

IP Camera

IE Browser User's Manual

For WindowsXP/2003/Win7/Vista

Preface

Thank you for using our IP camera products. This series of products are all-in-one IP cameras designed for network video surveillance, including box IP camera, infrared box IP camera, dome IP camera, speed dome IP camera, etc. The products adopt H.264 BaseLine Profile@ Level 4.0 video compression format, support three-stream, support ONVIF protocol, and adopt high-speed embedded 3A (AWB, AF, AE) to make the image clearer, smoother and more realistic. Built-in Web Server allows users to easily perform real-time monitoring and remote control over front-end cameras via IE browser.

This series of IP cameras is suitable for medium-sized and small enterprises, families, and other environments that require remote network video transmission and monitoring. The products are easy to install and operate.

Statement:

- Contents in this manual may be different from the edition that you are using. There may be technical inaccuracies, or typographical errors in the manual.
- Should any unsolved problem occur given that the product is used according to this manual, please contact our technical support department or your product suppliers.
- The content of this manual may be updated at irregular intervals without prior notice.

Audience:

This manual is suitable for engineers as follow:

- System planning person
- Technical support and maintenance person
- Administrator
- User

Convention

Conventions are as follows in this manual:

- “IP Camera” mentioned in this manual refers to network camera, including box IP camera, dome IP camera, infrared box IP camera, speed dome IP camera, etc.
- Click: Press the left mouse button once.
- Double-click: Press the left mouse button twice.
- “[]”: Option name, Window name, menu name and datasheet.

Caution

- This device should be operated only from the type of power source indicated on the marking label. The voltage of the power must be verified before using. Kindly remove the cables from the power source if the device is not to be used for a long period of time.
 - Do not let this product fall to the ground or against the strong percussion.
 - Do not directly touch the optical components of image sensor. If necessary, place a clean cloth with alcohol slightly moist and gently wipe the dust. If the device is not to be used, please cover it with dust cover to protect the image sensor.
 - Avoid aligning strong light (such as lighting, sunlight, etc.) focus, otherwise it will easily lead to image too bright or pulling light (this is not a camera malfunction), and it will affect the service life of image sensor.
 - Do not expose the machine in moist, dusty, extremely hot, extremely cold and strong electromagnetic radiation environment. (Normal work temperature: -10 °C ~ +55 °C)
 - Avoid water or other liquid flowing into the camera in use. In case any solid or liquid get inside the machine, user must cut off the power supply immediately, and get it checked by a qualified technician.
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Chapter 1 Download And Install ActiveX

You need to install ActiveX Control when you visit IP camera for the first time through IE browser.

ActiveX installing method:

- 1) Input the IP address of IP camera in Internet Explorer (for example: 192.168.1.10) to enter into login page, as shown in Fig1:
- 2) Click [Download ActiveX] to download the ActiveX.

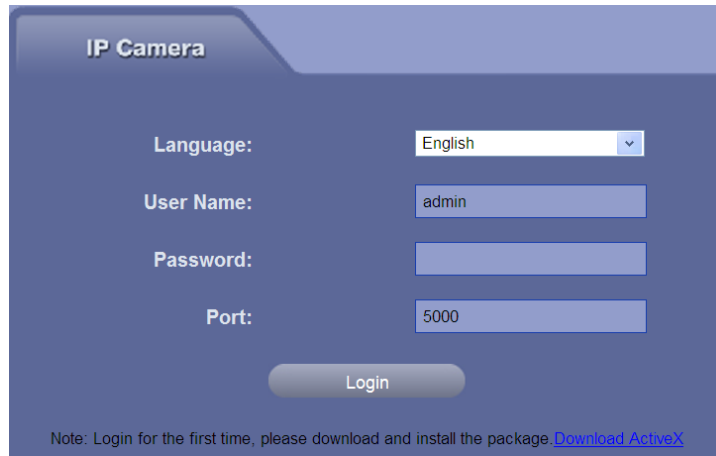


Fig1

- 3) File download dialogue box pops up, click [Run] or [Save] to download ActiveX.
- 4) After download it, double-click the downloaded file "WebClient" to install it.
- 5) Click [Run] button to pop up WebClient Setup dialogue box, click [Next] button to select installation path, as shown in Fig2:

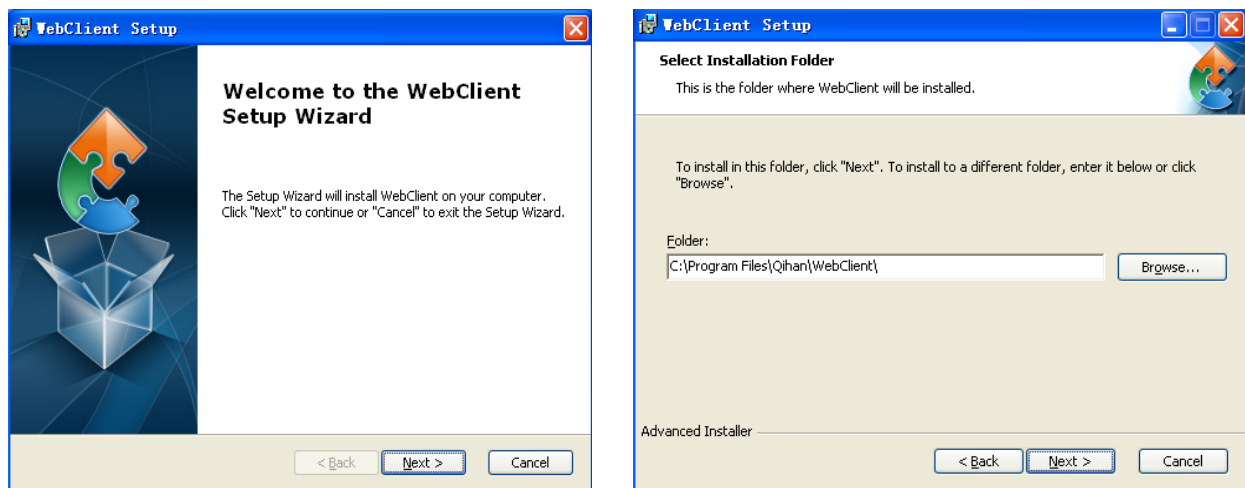


Fig2

- 6) Click [Install] button to start to install "WebClient", please wait a moment;
- 7) After installation is complete, click [Finish] button to exit, as shown in Fig3:

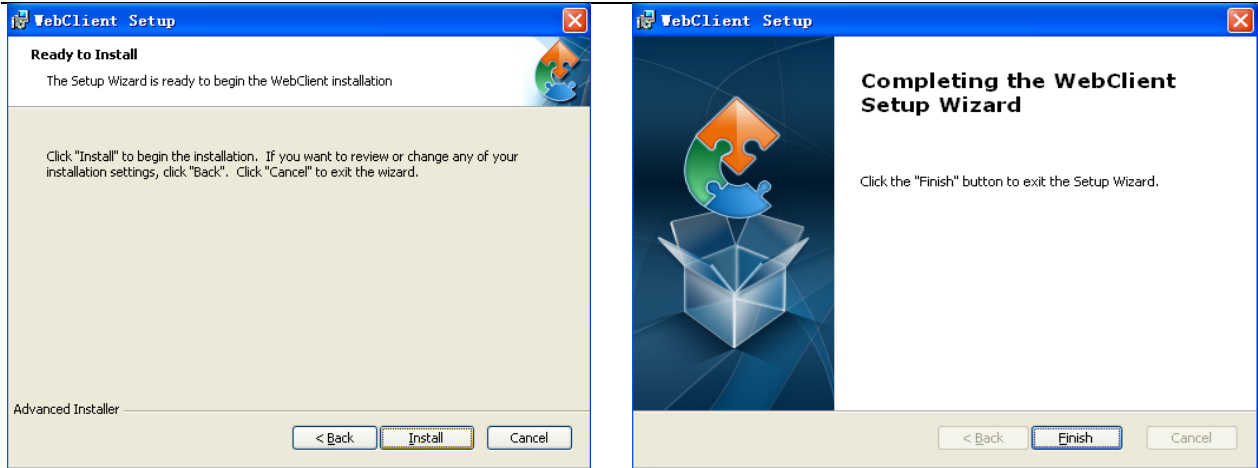


Fig3

Chapter 2 User Login

Reopen Internet Explorer after ActiveX installation completes, input IP address of the IP camera (for example: 192.168.1.10) to turn to login page, as shown in Fig4:

Language: Select the system language of WebClient, including Simplified Chinese and English;

User: Input the user name. The default user name is “admin”;

Password: Input the password. The default password is blank;

Port: Input the port number. The default port is 5000;

Input user name, password and port number, then click “Login” button to enter the main interface.

