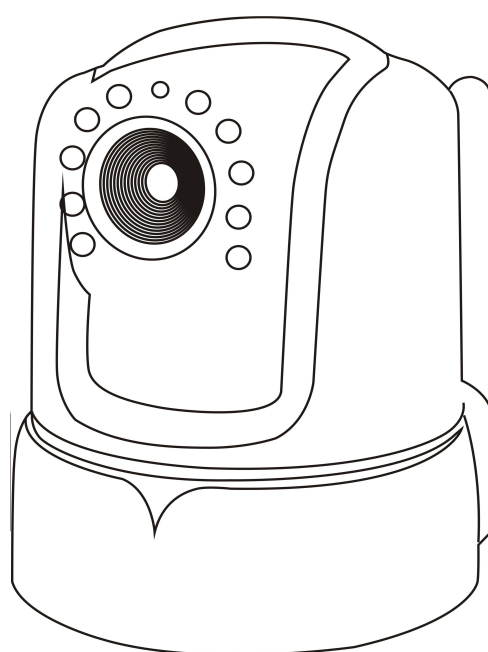


HD Pan Tilt IP Camera



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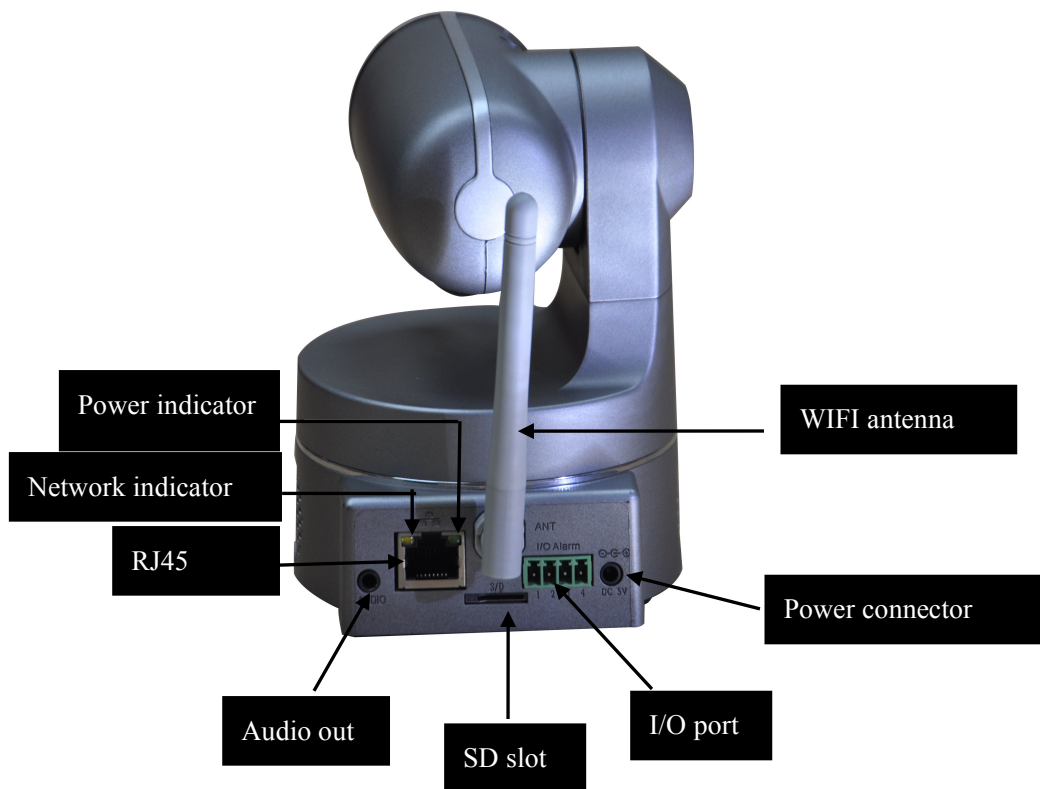
Network Camera Installation Manual

Tips: If necessary, reset the camera; please find the "RESET" button at the bottom of the device or in the tail of device , hold 10 seconds to reset while it is power connected!

1. Hardware installation

1.1 Hardware connection

Connect the power supply and network cable, Check if the power indicator (green) and the network indicator (yellow) is working properly. If it is ok, then Pan and tilt will rotate automatically .



Note: picture is for reference only, To prevail in kind!

Power indicator: indicator is on while power on.

I/O port: connect with PIR /alarm etc.

Network indicator: Flashes when transferring data

Power supply: 5V

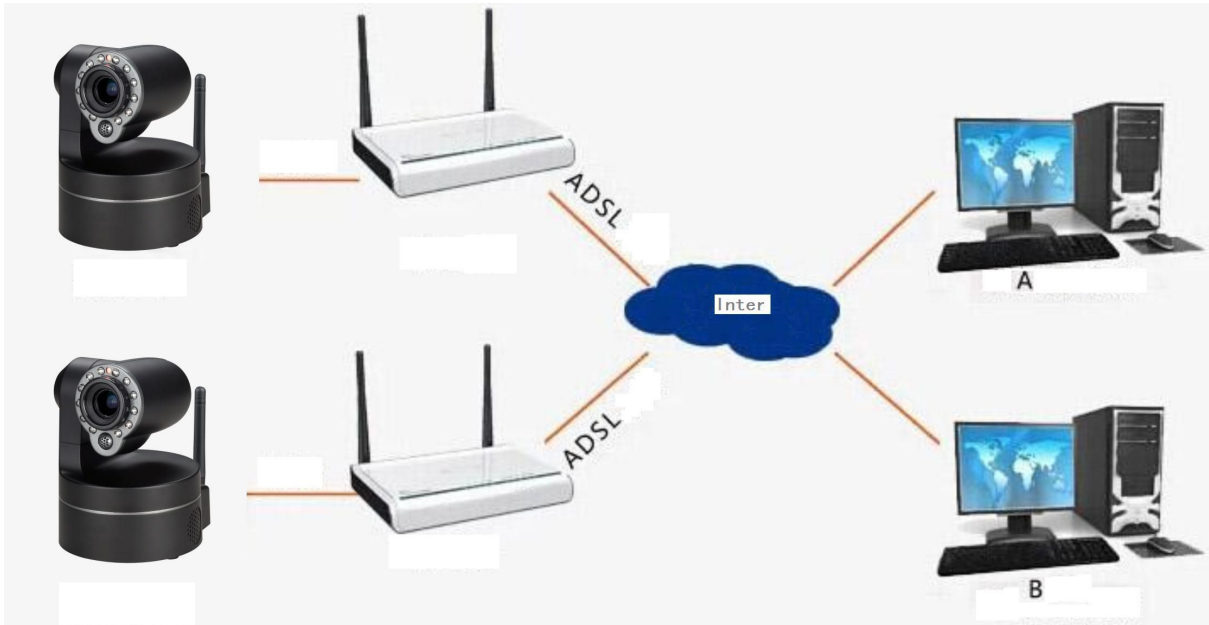
RJ45: connect with router

SD slot: for TF/SD card

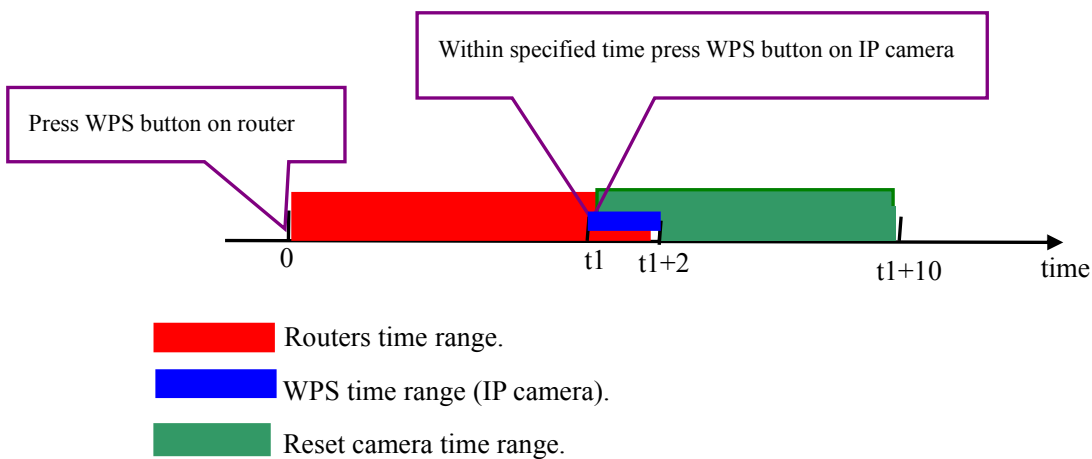
WIFI antenna: Receiving a wireless signal

Audio output: connect with speaker.

1.2 Network connection



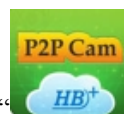
1.3 WPS setting



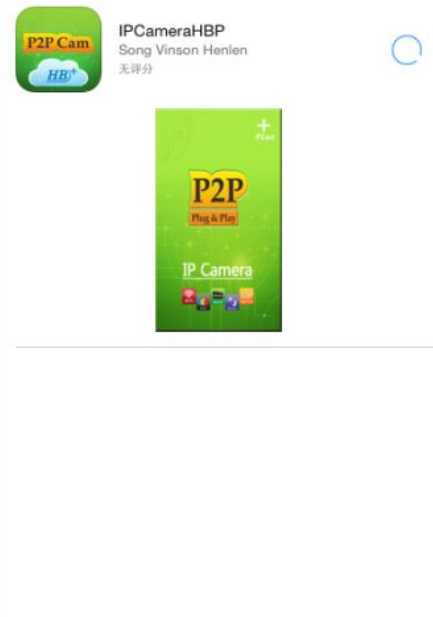
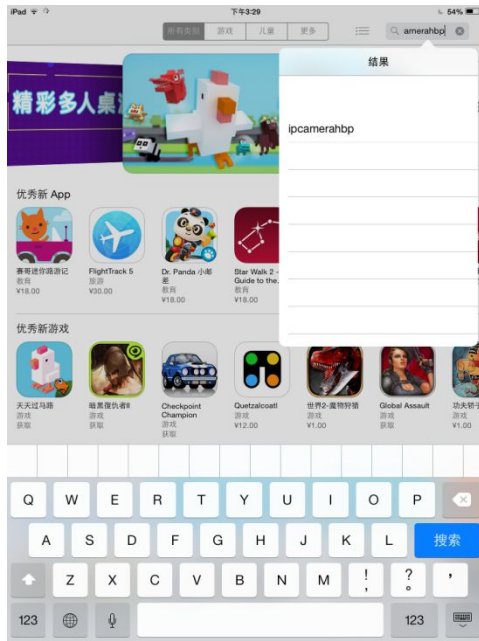
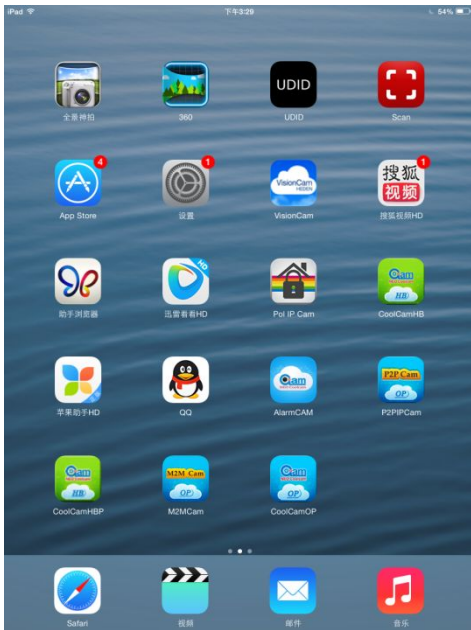
1. Press the Router WPS button at 0 second, the Router will set a time range (the red area), press the IPCAM WPS button during the time range then the WPS is workable;
2. Press the IPCAM WPS during the red time range, such as start at t1 and end at t1+2(the blue area);
3. If press the IPCAM WPS more than 10 seconds, the camera will be reset, such as press at t1 more than t1+10, it is reset function not WPS function.

2. iPad, iPhone App introduction

2.1 App download:



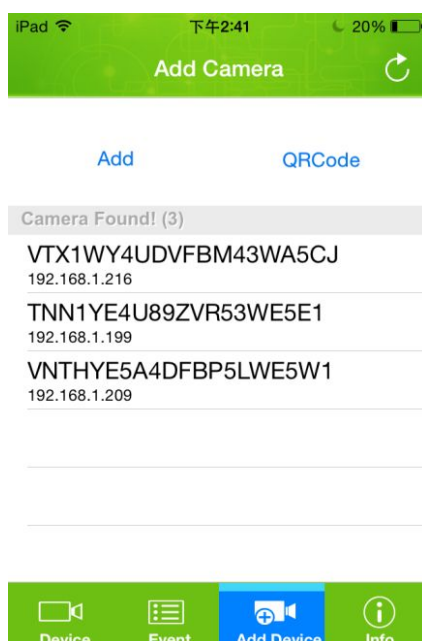
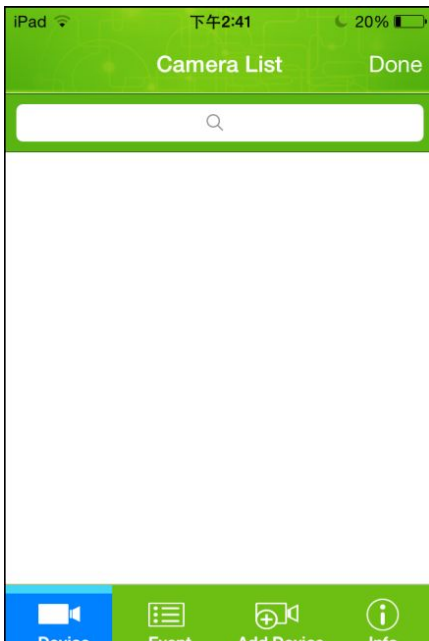
Search for key word "ipcamerahbp", and then choose "HB+" to download.

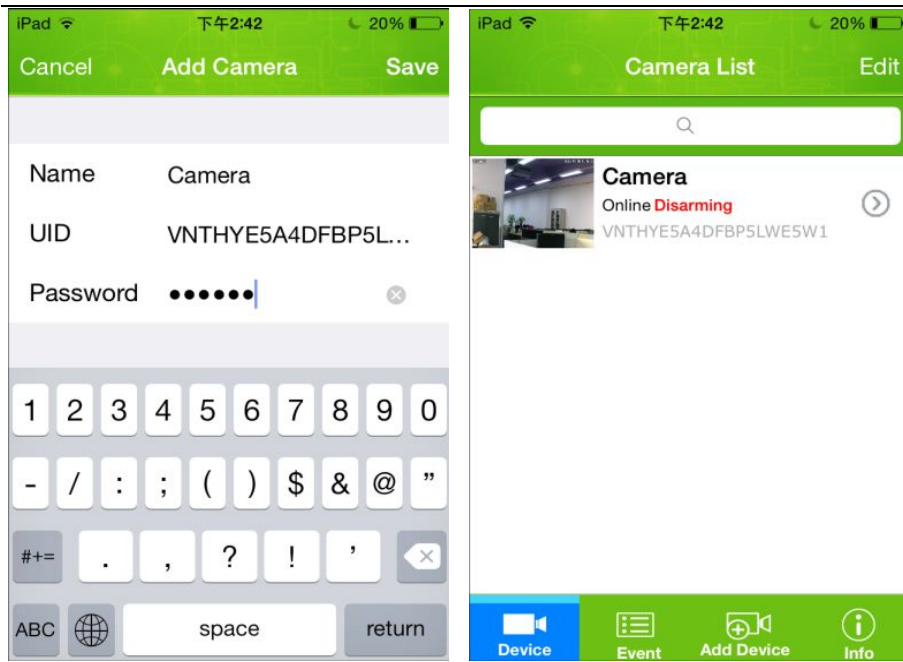


2.2 Add camera

There are 3 ways to add cameras: “search in LAN”, “scan QR code” and “Remotely Add”

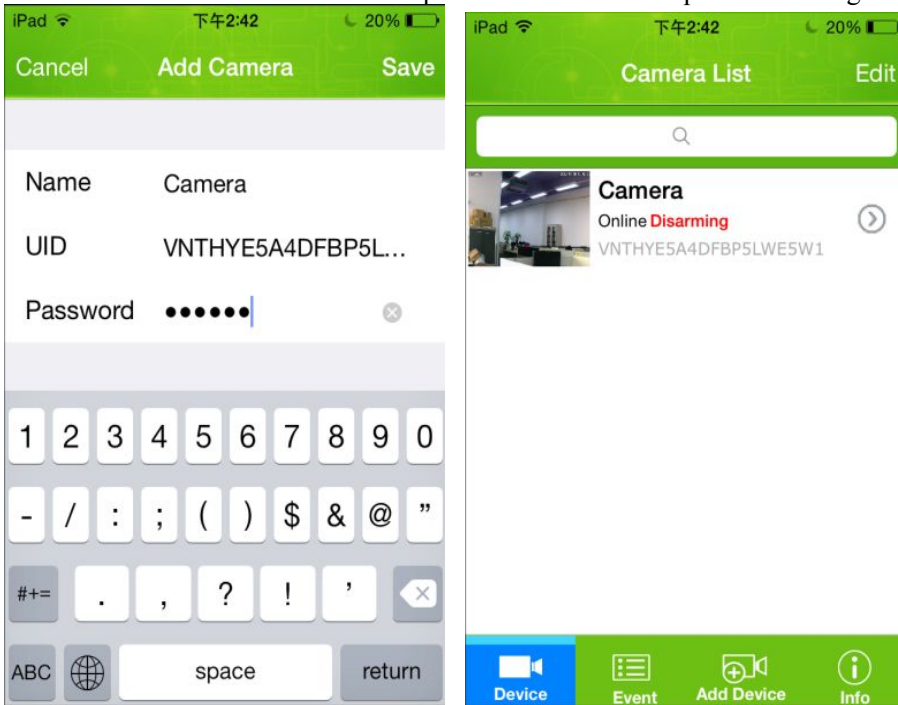
Way 1: in LAN network, click **Add Device** to auto search and add cameras in LAN network.





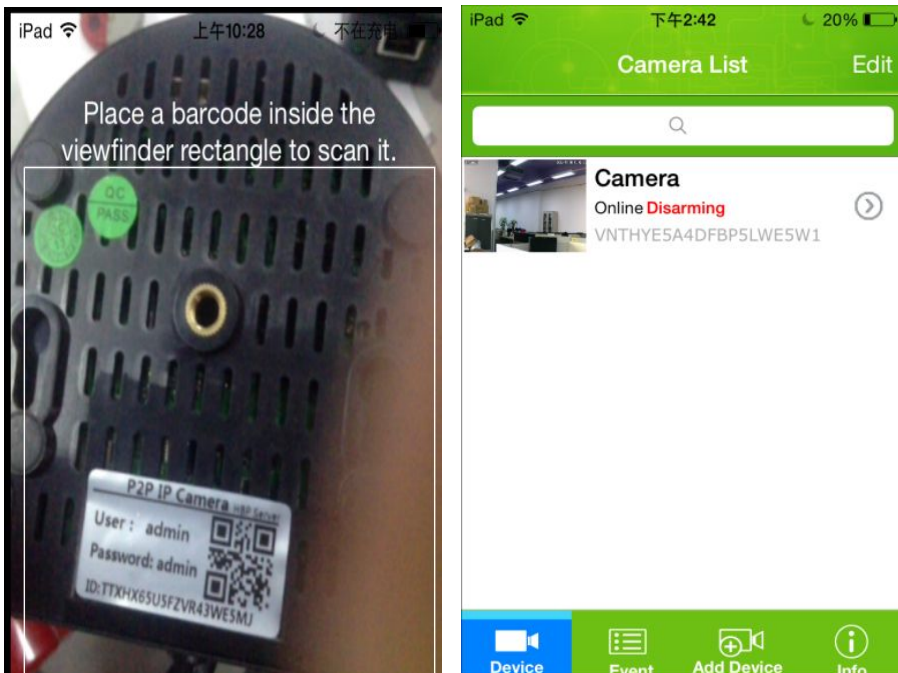
Way 2:

click “Add” in In “Add Camera”. Input camera’s UID and password to login the camera.



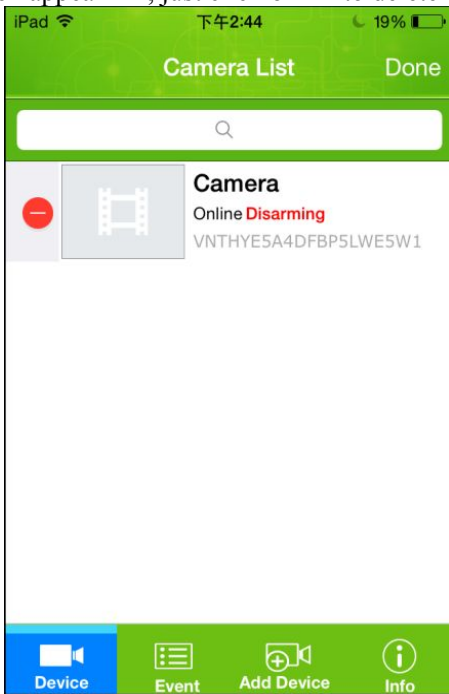
Way 3:

There is a QR Code at the bottom of camera, click on “QR Code” to scan it, then you can add camera.




