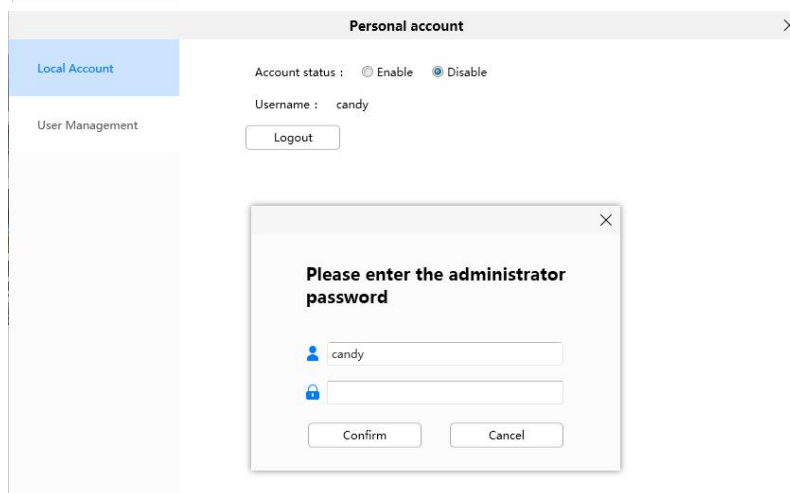
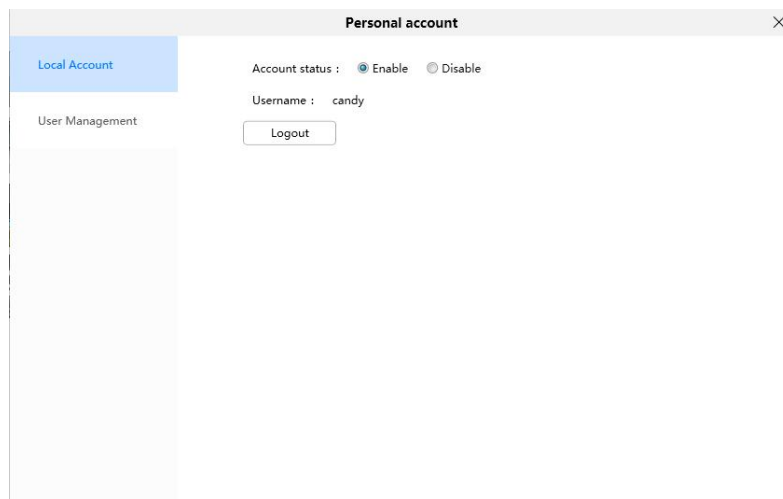



Please scan the QR code above with the camera you want to add. After the scan is successful, return to the device list to connect the device.

**Step 4** Return to the device list to connect the device, refer to the **LAN add steps**

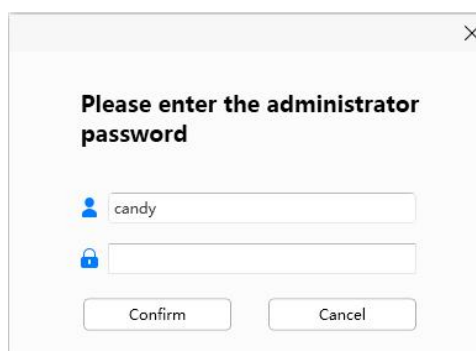
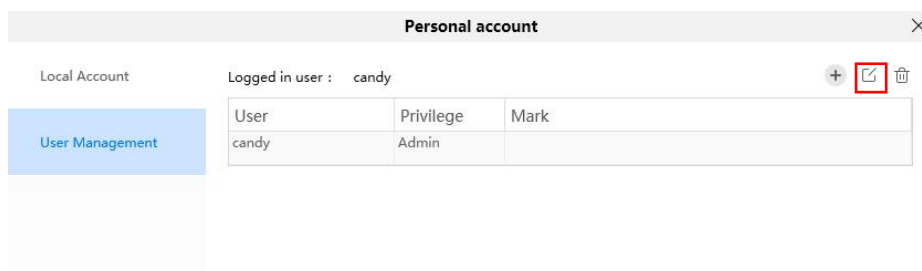
 **More Setup:** You can Set Personal Account, Preference Settings, Log Query and Switch Account.

- 1. Personal Account - - Local Account** Click Personal Account to enter the personal account page. On the local account page, you can choose whether to enable account login. If you choose not to enable it, you need to verify the administrator username and password. The next time you log in to FoscamVMS, you can use it without account login.



**Account Management** Click Personal Account to enter the User Management page. you can click the  button to modify the administrator password and add an operator or guest account. You need to verify the administrator account and password before performing operations. After switching to the guest or operator account to log in to FoscamVMS, the device list page cannot be used to perform device settings, view SD card or NVR hard disk recording, delete devices, etc. (see the following picture)

**Modify:**





**Edit account** ✕

Username :

The maximum username length is 20, including numbers, letters and symbols

Password :

The password should be a combination of 6-12 digits, letters, symbols

Confirm password :

Privilege :  Admin

Remark :

**Add User:**

**Personal account** ✕

Local Account Logged in user : candy + 📄 🗑️

User Management

User	Privilege	Mark
candy	Admin	

**Please enter the administrator password** ✕

Please enter the administrator password

**Create Account** ✕

Username :

The maximum username length is 20, including numbers, letters and symbols

Password :

The password should be a combination of 6-12 digits, letters, symbols

Confirm password :

Privilege :  Operator  Visitor

Remark :

Personal account		
Local Account	Logged in user : candy	+ ✎ 🗑
User	Privilege	Mark
candy	Admin	
1	Operator	

**2. Preference - Basic Settings** By clicking the Preference settings to enter the basic settings page, you can view the Snapshot path directory and Record path directory, you can see Local free space of the machine, you can modify the Patrol time of the patrol function of the live video page, set the stream type of the previewed video and other settings functions, such as Loop recording, Automatically returning to the last layout, automatically starting up at boot, Search Automatically and Auto Login

Preference ✕

Basic Settings

Record Settings

Screenshot path :

Record path :

Live cruise time :  (5s-3600s)

Preview video stream type :  Default  Main stream  Sub stream

Automatic startup at boot :

**Recording Setting** Click Preference settings to enter the Recording settings page, Select Local recording, Record mode, Schedule recording, Alarm Recording and Alarm capture, plan date selection using the left mouse button to check, right button to cancel, you can choose to save settings to all devices or single settings to save.

Preference ✕

Basic Settings

Record Settings

Local recording :  On  Off

Record mode :  Unified  Independent

Schedule recording :  On  Off

Alarm Recording :  On  Off

Alarm capture :  On  Off

Schedule

All	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Mon.																									
Tues.																									
Wed.																									
Thur.																									
Fri.																									
Sat.																									
Sun.																									

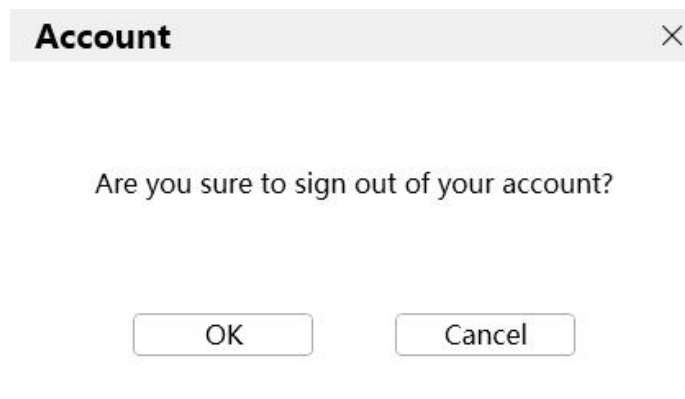
**3. Log Query** Click Log Query to enter the Log Query page, On the local account page, Select the search start date and end date, click refresh to see the search results.

Log Query				
From :	5/15/2020	To :	5/15/2020	Search
No.	Time	User	Privilege	Log
1	2020-05-15 09:28:03	Tourist	Tourist	Login
2	2020-05-15 11:33:11	Tourist	Tourist	Create Account: candy
3	2020-05-15 11:36:58	Tourist	Tourist	Logout
4	2020-05-15 11:37:10	candy	Admin	Login
5	2020-05-15 15:01:31	candy	Admin	Logout
6	2020-05-15 15:03:22	candy	Admin	Login
7	2020-05-15 15:09:07	candy	Admin	Logout
8	2020-05-15 15:13:11	candy	Admin	Login
9	2020-05-15 15:13:24	candy	Admin	Login
10	2020-05-15 16:59:35	candy	Admin	Create Account: 1
Total : 10				

**4.Left Bar**

Clicking the Left Bar can hide or show the Left Bar.

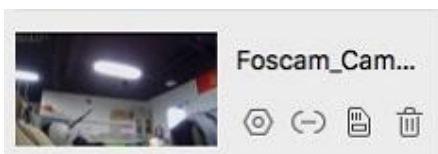
**5. Switch Account** Click Switch Account, Click OK to exit and return to the login page.



**2.2.2 Section 2 Left Bar Device List**



Add device, Refer to 2.2.1 Section 1 Menu Bar



Device List

**Left Bar of Live:** You can view the list of connected cameras



### 1 - Setup

Click the Settings button, go to **Device Settings** Control Panel to make advanced camera settings. For details, please refer to 3 Advanced Settings.

### 2 - Device Connection Account

Click the Settings button, go to connection Settings

#### Connection Settings

If the device's username or password is modified outside the vms, please correct it here.

Device Name : Foscam\_camera

IP :

Port :

Device Account :

Password :

### 3 - SD Card

This camera does not support the SD card function. This function is not available

### 4 - Delete

Click the button, Delete the device.

## 2.2.3 Section3 FOSCAM Logo/ Lock/ Minimize/ Maximization/ Close



Lock, click the button, the lock is enabled, after locking, you can only watch the live, Section5 Live cruise, Section5 Full screen and Section6 Pan / Tilt Control. Restore after unlock, to unlock you must enter the administrator password.

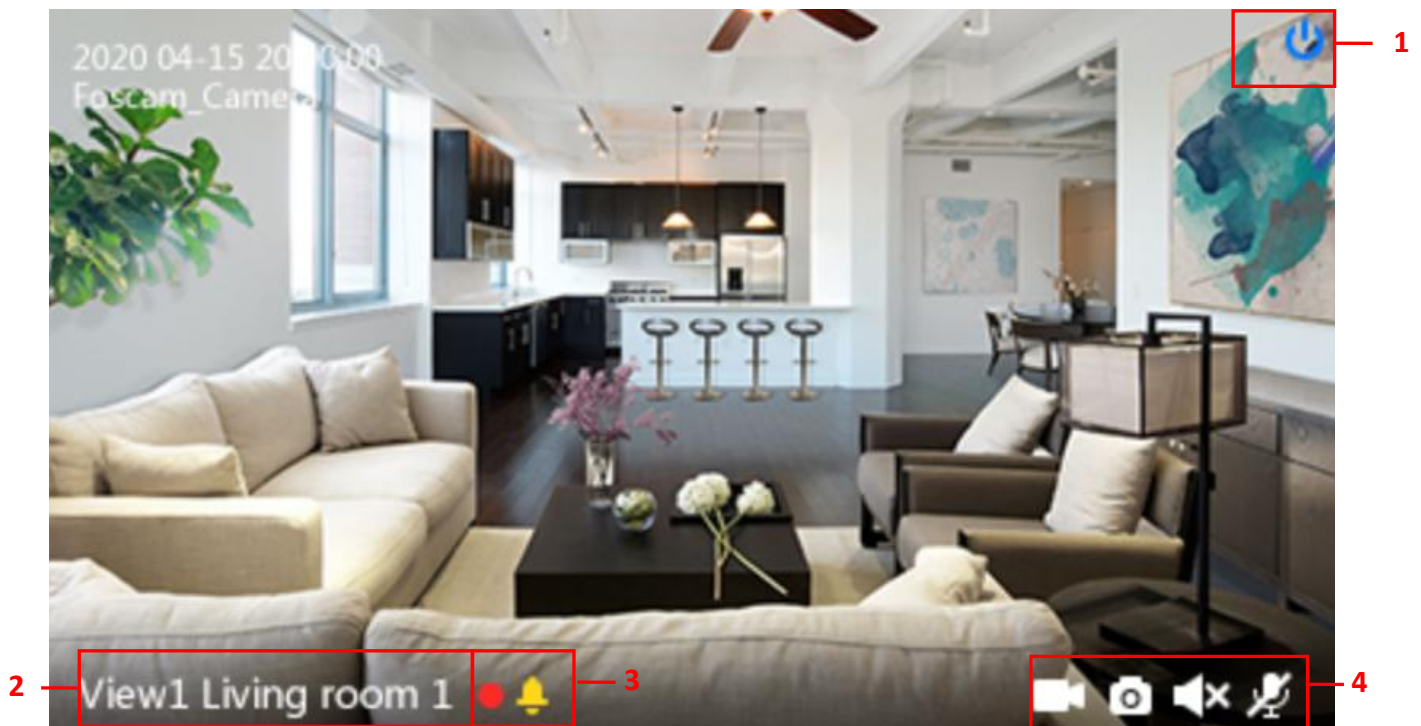
### Please enter the administrator password

✕ Close the program. Click the close button, the login window will pop up, enter the username and password to login, then VMS will be closed.

— Minimize the program

□ Maximization the program

## 2.2.4 Section4 Live Window



### 1 - Close


Click the icon to close this channel live window

### 2 - Device Name

Show view channel and camera name.

### 3 - Recording and Alarm status

 This icon will turn to red, it indicates that the camera is recording

 This icon will turn to yellow, the motion is detected during the detection time in the detection area, the camera alarm will adopt the corresponding alarm indicators

### 4 - Record / Snap Shot / Sound / Talk button




Record   Snap Shot   Sound   Talk

**Record** - Click it and do manually recording. When recording, icon 1 will turn to blue. Click it again and stop

recording. The recording files will be stored to C disk automatically

**Snap Shot** - Click it to make snapshot. After snapshot, the button banner will prompt **Captured Successfully**. And

you can find the picture on default  Record.

**Sound** - Click the icon then you will hear sound captured by the camera's built-in microphone. You may need to plug in earphones or enable the computer speakers to hear from the camera's microphone. Make sure the camera supports audio. Click again and stop audio.

**Talk** - Click the button, then talk to the microphone that is connected to the PC, people around the camera can hear your voice. Click the icon again and stop talking.


## 2.2.5 Section5 the number of split-screen Live Cruise / Close All / Full Screen / Hide Bar


Click this button to select the number of split-screen on one page.



The client can monitor many cameras on one page, here you can choose the display number. The maximum number is 36



**Live Cruise** - Click this button to Live Cruise, you can click  button to add a loop page for live

Cruise or click  button to reduce the loop page for live Cruise. After a channel live page is displayed for 20 seconds, it will go to the next channel live page without stopping to poll.