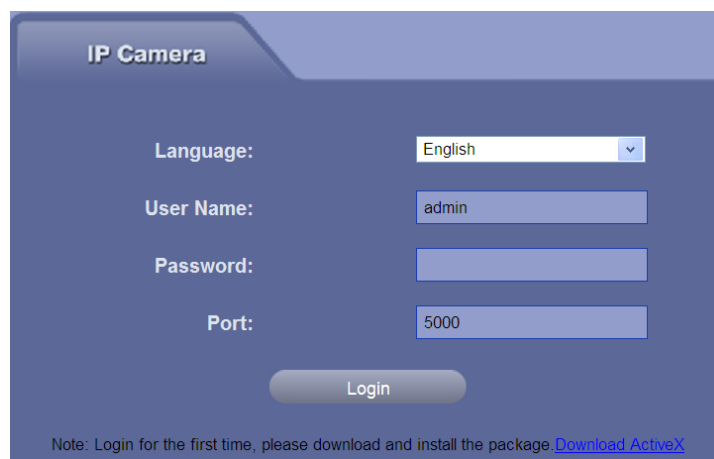


Fig4

Chapter 3 Live Preview

After user have logged in, enter into the live preview interface, or click **Live Video** button in menu bar to enter this interface. The interface of “Live Video” is shown in Fig 5:

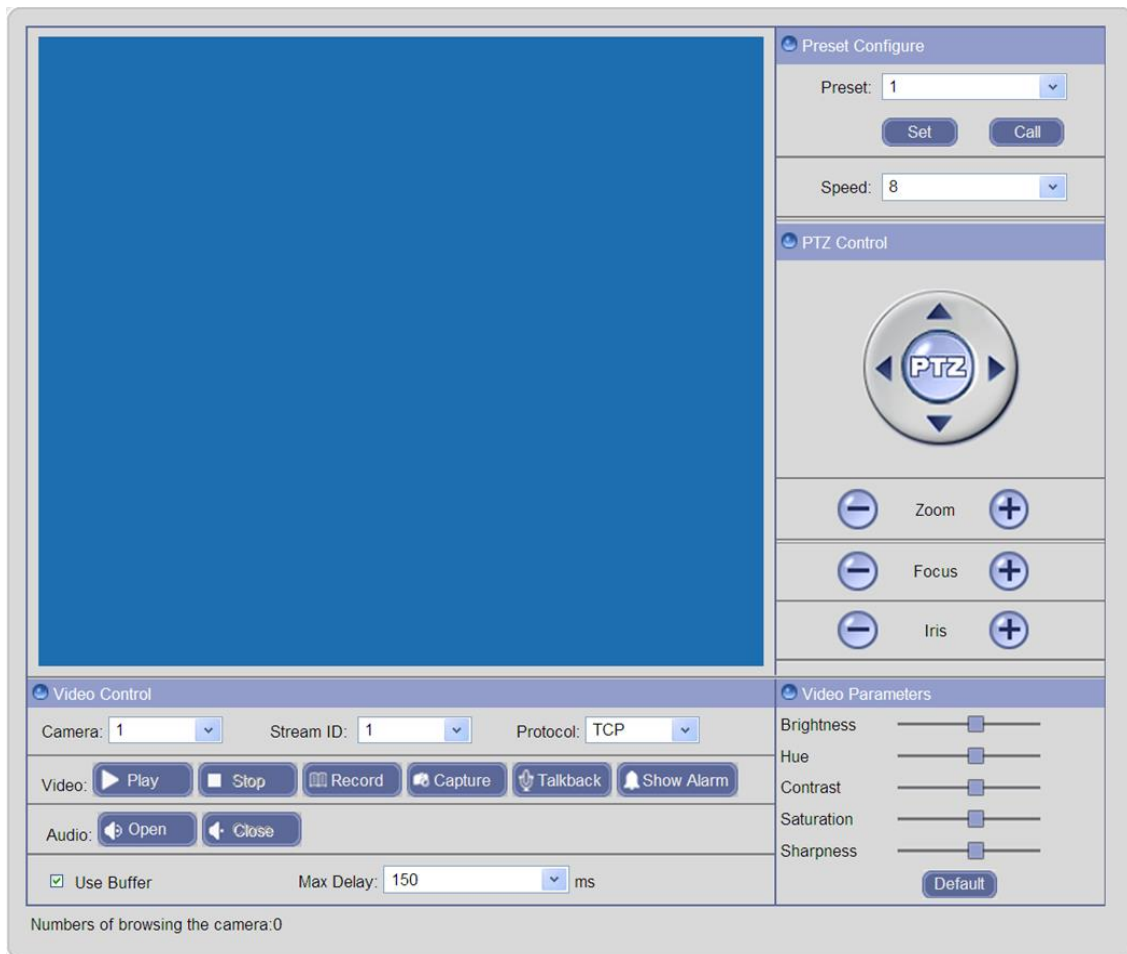



Fig 5


In the Live Video interface, users can do operations like Play, Stop, Record, Capture, Talkback, Show Alarm, Preset Configure, Video Parameters Configure, Full-screen Viewing and PTZ Control, etc.

[Play]: Click this button to open the current video screen.

[Stop]: Click this button to close the current video screen.

[Record]: Manual recording switch. Automatically record current video and save them in AVI format to the storage directory after the recording function turned on. The state is changed to  after enable recording; click this button to stop recording.

[Capture]: Click this button to snap the current image and automatically save it in .JPG format to the storage directory.

[Talkback]: Audio talkback switch. The talkback between PC and IP camera can be performed (audio talkback device is installed to the IP camera). The state is changed to  after enable audio talkback; click this button to stop talkback.

[Show Alarm]: Click this button to pop up alarm information list, it shows the alarm IP, alarm time and alarm description, etc.

[Audio]: Turn on or turn off the sound of live video.

[Preset Configure]: Allows set or call the presets, range from 1~128; user can also set the PTZ speed, range from 1~8.

[Video Parameters]: User can drag the slide bar to adjust the parameters of active video, including brightness, chroma, contrast, saturation and sharpness. Click Default button to resort the default value.

[Full Screen]: Double-click the video screen to display image in full-screen, double-click again to exit full screen mode.

[Stream ID]: User can choose three different streams, range from 1~3.

[PTZ Control]: Allows four-directional rotation, automatic adjustment of PTZ rotation speed, adjust zoom, focus and Iris, refer to Fig 6:



Fig 6

Chapter 4 Record Playback

Click **Playback** button in menu bar to enter the video playback page, as shown in Figure 7:

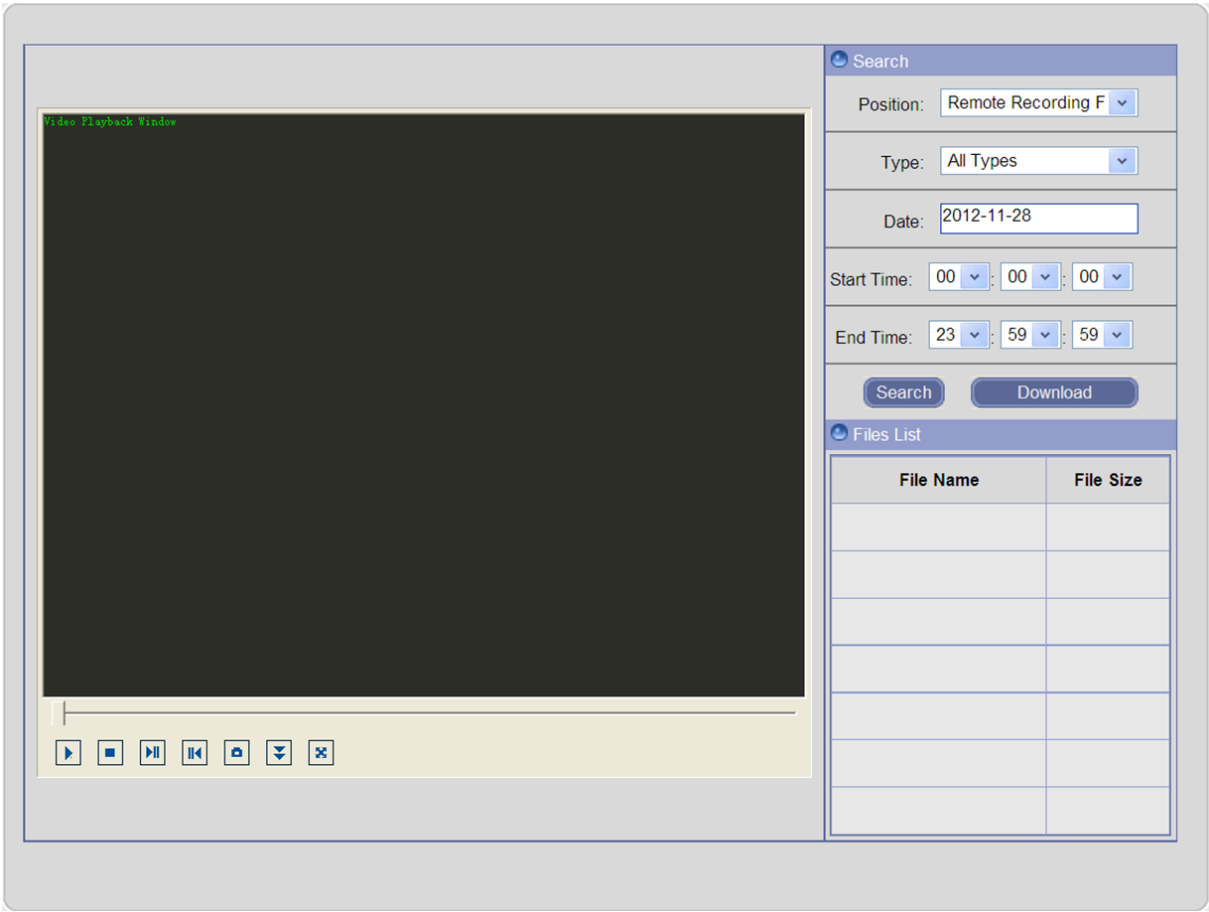


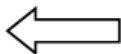
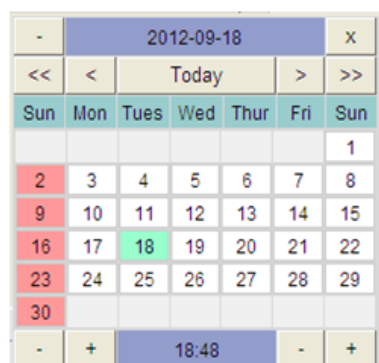
Fig 7

Users can search for recorded video files or snapped pictures in local PC or storage device according to date.