3. Delete Camera

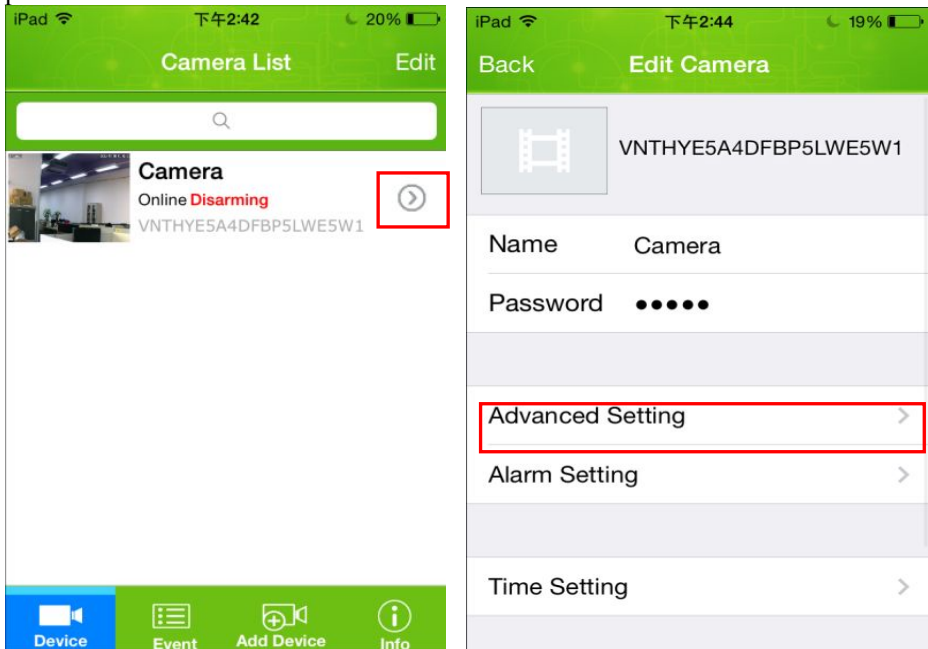
Click “Edit”, when appear , just click on  to delete it.

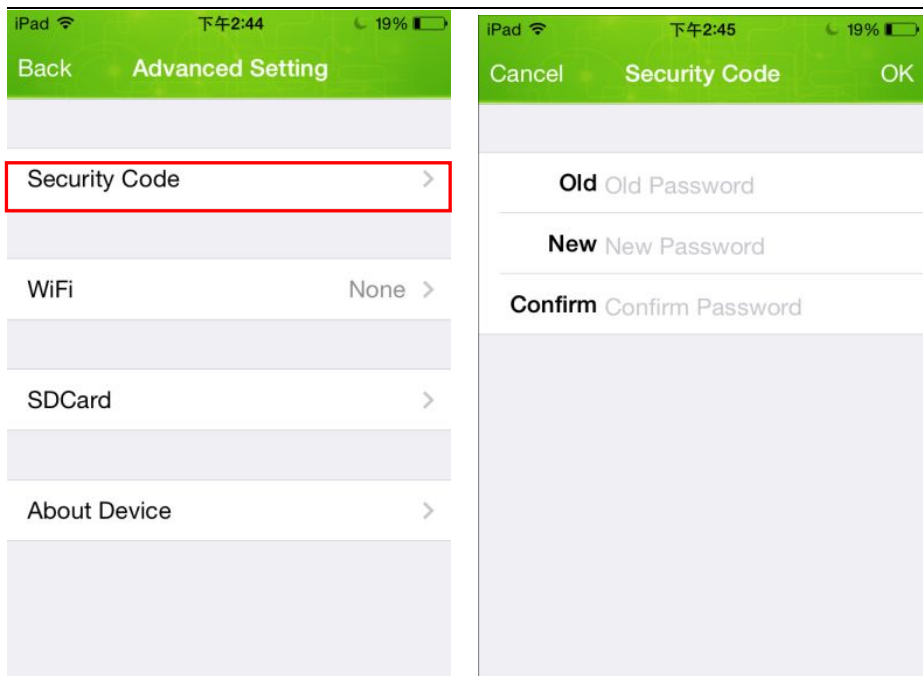


4. Parameter setting

4.1 Security code setting

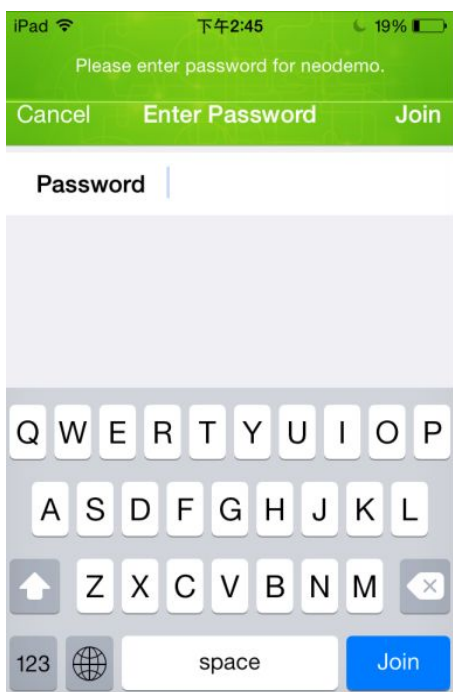
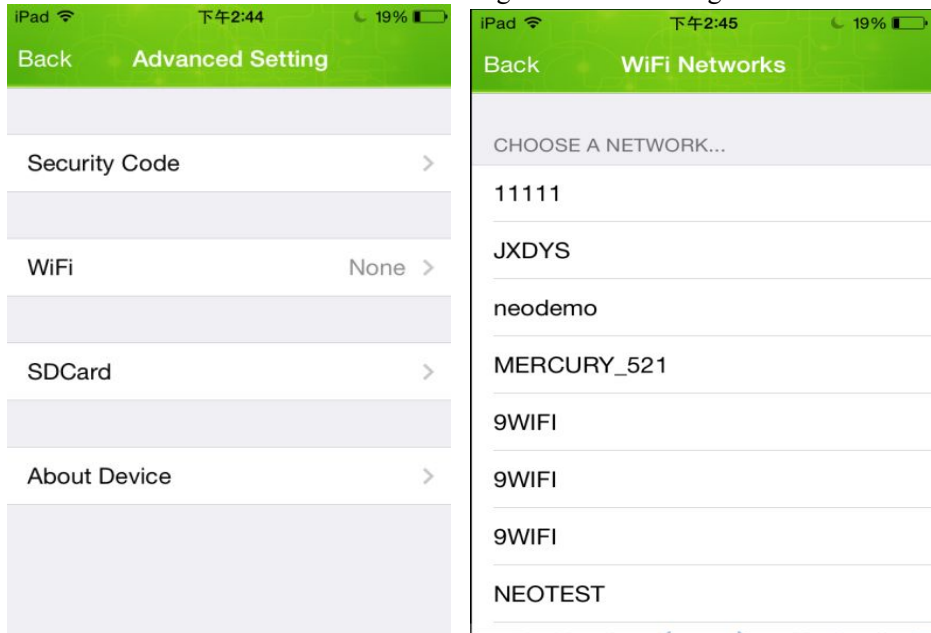
In camera list, click on  to enter edit interface, click on “Advanced setting” to modify the security password.





4.2 WIFI setting

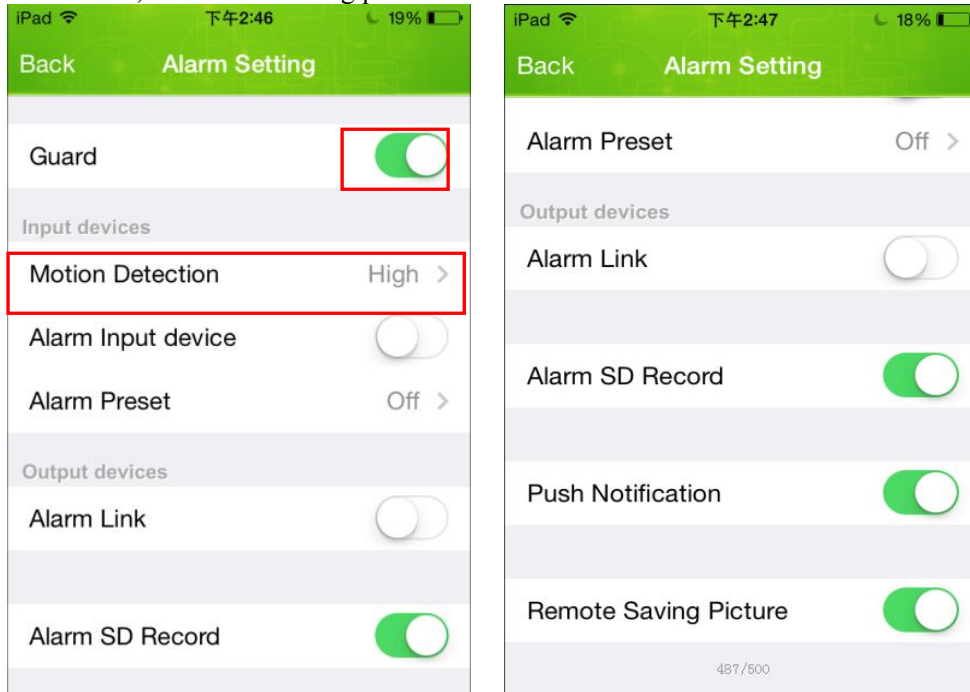
Click on wifi network in “Advanced setting” to auto searching for camera’s nearby wifi hotspot.



5. Alarm setting

5.1 Motion detection alarm setting

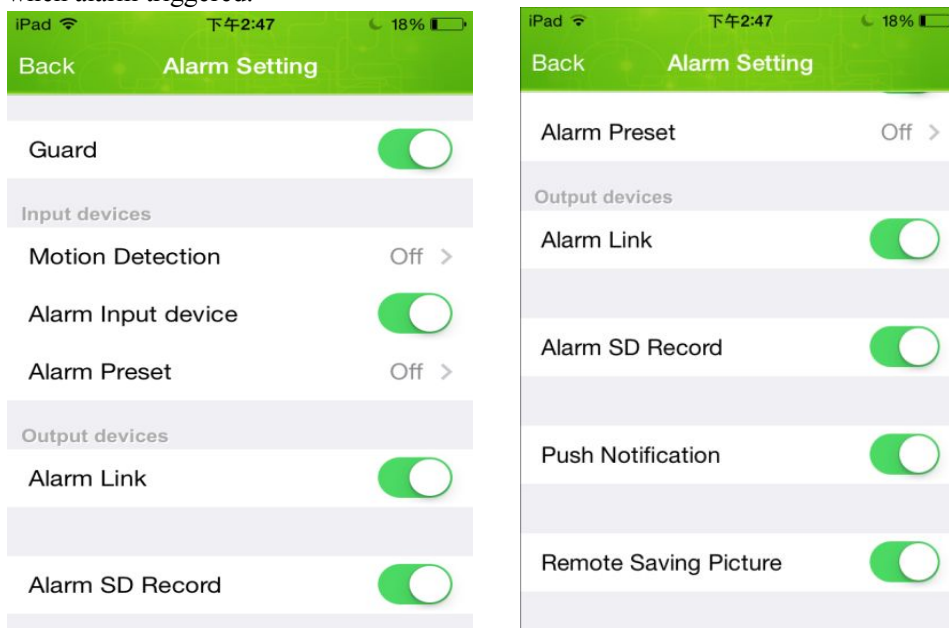
Motion detection setting: Turn on “Guard”, choose the sensitivity, alarm SD card recording, push notification, and remote saving pictures.



5.2 External alarm setting

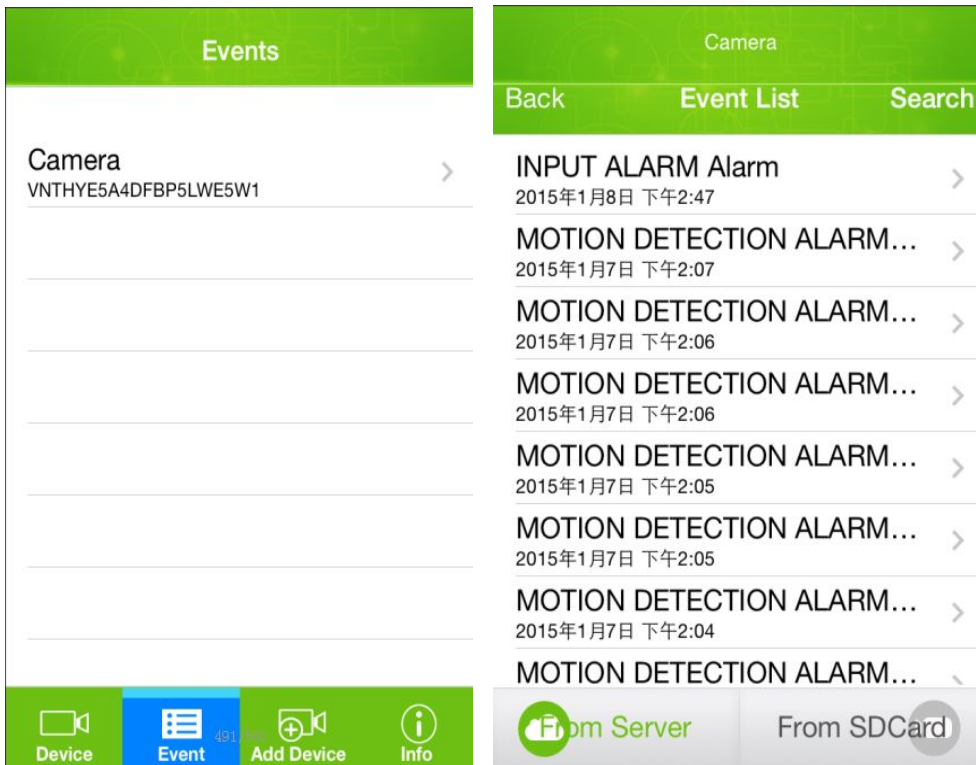
External alarm setting: security on guard, input alarm devices, alarm link, alarm SD card record, push notifications and saving pictures.

Push notification: after turn on push notification function, alarm pictures will be saved on to FTP server when alarm triggered.

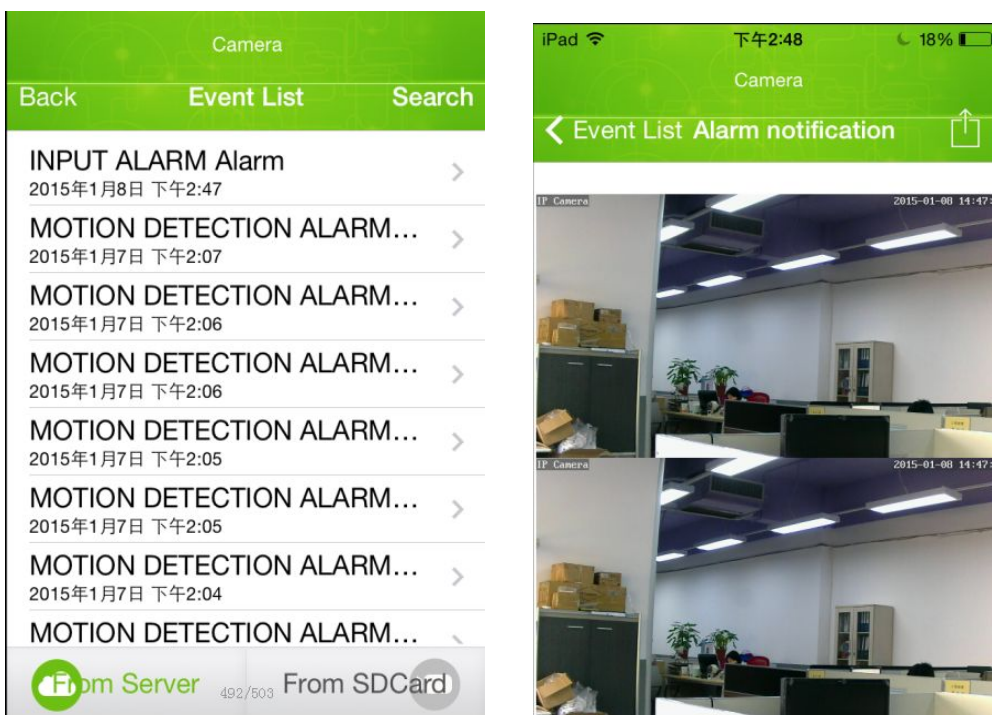


6. Check events

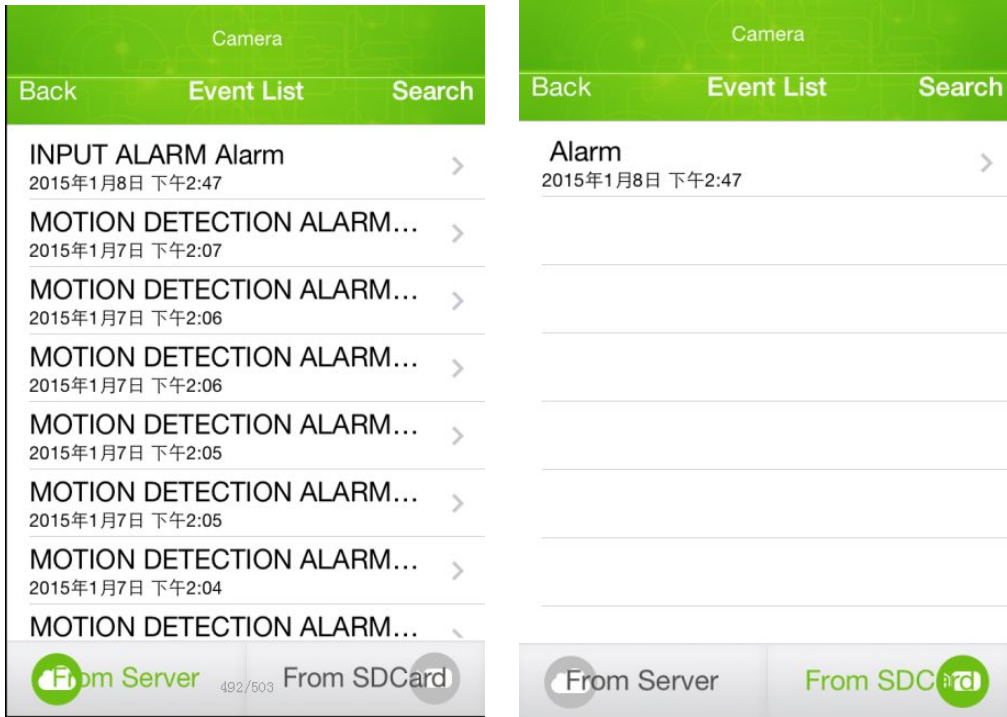
In “event”, choose to check the push notifications, event lists, alarm snapshot pictures and videos in SD card. After exit back ground running, users can receive push notifications, he can click it to check the event and snapshot pictures.



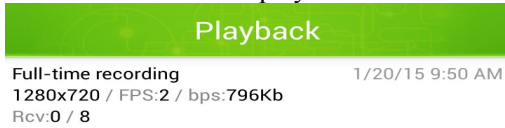
6.1 check alarm push notification pictures:



6.2 Check alarm video:



SD Card Video online playback:



7. Introduction of Android App:

7.1 App download:


Way 1: copy the app installation file to your Android smart phone from the CD(which comes with the camera package)

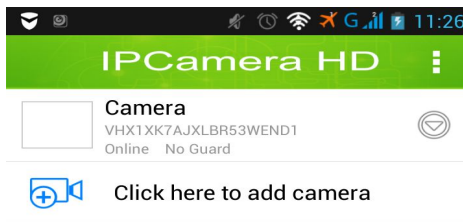
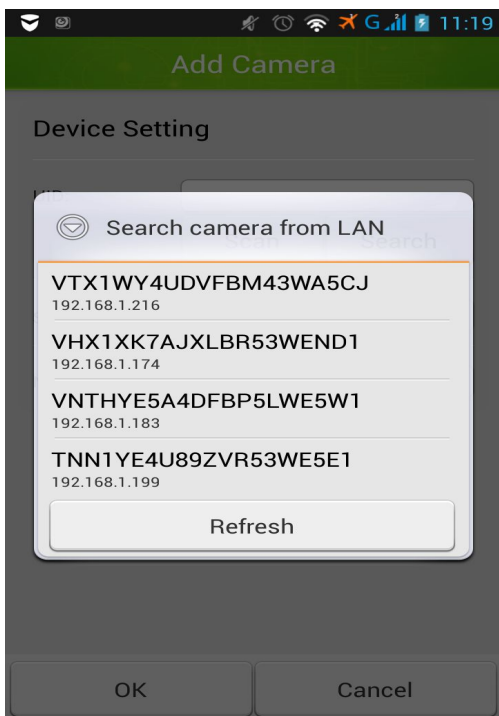
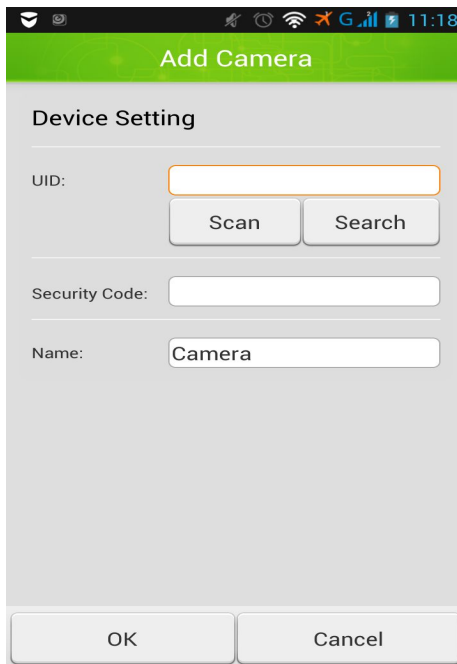
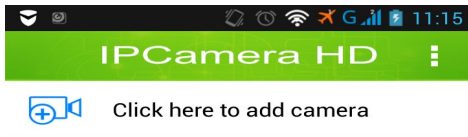


Way 2: Search for it by keyword “ipcamerahbp” in Googleplay.