**Close All** - Click this button to close all live, after clicking OK, all live broadcasts are closed.



**Full Screen**- Click this button to enter full screen, Click this button to enter full screen, then click to exit full screen.

## 2.2.6 Section6 Pan / Tilt Control



### ● Cruise Settings



The default cruise tracks have two types: Vertical and Horizontal.

Vertical: The camera will rotate from up to down.

Horizontal: The camera will rotate from left to right.

: Start cruise. : Stop cruise.

If you want to define or change the cruise trace, please go to **Device Settings** → **PTZ** → **Cruise Settings** panel.

## How to cruise?



**Firstly:** Select one track in the track dropdown list.



**Secondly:** Click Start cruise button, the camera will cruise following the predefined path.

**Thirdly:** Click stop button and finish cruising.

### ● Zoom in” or” Zoom out”

Click  or  , The focal length of the camera lens will grow or shrink, you can adjust the focus distance to the target object size, access to high-definition screen.

Focus: Optical zoom

Zoom: Magic Zoom



### ● Pan/Tilt Control



1----- Up

2----- Upper Right

3----- Right

4----- Bottom Right

5----- Down

6----- Bottom Left

7----- Left

8----- Upper Left

9----- Go to center

## Preset settings



IP Camera supports 16 preset positions, which is considered enough for the DIY home & small business surveillance market

The default preset position is Topmost, Bottom most, left most, right most, you can add other preset positions.

**+** **Add** Click this icon to save the position you need the camera to remember

**🗑️** **Delete** Select one preset position and click this button to delete it.

**▶** **GO** Select one preset position in the preset drop-down list and click Go to make the camera move to the preset position

## How to preset a position?

**Firstly**, move the camera and stop at a desired place where you want make a preset position.

**Secondly**, click the **+** button and enter a descriptive name for the preset position. The preset position cannot contain special characters. Then click OK to save it. If you want to reset the preset position, click Cancel.

After that, you can move the camera and stop at another place, and set another preset position. You can do all 16 preset positions with this method.

If you want to see one preset position you have set, only select the preset position name from the preset drop-down list, and click the **▶** button, the camera will go to the preset position.



# 3 Advanced Settings



Click the  button, Settings, go to **Device Settings** Control Panel to make advanced camera settings.

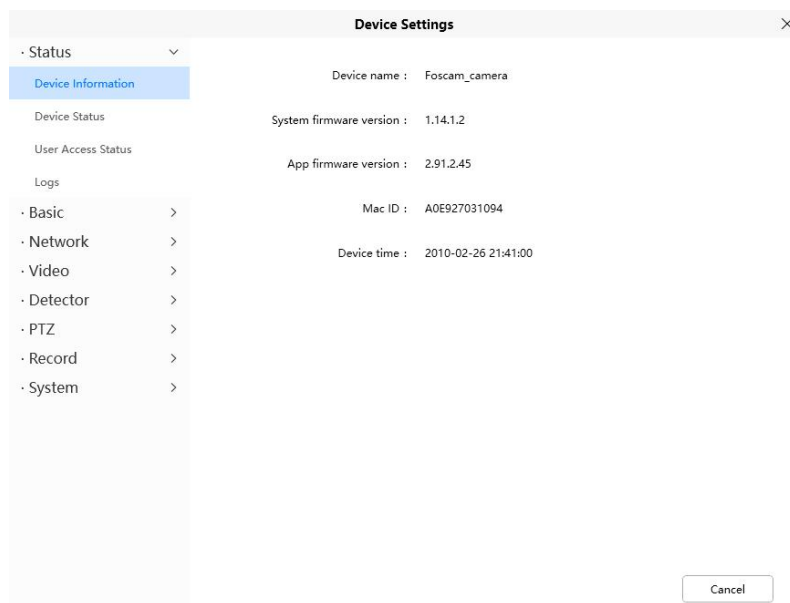


Click the  button, go to Device Settings to make advanced camera settings.

## 3.1 Status

Status contains two columns: Device Information and Logs, it will show you various information about your camera.

### 3.1.1 Device Information



**Device Model:** The model of the device.

**Device Name:** The Device Name is a unique name that you can give to your device to help you identify it. Click Basic Settings and go to Camera Name panel where you can change your camera name. The default device name is Foscam\_camera.

**System Firmware Version:** Display the System Firmware version of your camera.

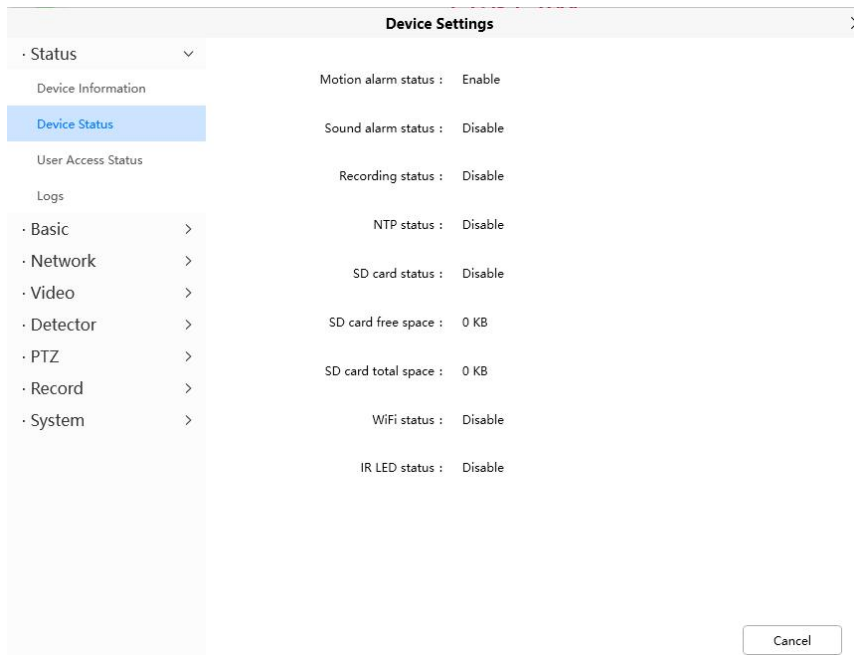
**App Firmware Version:** Display the application firmware version of your camera.

**Device ID:** Display the MAC address of your camera. For example, Device ID is 00626EE96E3C, the same MAC ID sticker is found at the bottom of the camera.

**Device Time:** The system time of the device. Click Basic Settings and go to Device Time panel and adjust the time.

### 3.1.2 Device Status

On this page you can see device status such as Alarm status, NTP status, IR LED Status and so on.



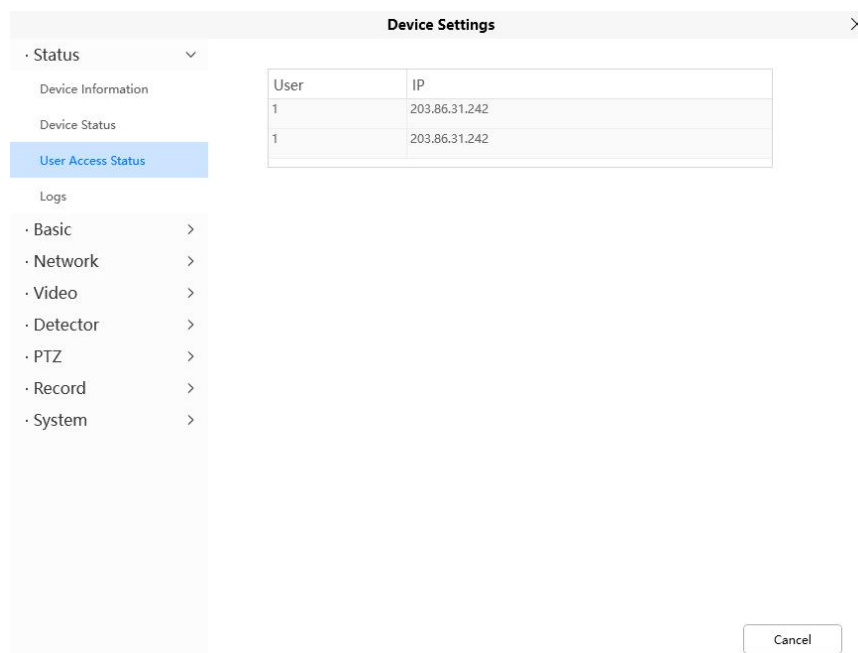
The screenshot shows the 'Device Settings' window with the 'Device Status' tab selected. The left sidebar contains a list of settings categories: Status, Device Information, Device Status (highlighted), User Access Status, Logs, Basic, Network, Video, Detector, PTZ, Record, and System. The main content area displays the following status information:

- Motion alarm status : Enable
- Sound alarm status : Disable
- Recording status : Disable
- NTP status : Disable
- SD card status : Disable
- SD card free space : 0 KB
- SD card total space : 0 KB
- WiFi status : Disable
- IR LED status : Disable

A 'Cancel' button is located at the bottom right of the window.

### 3.1.3 User Access Status

Session status will display who and which IP is visiting the camera now.



The screenshot shows the 'Device Settings' window with the 'User Access Status' tab selected. The left sidebar contains a list of settings categories: Status, Device Information, Device Status, User Access Status (highlighted), Logs, Basic, Network, Video, Detector, PTZ, Record, and System. The main content area displays a table with the following data:

User	IP
1	203.86.31.242
1	203.86.31.242

A 'Cancel' button is located at the bottom right of the window.

### 3.1.4 Logs

The log record shows who and which IP address accessed or logged out the camera.

The screenshot shows the 'Device Settings' window with the 'Logs' tab selected. A table displays log entries with columns for No., Time, User, IP, and Log. Annotations include a red box pointing to the page number '1' with the text 'Click the page number and go to the corresponding page to see more logs', and another red box pointing to the 'Go' button with the text 'Full in one page number, click go GO button and go to the corresponding page.' The table data is as follows:

No.	Time	User	IP	Log
1	2010-02-26 21:32:23	1	203.86.31.242	Login
2	2010-02-26 21:32:04	1	203.86.31.242	Logout
3	2010-02-26 21:28:19	root	127.0.0.1	
4	2010-02-26 21:21:29	root	127.0.0.1	
5	2010-02-26 21:14:51	root	127.0.0.1	
6	2010-02-26 21:12:15	root	127.0.0.1	
7	2010-02-26 21:11:55	root	127.0.0.1	
8	2010-02-26 21:06:51	1	203.86.31.242	Login
9	2010-02-26 21:06:43	1	203.86.31.242	Login
10	2010-02-26 21:05:26	root	127.0.0.1	
11	2010-02-24 23:59:53	root	127.0.0.1	
12	2010-02-24			
13	2010-02-24			
14	2010-02-24			
15	2010-02-24 23:58:41	root	127.0.0.1	
16	2010-02-24 23:58:21	root	127.0.0.1	
17	2010-02-24 23:57:57	root	127.0.0.1	

### 3.2 Basic

This section allows you to configure your Device Name, Time, User Accounts, Status Light and Voice Prompt.

#### 3.2.1 Camera Name

Default alias is Foscam\_camera. You can define a name for your camera here such as apple. Click Save to save your changes. The alias name cannot contain special characters.

The screenshot shows the 'Device Settings' window with the 'Basic' tab selected. The 'Camera Name' field is highlighted with a red box and contains the text 'Foscam\_camera'. Below the field, a note states: 'The maximum length of device name is 20, support English, numbers, letters and symbols: \_ -'. The left sidebar shows the 'Basic' menu item expanded.

## 3.2.2 Device Time

This section allows you to configure the settings of the internal system clock for your camera.

The screenshot shows the 'Device Settings' window with the 'Device Time' tab selected. The settings are as follows:

- Time zone:** (GMT +08:00) Beijing, Singapore, Taipei
- Sync with NTP server:**  (checked)
- NTP server:** Auto
- Time format:**  12H,  24H
- Date format:**  YYYY-MM-DD,  DD/MM/YYYY,  MM/DD/YYYY
- Use DST:**  (checked)
- From:** April, The first, Saturday, 02 : 00
- To:** October, The last, Sunday, 02 : 00
- DST:** A slider set to 0, with markers at 0, 30, 60, 90, and 120.

Buttons for 'Save' and 'Cancel' are located at the bottom right of the window.

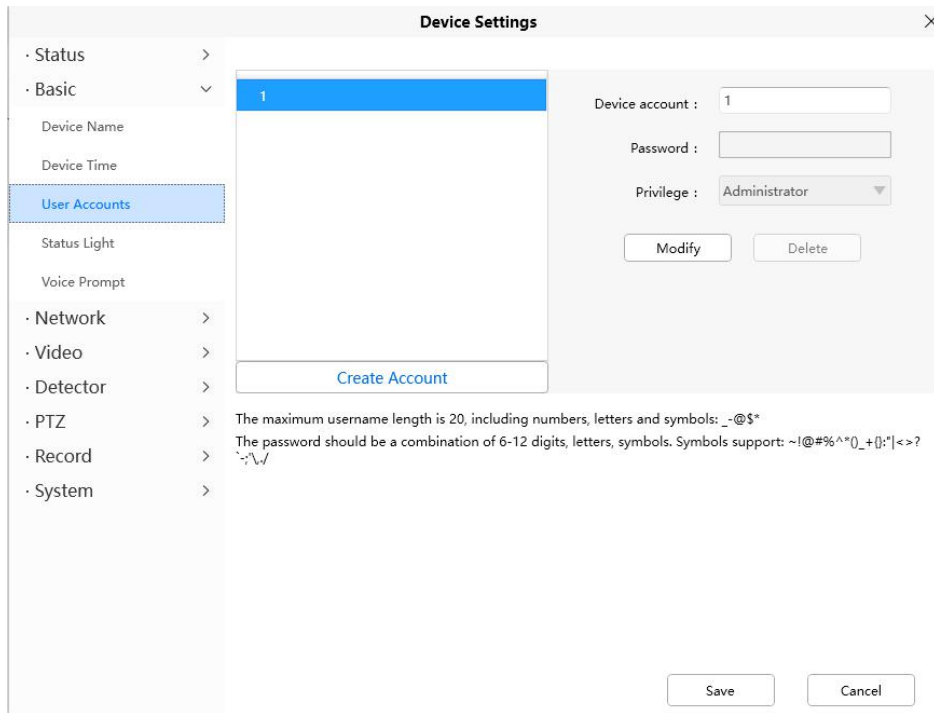
**Time Zone:** Select the time zone for your region from the dropdown menu.

**Sync with NTP server:** Network Time Protocol will synchronize your camera with an Internet time server. Choose the one that is closest to your camera.