[Position]: User can select the file position, including remote recording files, remote capture images, local recording files and local capture images.


[Type]: User can select the type, including manual recording, motion alarm recording, I/O alarm recording, time recording, download and all types. Selecting a different file position has different selections of type.

[Date]: Select a certain date to search recorded video file or snapped picture; click the date box, the calendar will pop up, refer to Fig 8:



Click  /  icon to turn to previous / next year

Click  /  icon to turn to previous / next month

Click  icon to select today

Click  /  icon on left side of time to turn to previous/ next hour


Click  /  icon on right side of time to turn to previous/ next minute

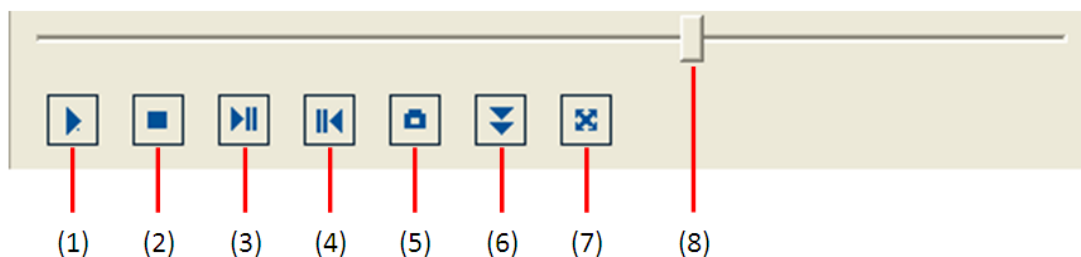
Fig 8

According to the above description to select the setting, and setup start time & end time, then click Search button.

[Files List]: The searched files information will be displayed in the Files List.

[Download]: Select the recorded files or snapped pictures searched from SD card in the file list, click this button to download the files to PC.

[Play]: Choose the recorded video or snapped picture in the file list, double-click the video or click picture, or click “play” button to playback. The contents will be displayed in the video playback window. User can view the playing information and click the relevant buttons on the screen to do operation, as shown in Figure 9:



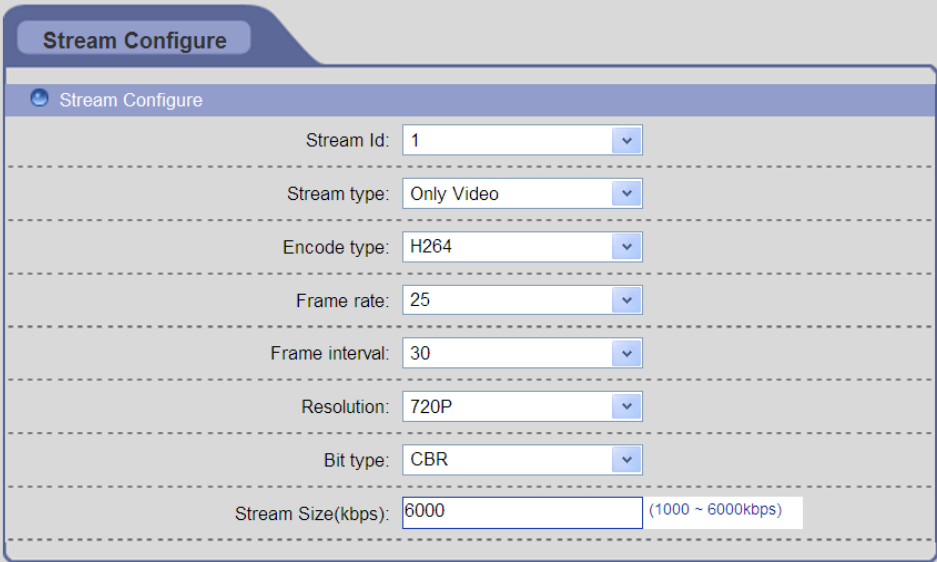
(1) play/pause	(2) Stop
(3) Next segment	(4) Last segment
(5) Snap	(6) Download
(7) Full screen	(8) play process

Fig 9

Chapter 5 Set System Parameters

5.1 Stream Configure

The interface of stream configure is shown in Fig 10:



The 'Stream Configure' window displays the following settings:

- Stream Id: 1
- Stream type: Only Video
- Encode type: H264
- Frame rate: 25
- Frame interval: 30
- Resolution: 720P
- Bit type: CBR
- Stream Size(kbps): 6000 (1000 ~ 6000kbps)

At the bottom, there are two buttons: 'Refresh' and 'OK'.

Fig 10

[Stream ID]: Choose three kinds of stream ID to do stream configure.

[Stream type]: Stream type includes Only Video and Video & Audio.

[Encode type]: Encode type includes H.264, MJPEG and MPEG4.

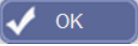
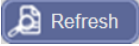
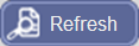
[Frame rate]: Set encoding frame rate per second, range from 1 to 30.

[Frame interval]: Adjustable between 0~300. The smaller frame interval, the higher image bitrate and the better image quality you get. It is recommended to set the frame interval as above 25.

[Resolution]: Set the resolution of image.

[Bit type]: Two options: CBR and VBR. CBR adopts constant encoding bitrate, VBR adopts variable encoding bitrate.

[Stream Size]: The range of stream bitrate is 1000~12000Kbps. The higher bitrate can generate better image quality, but it occupies more bandwidth, please adjust the setting according to your actual bandwidth.

Click  button to save the setting; when the setting is not saved, click  button to return to the previously saved parameters; when the setting has been saved, click  button to query whether the setting is successful.

5.2 Network Configure

The interface of network parameters is shown in Fig 11:

The screenshot shows a web-based configuration interface for network parameters. It has a title bar 'Network Parameters' and several sections with expandable/collapsible headers. The 'Device Port' section contains four input fields: Device Port (5000), Web Port (80), RTSP Port (554), and ONVIF Port (12001). The 'IP Address' section has a checkbox for 'Automatically obtain IP address(DHCP)' which is unchecked, followed by input fields for IP Address (192.168.1.10), Net mask (255.255.255.0), Gateway (192.168.1.1), and Multicast address (236.105.204.0). The 'DNS Server' section has input fields for Preferred DNS server (202.96.128.166) and Alternate DNS server (202.96.134.133). The 'Default gateway' section has two radio buttons: 'Wire' (selected) and 'Wireless'. At the bottom, there are two buttons: 'Refresh' and 'OK'.

Fig 11

[Device Port]: Default value is 5000 (users are recommended not to change it).

[Web Port]: Default value is 80 (users are recommended not to change it).

[RTSP Port]: Default value is 554 (users are recommended not to change it).

[ONVIF Port]: Default value is 554 (users are recommended not to change it).

[DHCP]: If DHCP function of the router is enabled, IP camera will automatically obtain IP address from the router.

[IP address]: Set the camera's IP address.

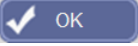
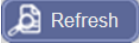
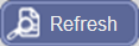
[Subnet mask]: Default value is 255.255.255.0 (users are recommended not to change it).

[Gateway]: Set the camera's gateway IP. For example, when the device is connected to public network via a router, the gateway IP is the router IP.

[Multicast address]: Multicast means the hosts of a group can receive all the data within this group. Multicast address is the reserved class D address from 224.0.0.0-239.255.255.255, and some address has special use (users are recommended not to change it).

[DNS Server]: The default server is the DNS address of Guangdong province. Users outside this area please use DDNS function to set the DNS address as their local DNS address.

[Default gateway]: Set the default type of gateway. Two options: Wire and Wireless.

Click  button to save the setting; when the setting is not saved, click  button to return to the previously saved parameters; when the setting has been saved, click  button to query whether the setting is successful.



Note: After revise and save parameters, the device will restart. If it is applied in LAN, please pay attention to avoid conflict between its IP address and the IP addresses of other devices or PC in the LAN.