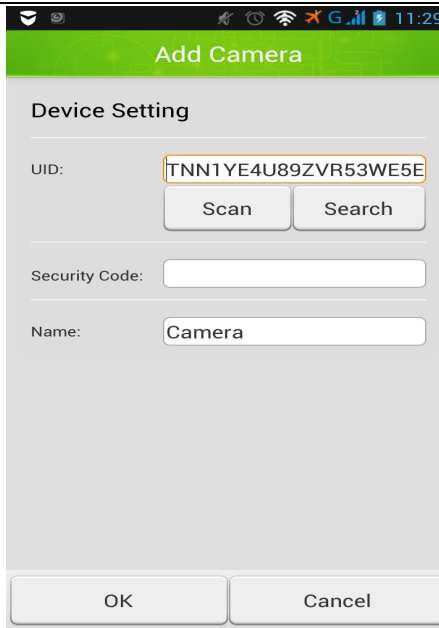
7.2 Add camera

There are 3 ways to add cameras: “search in LAN”, “scan QR code” and “Remotely Add”

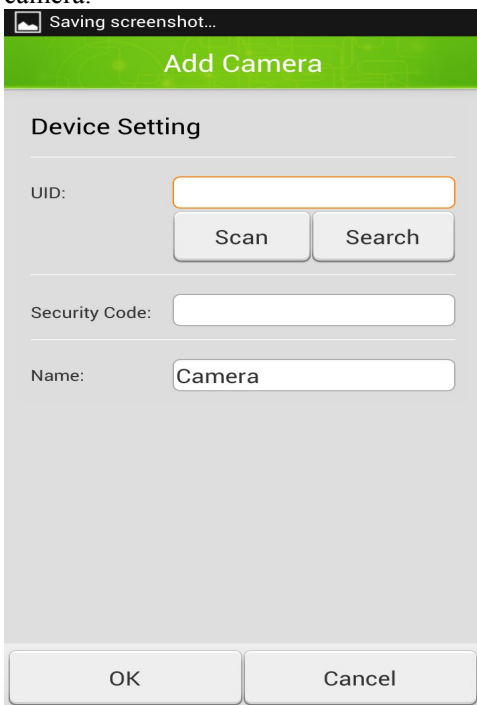
Way 1: in LAN network, click  to auto search and add cameras in LAN network.



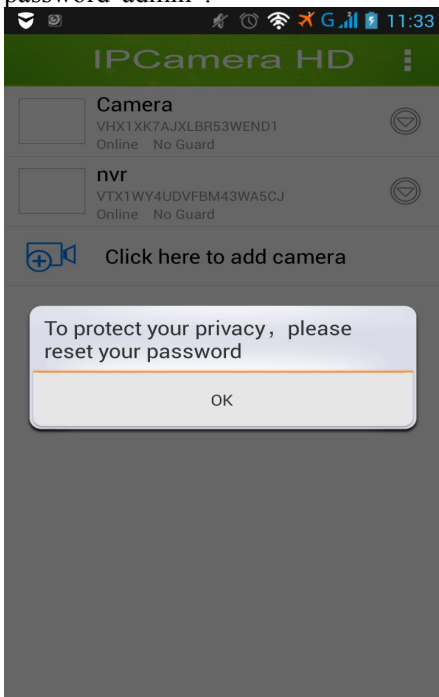
Add camera by scan QR code, shown as bellow.




Remotely add camera: click “Add” in “Add Camera”. Input camera’s UID and password to login the camera.

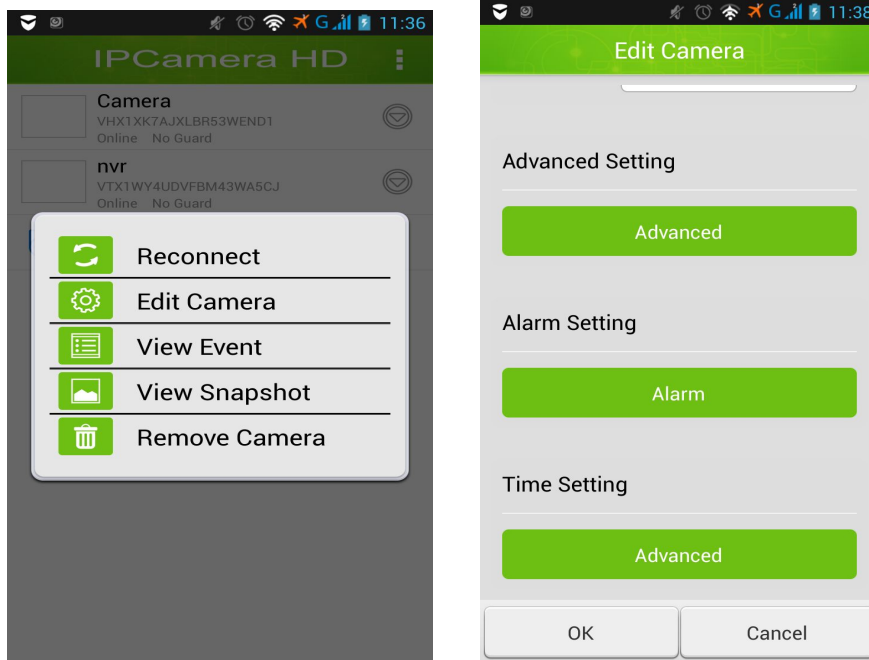


It will ask you to modify the password when it is the first time login. Advise don't use factory password "admin".

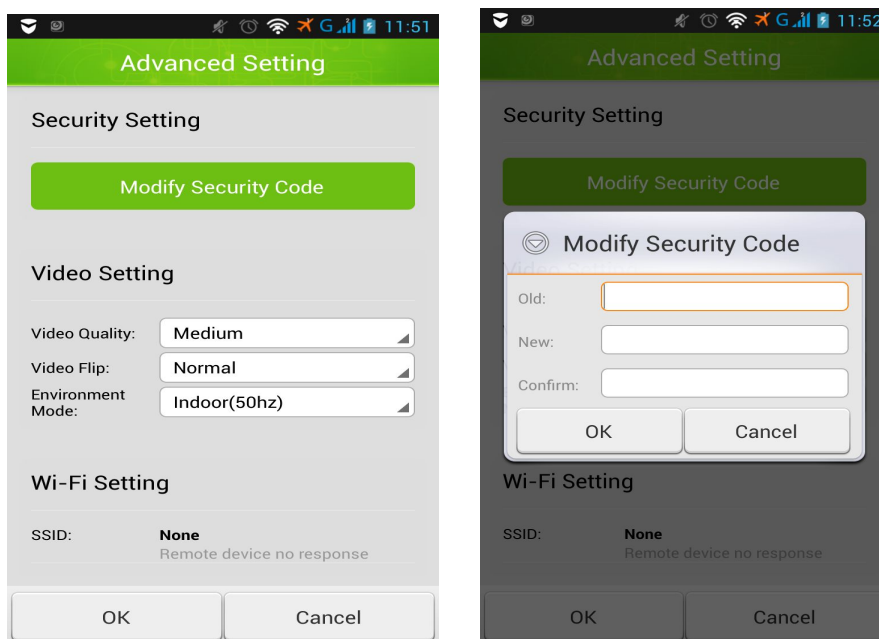


8. Parameter settings

Click on  to choose camera, then you can modify user name, password, advanced setting and alarm setting.



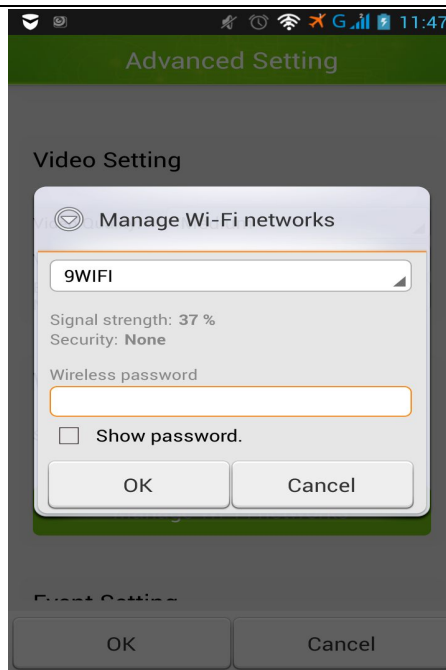
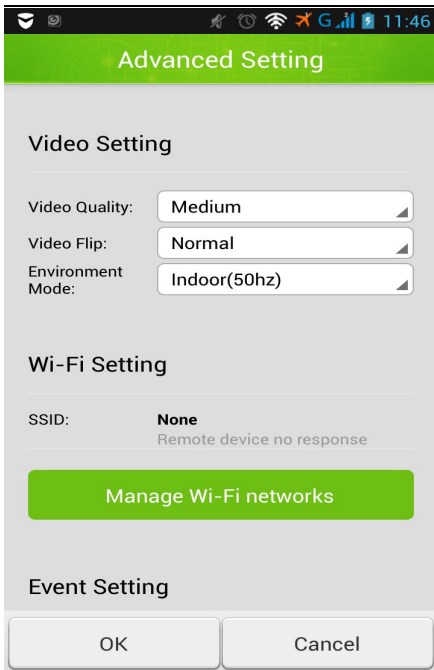
8.1 Modify the password of the camera



click the "Settings" in the modified device, get into the "Advanced Settings", and click Change Password.

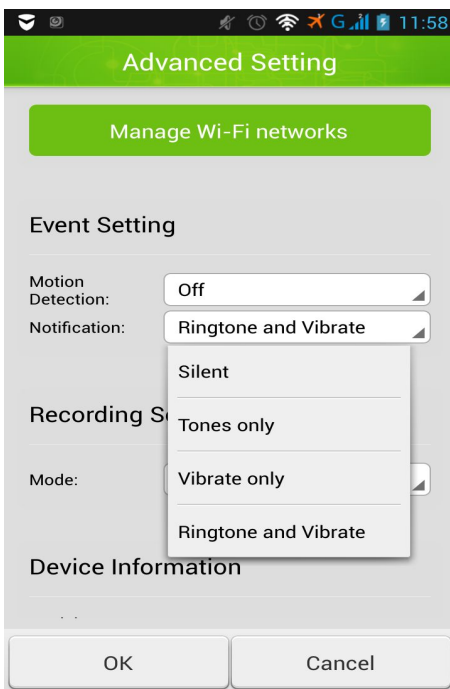
8.2 WIFI Settings

In the Advanced Settings , click Manage WIFI network, select the appropriate WIFI and enter the password in the drop-down box ,after setup and unplug the power to restart the network cable.



8.3 Event Setting

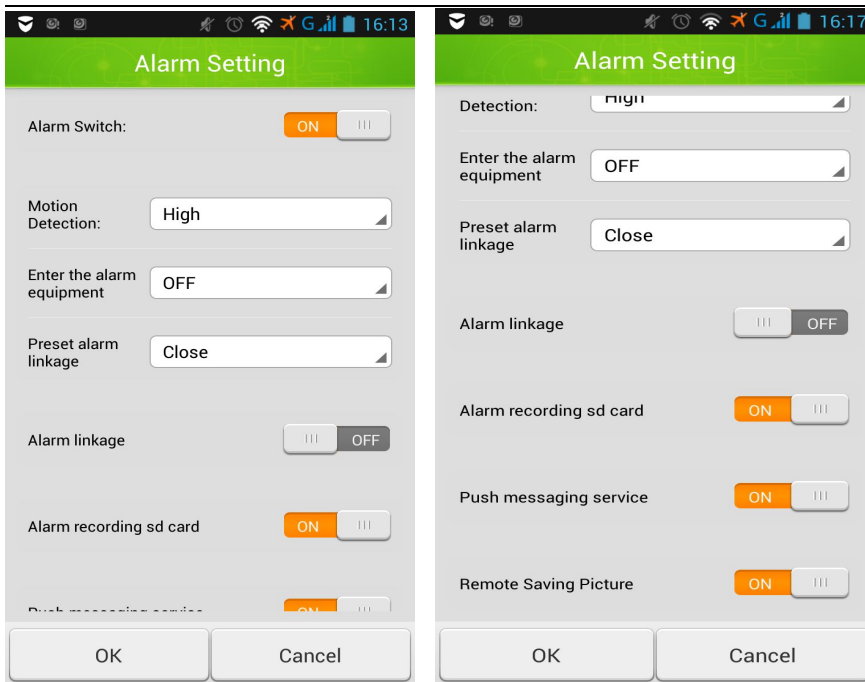
In the event settings, you can adjustment ring tones and sensitivity of motion detection.



9. Alarm setting

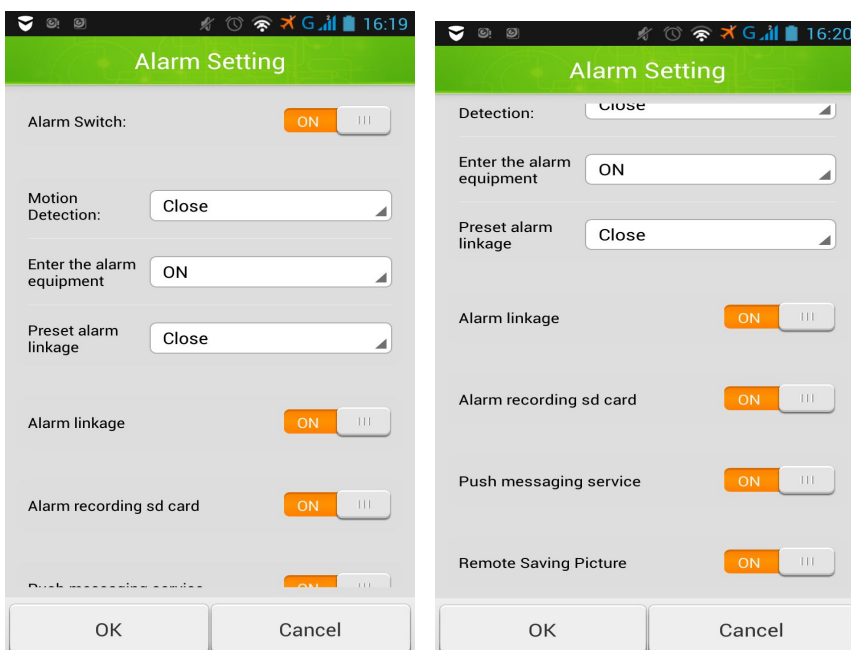
9.1 Motion Detection

Open the safety protection, set up motion detection, open alarm linkage , SD card recording, push messages alarm picture storage .



9.2 External alarm

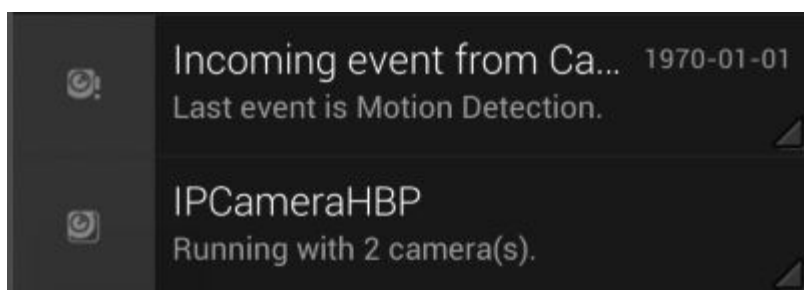
Open the safety protection, set up motion detection, open alarm linkage , SD card recording, push messaging , alarm picture storage .



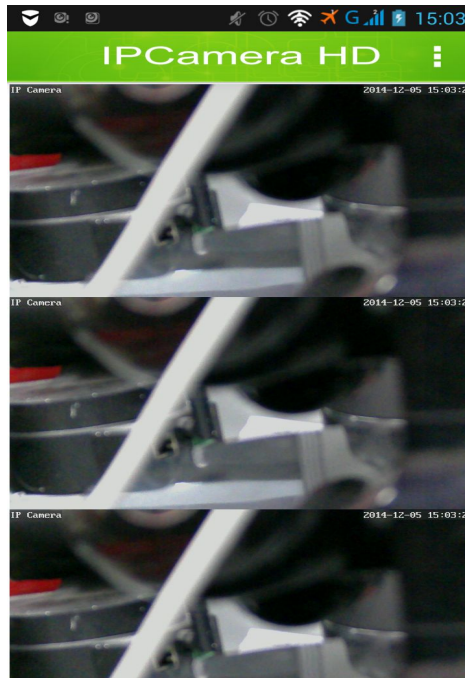
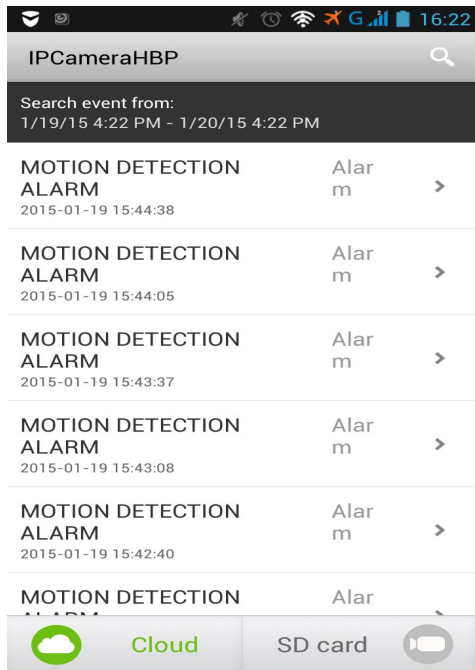
10. Check the event

When alarm triggered and will send the pictures to FTP server.

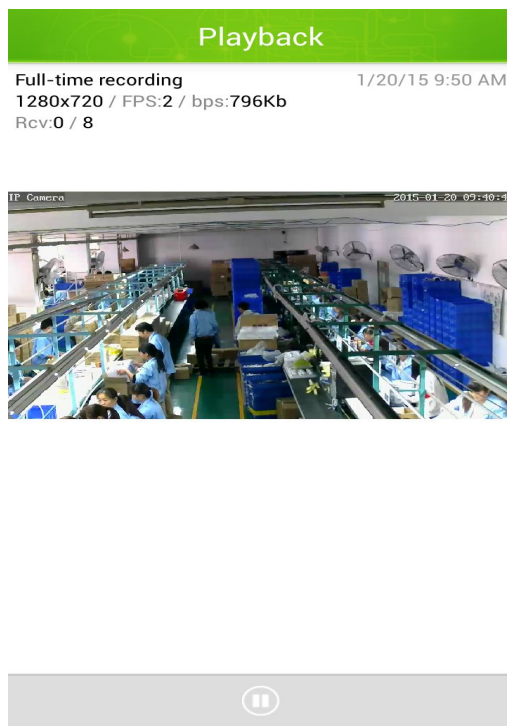
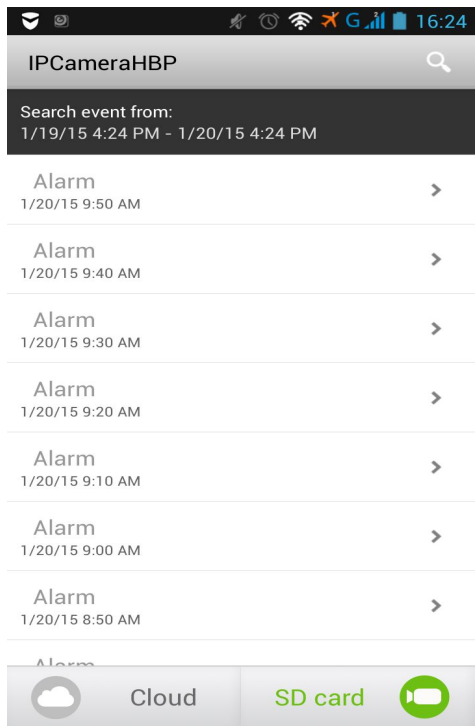
When alarm triggered and will get push notifications on the phone.



10.1 Check the SD card pictures



10.2 Playback of the Sd card recording



11.Full-time recording

Playback











Full-time recording 1/20/15 9:50 AM
 1280x720 / FPS:2 / bps:796Kb
 Rcv:0 / 8



Slide to the left, on the phone then will to see more function icons



Introduction the video interface function icons

| | | | | | | | |
|---|-------------------|---|------------------------|---|----------------------|---|--------------------|
|  | monitor/inter com |  | talk |  | take photos |  | store the pictures |
|  | alarm switch |  | preset position switch |  | Infrared lamp switch |  | flip top to bottom |
|  | Flips around |  | resoluti on |  | current setting | | |

12. PC client introduction

12.1Requirements for Client Installation.