**Use DST:** Select the **use DST** (Daylight Saving Time, to set the clock ahead of the real-time), then set the start time and end time of the DST, select the daylight saving time from the drop-down menu at last. Click **Save** button and submit your settings.

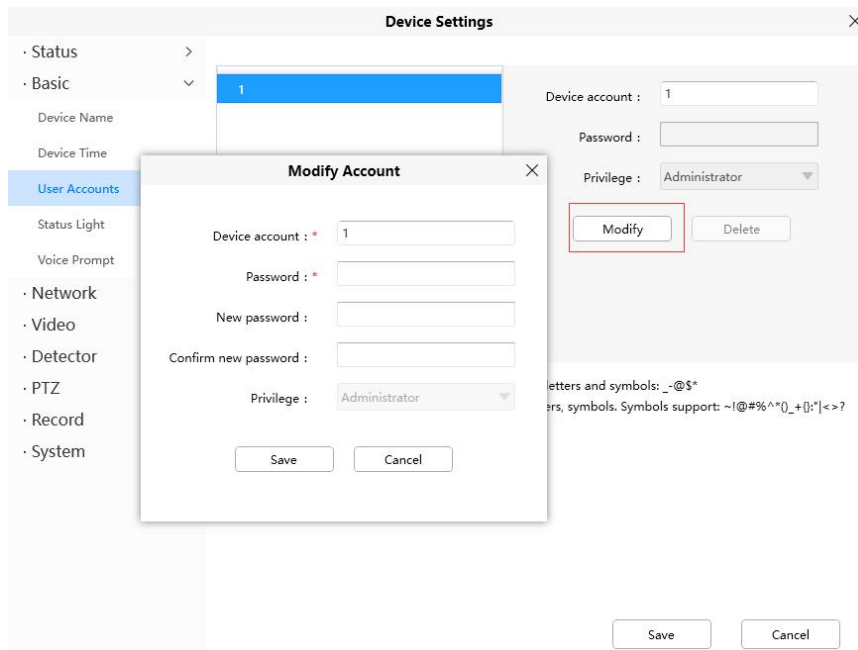
## 3.2.3 User Accounts

Here you can create users and set privilege, visitor, operator or administrator. The default administrator user accounts are administrator with a blank password.



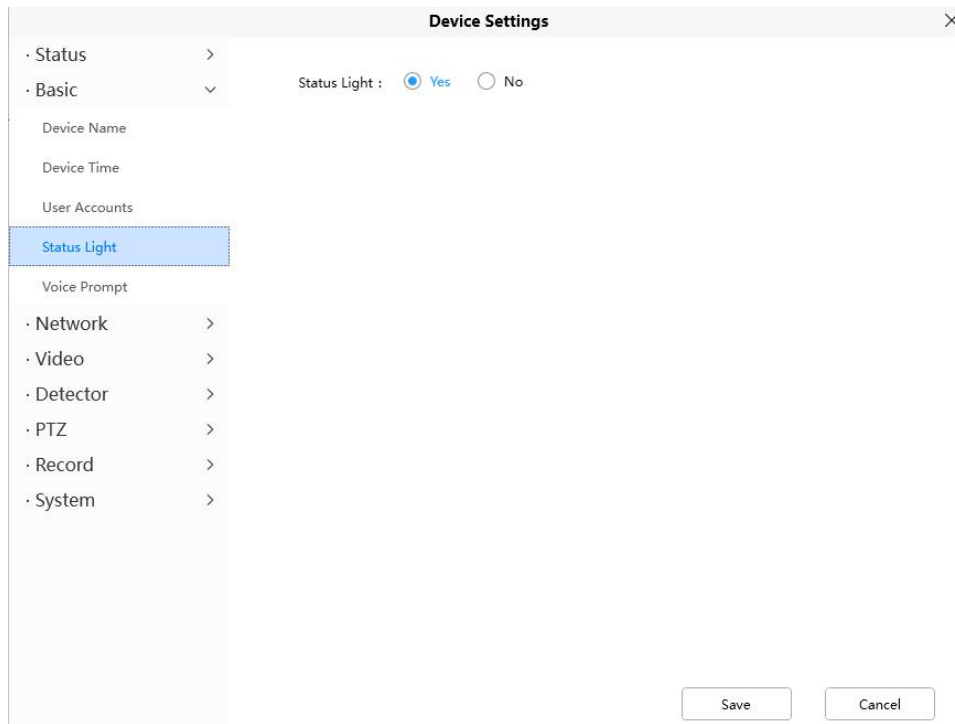
## How to change the password?

Firstly, select Modify, then enter User name and the old password and the new password, lastly click save to take effect.



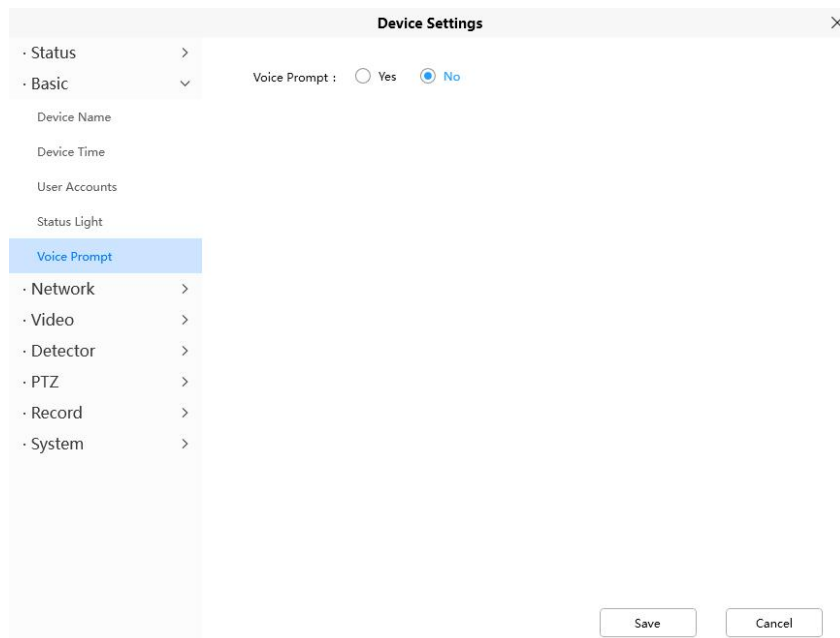
## 3.2.4 Status Light

If you have a power and network status light on your camera, you can turn it on and off with this feature. This camera doesn't have the status light described above.



### 3.2.5 Voice Prompt

You can set the voice prompt on the camera to turn on and off if you connect an external audio device.

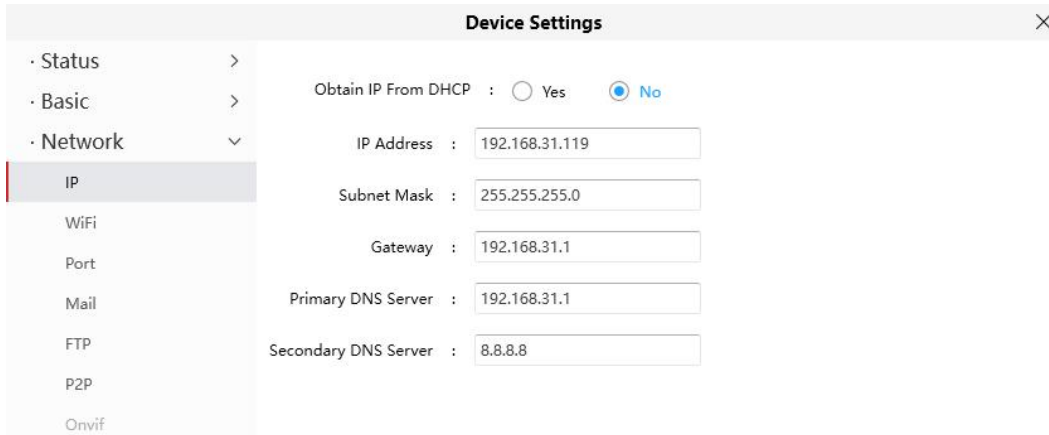


### 3.3 Network

This section will allow you to configure your camera's information.

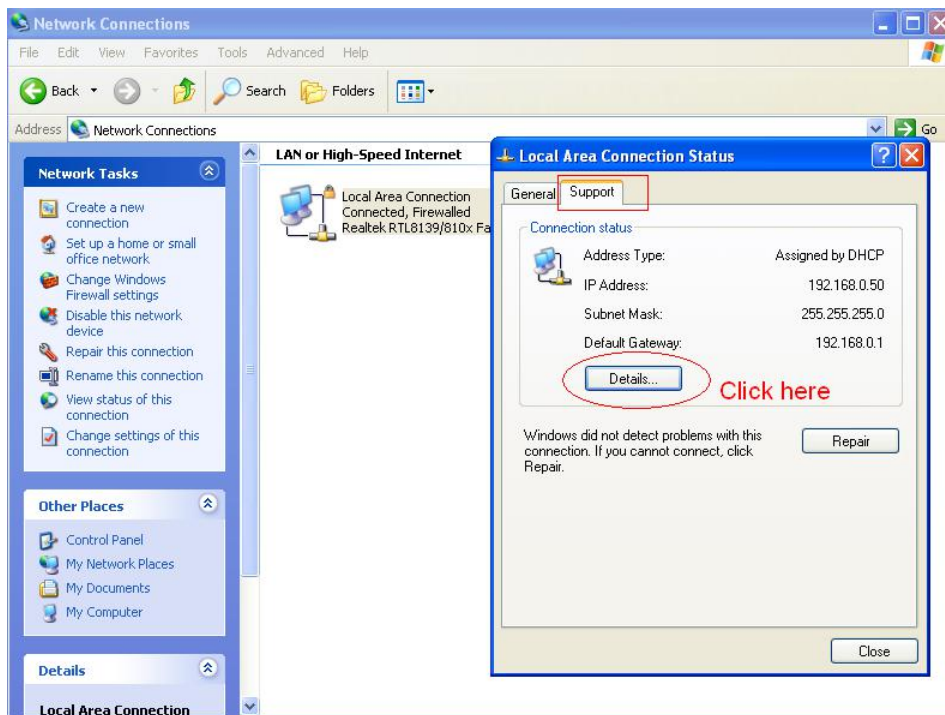
### 3.3.1 IP

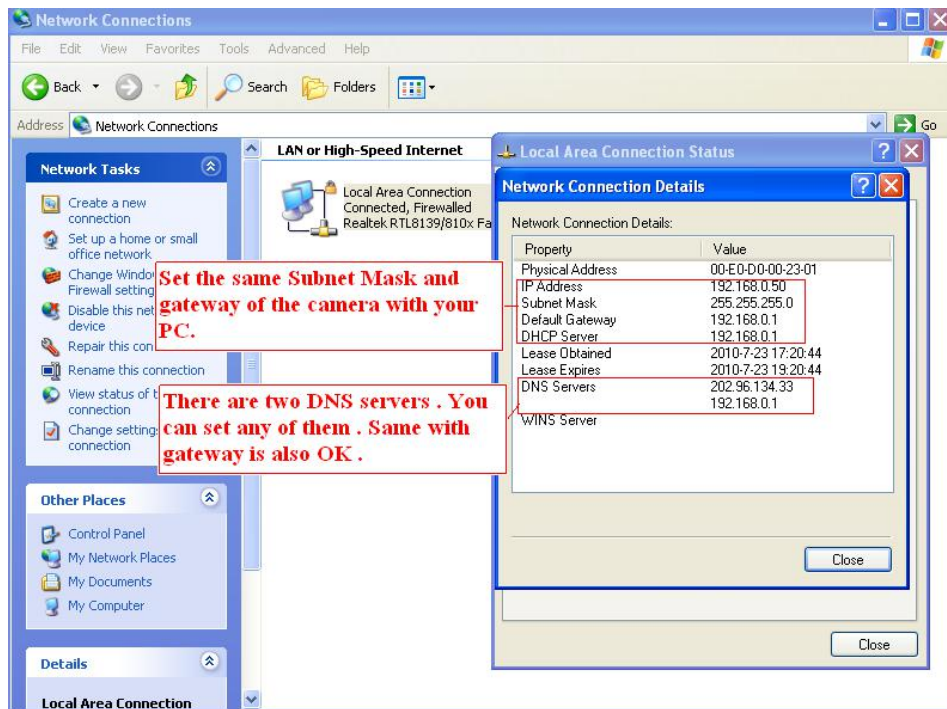
If you want to set a static IP for the camera, please go to **IP** page. Keep the camera in the same subnet of your router or computer.



It is recommended that you use the subnet mask, gateway and DNS server from your locally attached PC. If you don't know the subnet mask, gateway and DNS server, you can check your computer's local area connection as follows:


**Control Panel--Network Connections--Local Area Connections --Choose Support--Details.**

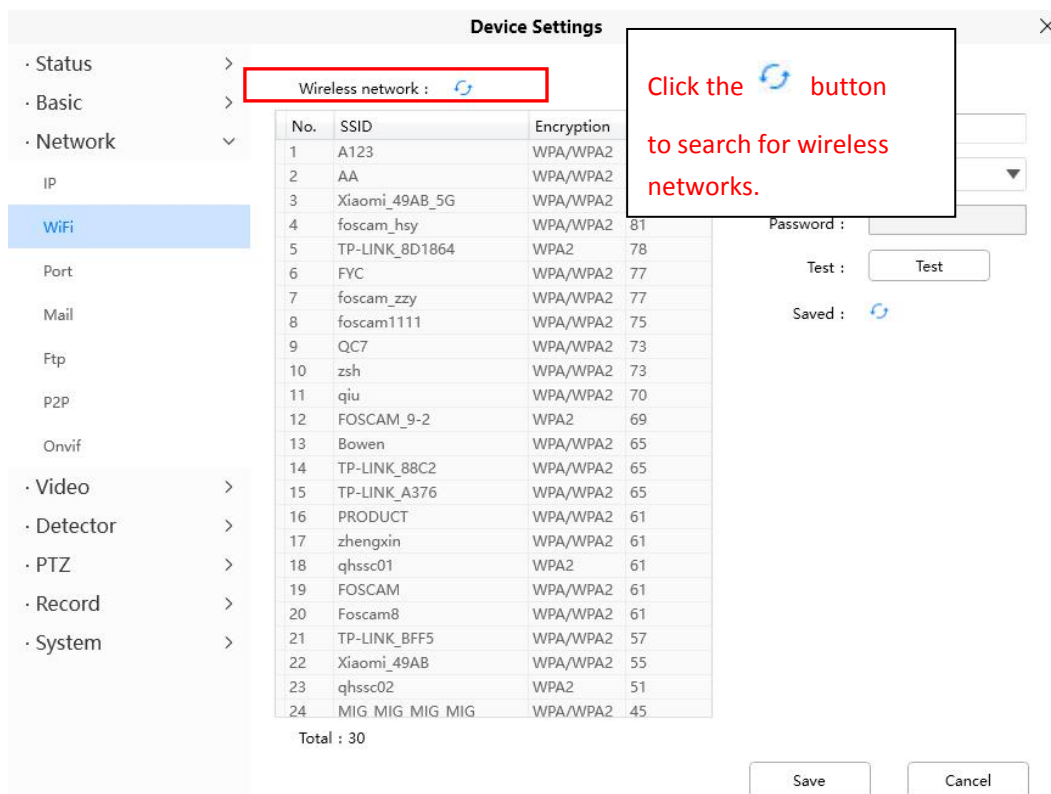




If you don't know the DNS server, you can use the same settings as the Default Gateway.