5.3 Time Parameters

The interface of time parameters is shown in Fig 12:

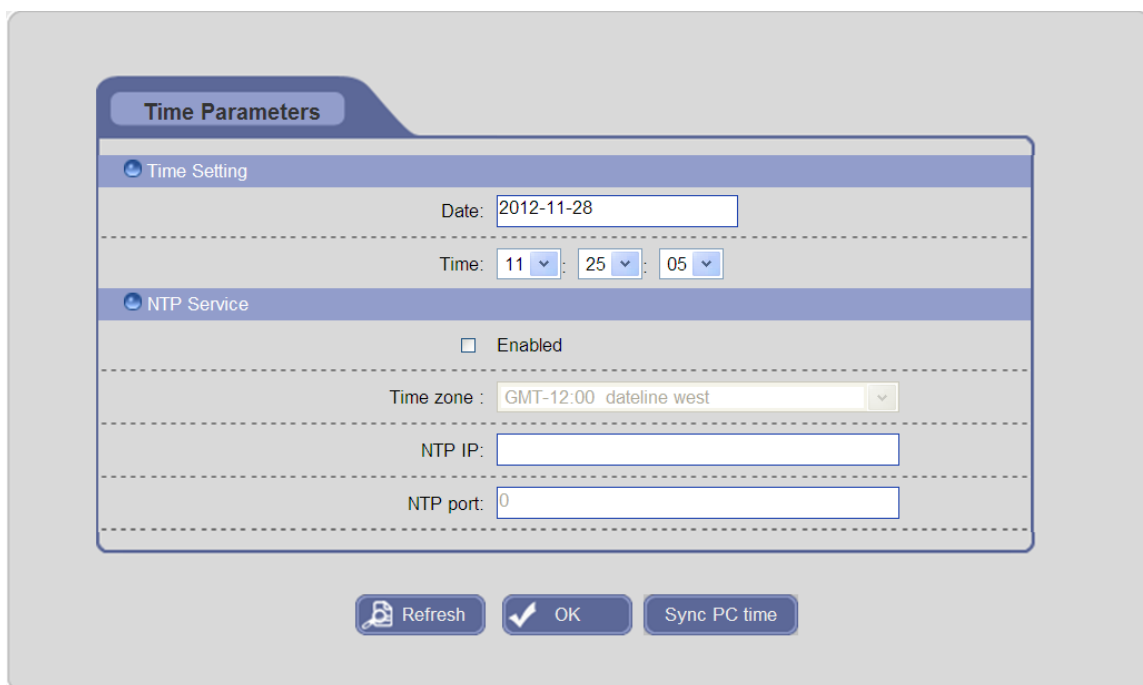

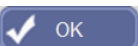
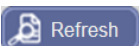
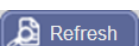


Fig 12

[Time Setting]: Manually set the system date and time of device.

[NTP Server]: After enable this function, user can choose the proper time zone, set the NTP IP and NTP port, and IP Camera will proofread system time to NTP server according to the settings.

[Sync PC time]: Click  button, the date and time of IP camera will be synchronized with the PC.

Click  button to save the setting; when the setting is not saved, click  button to return to the previously saved parameters; when the setting has been saved, click  button to query whether the setting is successful.

5.4 OSD

The interface of OSD configure is shown in Fig 13:

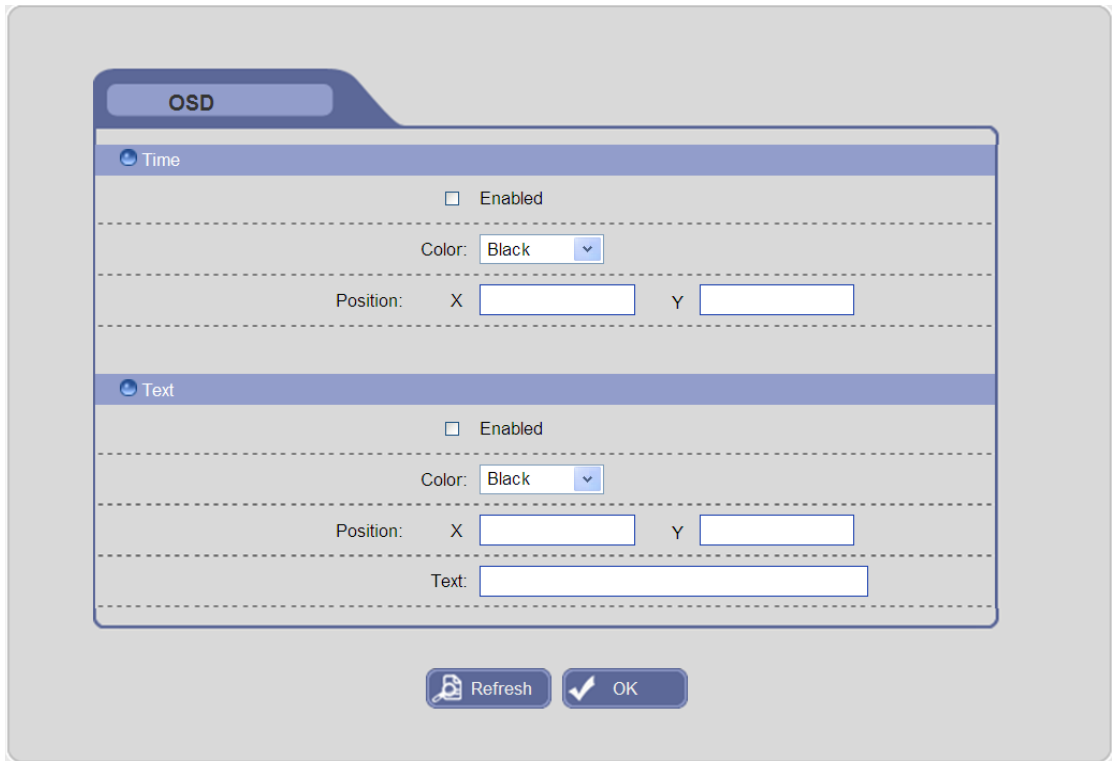


Fig 13

[Time]: The system time of video channel. Enable this function to display system time at the top left of image.

[Color]: User can choose different colors for the time. There are two colors to choose from black and white.

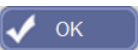
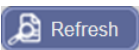
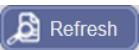
[Position]: User can adjust the display position of system time.

[Text]: Enable this function to display channel name at the top left of image.


[Color]: User can choose different colors for the name. There are two colors to choose from black and white.

[Position]: User can adjust the display position of channel name.

[Text]: The name of video channel, it supports 30 English characters or 20 Chinese words at maximum. Click text box to self-define the channel name.

Click  button to save the setting; when the setting is not saved, click  button to return to the previously saved parameters; when the setting has been saved, click  button to query whether the setting is successful.

5.5 Privacy Regional

After entering the privacy regional interface, click  button at the center of interface to enter the Shelter Area window, refer to Fig 14:

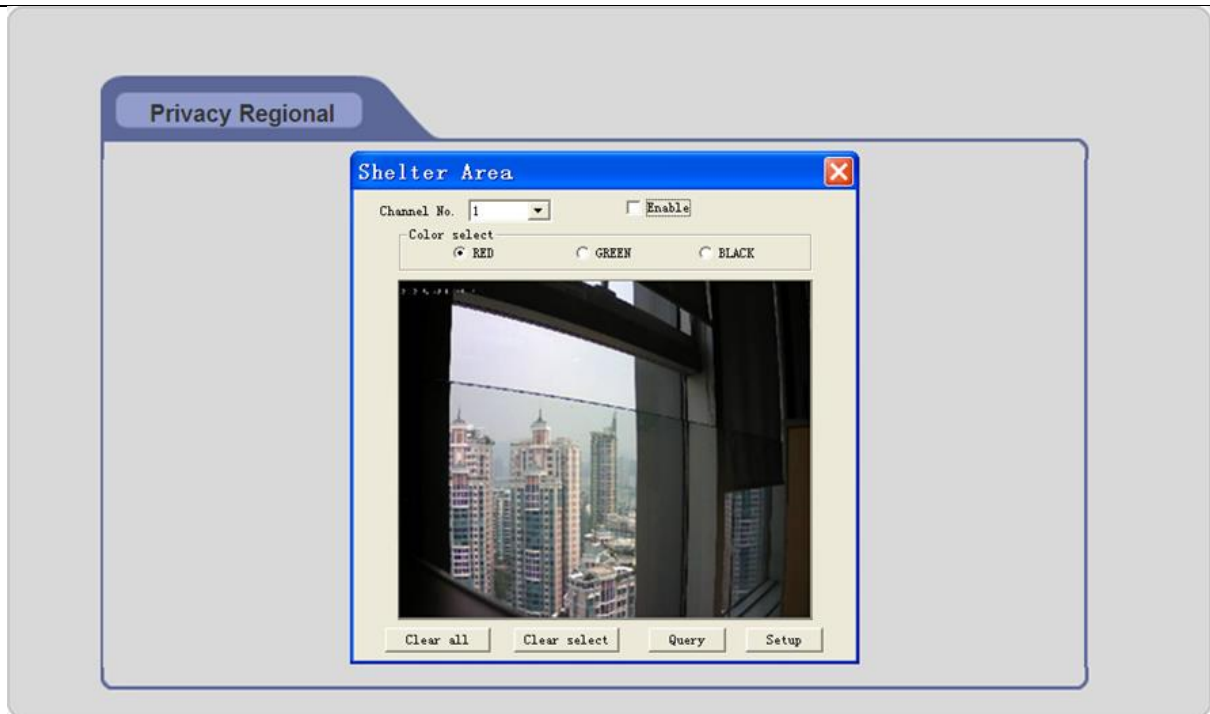


Fig 14


After enable privacy regional function, click and move cursor to set the privacy area of channel image. An image can be entirely or partially masked, it supports 4 areas at maximum. Click the set area to select the area, click again to deselect.