Hardware environment

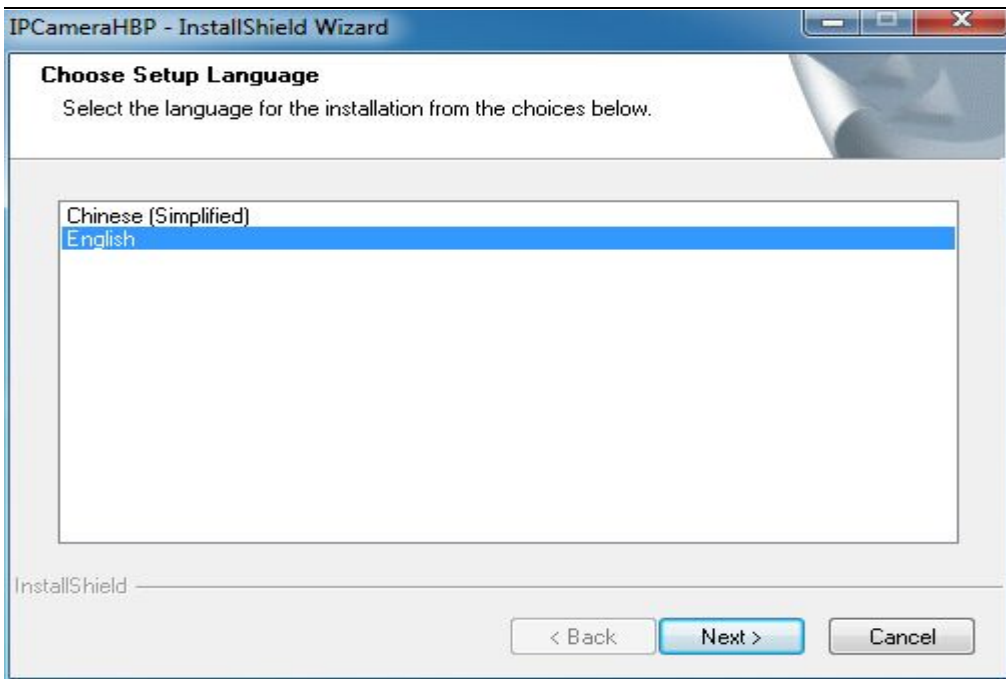
Processor: 2.06GHZ or above **Memory:** 512M or more, suggest 1GB or more

NIC: 10M or more **Graphics:** Microsoft DirectX 9 graphics device or higher

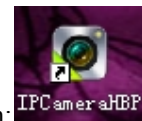
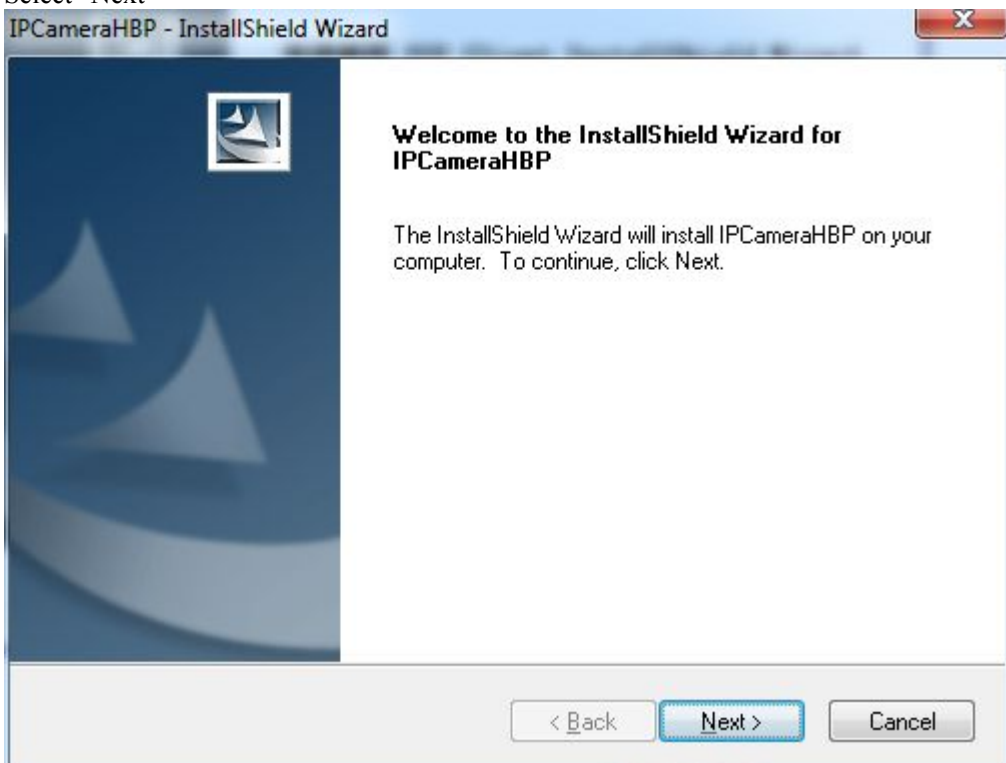
Supporting operation systems: Windows XP, Vista, Windows7, Windows8

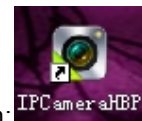
12.2 Installation Steps

Double-click the installation package, Show the following interface

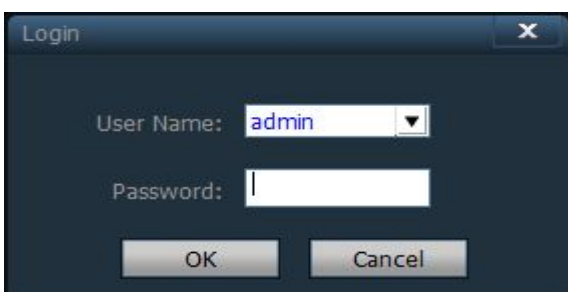


Select "Next"



You can change the installation "Path", click "Next", After installation, the icon:  will be on the desktop.

12.2 Login and Exit

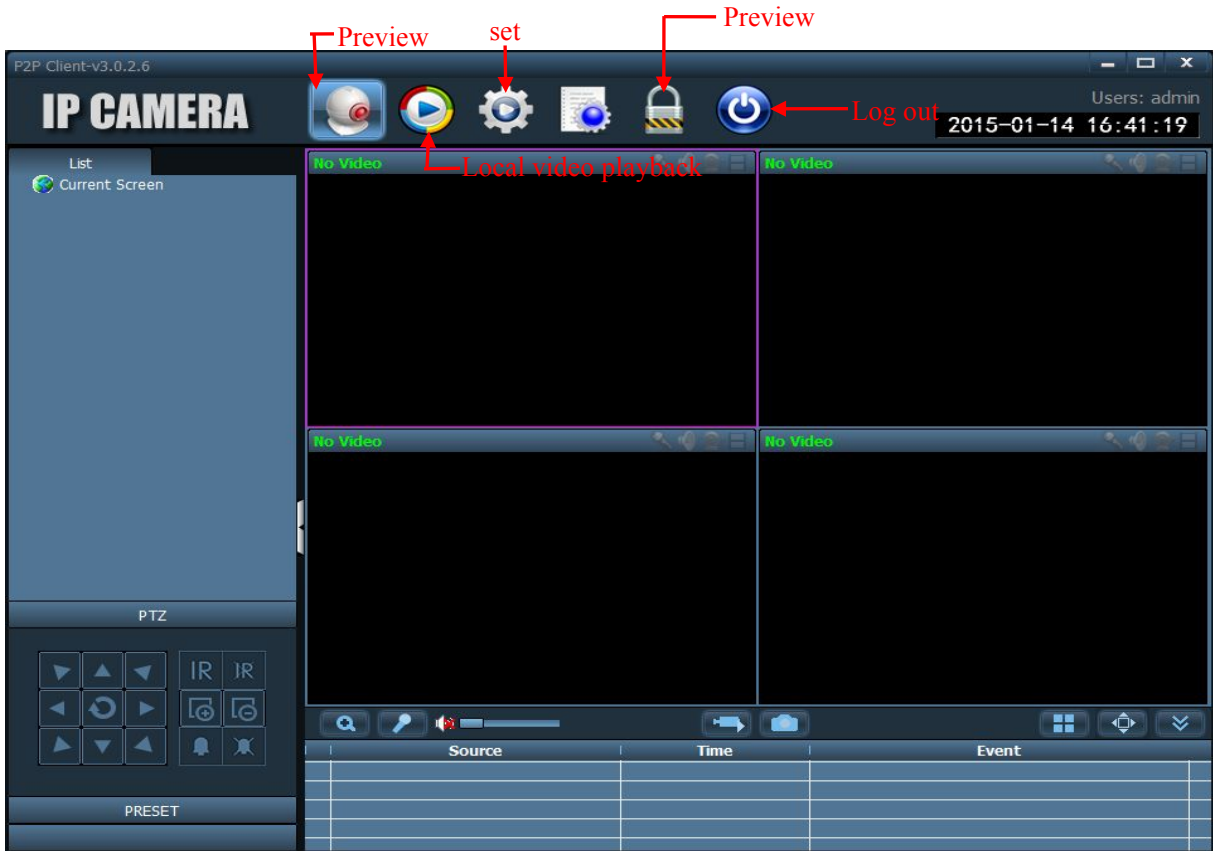


Login password: admin, the password: empty, Click "OK" button, entering the main interface.

Only "admin" administrator privileges users can can "Exit" the client, "user" and "guest" cannot.

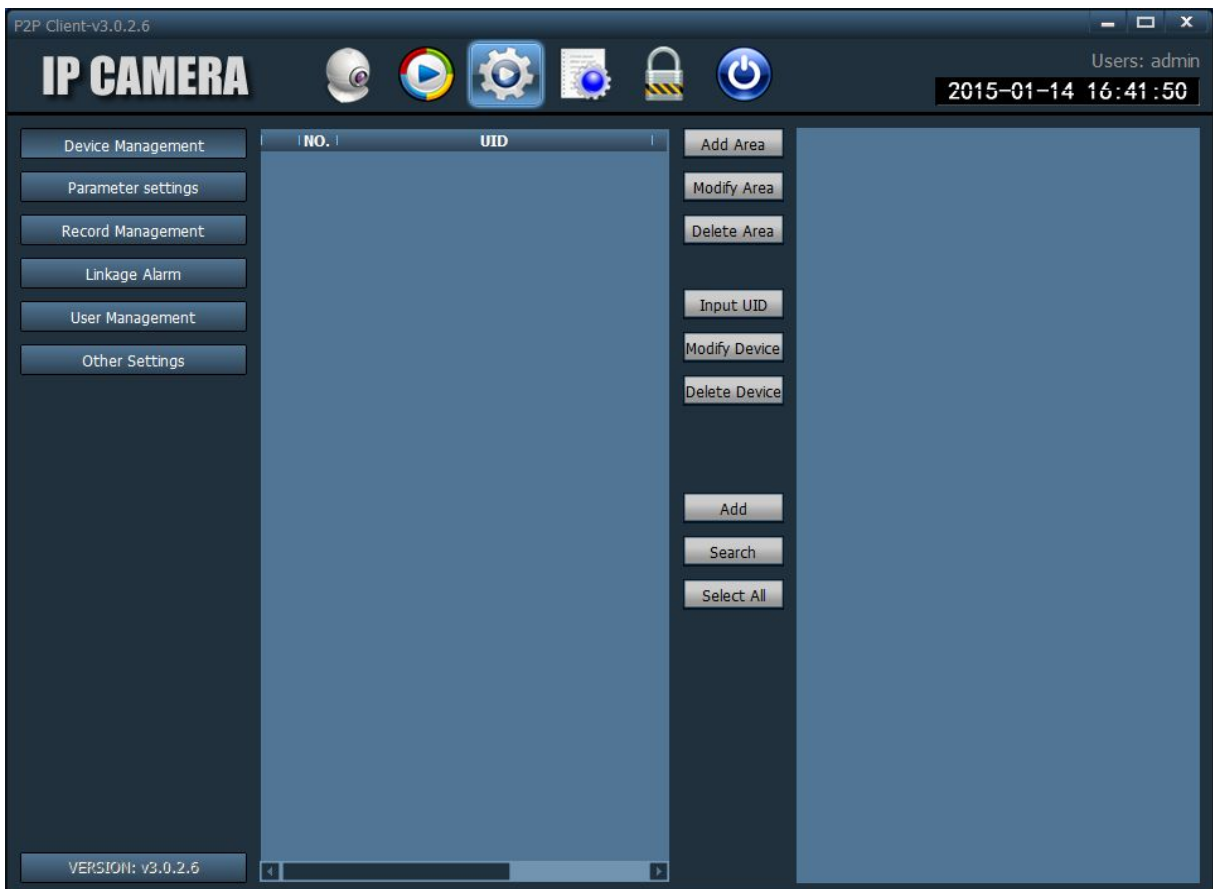
When you exit the client, you need to enter an administrator privileges user name and password.

12.3 Client Introduction


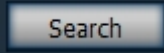
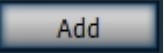


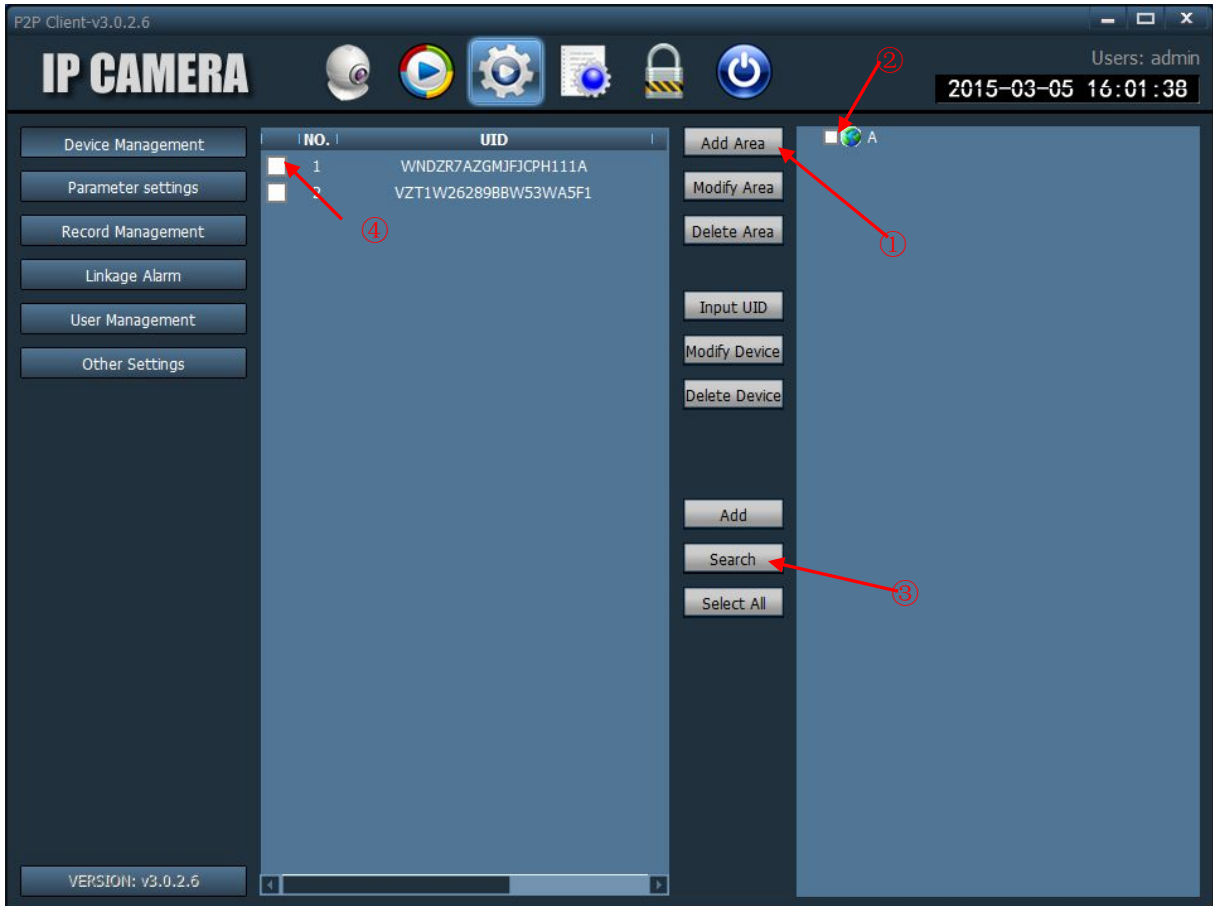
12.4 Parameter Settings

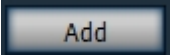
Including: "Device Manager", "Parameters settings", "Record Management", "Linkage Alarm", "User Management", "Other Settings", "Add Area", "Modify Area", "Delete Area", "Input UID", "Modify Device", "Delete Device", "Search".



12.4.1 Add Area (Add a camera)

Before adding a camera, need to add a area , ticked the box in front of the domain, Search the within LAN network cameras by , Select the device in the device list  then add it to the area.



- ❖ Add Area: Adding area to the device tree.
- ❖ Edit Area: Selecting the modified area.
- ❖ Delete Area: Deleting the selected area.
- ❖ Add Device: Manually adding device, clicking the pop-up box to add equipment.
- ❖ Modify Equipment: Clicking the pop-up edit dialog
- ❖ Delete Device: Before deleting selected device, modifying it, selecting the device you want to modify.
- ❖ : Adding devices to the domain search list
- ❖ Search: Searching devices within a LAN network.
- ❖ Select all: Selecting all devices in the list

12.4.2 Add Manually

Manually add the camera (Add Remote Camera), click "Add Device", pop-up dialog box, input the device's UID number.

UID: ← Inout camera ID

Name: ← Customize camera name

Password: ← Input camera password

Area: ← Choose an area

OK Cancel

UID: Different camera, different UID number.

Name: customization, but should be less than 15 letters.

12.4.3 Parameter Settings

Steps for motion detection setting:

Click on parameter settings, set up the alarm service, select armed, the higher motion detection sensitivity is, the more sensitive message push (push the alarm images to the FTP server), alarm linkage, alarm SD card recording.

Video Modify Password Alarm Setting System Wifi

Alarm linkage

Safe Protection

Motion Detection Sensitivity:Mid

Alarm Preset OFF

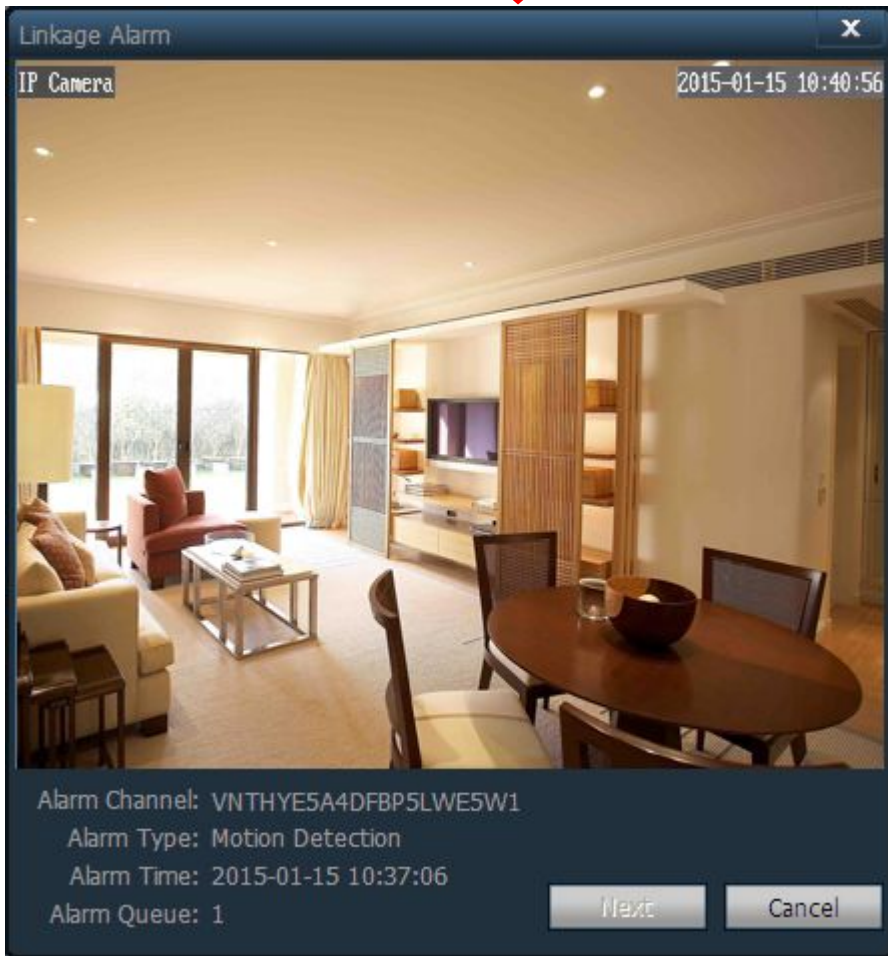
Alertor Input Alarm

Alarm SD Record Cloud Save Picture

Obtain Apply

Your smart phone will get the push notification message when alarm triggered

1. Enable the "alarm linkage". Select the device channel, select the time, you can select the alarm pop-up window.



Input alarm equipment: External alarm, External alarm triggered when the camera is short circuit.

Linkage video recording: Both Mobile and PC video recording at the same time

Disk full alarm : Sending voice prompt when the disk capacity is insufficient

Disk Error: Sending voice prompt when disk error

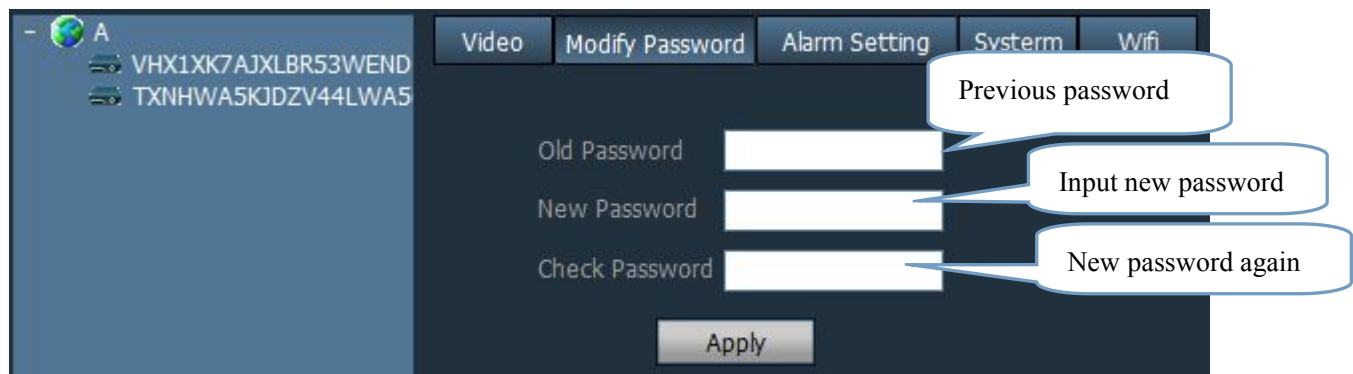
12.4.4 Video settings

Including: "Screen flip" "Environmental Mode", "Picture quality"



12.4.5 Change Password

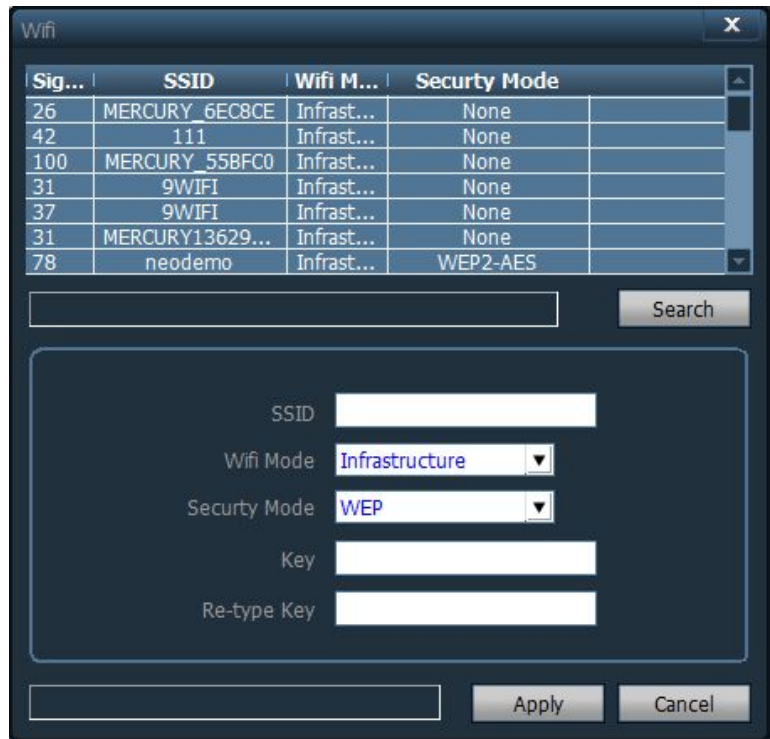
Choose the channel in device and then change the camera password.