### 3.3.2 WiFi

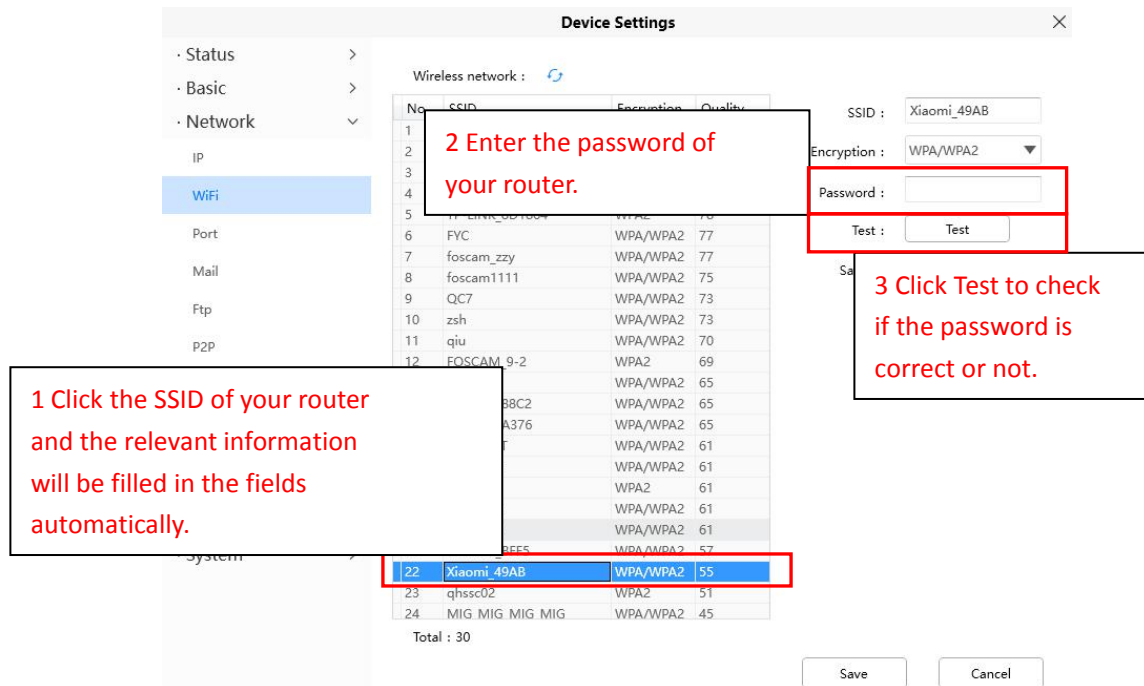
**Step 1:** Click the  button and the camera will detect all wireless networks around the area. It should also display your router in the list.



**Step 2:** Click the SSID (name of your router) in the list, the corresponding information related to your network,



such as the name and the encryption, will be filled into the relevant fields automatically. You will only need to fill in the password of your network. Make sure that the SSID, Encryption and the password you filled in are exactly the same for your router.



**Step 3:** Please click on the Save button after all settings have been entered and disconnect the network cable.

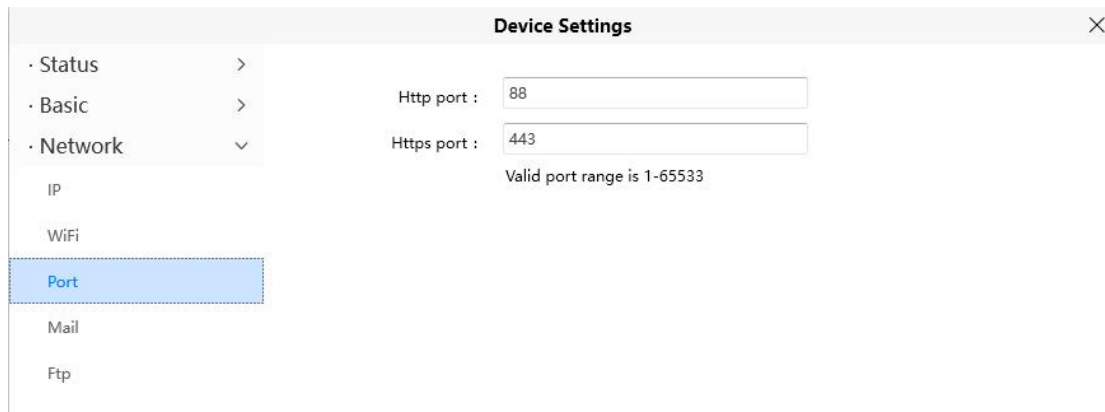
Never shut down the power of the camera until the IP camera is able to connect to the wireless network. The LAN IP address will disappear on the Add Device window when the camera is configuring a wireless connection. Wait about 1 minute, the camera should obtain a wireless connection, and the LAN IP of the camera will show again on the Add Device window. The IP address may have changed after the camera receives a wireless connection; we recommend setting a static local IP address if this IP address changes, by right clicking the camera in Equipment Search Tool, setting a static IP, and pushing OK. Congratulations! You have set up the wireless connection of the camera successfully.

**NOTE:** If you fail to make a wireless connection, please refer to your seller or contact us directly for assistance.

### 3.3.3 Port

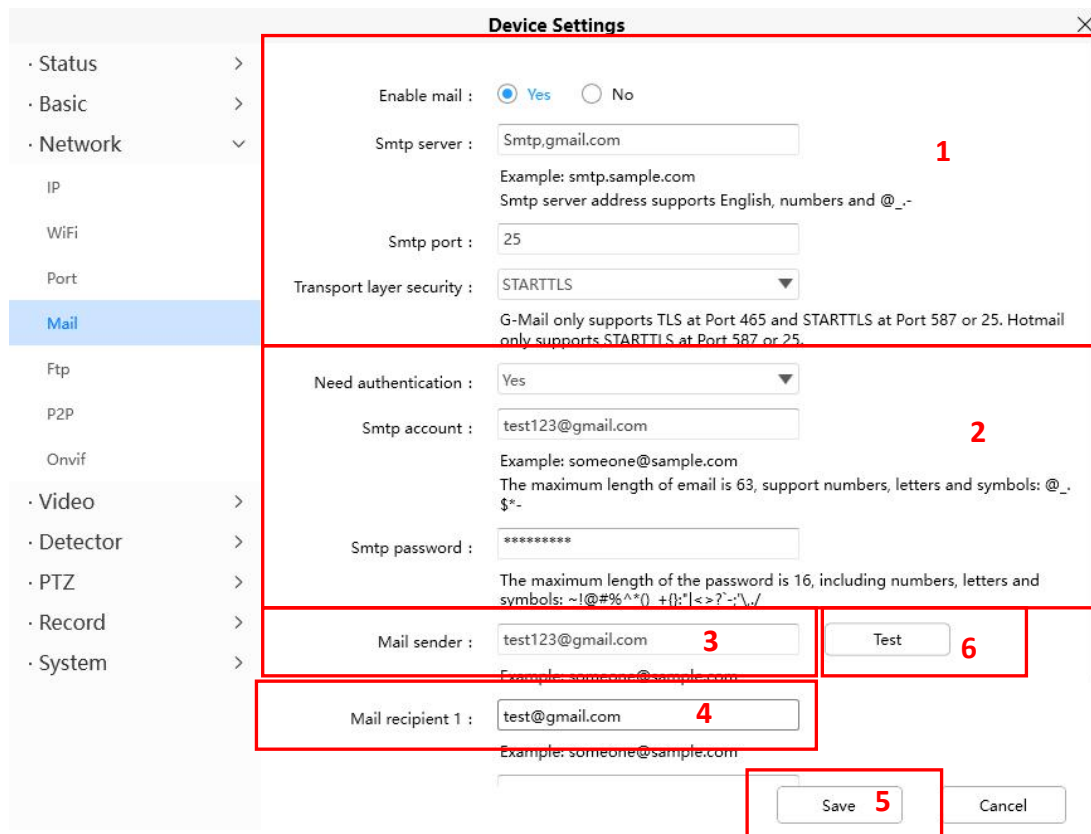
This camera supports HTTP Port / HTTPS Port/ ONVIF Port. HTTP Port is used to access the camera remotely.

**HTTP port:** By default, the HTTP is set to 88. Also, they can be assigned with another port number between 1 and 65535. But make sure they do not conflict with other existing ports like 25, 21.



### 3.3.4 Mail Settings

If you want the camera to send emails when motion has been detected, here Mail will need to be configured.



**1 - SMTP Server/ Port /Transport Layer Security** Enter SMTP server for sender. SMTP port is usually set as 25. Some SMTP servers have their own port, such as 587 or 465, and Transport Layer Security usually is None. If you use Gmail, Transport Layer Security must be set to TLS or STARTTLS and SMTP Port must be set to 465 or 25 or 587, which port you choose should be decided by which Transport Layer Security you select.

**2 - SMTP Account/ password ID** account and password of the sender email address

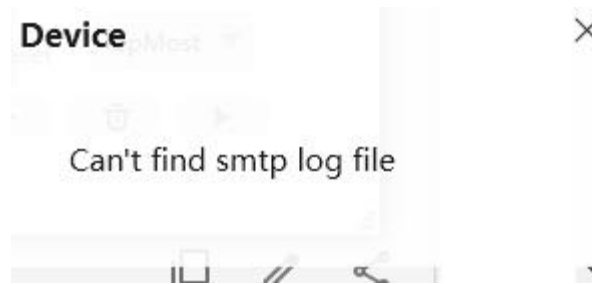
**3 - E-mail Sender** Mailbox for sender, must support SMTP

**4- Receiver** Mailbox for receiver (which need not support SMTP), you can set 4 receivers

**5- Save** Click Save to take effect

**6- Test** Click Test to see if Mail has been successfully configured.

Click **Test** to see if Mail has been successfully configured.



If the test is a success, you can see Success behind the Test, at the same time the receivers will receive a test mail.

If the test fails with one of the following errors after clicking Test, verify that the information you entered is correct and again select Test.

- 1) Cannot connect to the server
- 2) Network Error. Please try later
- 3) Server Error
- 4) Incorrect user or password
- 5) The sender is denied by the server. Maybe the server needs to authenticate the user, please check it and try again
- 6) The receiver is denied by the server. Maybe because of the anti-spam privacy of the server
- 7) The message is denied by the server. Maybe because of the anti-spam privacy of the server
- 8) The server does not support the authentication mode used by the device.

### 3.3.5 FTP

If you want to upload recorded images to your FTP server, you can set **FTP**.

A screenshot of a 'Device Settings' application window. On the left is a navigation menu with options: Status, Basic, Network, IP, WiFi, Port, Mail, Ftp (highlighted in blue), P2P, Onvif, Video, Detector, PTZ, Record, and System. The main area is titled 'Device Settings' and contains the following fields:

- Ftp server :** ftp://192.168.1.103. Below it, an example is given: 'Example: ftp://192.168.1.103/dir'. A note states: 'The maximum length of the address is 127, does not support the character: =&'.
- Port :** 21
- Mode :** Two radio buttons are present: 'PASV' (which is selected) and 'Port'.
- Username :** admin. A note states: 'The maximum length of the user name is 63, support numbers, letters and symbols: \_@\$\*,-#%~!'.
- Password :** \*\*\*\*\*. A note states: 'The maximum length of the password is 63, support numbers, letters and symbols: ~!@#%\*^\*0\_+{}!<>?~;'\./&=[]'.

At the bottom of the main area is a 'Test' button. At the very bottom of the window are 'Save' and 'Cancel' buttons.

**FTP server:** If your FTP server is located on the LAN, you can set as Figure a.

If you have an FTP server which you can access on the internet, you can set as Figure b.

**Port:** Default is port 21. If changed, external FTP client program must change the server connection port accordingly.

**Mode:** Here two modes are supported: PORT and PASV.

**Username / password:** The FTP account and password.

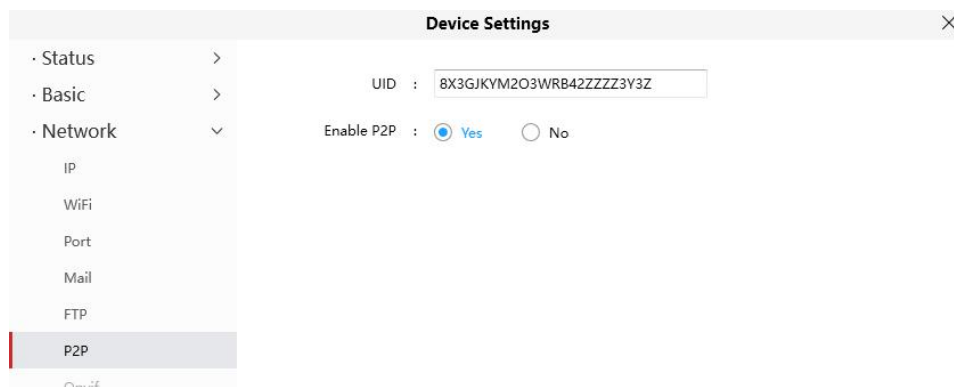
Click **Save** to take effect.

Click **Test** to see if FTP has been successfully configured.