[Channel No.]: Select the channel of privacy regional.

[Color select]: Set the covering color of privacy area. There are three colors to choose from red, green and black.

[Clear all]: click this button to clear all set privacy areas.

[Clear select]: click this button to clear selected privacy area.

Click **Setup** button to save the setting; when the setting is not saved, click **Query** button to return to the previously saved parameters; when the setting has been saved, click **Query** button to query whether the setting is successful; click  button to exit current interface.

5.6 SD Card

The interface of SD card configure is shown in Fig 15:

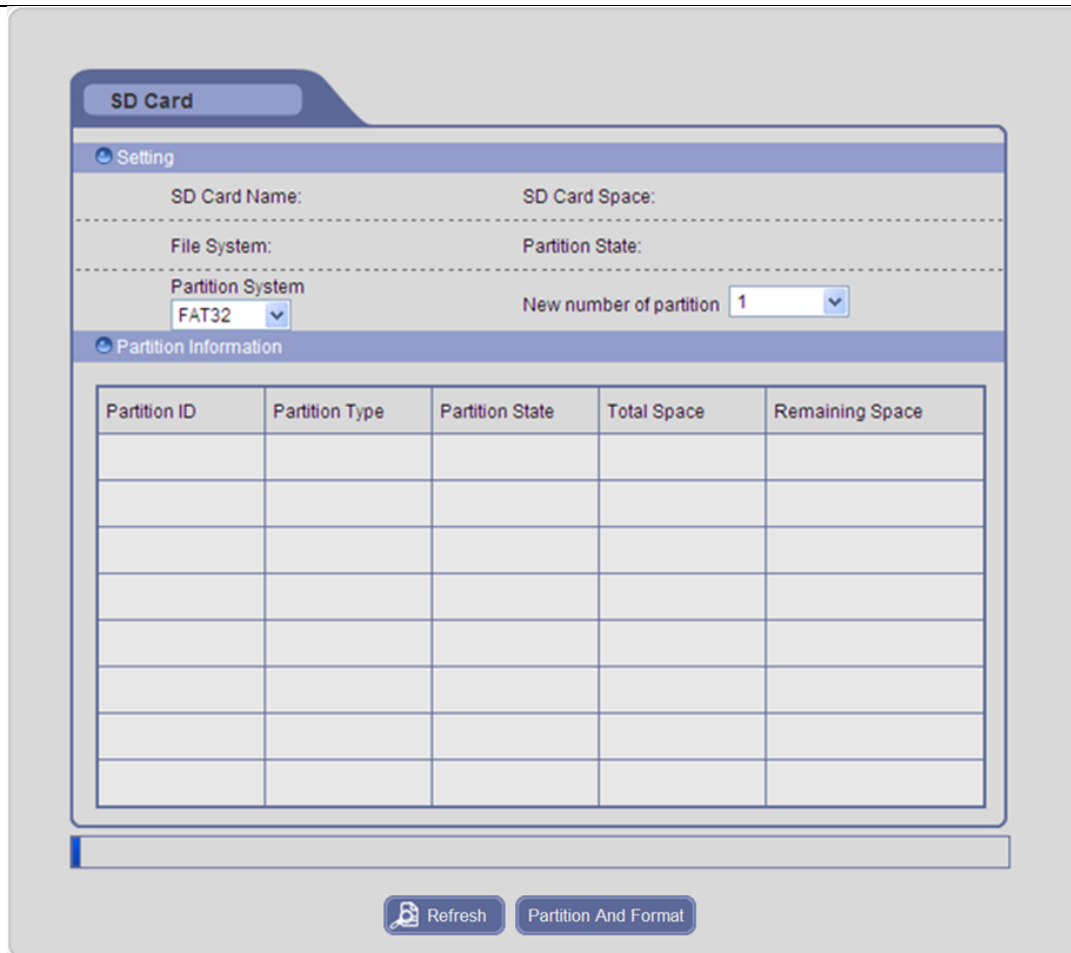


Fig 15

In this interface, user can view the information of SD card, including SD card name, SD card space, file system, partition state, new number of partition, partition type, remaining space, formatting progress, etc.

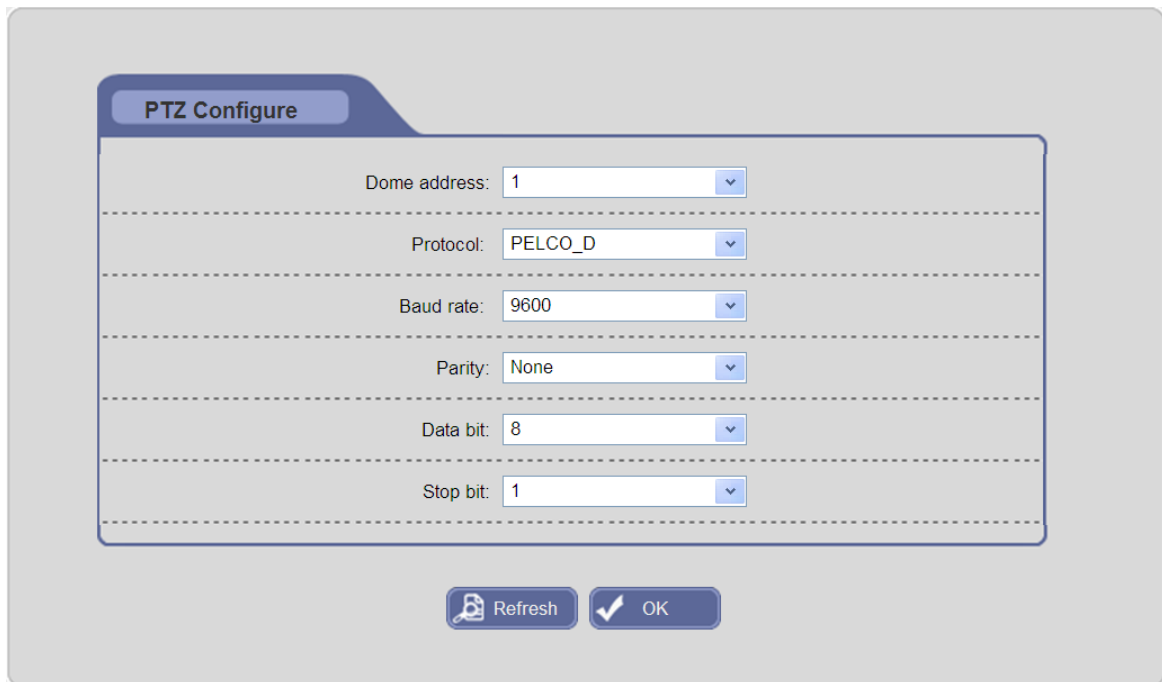
Click **Partition And Format** button to format the SD card; when the setting is not saved, click **Refresh** button to return to the previously saved parameters; when the setting has been saved, click **Refresh** button to query whether the setting is successful.

**Note:**

- Hot-plugging is not recommended for SD card, compulsory hot-plugging may damage the SD card, causing data loss or abnormal operation.
- Do not cut off the power of the device in the process of formatting.
- FAT32 file is used to format system by default.
- IP Camera doesn't support the storage that can be formatted into several partitions, so if user want to format it on PC before using it, please format it into one partition.

5.7 PTZ Configure

The interface of PTZ configure is shown in Fig 16:

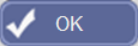
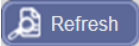
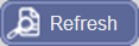


The PTZ Configure interface is a web-based form with a title bar labeled "PTZ Configure". It contains six rows of configuration fields, each with a label and a dropdown menu. The fields are: "Dome address" set to 1, "Protocol" set to PELCO_D, "Baud rate" set to 9600, "Parity" set to None, "Data bit" set to 8, and "Stop bit" set to 1. At the bottom of the form are two buttons: "Refresh" (with a circular arrow icon) and "OK" (with a checkmark icon).

Field	Value
Dome address	1
Protocol	PELCO_D
Baud rate	9600
Parity	None
Data bit	8
Stop bit	1

Fig 16

[PTZ configure]: When IP camera is connected to RS485 communication or control device (e.g. PTZ decoder, dome camera), the parameters of PTZ need to be set according to the settings of the communication device (address, protocol, baud rate, parity, data bit and stop bit), and the corresponding protocol need to be downloaded.