After user change the password, please disconnect the camera and then reconnect it.

12.4.6 Wi-Fi setting

Search wifi hotpots around camera, input password to connect with wifi.



12.5 Recording Management

In recording management, select the device channel, enable the plan of record, choose the time schedule.

The screenshot shows the recording management interface with several callouts:

- Select channel:** Points to the channel selection area on the left.
- Recording plan:** Points to the calendar grid showing recording schedules for days of the week (SUN to SAT) and hours (0-23).
- Default path to save video:** Points to the disk selection table.
- Copy the time schedule to other channel:** Points to the 'Copy' button.
- recording format:** Points to the 'Record Format' dropdown menu.

| Disk | Total size(GB) | Available size... | Path |
|---|----------------|-------------------|------------|
| <input type="checkbox"/> C:\ | 115.259 | 75.292 | C:\TRecord |
| <input type="checkbox"/> D:\ | 115.302 | 108.933 | D:\TRecord |
| <input checked="" type="checkbox"/> E:\ | 115.211 | 99.744 | E:\TRecord |

General Record Length: 5 Min | 5 GB | Switch Interval: 10 Sec | Record Format: AVI | No hard disk space coverage: Yes

12.6 User management

User permissions can be divided into three parts: administrator, operator and visitor.

Administrator: user can set advanced settings

Operator: user can operate the camera directions, set the video brightness parameter and so on.

Visitor: user can only watch the live monitoring video.

The screenshot shows the user management interface with the following callouts:

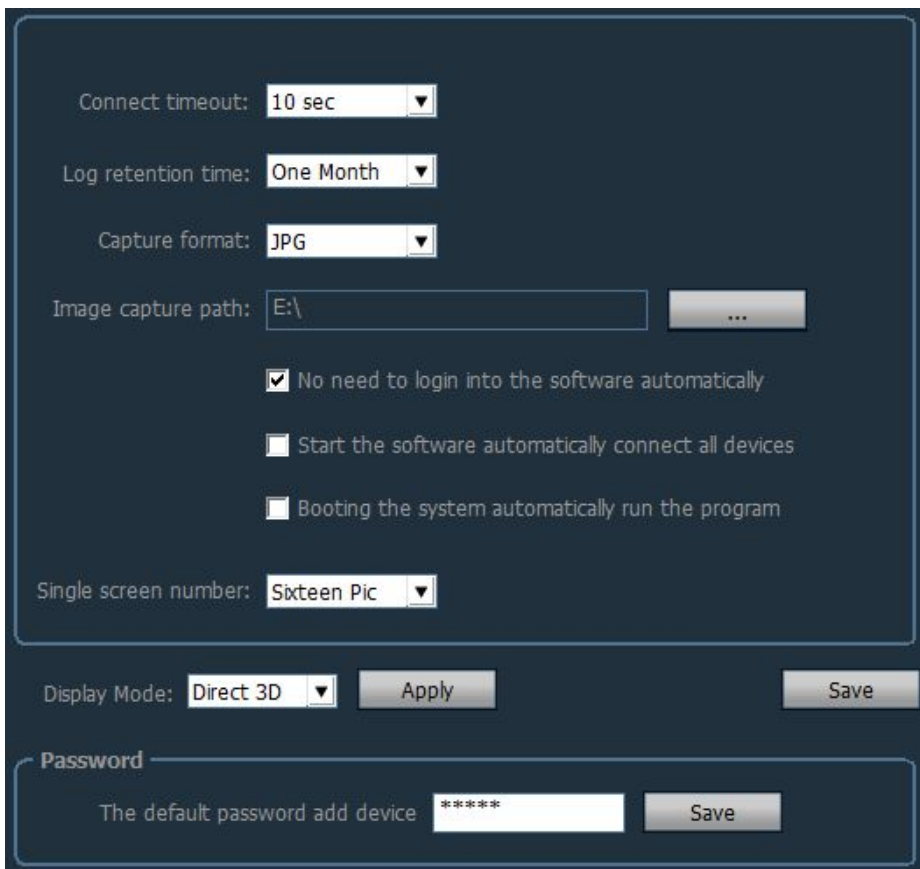
- 1.add camera:** Points to the 'Add' button at the bottom.
- 2..Input user name and password:** Points to the 'User Name' and 'Password' input fields.
- 3.Choose the permission:** Points to the 'Permissions' dropdown menu.

The interface includes a 'Users' table with 'admin' listed, and an 'Information' section with fields for User Name, Password, Confirm Password, and Permissions (set to 'admin'). Buttons for Add, Modify, Delete, Save, and Cancel are at the bottom.

12.7 Other settings

To set the log saving time, the snapshot image format and image saving path in Other Settings.

Also user can choose the button when the software is running, it connects the camera automatically; User can modify default password when he adds a device.























13. Monitoring interface



A brief instruction of monitoring interface



Functional Icons:

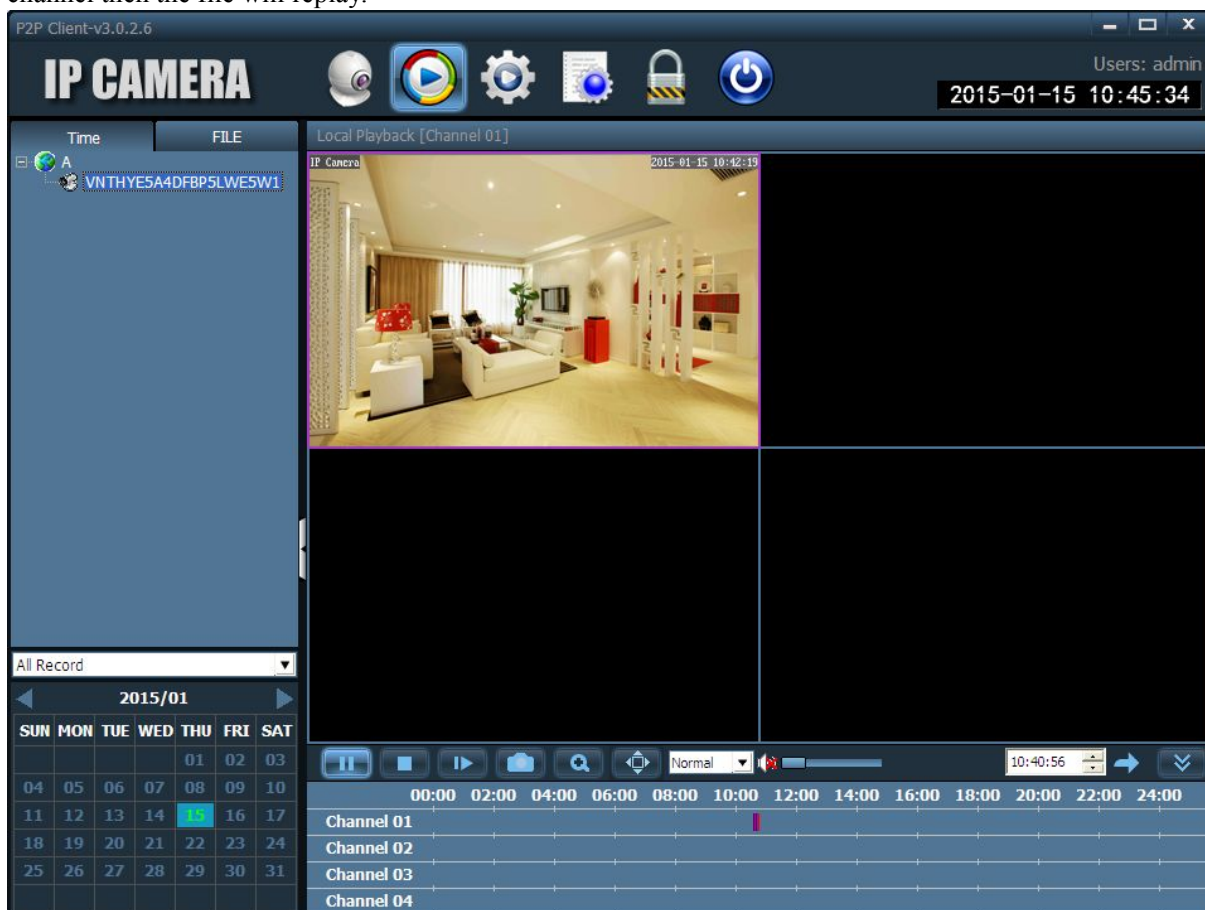
| | | | |
|---|------------------------|---|-----------------------------------|
|  | Un-connected device |  | Record by hand/record as schedule |
|  | Connected device |  | Manual recording button |
|  | Motion detection alarm |  | Manual snapshot button |
|  | Alarm recording |  | Enlarge |
|  | Alarm linkage |  | Multi-image option |
|  | Inter-talking |  | Full screen |
|  | Listening |  | Status button |
|  | Zoom in circle |  | Zoom in focus |
|  | Zoom out circle |  | Zoom out focus |
|  | Recording time hopping |  | Playing progress bar |

14. Local recording video playback

Two ways to search local recording video files:

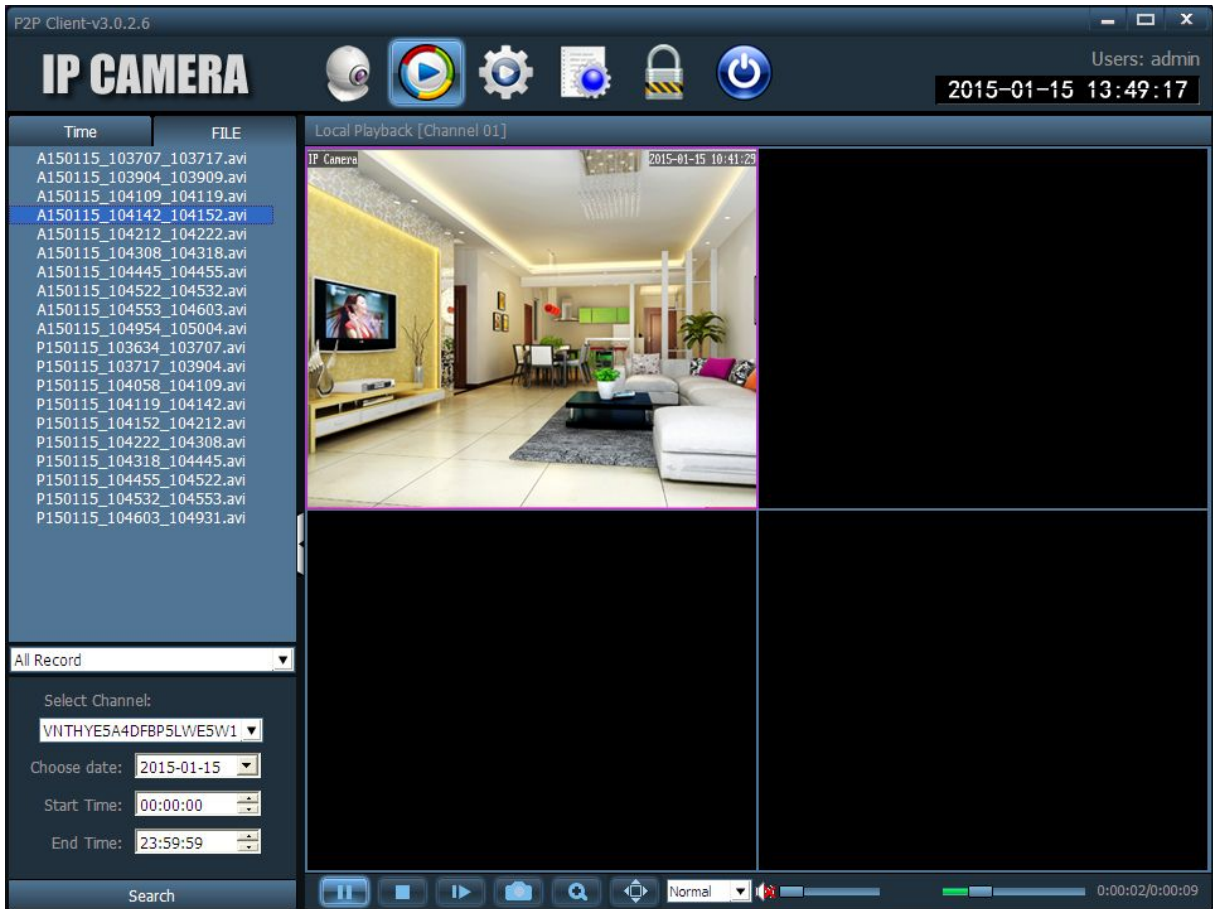
- 1: based on the recording format and time to search
- 2: based on the file format and channel

The first way: Choose the device from device list in local recording files, select the recording format. If there have some recordings can meet the conditions, then it will be shown on time axis, double click the channel then the file will replay.

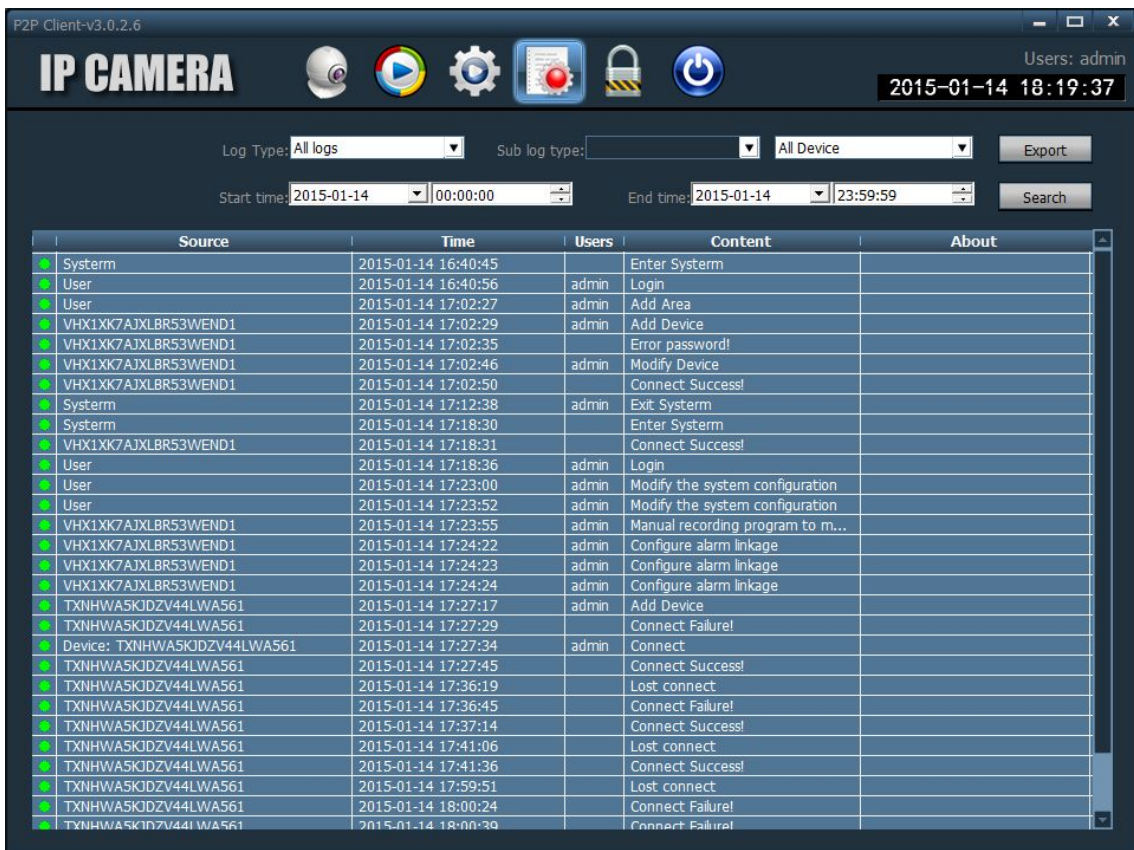


When the mouse is moving on time line, it will show what time it is. Click then user finds the exact recording file. Click the time axis, it will change from 24 hours into 2 hours. It is easier for user to choose the recording file as the time point is enlarged.

- stands for alarm recording
- stands for recording as schedule
- stands for recording by hands



15. Select the channel, choose the date then search recording





16. Search Tools installation


16.1 Search Tools installation

Insert the CD to your computer , CD-ROM will automatically run the software installation. If not, double-click to open the disc“autorun.exe”

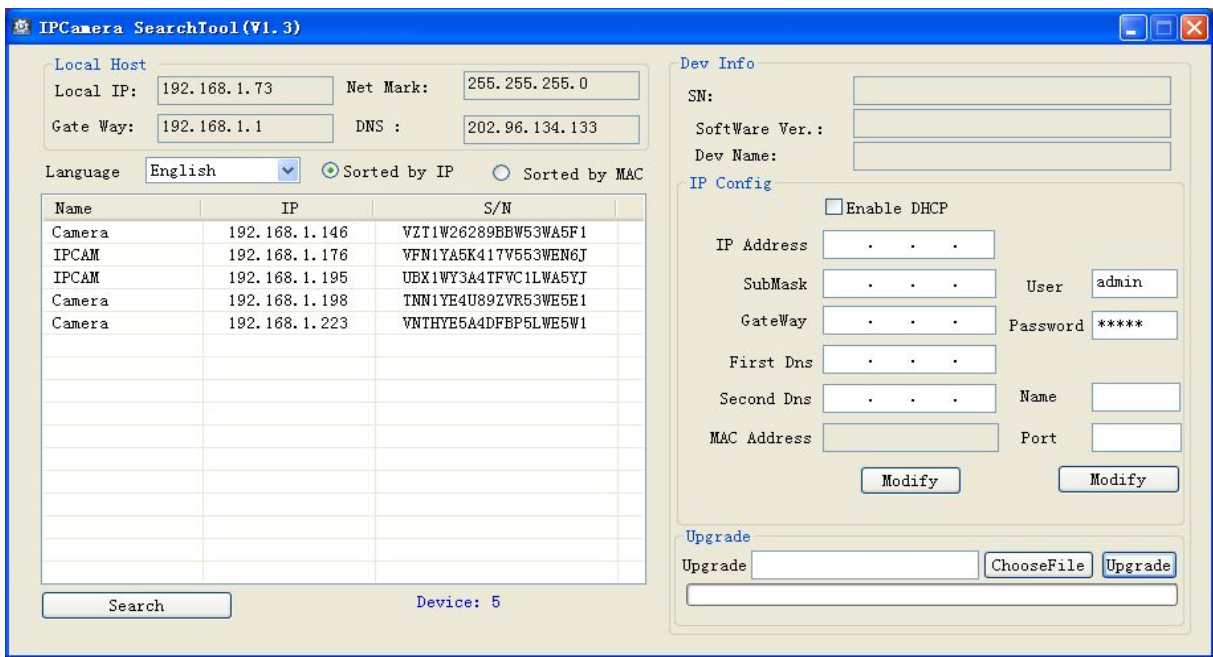


Click  to install the LAN tool with the tips, then it generates "IP Camera Search"  icon on the desktop.