### 3.3.6 P2P

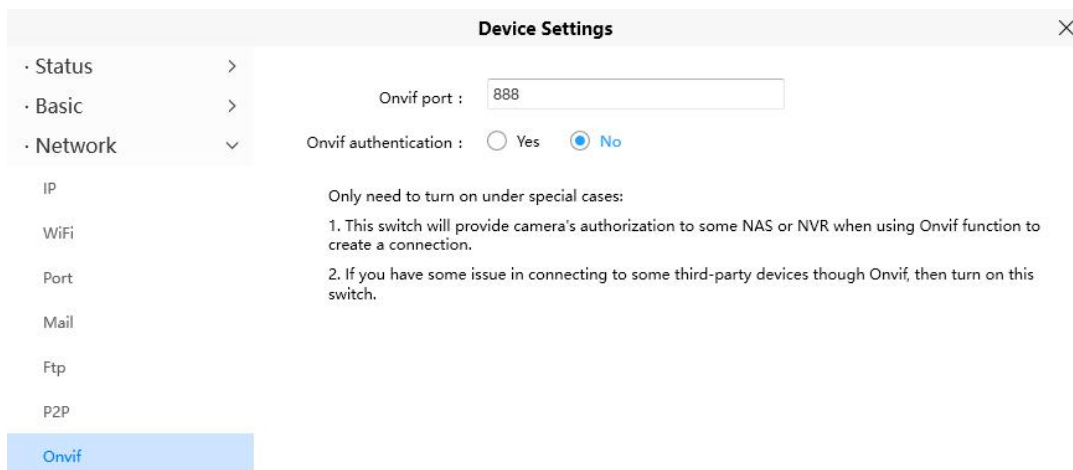
Access the camera by smart phone (Android or iOS operating system)

First of all, you need to open the P2P function of the camera at  > **Network** > **P2P**.



### 3.3.7 Onvif

By default, the ONVIF port is set to 888. Also, they can be assigned with another port number between 1 and 65535 (except 0 and 65534). But make sure they cannot conflict with other existing ports.



## 3.4 Video

This section allows you to configure Video Encode settings, On screen display, Snapshot and IR LED settings.

### 3.4.1 Video Encode

This is main Encode video settings.

The screenshot shows the 'Device Settings' window with the 'Video Encode' tab selected. The interface is divided into two main sections: 'Main Video Stream Settings' and 'Sub Video Stream Settings'. Each section contains dropdown menus for 'Stream type', 'Resolution', 'Frame rate', 'Key frame interval', and 'Rate control mode'. The 'Main Video Stream Settings' are currently set to FHD mode, 1080P resolution, 20 frame rate, 40 key frame interval, and None rate control mode. The 'Sub Video Stream Settings' are set to HD mode, 720P resolution, 11 frame rate, 22 key frame interval, and 512K bit rate. A 'Save' button and a 'Cancel' button are located at the bottom right of the window.

Setting	Main Video Stream Settings	Sub Video Stream Settings
Stream type	FHD mode	HD mode
Resolution	1080P	720P
Frame rate	20	11
Key frame interval	40	22
Rate control mode	None	
Bit rate	1M	512K

**Stream type:** There are four types to identify different streams you have set.

**Resolution:** The camera supports multiple types, For example: 1080P, 720P, VGA. The higher the resolution is, the clearer video will become. But the code flux will become larger too, and it will take up more bandwidth. (Different models support different specific types.)

**Bit Rate:** Generally speaking, the larger the bit rate is, the clearer video will become. But the bit rate configuration should combine well with the network bandwidth. When the bandwidth is very narrow, and bit rate is large, that will lead to video that cannot play well.

**Frame Rate:** Note that a larger frame size takes up more bandwidth. When the video format is 50Hz, the maximum frame rate is 25 fps. When the video format is 60Hz, the maximum frame rate is 30 fps. You should lower frame rate when the bandwidth is limited. Normally, when the frame rate is above 15, you can achieve smooth video.

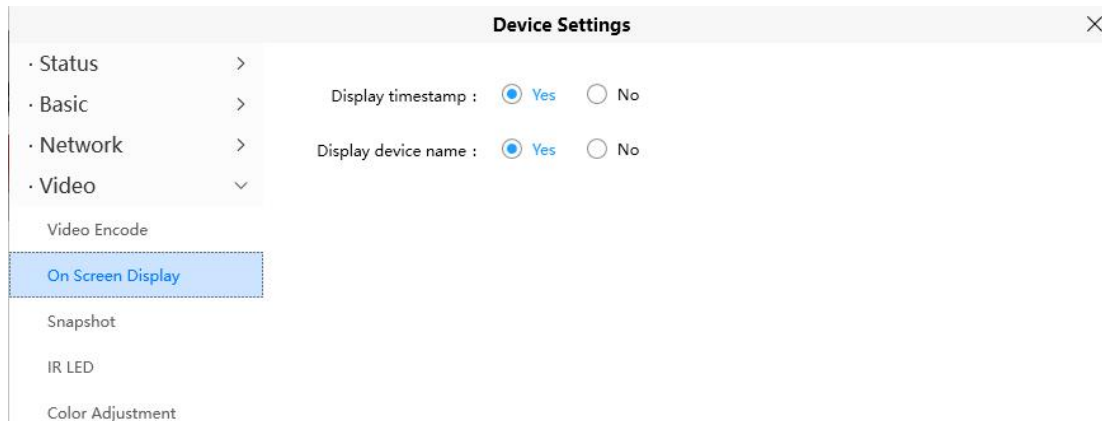
**Key Frame Interval:** The time between last key frame and next key frame. The shorter the duration, the

more likely you will get a better video quality, but at the cost of higher network bandwidth consumption.

**Variable Bitrate:** Select the Bit rate type to constant or variable. If you select Yes, the camera will change the video bit rate according to the situation, but will not be more than the maximum parameter "Bit Rate"; If select **No**, the Bit Rate is unchanged.

### 3.4.2 On Screen Display

This page is used to add the timestamp and device name on the video.

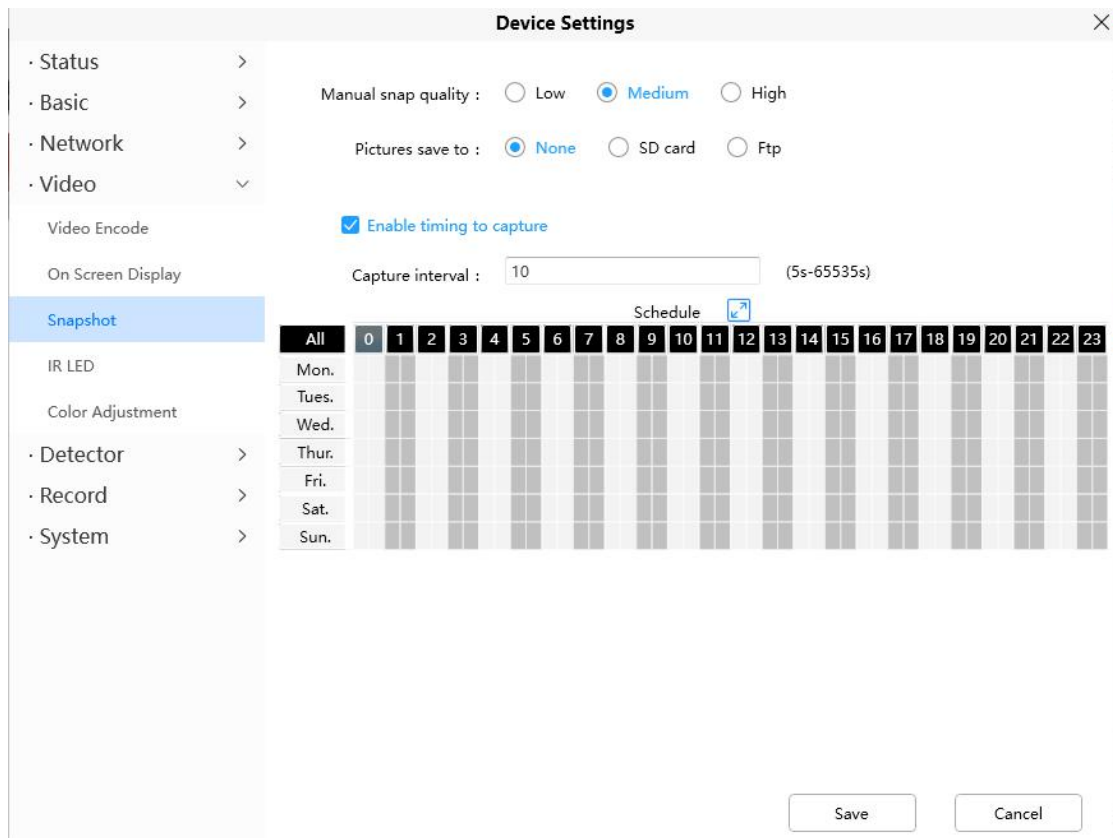


**Display Timestamp:** There are two options: Yes or NO. Select Yes and you can see the system date on the video.

**Display Camera Name:** There are two options: Yes or NO. Select Yes and you can see the device name on the video.

### 3.4.3 Snapshot

On this page you can set the snapshot pictures' image quality and the storage path.



**Manual Snap Quality:** Low, Middle and High. The higher the quality, the picture will be clearer.

**Pictures Save To:** FTP. If you have done FTP and Alarm settings, when alarming, the camera will snap pictures to the FTP automatically. If you select the FTP, you can set the file name which the picture will save to.

### Enable Timing to Capture

To enable capture interval, follow the steps below:

**1 Select Enable timing to capture**

**2 Capture interval:** The interval time between two captures.

**3 Select the capture time**

- Capture anytime

Click the black button on the MON, you will see all time ranges turn red. When something moves in the detection area, the camera will capture.

- Specify a capture schedule

Click the week day words, the corresponding column will be selected. For example, click TUE, the column of TUE turns to red, that means during Tuesday whole day, the camera will capture.

- Press the left mouse and drag it on the time boxes, you can select the serial area,

**4 Click Save** button to take effect.



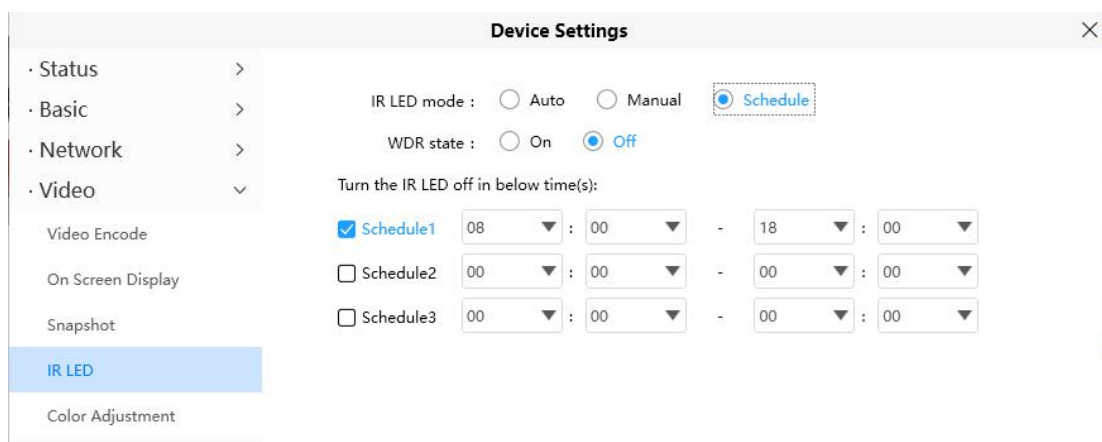
### 3.4.4 IR LED

There are three modes to set the IR LED lights.

**Auto:** The default mode is auto. In this mode, IR LED lights will be switched automatically depended on the brightness of environment.

**Manual:** In this mode, you can click **On** option to turn on the IR LED lights, and click **Off** option to turn off the IR LED lights.

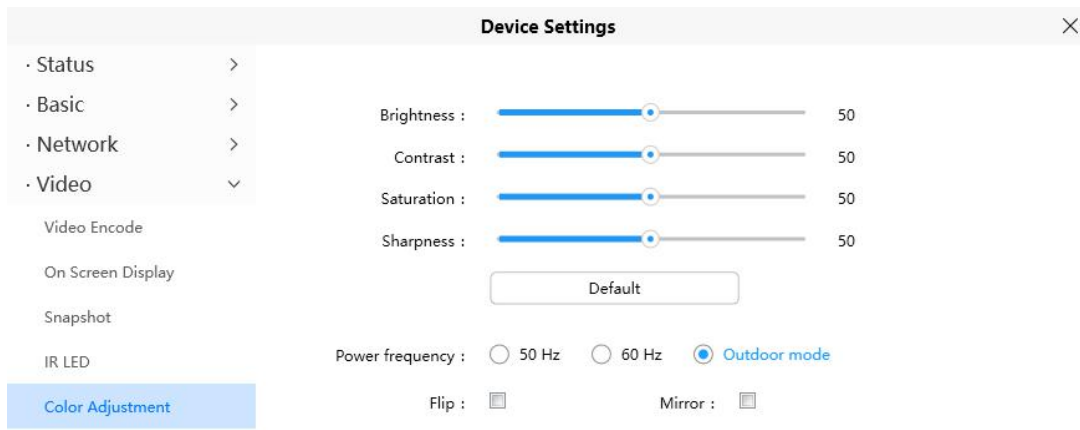
**Schedule:** In this mode, IR LED lights will be turned off during the setting schedule. You can set the period of time during which the infrared lamp is turned off to prevent your baby from being influenced during sleep. You can also turn off the infrared lamp on the video preview page at any time.



### 3.4.5 Color Adjustment

You can adjust the settings to your liking.