Click  button to save the setting; when the setting is not saved, click  button to return to the previously saved parameters; when the setting has been saved, click  button to query whether the setting is successful.



Notice : Only when the parameters and protocol are correct, the add-on communication device can be controlled.

5.8 Record Configure

The interface of record configure is shown in Fig 17:


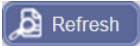
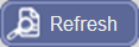
The screenshot shows the 'Record Configure' window. It has two main sections: 'Record Mode' and 'Record Schedule'. In 'Record Mode', the 'Storage rule' is set to 'Circle write' and 'Pre-recording' is unchecked. In 'Record Schedule', the 'Enabled' checkbox is unchecked. Below this, there are four rows for recording periods. Each row has a 'Day of week' dropdown (all set to 'Wednesday') and an 'Apply to' dropdown (all set to 'Today'). Each row also has 'Start' and 'End' time pickers, all set to 00:00:00 and 23:59:59 respectively. At the bottom are 'Refresh' and 'OK' buttons.

Fig 17

[Storage rule] : Two options: circle write and not overwrite. Circle write will cover the earlier recorded files and keep recoding when storage space is full; otherwise it will stop recording when storage space is full.

[Pre-recording]: Enable or disable pre-recording function; support for the pre-recording time is 7 seconds. Alarm signal needs a little time to processing and trigger the video recording, it may not record the important information before the alarm signal is generated, so use this function to improve the reliability of video surveillance.

[Record Schedule]: After enable this function, set the period of scheduled recording, four periods allowed. Recording schedule can be copied to the other date, select “Day of week” to the date or everyday which set as the same settings.

Click  button to save the setting; when the setting is not saved, click  button to return to the previously saved parameters; when the setting has been saved, click  button to query whether the setting is successful.

5.9 Alarm Configure

5.9.1 Motion Detection

The interface of motion detection configure is shown in Fig 18:

Motion Detection

Setting

Sensitivity: Low Detection Time Interval: 10

Set Motion Area

Alarm Schedule

☒ Enabled

Weekday: Wednesday Copy schedule to: Today

Period1 Start 00:00:00 End 23:59:59

Period2 Start 00:00:00 End 00:00:00

Period3 Start 00:00:00 End 00:00:00

Period4 Start 00:00:00 End 00:00:00

Linkage Mode

Output ☐ Output1 Linkage Output(s) 1

Record ☐ Channel1 Linkage Mode(s) 5

Capture ☒ Channel1 Capture Pictures: 2

E-mail ☒ Enabled ☐ Text ☒ Text and image

FTP ☒ Enabled ☐ Text ☒ Text and image

Refresh OK

Fig 18

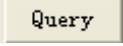

In this interface, users can set parameters like motion detection on/off, sensitivity, detection time interval, linkage alarm output, linkage output duration, linkage recording / capture, and sending E-mail when alarm has been triggered, etc.

[Sensitivity]: set the sensitivity of motion detection, range from: high, low, normal; the higher grade means higher sensitivity.

[Detection Time Interval]: It means the time interval between two adjacent detective motions; range from: 1~10. If there is other motion detected during the interval period which is considered continuous movement; otherwise, it will be considered that those two adjacent detective motions are two different motion events.

[Set Motion Area]: Click this button to enter the detection region window. Click and move mouse to set the area of motion detection. An image can be entirely or partially set, user can set one area for detection at maximum. Click the set area to select the area, click again to deselect.

Click **Clear all** button to clear all set detection areas; click **Clear select** button to clear selected detection area; click **Setup** button to save the setting; when the setting is not saved, click **Query** button to return to the previously saved parameters; when the setting has been

saved, click  button to query whether the setting is successful; click  button to exit current interface.

[Alarm Schedule]: After enable this function, set the period of motion detection, four periods allowed. Alarm schedule can be copied to the other date, select “Weekday” to the date or everyday which set as the same settings.

[Output]: Enable or disable linkage alarm output.

[Linkage Output(s)]: Set the duration of linkage alarm output after being triggered (in seconds), the range of alarm duration is 1~10s.

[Record]: When motion alarm is triggered, it will record and store the video in the SD card on device. The record files can be saved via E-mail sending or FTP uploading.

[Linkage Mode(s)]: Set the duration of linkage recording after being triggered (in seconds), range from: 5/10/30/60/120/300/600/900/1200/1800s.

[Capture]: When motion alarm is triggered, it will snap pictures and store them in the SD card on device. The captured pictures can be saved via E-mail sending or FTP uploading.

[Capture Pictures]: Set the amount of linkage capture after being triggered, the number of pictures snapped is from 1 to 10. If the number is set as 10, and the snapping interval is 1 second, that means when there is an alarm, 10 pictures will be snapped at one time and the interval between each picture is 1 second.

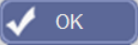
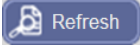
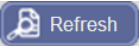
[E-mail]: Enable E-mail function; when motion alarm is triggered, a notification email will be sent to user's designed email box including trigger events, time, capture pictures, and device name, etc. User can select only sending text messages or sending text and image messages.

Details about E-mail setting please refer to [E-mail Configure].

[FTP]: Enable FTP function; when motion alarm is triggered, the alarm information of motion detection will be saved in the way of FTP uploading. User can select only sending text messages or sending text and image messages.

[Alarm Sound]: Close or open the alarm ringing.

[Ring Duration Time(s)]: After opening the alarm ringing, set the duration of alarm ringing after being triggered (in seconds), the range of alarm ringing is 1~10s.

Click  button to save the setting; when the setting is not saved, click  button to return to the previously saved parameters; when the setting has been saved, click  button to query whether the setting is successful.

5.9.2 I/O

The interface of I/O alarm configure is shown in Fig 19:

The screenshot displays the configuration page for an IP camera's I/O alarm. It is organized into three main sections:

- Setting:** Contains an 'I/O Type' dropdown menu currently set to 'N.O.'.
- Alarm Schedule:** Includes an 'Enabled' checkbox. Below it, a 'Weekday' dropdown is set to 'Wednesday', and a 'Copy schedule to:' dropdown is set to 'Today'. There are four rows for scheduling periods (Period1 to Period4), each with 'Start' and 'End' time pickers.
- Alarm Linkage:** Contains several options:
 - Output:** A checkbox and a 'Linkage Output(s)' dropdown set to '1'.
 - Record:** A checkbox and an 'Alarm Linkage(s)' dropdown set to '5'.
 - Capture:** A checkbox and a 'Capture Pictures:' dropdown set to '1'.
 - E-mail:** A checkbox labeled 'Enabled' with radio buttons for 'Text' and 'Text and image'.
 - FTP:** A checkbox labeled 'Enabled' with radio buttons for 'Text' and 'Text and image'.

At the bottom of the interface are two buttons: 'Refresh' and 'OK'.

Fig 19

In this interface, users can set parameters like I/O alarm on/off, alarm schedule, linkage alarm output, linkage output duration, linkage recording / capture, and sending E-mail when alarm has been triggered, etc.

[I/O Type]: Close or open the I/O alarm detection.

[Alarm Schedule]: After enable this function, set the period of time for I/O alarm detection, four periods allowed. Alarm schedule can be copied to the other date, select “Weekday” to the date or everyday which set as the same settings.

[Output]: Enable or disable linkage alarm output.

[Linkage Output(s)]: Set the duration of linkage alarm output after being triggered (in seconds), the range of alarm duration is 1~10s.

[Record]: When I/O alarm is triggered, it will record and store the video in the SD card on device. The record files can be saved via E-mail sending or FTP uploading.

[Alarm Linkage(s)]: Set the duration of linkage recording after being triggered (in seconds), range from: 5/10/30/60/120/300/600/900/1200/1800s.

[Capture]: When I/O alarm is triggered, it will snap pictures and store them in the SD card on device. The captured pictures can be saved via E-mail sending or FTP uploading.

[Capture Pictures]: Set the amount of linkage capture after being triggered, the number of pictures snapped is from 1 to 10. If the number is set as 10, and the snapping interval is 1 second, that means when there is an alarm, 10 pictures will be snapped at one time and the interval between each picture is 1 second.

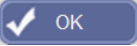
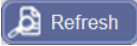
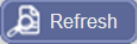
[E-mail]: Enable E-mail function; when I/O alarm is triggered, a notification email will be sent to user's designed email box including trigger events, time, capture pictures, and device name, etc. User can select only sending text messages or sending text and image messages.

Details about E-mail setting please refer to [E-mail Configure].

[FTP]: Enable FTP function; when I/O alarm is triggered, the information of I/O alarm will be saved in the way of FTP uploading. User can select only sending text messages or sending text and image messages.

[Alarm Sound]: Close or open the alarm ringing.

[Ring Duration Time(s)]: After opening the alarm ringing, set the duration of alarm ringing after being triggered (in seconds), the range of alarm ringing is 1~10s.

Click  button to save the setting; when the setting is not saved, click  button to return to the previously saved parameters; when the setting has been saved, click  button to query whether the setting is successful.