16.2 Run search tool

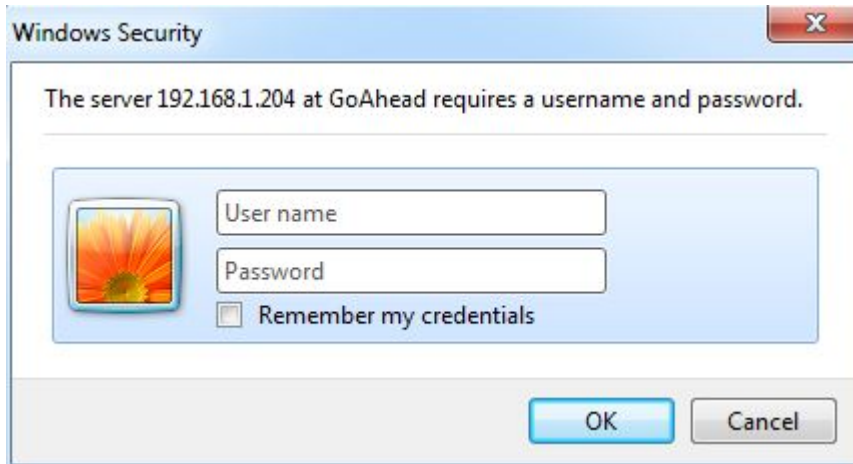
Find the search tool on the desktop and run it “IP Camera Search”  , The program will automatically search for the within LAN network camera equipment, and show IP address, port number, and name. Select basic information to change the parameters, click and set to save the changes. As shown:

- ①: select Chinese language.
- ②: Select "DHCP",The IP address is assigned by the router automatically, to set manually if uncheck "DHCP" IP address.
- ③: Double-click the camera to login

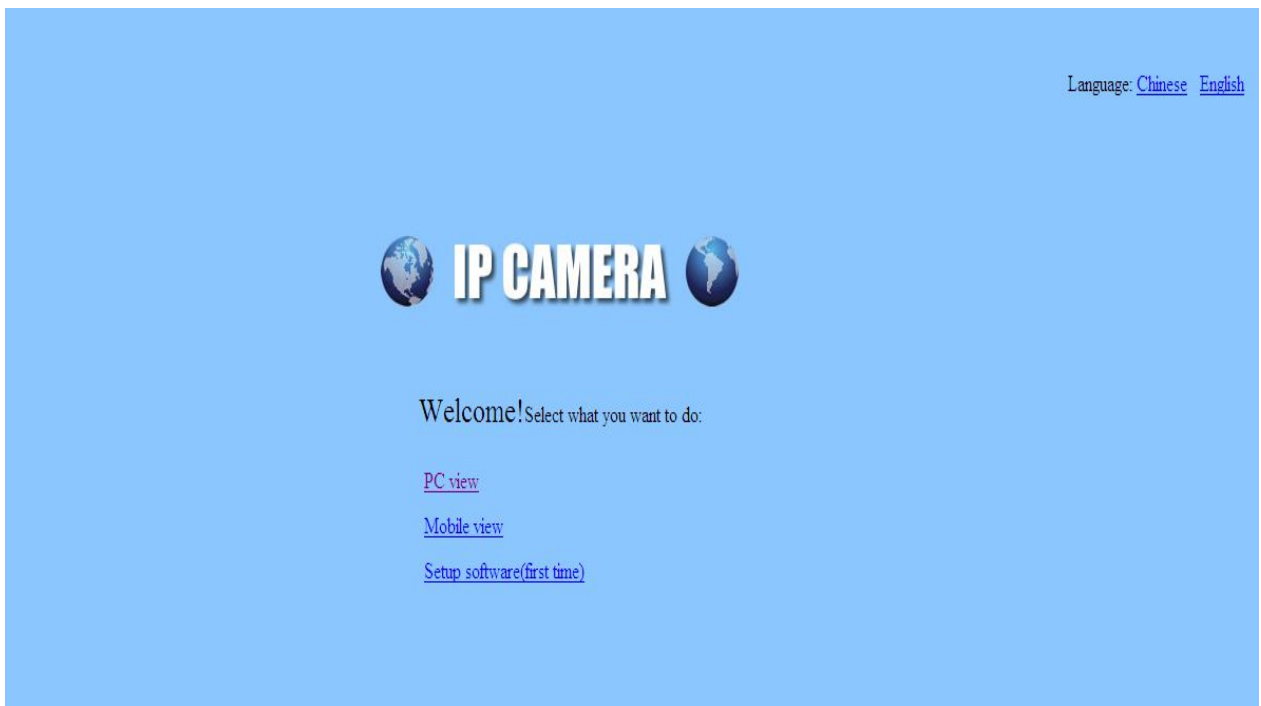


16.3 Open the video screen.

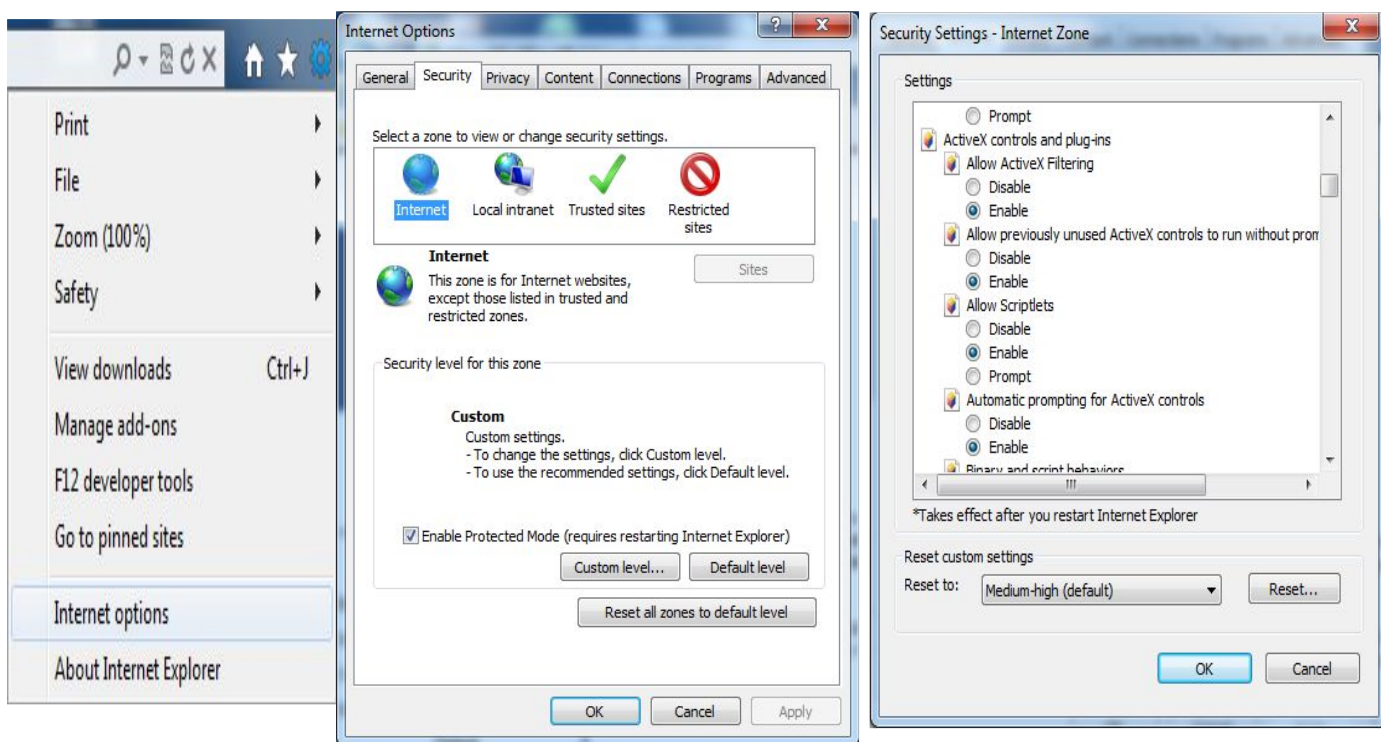
Double click the "Selected Devices" or enter the IP address and port number in browser (for example:http://192.168.1.122: 81). After opening the login authentication page .then enter the correct user name and password. Click "OK" button to open the login screen. :



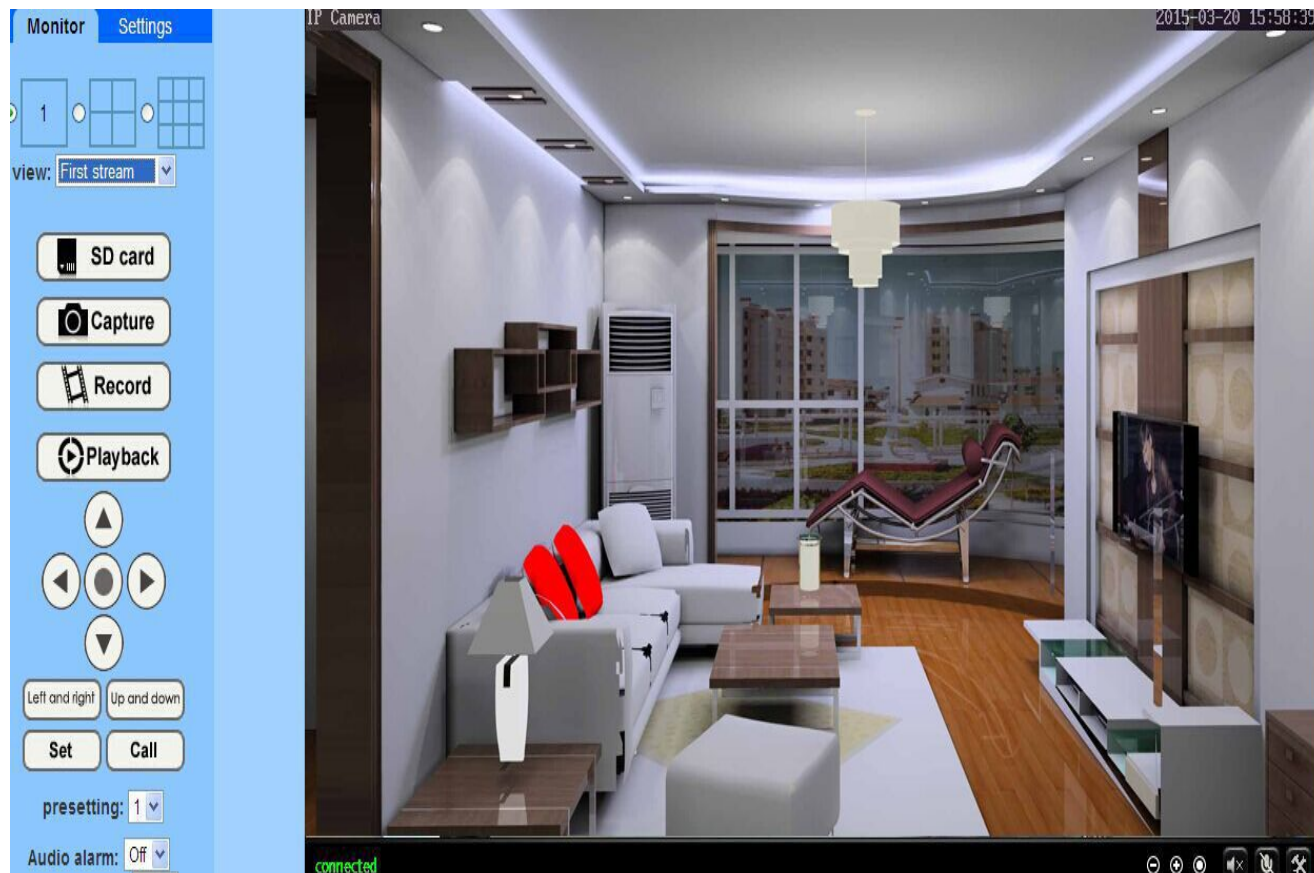
Select the operating language after login the camera ①. You need to install specified ActiveX if it is your first time login ③. Click to login the video monitoring interface after successfully installed the activex ②.

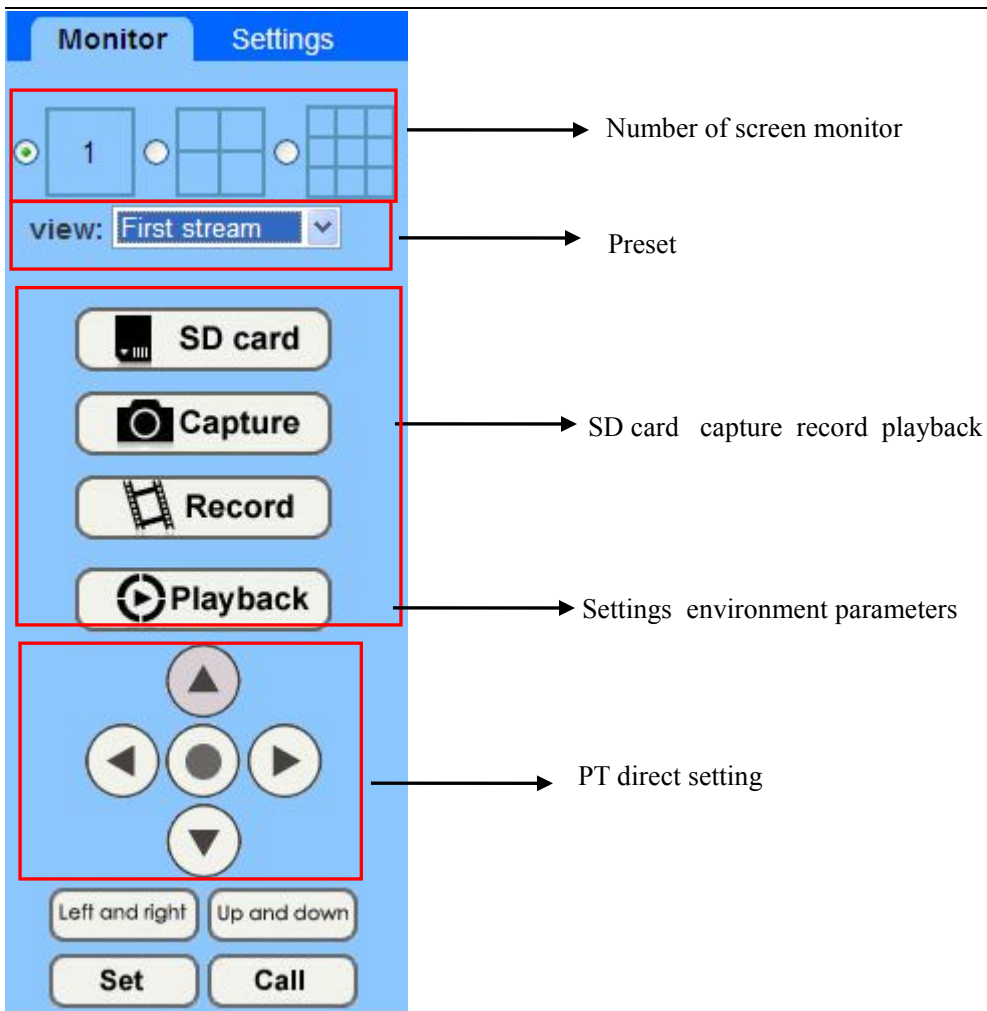


Tip: You need to set the set the IE browser after successfully installed the activex. Shown as follows. Set ⑥ as "Enable" or "Prompt", if you still can not view the video, try to set "ActiveX and plug-ins" with "Enable" or "prompt."



17. Monitoring Interface Button Description



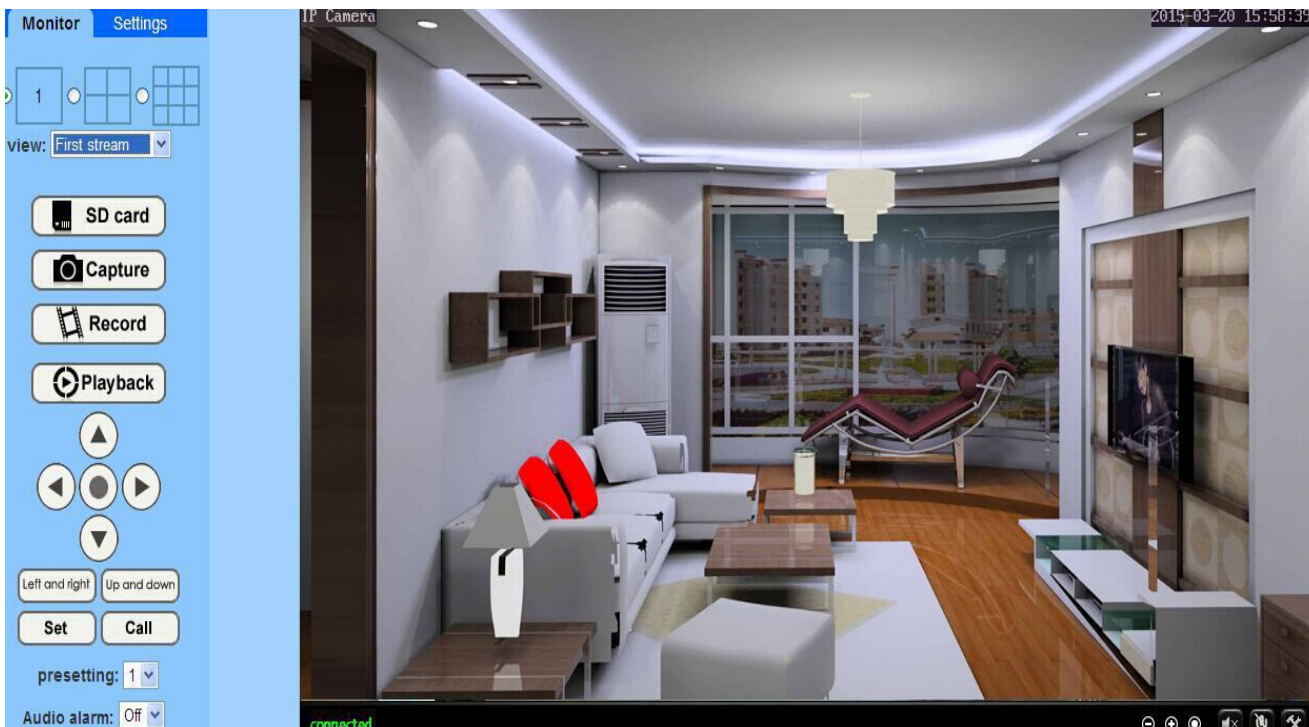


18.The Camera Functionality Setting

18.1 Video Parameters

Set the streams and frame rate according to the network environment.

4096 for 4M, 2048 for 2M, 1024 for 1M upload bandwidth; the larger number, the smoother frame rate.



The screenshot shows the 'Settings' page of an IP camera. The left sidebar has 'Settings' selected. The main content area is titled 'Video settings' and contains the following configuration options:

- Video settings**
 - Video format: 50Hz
 - Video Coding: mainprofile
- First stream**
 - Resolution: 1920x1080
 - Bit rate: 6144 kbps (32-8192)
 - Maximum frame rate: 25 fps
 - Key frame interval: 50 (2-150)
 - Bit rate control: CBR, VBR
 - Image quality: 1 (The smaller the value, the better the image quality, larger flow control)
- Second stream**
 - Resolution: 640x352
 - Bit rate: 1024 kbps (32-6144)
 - Maximum frame rate: 25 fps
 - Key frame interval: 50 (2-150)

18.2 Audio parameters

G726, G711 is optical for audio settings. Select G711 format if there is any noise.

The screenshot shows the 'Settings' page of an IP camera, specifically the 'Audio Settings' section. The left sidebar has 'Settings' selected. The main content area is titled 'Audio Settings' and contains the following configuration options:

- Audio Settings**
 - Audio Type: G711
- First stream**
 - Audio Settings: On Off
- Second stream**
 - Audio Settings: On Off
- Third stream**
 - Audio Settings: On Off
- Audio Input**
 - Input Type: MIC
 - Input volume: 80 (1-100)
 - Output volume: 95 (1-100)

At the bottom right, there are 'Apply' and 'Cancel' buttons.

18.3 Network Settings

1. Automatically obtain IP address: IP address of the camera is automatically assigned by the router. The camera default port: 80

2. Manually set IP address: You can manually modify the camera IP address, subnet mask, gateway, DNS, etc.

Automatically obtain IP shown as below:

The screenshot shows the 'Settings' page of an IP camera. The left sidebar has 'Monitor' and 'Settings' tabs. Under 'Settings', there are sections for 'Media', 'Network', 'Alarm', 'Advanced', and 'System'. The 'Network' section is expanded, showing sub-options: 'Network', 'Wireless', 'Ddns', 'Platform', 'ONVIF', and 'P2P'. The main content area is titled 'LAN Settings' and contains the following fields:

- IP Configuration Type:
- DNS Configuration Type:
- HTTP Port number: (80 or 1024~49151)
- RTSP Port: (554 or 1024~49151)
- RTSP Permission check: On Off (Note: Modify the settings, reboot the device)

At the bottom right, there are 'Apply' and 'Cancel' buttons.

Manually set the IP address shown as below:

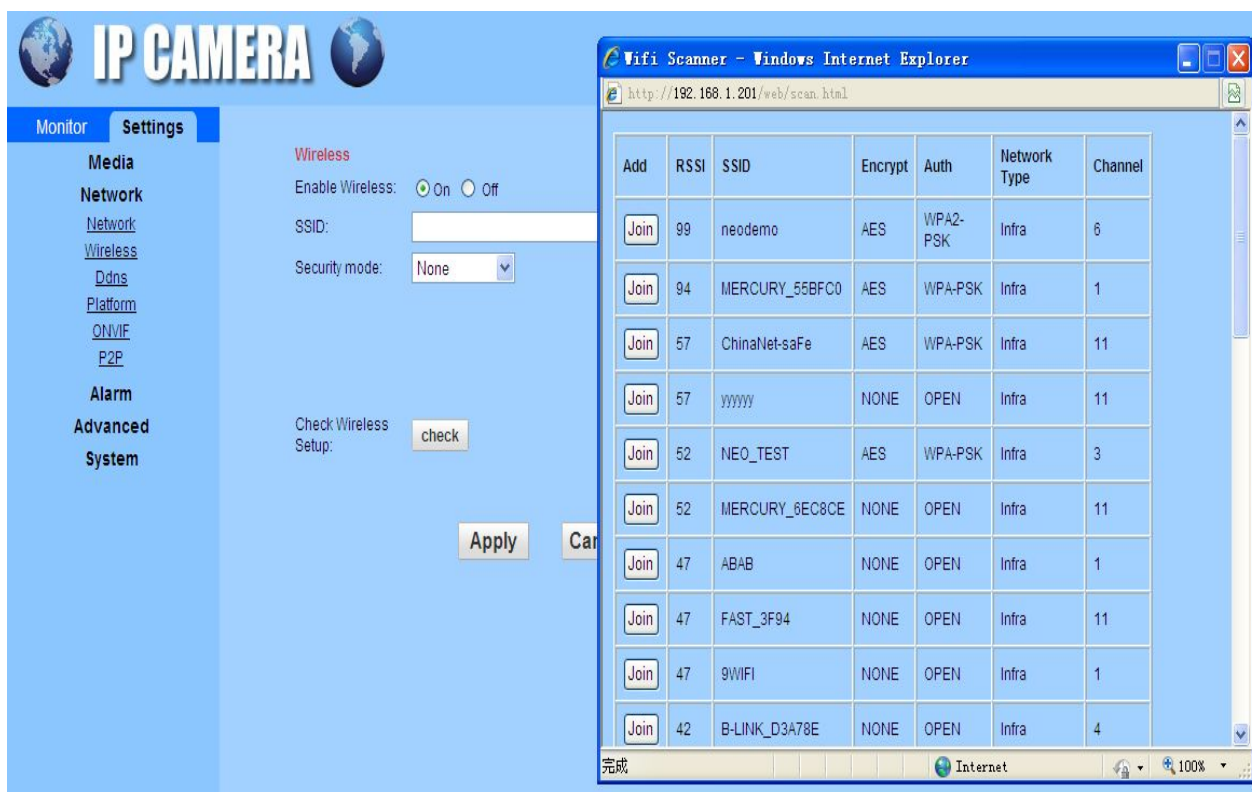
The screenshot shows the 'Settings' page of an IP camera, similar to the previous one, but with 'Fixed IP Address' selected for the IP Configuration Type. The main content area is titled 'LAN Settings' and contains the following fields:

- IP Configuration Type:
- IP address:
- Subnet mask:
- Gateway:
- DNS Configuration Type:
- Primary DNS:
- Secondary DNS:
- HTTP Port number: (80 or 1024~49151)
- RTSP Port: (554 or 1024~49151)
- RTSP Permission check: On Off (Note: Modify the settings, reboot the device)

At the bottom right, there are 'Apply' and 'Cancel' buttons.