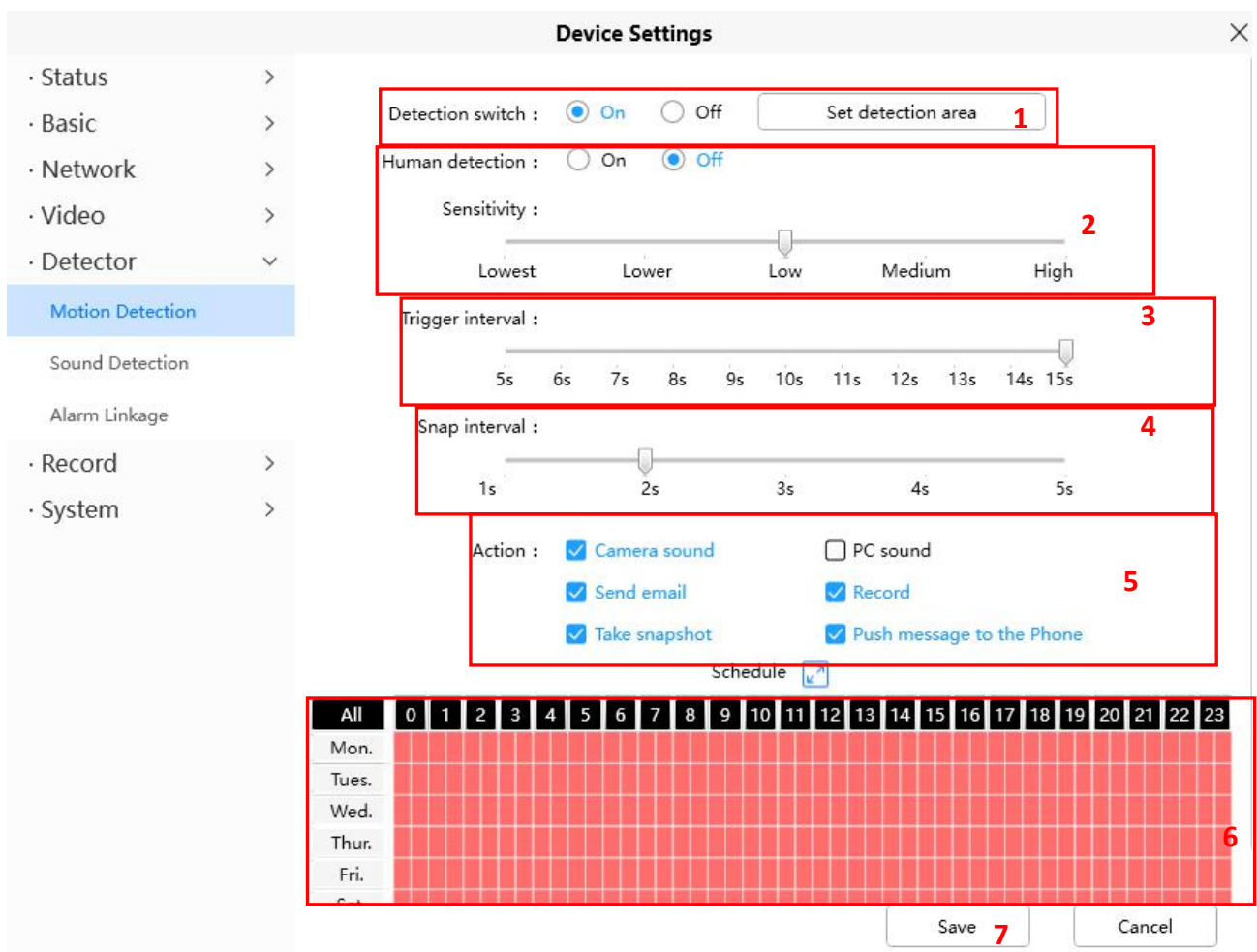




## 3.5 Detector

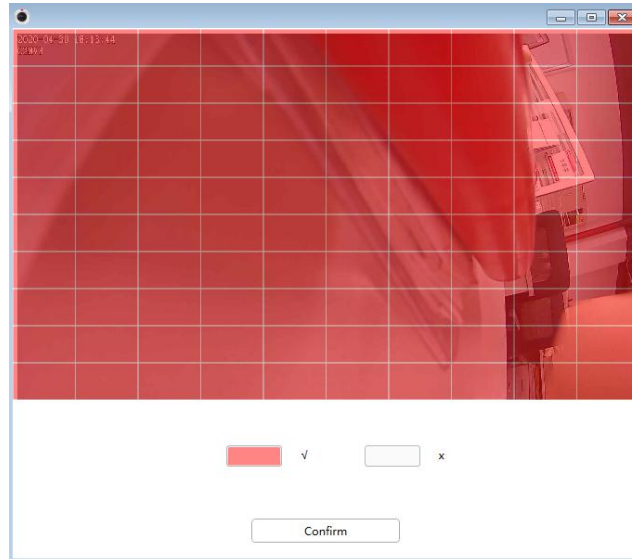
### 3.5.1 Motion Detection

IP Camera supports **Motion Detection Alarm**, when the motion has been detected, it will send emails or upload images to FTP.



To enable motion detection, follow the steps below:

## 1 Enable Detection Switch and Set detection area.



**2 Sensitivity** - It supports three modes: Low, Middle and High. The higher the sensitivity, the camera will be more easily alarmed. Select one motion sensitivity.

**3 Trigger Interval** - The interval time between two motion detections. Here supports 5s/6s/7s/8s/9s/10s/11s/12s/13s/14s/15s. Select one interval time.

**4 Snap Interval**- The interval time between two pictures.

## 5 Select the alarm indicators

**There are some alarm indicators:**

### A Camera Sound

If you select Camera Sound, when the motion has been detected, the people around the Camera will hear beep alarm sound, if the device is connected with the audio output device.

### B PC Sound

If you select PC Sound, when the motion has been detected, the people around the PC will hear beep alarm sound.

### C Send E-mail

If you want to receive alarm emails when motion is detected, you must select Send E-mail and set Mail Settings first.

### D Recording

If you select this checkbox, when the motion has been detected, the camera will record and load it to the FTP server. Make sure you have set FTP as the storage path in Video->Snapshot settings panel.

### E Take Snapshot

If you select this checkbox, when the motion has been detected, the camera will snap the live view window as a still picture and load it to the FTP. Make sure you have set the storage path in **Video > Snapshot Settings** panel.

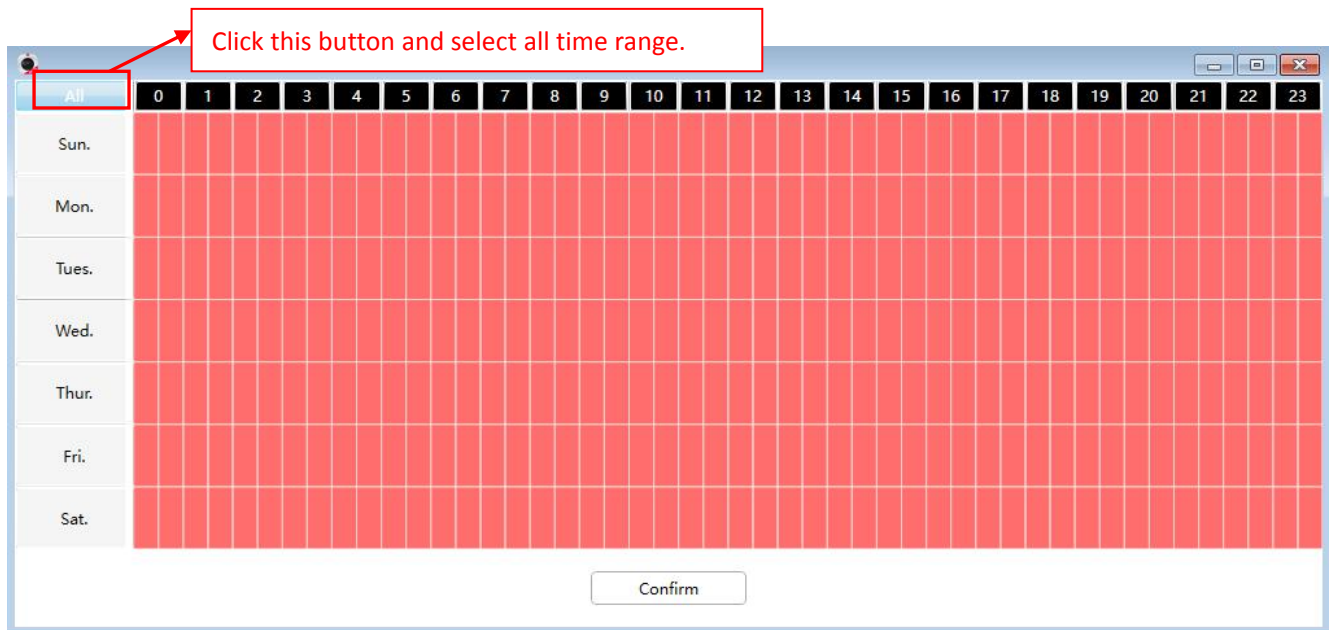
### F Push message to the phone

If you select this checkbox, when the motion has been detected, the camera will push the message to the phone which has been connected the camera.

## 6 Alarm Schedule

### 1. Alarm anytime when motion is detected

Click the black button up the MON, you will see all time range turn red. When something moving in the detection area anytime, the camera will alarm.



### 2. Specify an alarm schedule

Click the weekday words, the corresponding column will be selected. For example, click TUE, the whole column of TUE turns to red, that means during Tuesday whole day, when something moving in the detection area, the camera will alarm.



### 3. Press the left mouse and drag it on the time boxes, you can select the serial area.

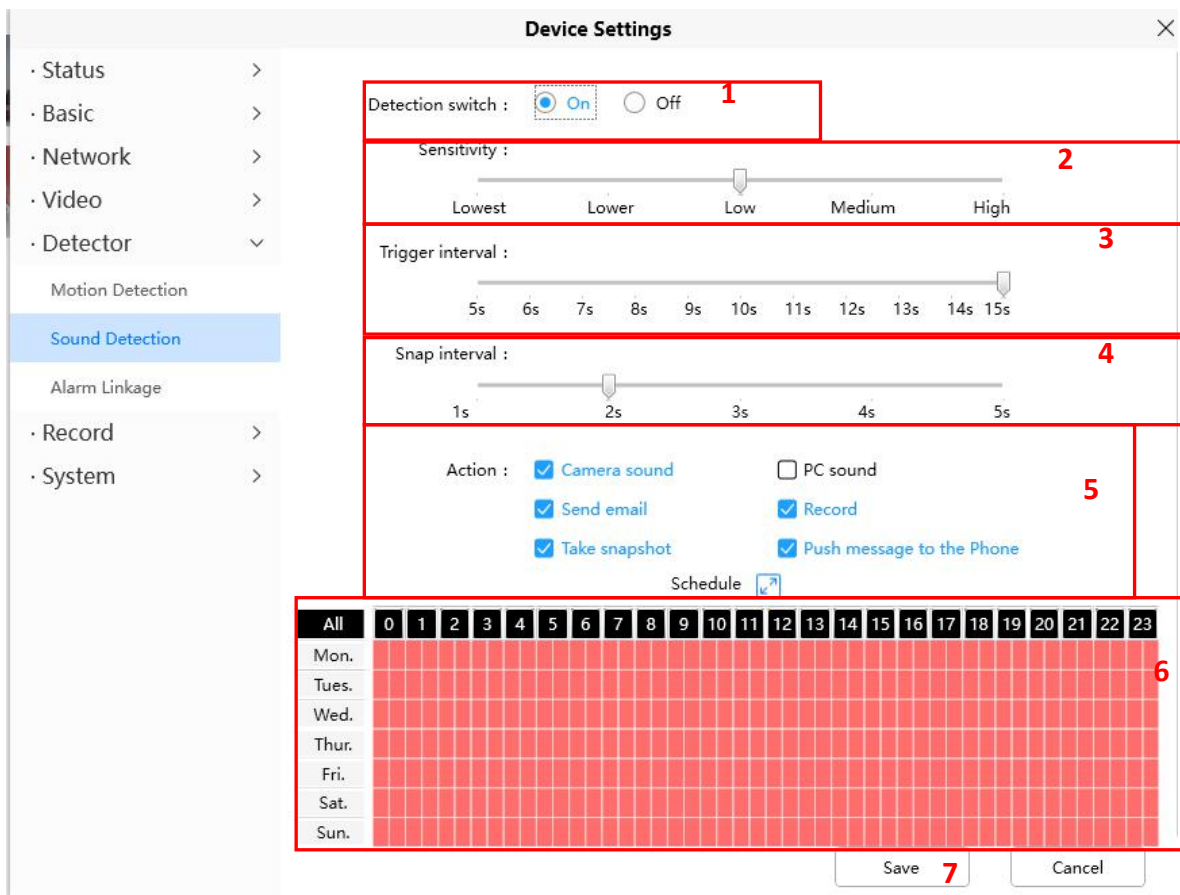


**7 Click Save button** to take effect. When the motion is detected during the detection time in the detection area, the camera will alarm and adopt the corresponding alarm indicators.

**NOTE:** You must set the detection area and detection schedule, or else there is no alarm anywhere and anytime.

### 3.5.2 Sound Detection

When the ambient sound over a certain decibel, the sound alarm will be triggered.



To enable motion detection, follow the steps below:

**1 Enable Detection Switch**

**2 Sensitivity**---- It supports three modes: Low, Middle and High. The higher the sensitivity, the camera will be more easily alarmed. Select one motion sensitivity.

**3 Trigger Interval**----The interval time between two motion detections. Here supports 5s/6s/7s/8s/9s/10s/11s/12s/13s/14s/15s. Select one interval time.

**4 Snap Interval**---- The interval time between two pictures.

**5 Select the alarm indicators**

**There are some alarm indicators:**

**A Camera Sound**

If you select Camera Sound, when the sound has been detected, the people around the Camera will hear beep alarm sound, if the device is connected with the audio output device.

**B PC Sound**

If you select PC Sound, when the sound has been detected, the people around the PC will hear beep alarm sound.

**C Send E-mail**

If you want to receive alarm emails when motion is detected, you must select Send E-mail and set Mail Settings first.

**D Recording**

If you select this checkbox, when the sound has been detected, the camera will record and load it to the FTP server. Make sure you have set FTP as the storage path in Video->Snapshot settings panel

**E Take Snapshot**

If you select this checkbox, when the sound has been detected, the camera will snap the live view window as a still picture and load it to the FTP. Make sure you have set the storage path in **Video > Snapshot Settings** panel.

**F Push message to the phone**

If you select this checkbox, when the sound has been detected, the camera will push the message to the phone which has been connected the camera.

**6 Alarm Schedule**

Alarm anytime sound is detected

Click the black button up the MON, you will see all time range turn red. When something moving in the detection area anytime, the camera will alarm.



**7 Click Save button** to take effect. When the sound is detected during the detection time in the detection area, the camera will alarm and adopt the corresponding alarm indicators.

**NOTE:** You must set the detection area and detection schedule, or else there is no alarm anywhere and anytime.

### 3.5.3 Alarm Linkage

After setting an URL, when camera triggers a detection, will call the URL.

**step:**

1. You can fill in the alarm linkage address in the Full URL and click the Generate button, or modify it in the saved information, then click Save.
2. Full URL example: `http://username:password@ip:port/json.htm?command=switchlight`.

**Device Settings** [X]

- Status >
- Basic >
- Network >
- Video >
- Detector ▾
- Motion Detection
- Sound Detection
- Alarm Linkage**
- PTZ >
- Record >
- System >

Full URL :

URL :

Message :

Username :

Password :

Notice :

1. You can fill in the alarm linkage address in the Full Url and click the Generate button, or modify it in the saved information, then click Save.
2. Full Url example: `http://username:password@ip:port/json.htm?command=switchlight`.