5.10 Advanced Configure

5.10.1 Capture Configure

The interface of capture configure is shown in Fig 20:



The screenshot shows the 'Capture Configure' window with the following sections:

- Setting:**
 - ☐ Enabled
 - Capture Interval: 10 s
- Capture Schedule:**
 - Weekday: Wednesday
 - Apply to: Today
 - Period1: Start 00:00:00, End 23:59:59
 - Period2: Start 00:00:00, End 00:00:00
 - Period3: Start 00:00:00, End 00:00:00
 - Period4: Start 00:00:00, End 00:00:00
- FTP upload:**
 - ☐ Enabled

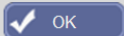
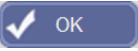
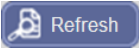
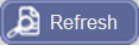
At the bottom, there are two buttons:  and .

Fig 20

[Setting]: Enable or disable capture function; set the time interval of capture: 5, 10, 15, 30, 60 seconds. If the time interval is set as 5s, that means it will capture pictures every five seconds in the period of capture schedule, and store them in the SD card on device.

[Capture Schedule]: After enable this function, set the period of time for capture, four periods allowed. Capture schedule can be copied to the other date, select "Weekday" to the date or everyday which set as the same settings.

[FTP upload]: Enable this function; when alarm is triggered, the alarm information will be saved in the way of FTP uploading.

Click  button to save the setting; when the setting is not saved, click  button to return to the previously saved parameters; when the setting has been saved, click  button to query whether the setting is successful.

5.10.2 Audio Configure

The interface of audio configure is shown in Fig 21:

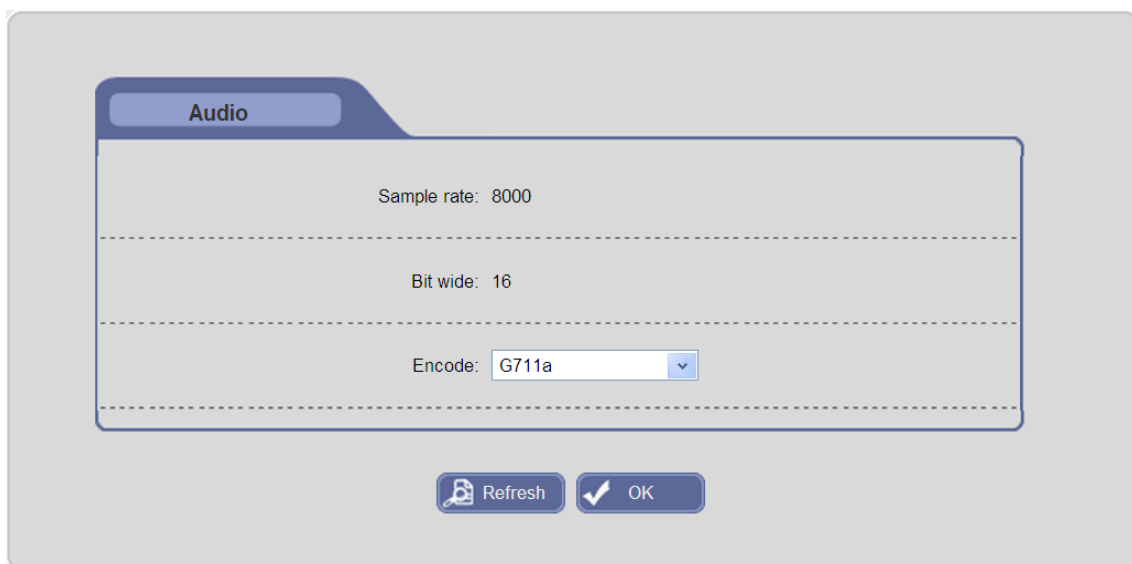
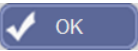
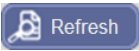
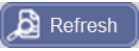


Fig 21

In this interface, users can view the audio sample rate and bit wide of IP camera, set the encode type of audio compression.

[Encode]: Support two types of audio compressed format: G711a and G711Mu.

Click  button to save the setting; when the setting is not saved, click  button to return to the previously saved parameters; when the setting has been saved, click  button to query whether the setting is successful.

5.10.3 WiFi Configure

The interface of WiFi configure is shown in Fig 22:

Router Name	Signal	Security Type	Connect State

WEP Key Format: WEP Key:

Password: (8~64 ASCII or Hexadecimal)

WiFi IP

☐ Enabled ☐ DHCP

IP Address: Net Mask:

WiFi Gateway: Multicast Address:

Fig 22

A wireless router needs to be deployed in order to use the Wi-Fi function of IP camera, e.g. TP-Link WR340G 54M wireless router. The content and steps of the settings are as follows:

① Network parameters setup for wireless router

Enter into “LAN Setting” page under the “network parameter” menu of wireless router, set the IP of wireless router; refer to Fig 23(a):

TP-LINK Model No. _____

LAN

MAC Address: 00-27-19-54-BB-68
 IP Address:
 Subnet Mask:

LAN Help
 You can configure the IP parameters:
 1. If you change the IP address address to log on to the Router.
 2. If the new LAN IP address you Address pool in the DHCP is same time.
 3. If the new LAN IP address you Virtual Server and DMZ Host configured.

Fig 23(a)

② Turn to “basic settings” page under the “wireless parameters” menu; refer to Fig 23(b):

(1) Set SSID

This SSID is for identity validation of wireless network, it must be the same as the SSID setting of the IP camera

(2) Frequency range

It determines the frequency range of network working, which is 1~13, the default value is 6.

Note: If your neighbor also uses wireless network and its frequency is 6, you should consider revise this parameter to 1 or 13 to reduce radio interference between the two routers.

(3) Mode

Set the working mode of wireless router. The mode must be compatible with the supported modes of IP camera.

Wireless mode supported by IP camera: 802.11b/g protocol (low power Wi-Fi model)

802.11a/b/g/n protocol (high power Wi-Fi model)

(4) Enable Wi-Fi function (compulsory)

(5) Enable security setting (optional)

This option can enable the security certification of wireless router. If it is enabled, users need to select the corresponding security mode (encryption mode) and set up authentication password.

(6) Select security type (encryption mode)

Three options: WEP, WPA and WPA2

(7) Security options

WEP security type: developing system, sharing key and auto-selection

WPA, WPA2 security type: TKIP and AES

(8) Set key (authentication password)

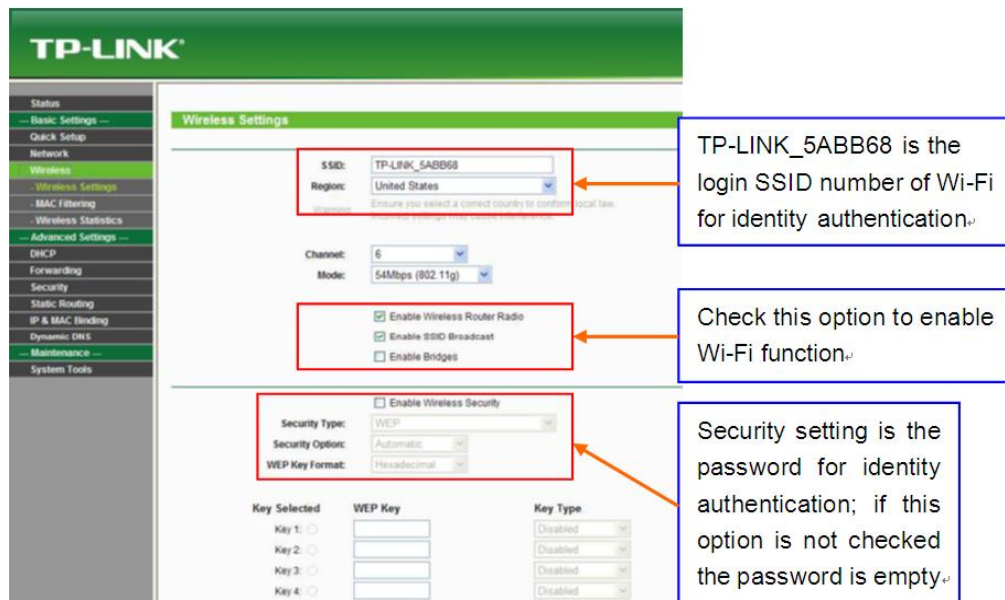


Fig 23(b)

③ WiFi function settings of IP camera:

(1) Security Type

Three encryption types are Auto, WPA-PSK/WPA2-PSK and WEP.

It must be the same as the security type of wireless gateway (router/AP).

(2) Authentication Type

Auto Security Type: not optional

WPA-PSK/WPA2-PSK Security Type: Auto, WPA-PSK and WPA2-PSK are optional

WEP Security Type: Auto, Open (system) and Share Key are optional

It must be the same as the security type of wireless gateway (router/AP).

(3) Encryption Type

Auto or WEP Security Type: not optional

WPA-PSK/WPA2-PSK Security Type: Auto, TKIP and AES are optional

It must be the same as the security type of wireless gateway (router/AP).

(4) WEP Key Format

Auto or WPA-PSK/WPA2-PSK Security Type: not optional

WEP Security Type: ASCII and Hexadecimal are optional

It must be the same as the security type of wireless gateway (router/AP).