18.4 Wireless Settings

1. When enabled wireless router click on the search button to search for radio signals
2. Select the corresponding router WIFI signal names
3. Input secret key (wireless router password)
4. Click Apply (click on the application before checking)

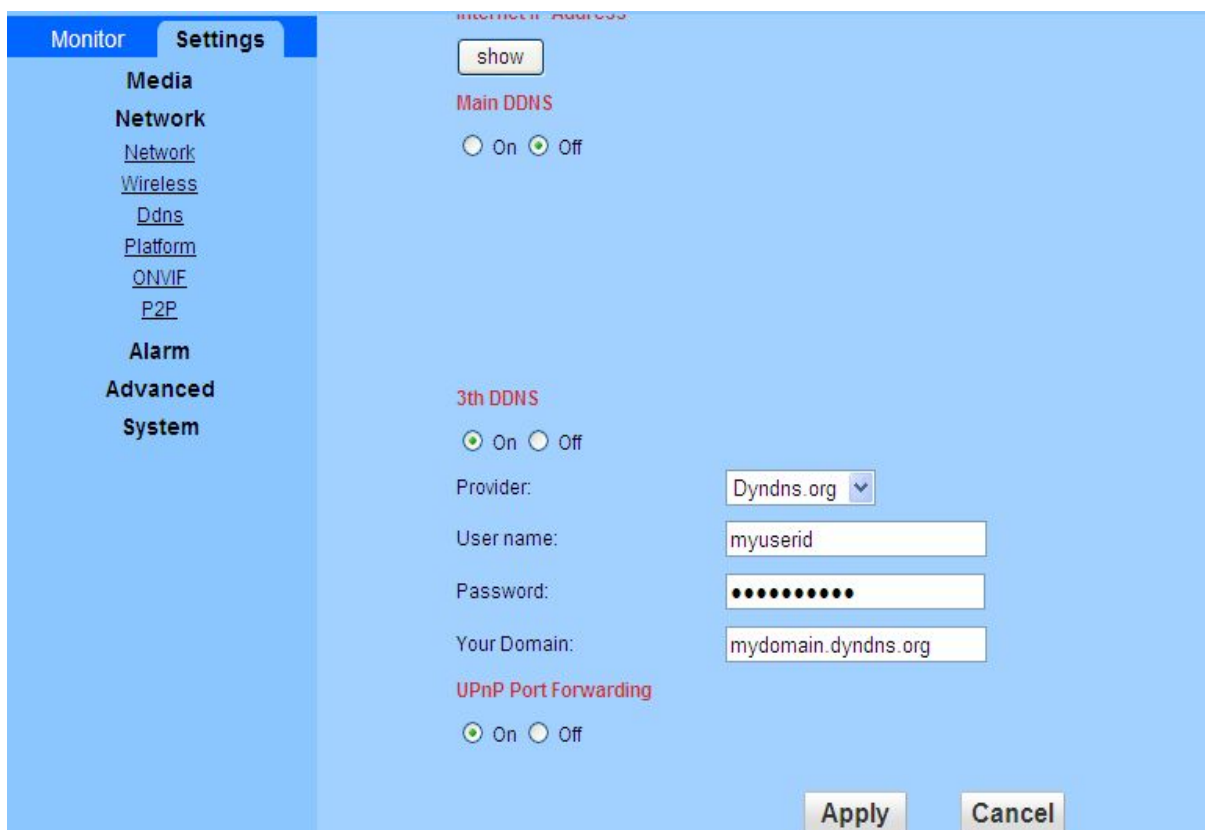


18.5 DDNS settings

- ①select one from manufacturer's dynamic DNS Settings and third-party's dynamic DNS settings.
- ②Input the user name and password after you successfully applied a free DDNS domain name from dynamic DNS server website.
- ③Enable the camera and the router's UPNP auto port mapping.
- ④Click Apply.

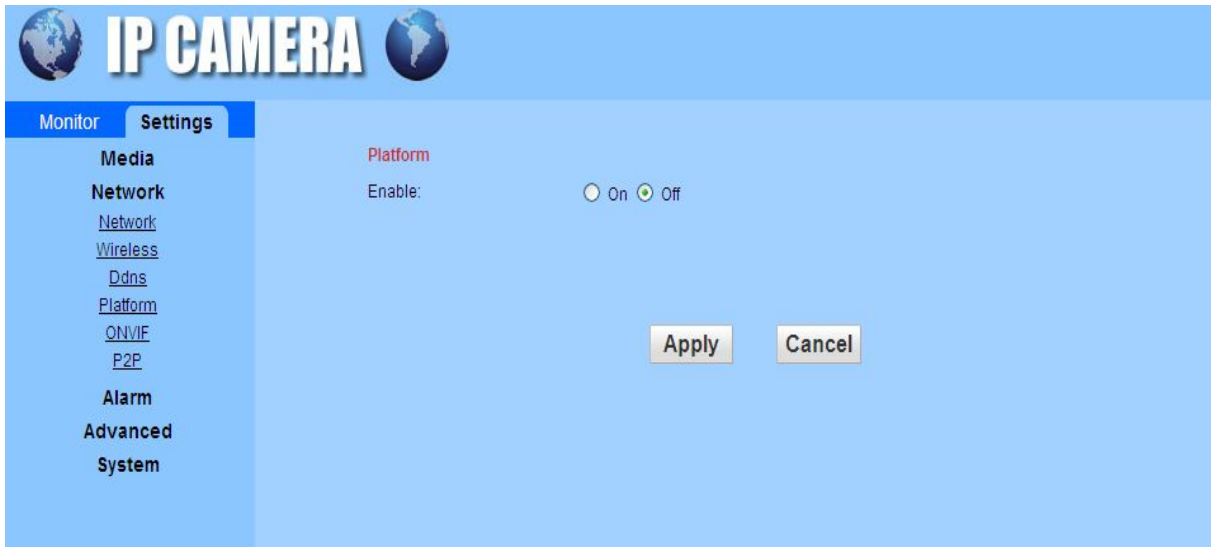
You just need to input the DDNS domain ip address and the ip camera's port to Internet browser to login the camera. Such as: <http://gzyxt.3322.org:81>

Set the following figure:



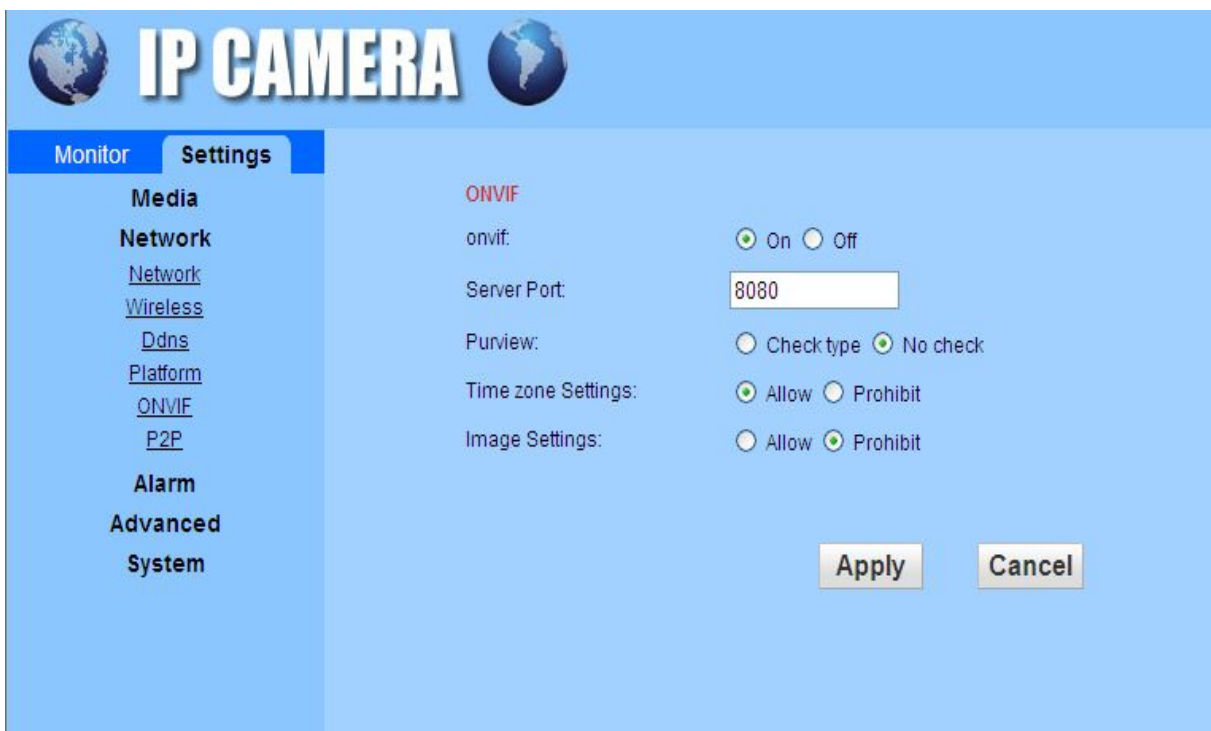
18.6 P2P settings

If you no need to access the camera via Internet. You can close the P2P function. (You will can not remote access the camera if you close the P2P function.)



18.7 ONVIF settings

ONVIF is a necessary protocol to connect the ip camera with NVR. The default port is 8080. The port no need to be changed and no need to be chosen when do verify.



18.8 Alarm settings

The alarm taken effect only when both alarm settings and alarm linkage sucessfully setting. After successfully setting, users' smart phone will receive message when alarm triggered. Click the alarm notification, users can login the App to view the alarmed pictures.(it will take snapshot 3pcs of 1280 * 720 size images)

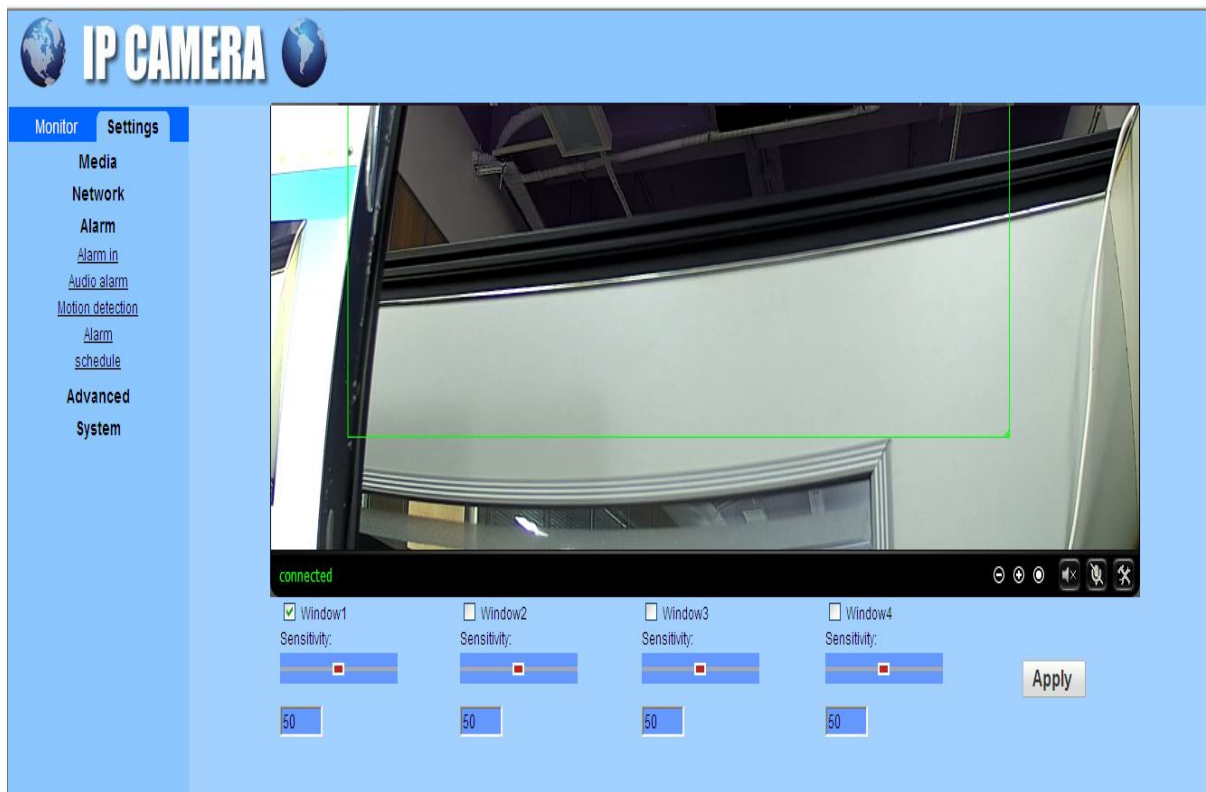
External alarm input: Refers to I / O interface on the back panel of the camera. Users can enable/disable

this function based on their own request.

Voice alarm: after enable, when the camera detects sound around the camera, it will trigger an alarm.

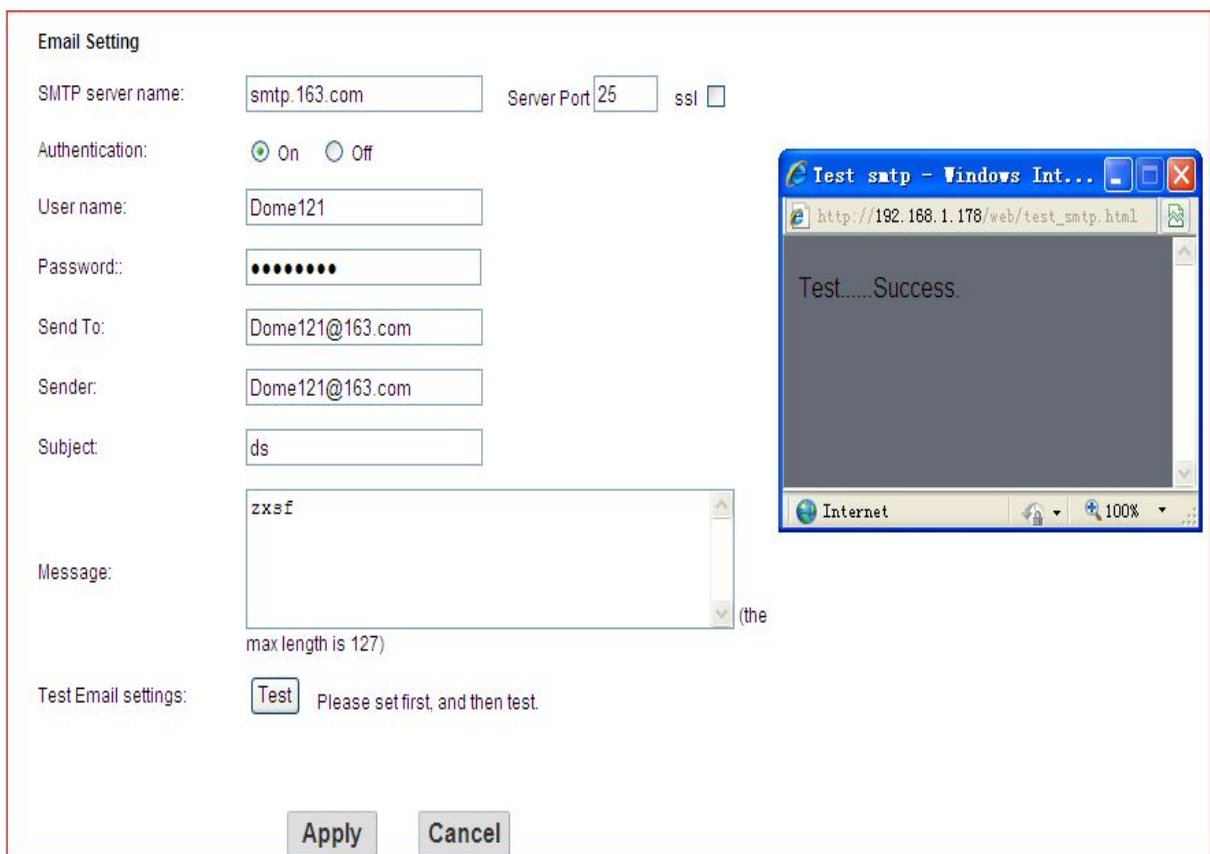
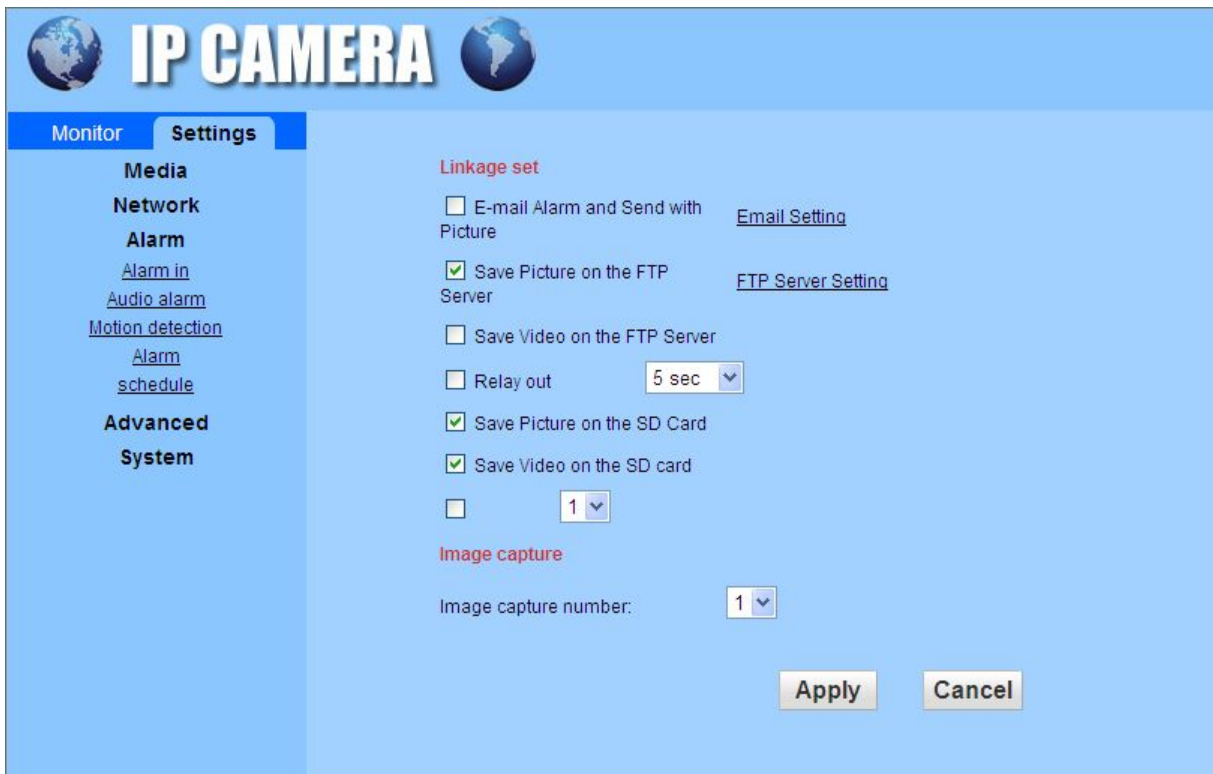
Alarm settings steps are as follows:

1. Ticked the window and adjust the alarm window size and sensitivity (the greater the value, the more sensitive). When an object is detected moving window area will occur flashing red light.
2. Select the alarm time. For whole day alarm, select "full list"
3. Click Apply



18.9 Alarm linkage Settings

1. The alarm function will be enable only when the main switch turn on.
2. Ticked the "Save picture on FTP server," when alarm triggered, it will take 3 pictures to save on to the cloud. Users can check the pictures on smartphone APP.
3. Check the "save picture on the SD card". when alarm triggered, it will take 3 pictures to save on to the SD card (the camera must be supported SD card).
4. Check the "save video on the SD card" when alarm triggered, it will take 3 pictures to save one to the cloud (the camera must be supported SD card).
5. Check the "linkage preset". When alarm triggered, the camera will automatically rotate to the setted preset.
6. Check the "E-mail alarm and send a picture". click E-mail settings, fill in the server, user name and password are same as the sender/recipient's user name and password. Click on "Apply" after completely full fill. Then click "Test ". The mailbox is set up correctly If the test is successful. As (Figure A)
7. Check the "save picture on FTP Server", users can fill in their own FTP server (Figure B)



(picture A)

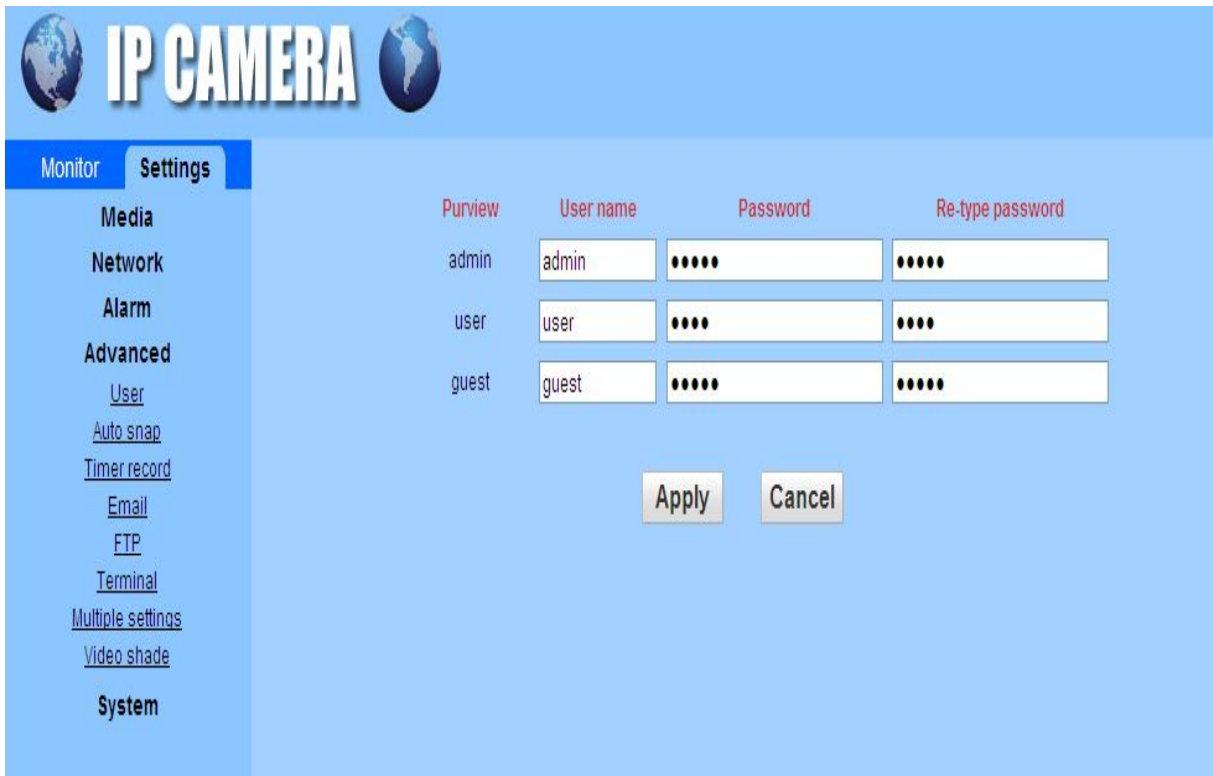
18.10 User Management

User management is for users to modify the camera user authorization according to their own needs.