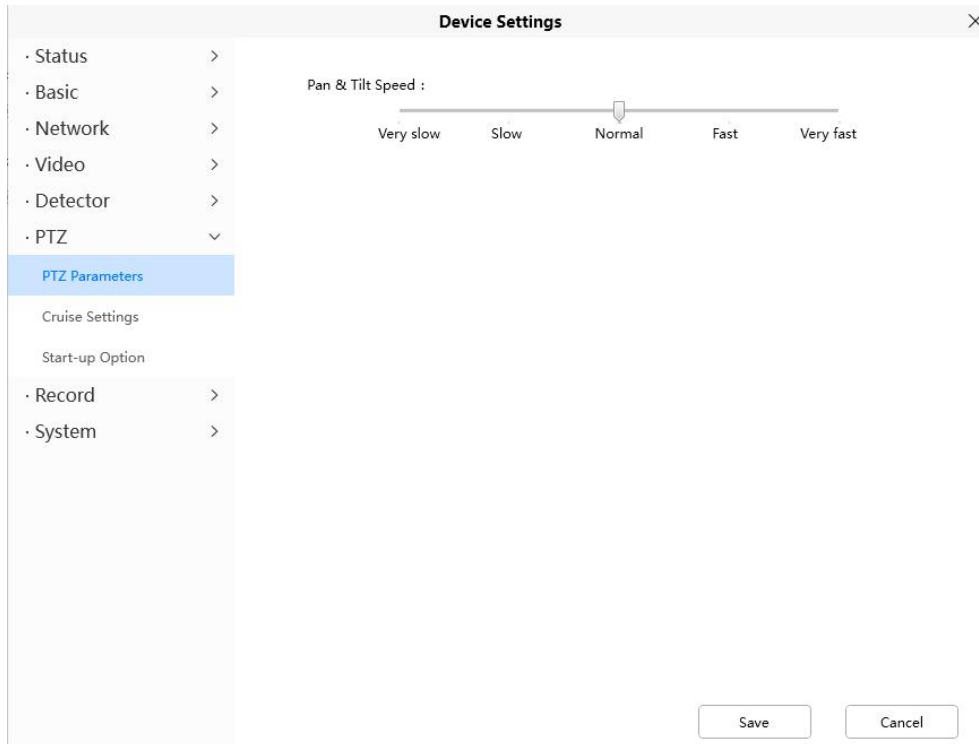
## 3.6 PTZ

This page will allow you to change the pan/tilt speed and do cruise tracks settings.

### 3.6. 1 PTZ Parameters

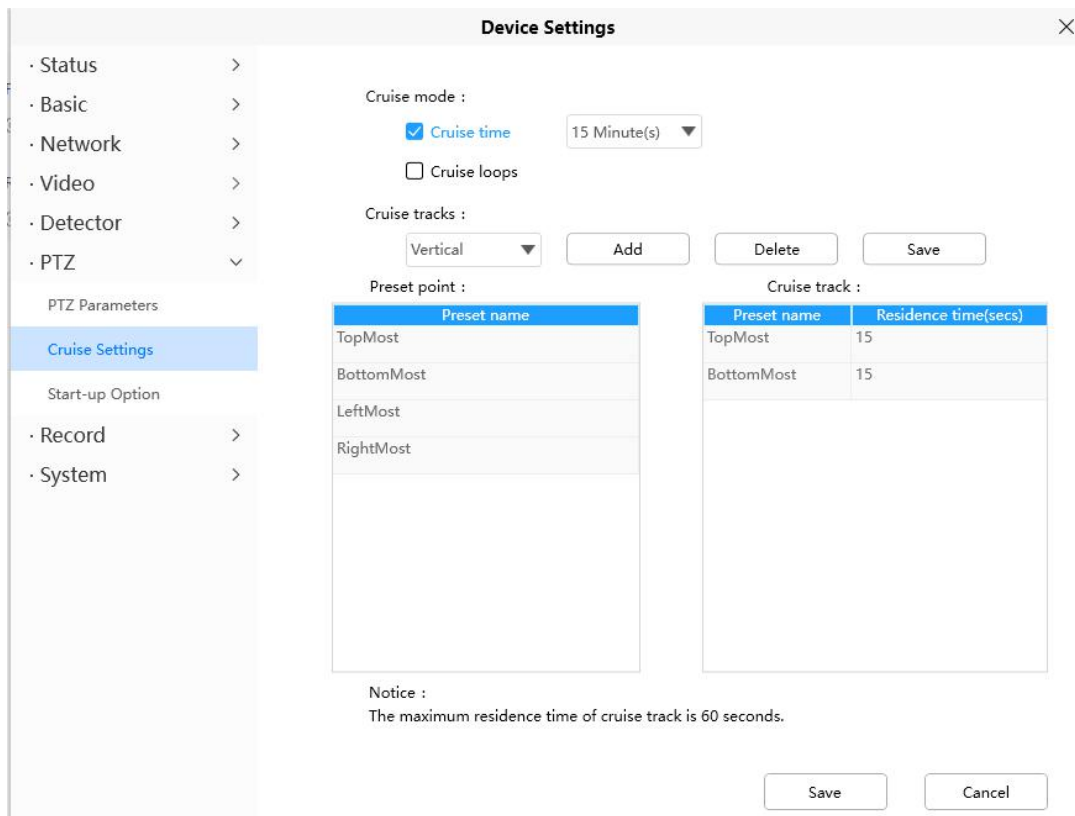
**Pan & Tilt Speed:** There are five Pt speed types: very fast, fast, normal, slow and very slow. Select the desired PTZ speed type and click save button.

**Note:** The cruise and preset function will be not available in case it starts without self-test



### 3.6.2 Cruise Settings

This section explains how to add/ delete/ alter one cruise track.



#### Setting the Cruise Mode

**Cruise mode:** Cruise time.

**Cruise time:** Select Cruise time from Cruise Mode drop-down, then you can set the Cruise time of the



camera.

Click **Save** to take effect.

### 3.5.3 Start-up Option

This section will allow you to set the stop position after the camera reboots.

It supports three modes: Disable Start-up, Go to home position and Go to preset point.

No self-test: When rebooting, the camera will not pan / tilt.

Disable Start-up: When rebooting, the camera will Provide Central Management Software to manage or monitor multi-cameras n / tilt and stops at center.

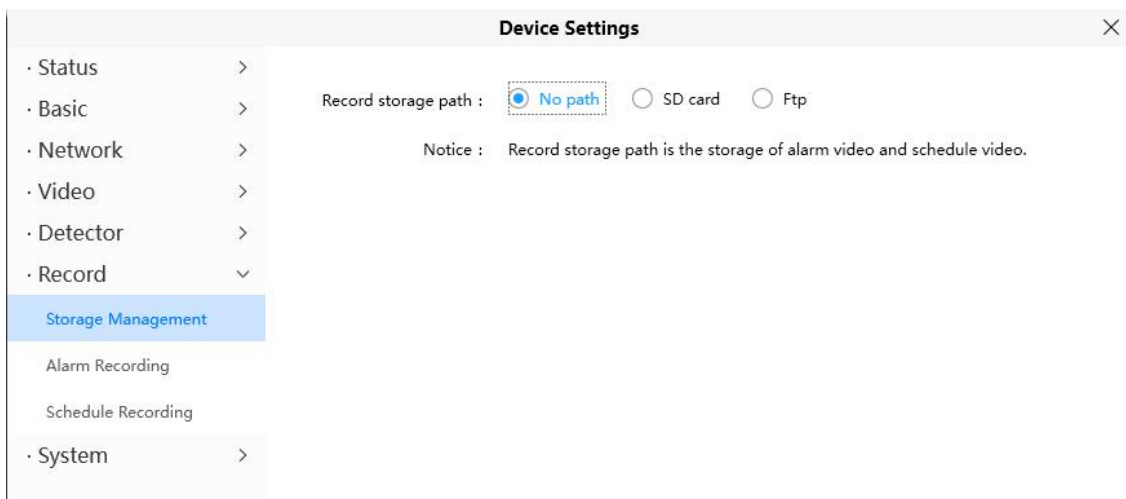
Go to Preset point: Select one preset position and save it. When rebooting, the camera will pan/ tilt and stop at the preset position you have set.

The screenshot shows a 'Device Settings' window with a sidebar on the left and a main content area on the right. The sidebar contains a list of settings categories: Status, Basic, Network, Video, Detector, PTZ, PTZ Parameters, Cruise Settings, Start-up Option (highlighted in blue), Record, and System. The main content area is titled 'Start-up Option :'. It contains three radio button options: 'Disable Start-up', 'Go to Home position' (which is selected), and 'Go to Preset position'. Below these options, there is a note: 'The cruise and preset function will be not available in case starts without self-test.' At the bottom right of the window, there are two buttons: 'Save' and 'Cancel'.

## 3.7 Record

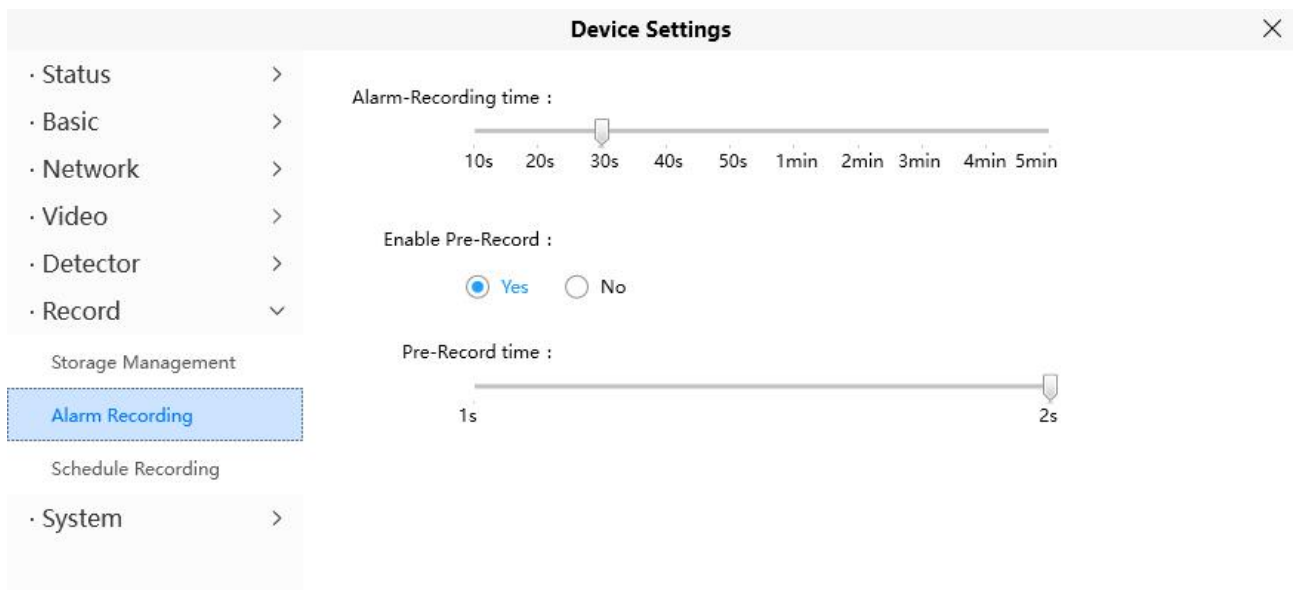
### 3.7.1 Storage Management

On this page you can choose Record Storage Path. The record storage path default is No Path



### 3.7.2 Alarm Recording

On this page you can configure the Alarm-recording Time, enable pre-recorded time and Pre-Record Time



### 3.7.3 Schedule Recording

On the page you can configure the schedule record.

Device Settings ✕

- Status >
- Basic >
- Network >
- Video >
- Detector >
- Record >
- Storage Management
- Alarm Recording
- Schedule Recording
- System >

Enable schedule :  Yes  No

Audio record :  Yes  No

Full strategy :  Cover  Stop

Stream :  Main stream  Sub stream

Schedule [🔗](#)

All	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Mon.																								
Tues.																								
Wed.																								
Thur.																								
Fri.																								
Sat.																								
Sun.																								

Click **Save** button to take effect.

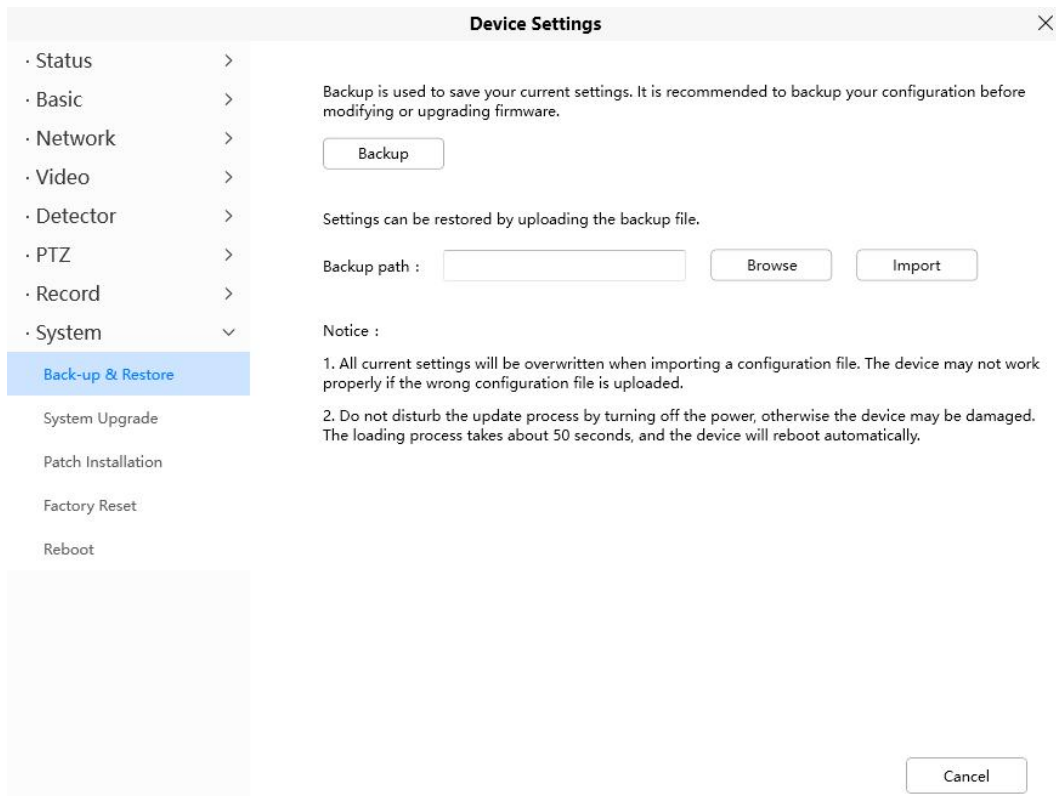
## 3.8 System

In this panel, you can backup/restore your camera settings, upgrade the firmware to the latest version, restore the camera to default settings and reboot the device.

### 3.8.1 Back-up & Restore

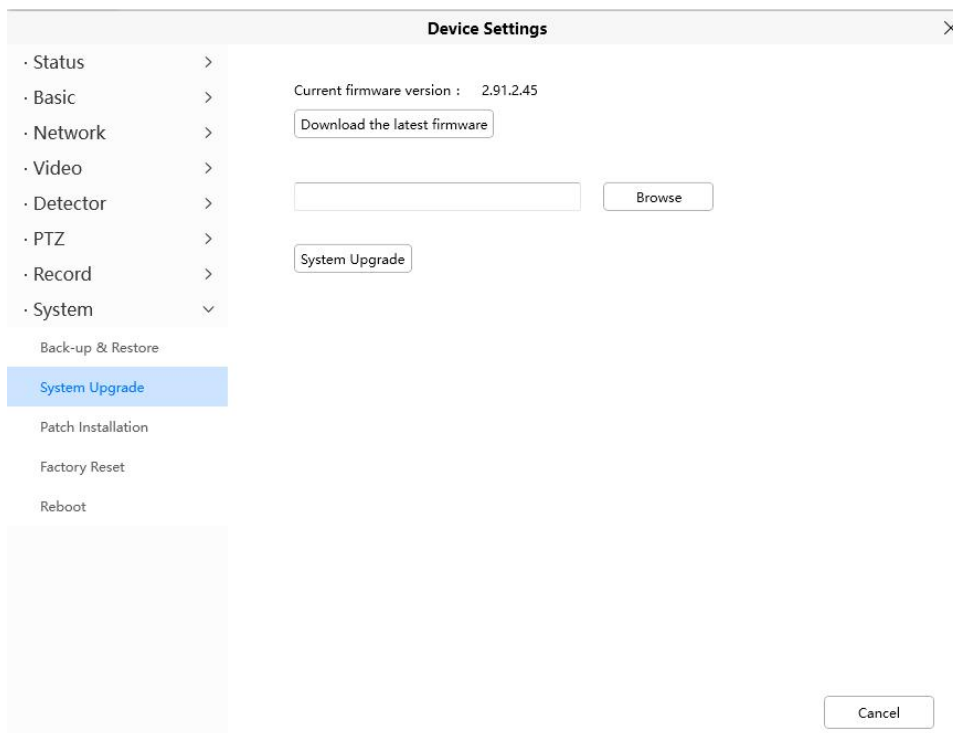
Click Backup to save all the parameters you have set. These parameters will be stored in a bin file for future use.

Click Browse and select the parameters file you have stored, then click Submit to restore the parameters.



### 3.8.2 System Upgrade


Click **Download the Latest Firmware**, you will see the following screen. And click **Save** to save the firmware on your computer locally.

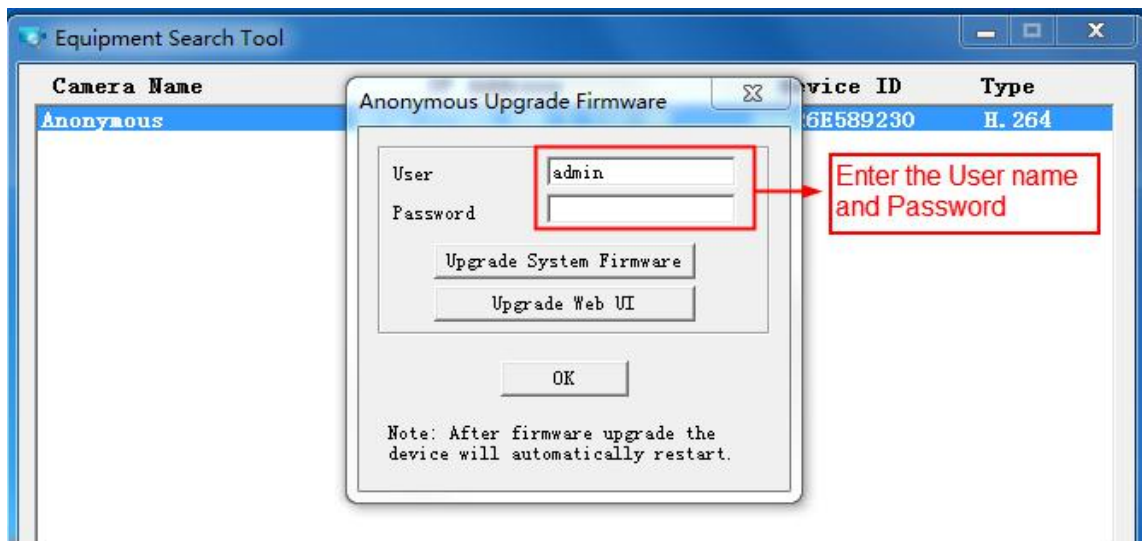
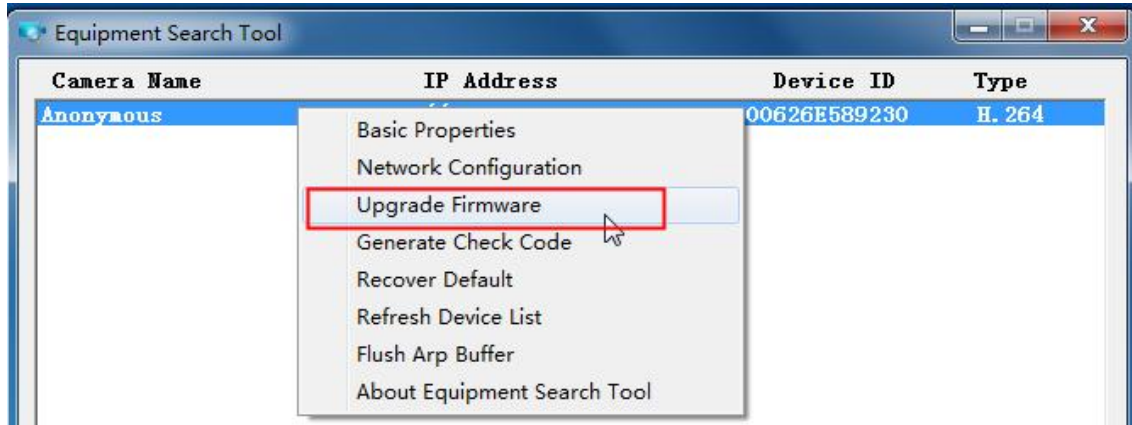


Your current firmware version will be displayed on your screen. You can go to the **Status > Device Information** page to check for the latest firmware versions available.

Click **Browse**, choose the correct bin file and then click **System upgrade**.  
Don't shut down the power during upgrade. After upgrading, you can see the upgrade result.

### Upgrade Firmware by Equipment Search Tool

Double click the IP Camera Tool shot icon , select the Camera IP that you want to upgrade the firmware. Then select Upgrade Firmware and enter the username and password, choose the firmware file, and upgrade.



**CAUTION:** We recommend that you regularly update your camera to the latest available software and firmware versions to help ensure the best experience for your camera.

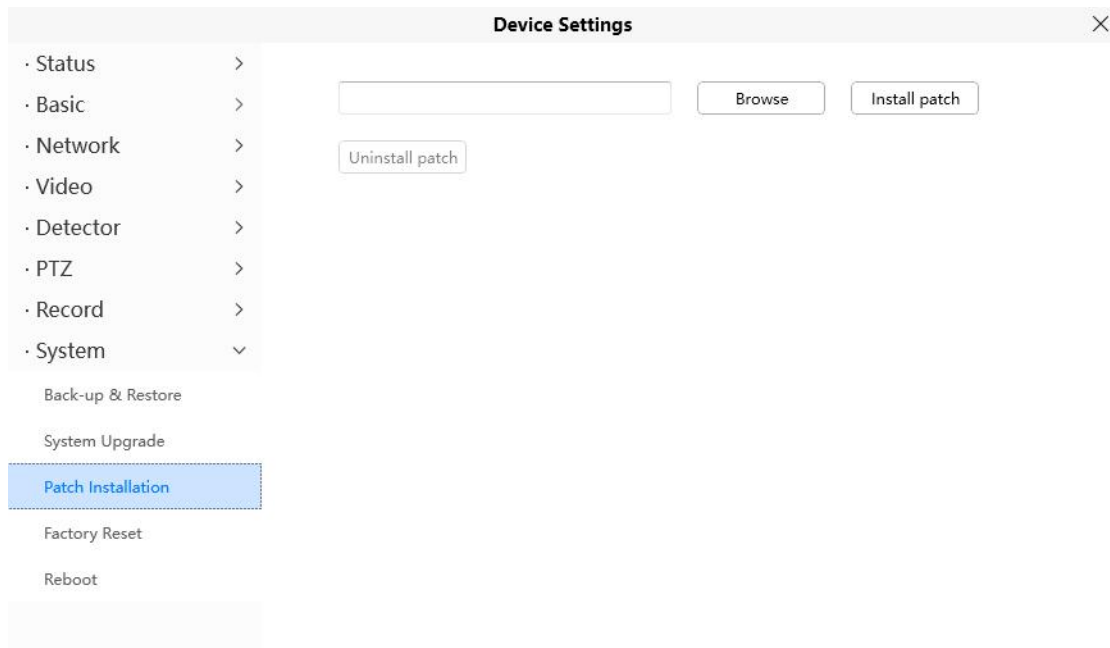
#### NOTE:

- 1) Please ensure you have downloaded the correct firmware package for your camera before upgrading. Read the upgrade documentation (readme.txt file) in the upgrade package before you upgrade.
- 2) Upon downloading the firmware check the sizes of the .bin files. They must match the size in the readme.txt file. If not, please download the firmware again until the sizes are the same. Your camera will not function correctly if a corrupt .bin file is used.
- 3) Never shut down the power of the camera during upgrade, wait until the IP camera restarts and gets connected.
- 4) After upgrade successfully, please clear the cache of the browser, uninstall the old plugin and

re-install it, then reset the camera to the default factory settings before using the camera.

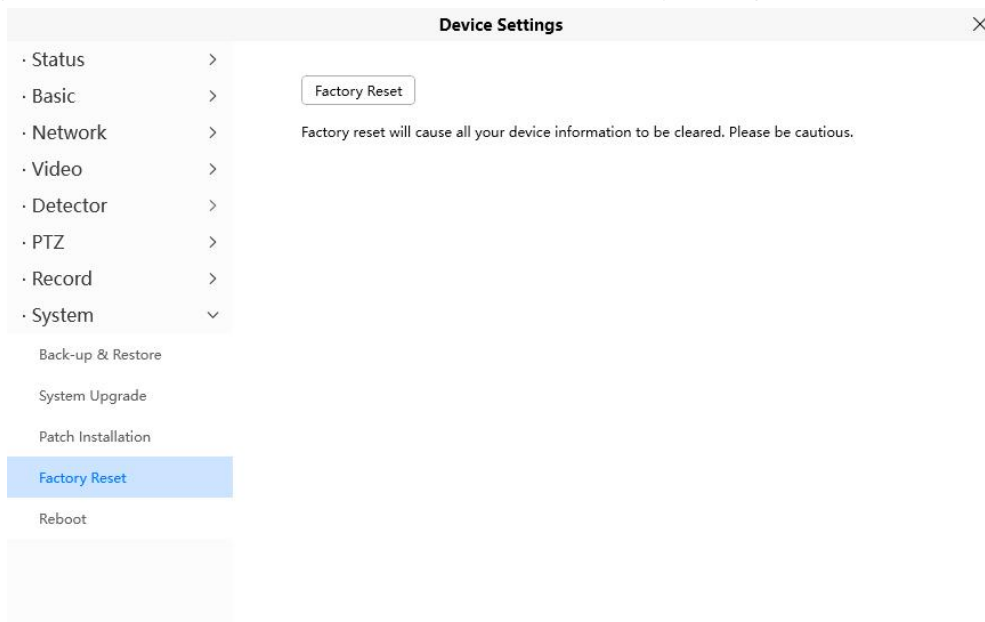
### 3.8.3 Patch Installation

Click "**Browse**" to select the correct patch file, and then click "**Install Patch**" to install the patch. Do not turn off the power during it installing. After installing is complete, you will receive a system prompt.



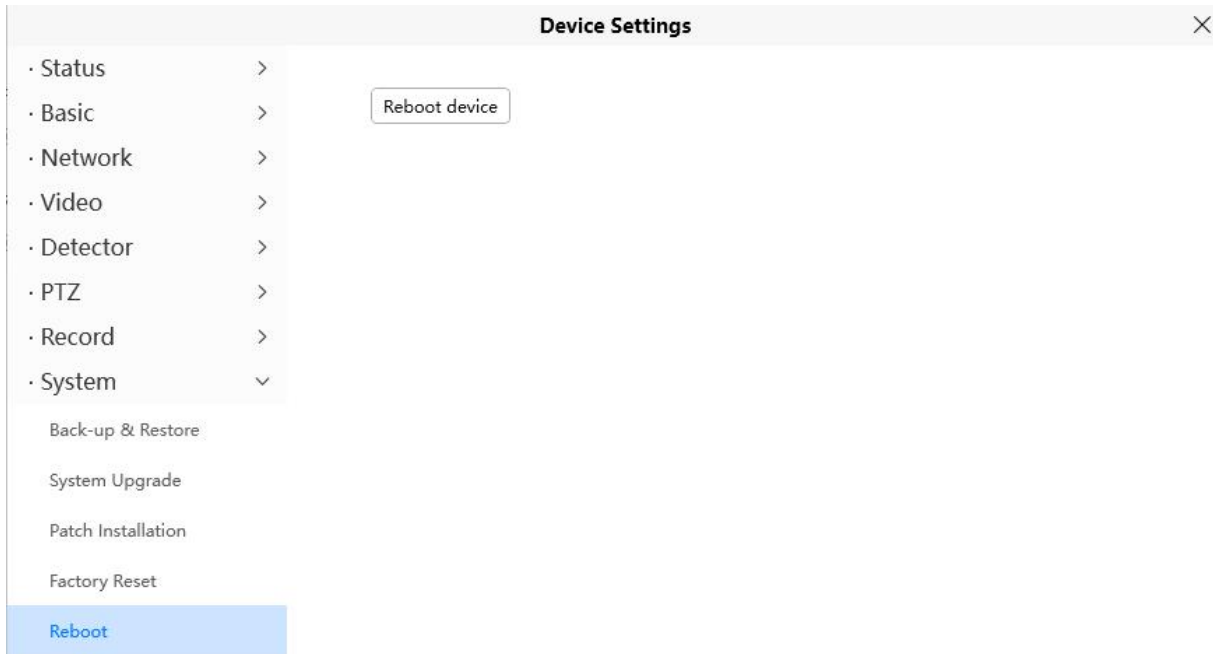
### 3.8.4 Factory Reset

Click **Factory Reset** button and all parameters will return to factory settings if selected.



### 3.8.5 Reboot

Click **Reboot** to reboot the camera. This is similar to unplugging the power to the camera.



## 4 Obtaining Technical Support

While we hope your experience with the IPCAM network camera is enjoyable and easy to use, you may experience some issues or have questions that this User's Guide has not answered.

If you have a problem with the FOSCAM IP camera, please first contact a FOSCAM reseller for solving the problems. If our reseller cannot provide a service, please contact our service department:

[support@foscam.com](mailto:support@foscam.com)

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