When login by admin, the user can modify all functions of the cameras.

When login by user, the user can do some basic operation of the cameras, such as photography and PT control.

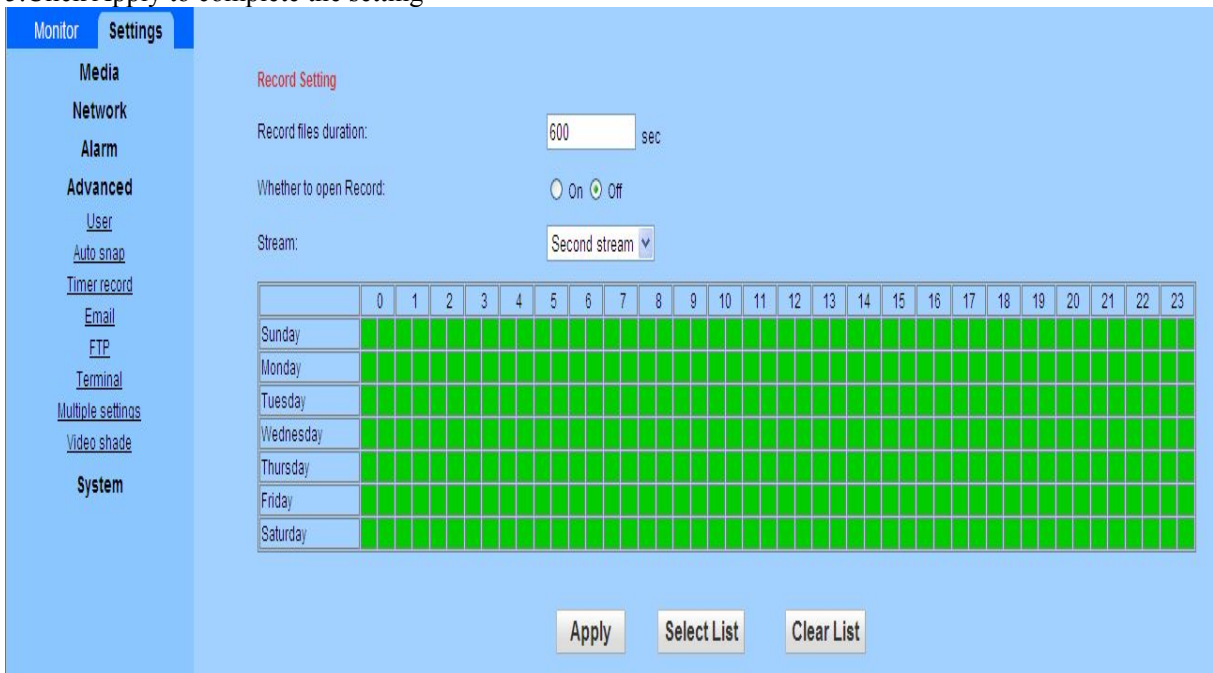
When login by guest, the user can only view the real time video, he can not do any operations.



18.11 Timing Video Recording

If you need to save the video on the SD card, set the following:

1. Please set a video file recording time. Default is 600 seconds, that is 10 minutes for a file
2. Enable "ON/OFF the records"
3. Stream: select the stream type when do the recording. 1280 * 720 (HD), 640 * 352 (SD)
4. Select recording time. Select all the list if need keeping recording for the whole day.
5. Click Apply to complete the setting



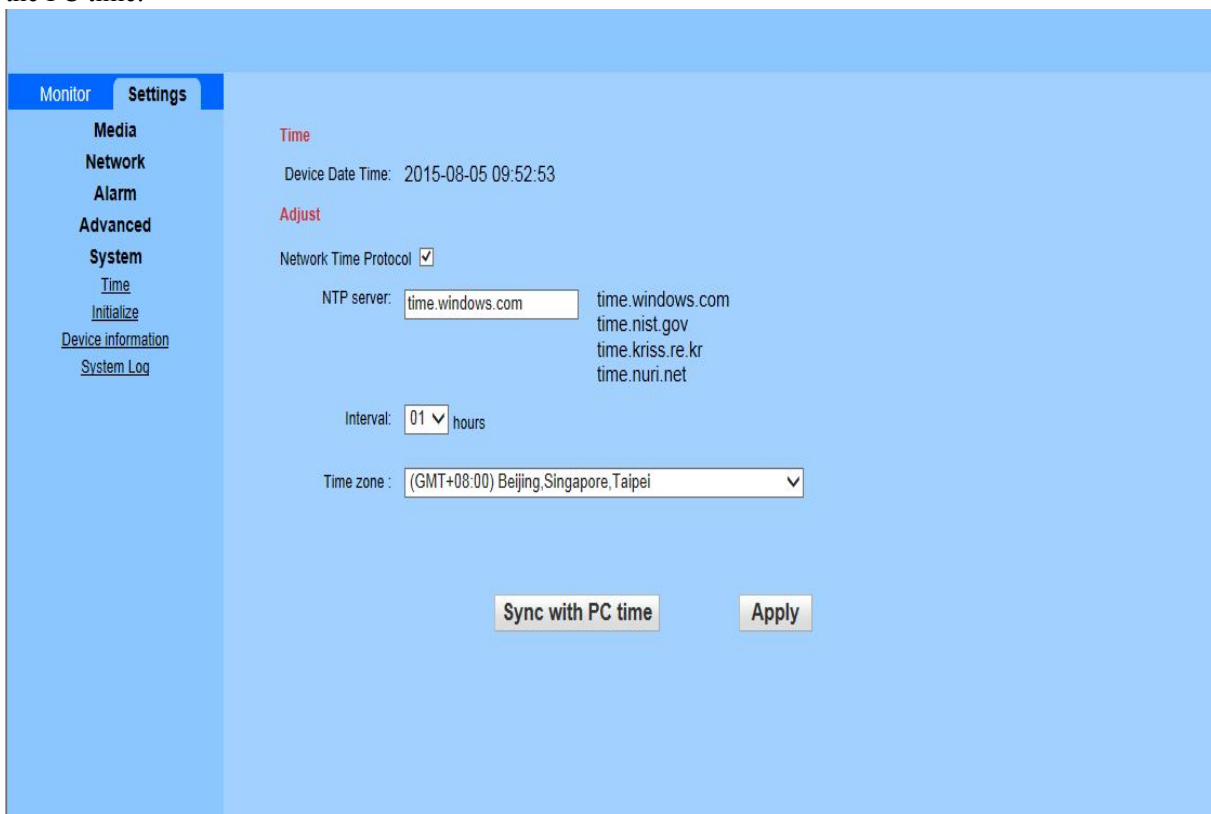
18.13 Multiple Channels Settings

Setting steps: Double-click " the 2nd device" - Refresh and select within LAN device- Enter the user name and password - click Add. And so forth.



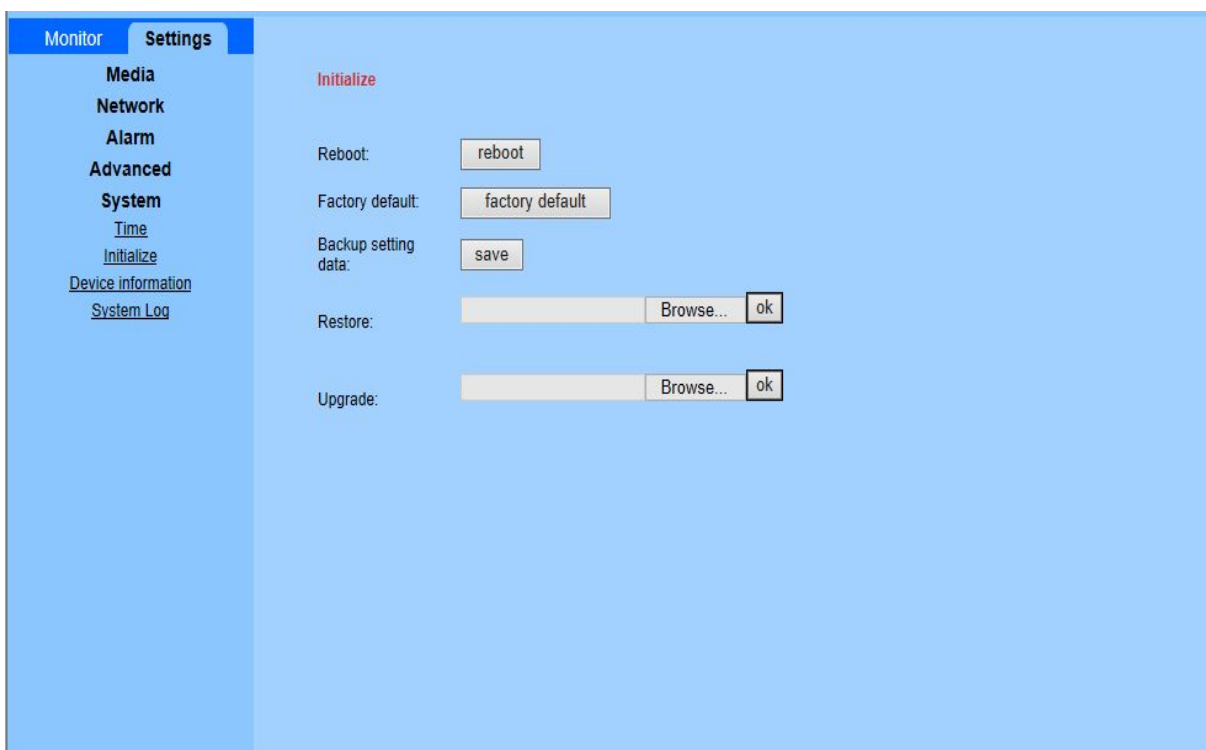
18.14 Time Settings

1. Check the "Network Time Protocol" --- Select "NTP server" --- choose your own "time zone" --- click "apply"
2. You can directly select "Sync with PC time" and then click "Apply" button to make it synchronize with the PC time.



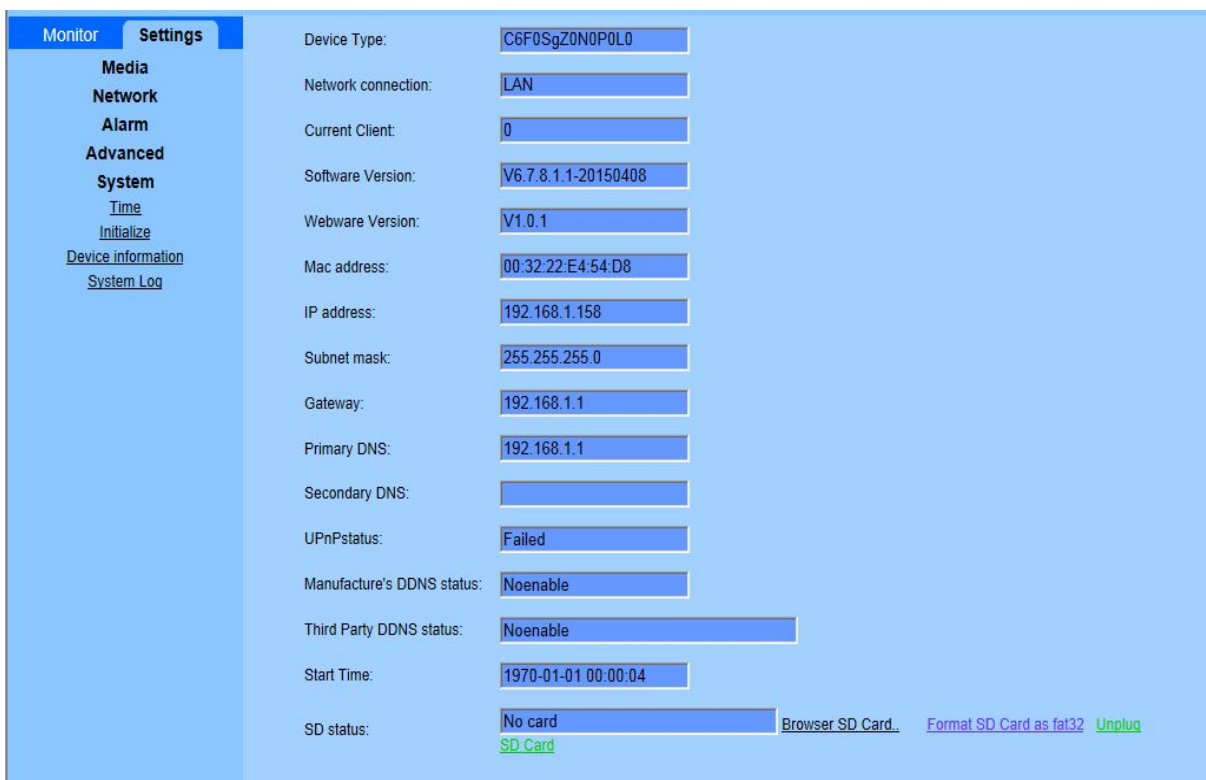
18.15 System Maintenance

Included: camera reboot, factory reset, system upgrade (when do upgrading process, the camera must be with power and wired connection, otherwise it will damage the camera).

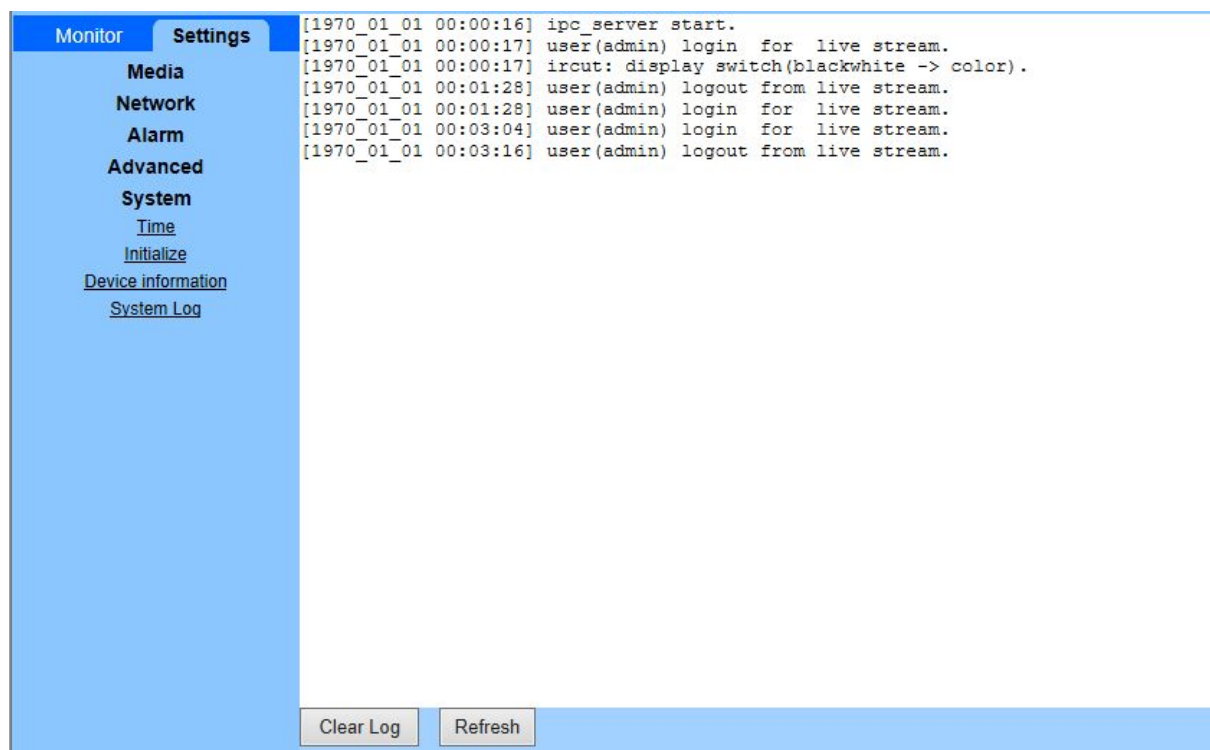


18.16 Device Information

Included: the device firmware version, network connection status, number of online users, IP address, and SD card status etc. Users can playback the video and view pictures from SD card.



18.17 System Log



| Timestamp | Event |
|-----------------------|---|
| [1970_01_01 00:00:16] | ipc_server start. |
| [1970_01_01 00:00:17] | user(admin) login for live stream. |
| [1970_01_01 00:00:17] | ircut: display switch(blackwhite -> color). |
| [1970_01_01 00:01:28] | user(admin) logout from live stream. |
| [1970_01_01 00:01:28] | user(admin) login for live stream. |
| [1970_01_01 00:03:04] | user(admin) login for live stream. |
| [1970_01_01 00:03:16] | user(admin) logout from live stream. |

19. FAQ

What can we do if can not find the ip address on the search tool ?

Exclude the camera already broken, do as followings: IF the camera did not working and as follow :

1: Make sure the RJ45 cable connect well, and please use the crystal head (AMP) with international standards wiring. Please note that camera need high demand of the data transmission channel than computer access requirements, so maybe will get the camera can not working but use the same cable will working for the computer, then be careful to use the RJ45 cable, must make sure the connect tight with the camera .

2: Make sure of the DC adapter working, first check the power light, if its working and will see the light.

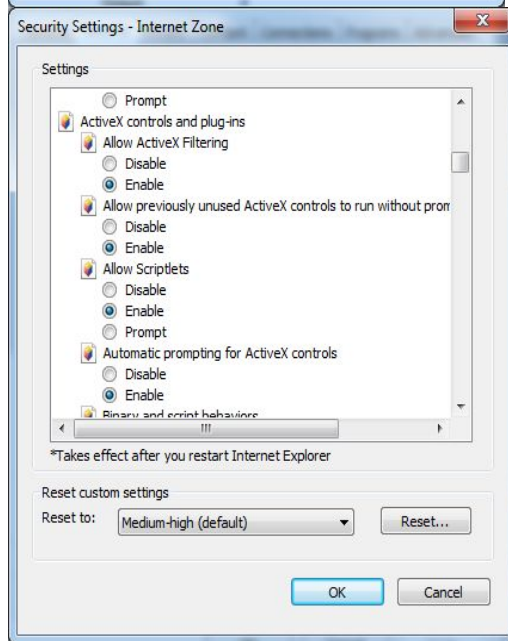
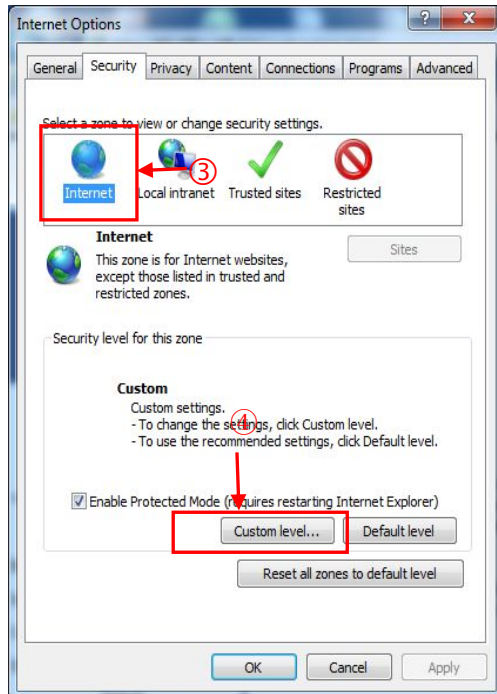
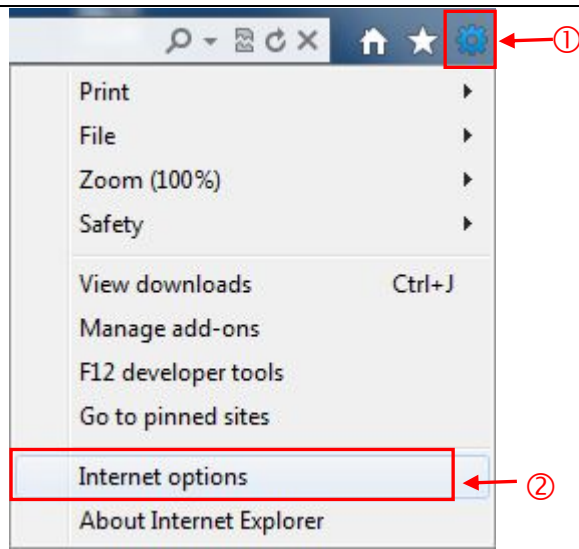
Then check the camera's port of RJ45, the yellow LED means DC adapter working, the green light means RJ45 cable working.

3: Make sure close all firewall and anti-virus program. Because the firewall will block unrecognized data, so if all of the firewall working and can not find the ip camera on the search tool.

What can we fo if can not see the image on IE browser:

1.Make sure to install the video plug, if install already and please close the antivirus program.

2. Find the "Tool" on IE browser, then select the "internet option". Then choose the "safety"



How to open the Compatibility Mode on browser :

Find the “tool option” on IE browser then find the “Compatibility View Settings”