(5) WEP Key

Auto or WPA-PSK/WPA2-PSK Security Type: not optional

WEP Security Type: 1-4 is optional



It must be the same as the security type of wireless gateway (router/AP).

(6) Password

It is the login password of Wi-Fi for identity authentication.

It must be the same as the key of the wireless gateway (router/AP).

(7) Search router

User can also deploy wireless router by searching router. Click  button to search router automatically, and the information list will display router information, such as router name, signal, and security type and connect state; as shown below. Select a router in the list, click  button to establish the connection.

Router Name	Signal	Security Type	Connect State
QH001	57	WPA-PSK/WPA2-PSK	Not connected
TP-LINK_83FFB2	37	Auto	Not connected
MERCURY_63D3F4	23	WPA-PSK/WPA2-PSK	Not connected

Router Name: QH001	Security Type	Auto	
Authentication Type	Auto	Encryption Type	Auto
WEP Key Format	ASCII	WEP Key	1
Password	<input type="text"/> (8~64 ASCII or Hexadecimal)		

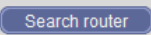
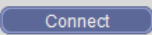
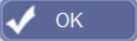
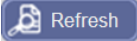
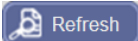
 

Fig 24

(8) WiFi IP

Select this switch to enable Wi-Fi function, and set the wireless IP Address, Net Mask, WIFI Gateway and Multicast Address of IP camera.

Click  button to save the setting; when the setting is not saved, click  button to return to the previously saved parameters; when the setting has been saved, click  button to query whether the setting is successful.

After setting completes, save all parameters. Then disconnect the network cable, IP camera can be visited via wireless IP.



Note: Applies to models with Wi-Fi function only.



Notice : The wireless network IP address and cable network IP address cannot be in the same segment.

5.10.4 PPPoE Configure

The interface of PPPoE configure is shown in Fig 25:

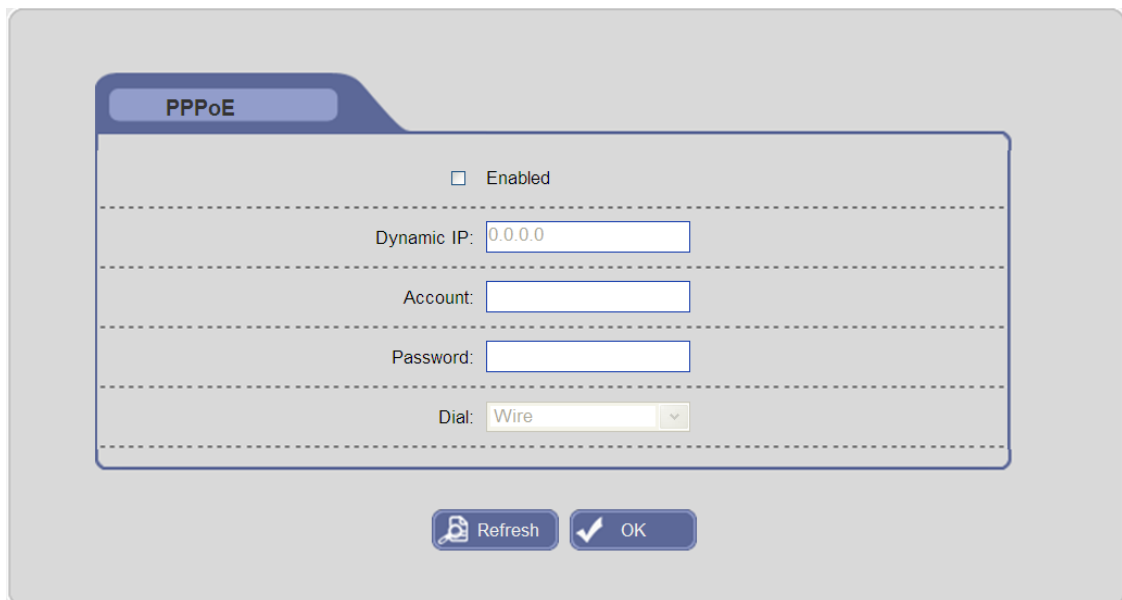


Fig 25

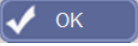
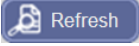
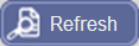
[Enable]: Enable or disable PPPoE dial-up function.

[Dynamic IP]: After successful setting for device dial-up, it will display the public IP Address.

[Account]: ADSL dial-up account, obtain from the IP service provider.

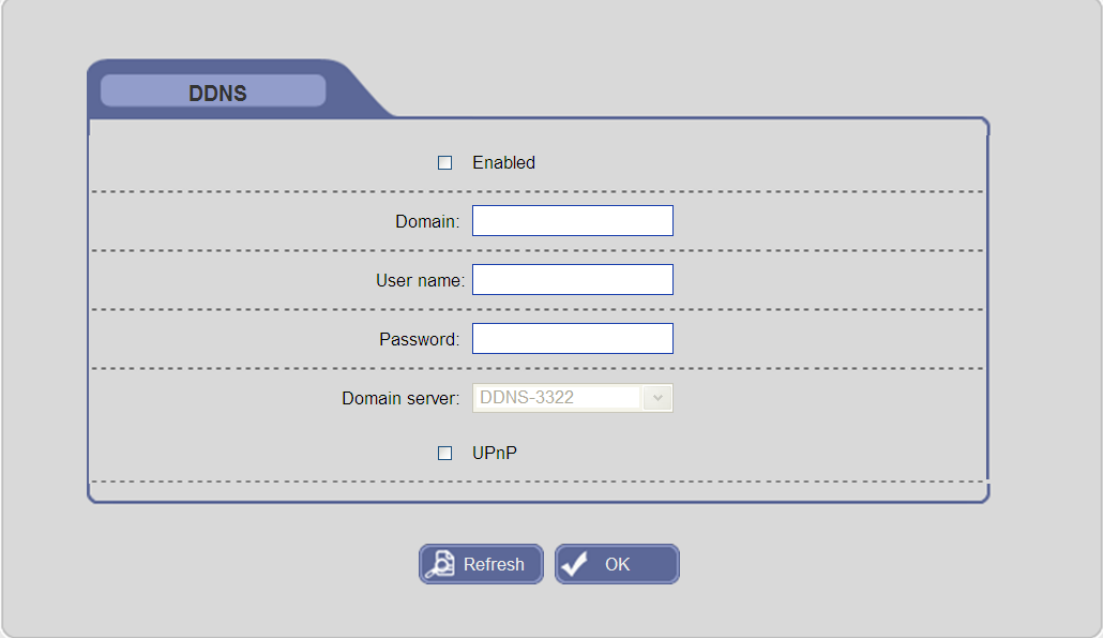
[Password]: ADSL dial-up password, obtain from the IP service provider.

[Dial]: select the dialing mode: wire and wireless. Currently only supports the wired dial-up mode.

Click  button to save the setting; when the setting is not saved, click  button to return to the previously saved parameters; when the setting has been saved, click  button to query whether the setting is successful.

5.10.5 DDNS Configure

The interface of DDNS configure is shown in Fig 26:



The image shows a web interface for DDNS configuration. At the top, there is a tab labeled 'DDNS'. Below the tab, there is a section with a dashed border containing the following elements: an 'Enabled' checkbox, a 'Domain' text input field, a 'User name' text input field, a 'Password' text input field, a 'Domain server' dropdown menu currently showing 'DDNS-3322', and a 'UPnP' checkbox. Below this dashed box, there are two buttons: 'Refresh' (with a circular arrow icon) and 'OK' (with a checkmark icon).

Fig 26

Bind the device with a fixed domain name by DDNS setting, so that user can visit the device no matter how the public IP changes. (Refer to Appendix 4 for detailed steps)

[Enable]: Enable or disable DDNS function.

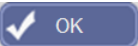
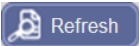
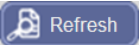
[Domain]: The domain name set up by users, such as MyIPC.no-ip.org.

[User name]: User name registered in DDNS server.

[Password]: User password registered in DDNS server.

[Domain server]: DDNS server address. Three options: DDNS-3322, NO IP and DYNDNS.

[UPnP]: Enable or disable UPnP function.

Click  button to save the setting; when the setting is not saved, click  button to return to the previously saved parameters; when the setting has been saved, click  button to query whether the setting is successful.

5.10.6 E-mail Configure

The interface of E-mail configure is shown in Fig 27:

The image shows a web-based configuration interface titled "E-mail Configure". At the top, there are two checkboxes: "Enabled" (checked) and "SSL" (unchecked). Below these are several input fields separated by dashed horizontal lines:

- SMTP server: test@163.com
- Port: 25
- Sender address: test1@163.com
- Recipient address: test1@163.com
- Recipient address 2: test1@163.com
- Sender name: test
- User name: test
- Password: (masked with three dots)
- Subject: test

At the bottom of the form area, there is a note: "Recommen to use @163 or @gmail mailbox". Below the form are two buttons: "Refresh" (with a circular arrow icon) and "OK" (with a checkmark icon).

Fig 27

To set the mailbox addresses and parameters of alarm mails and public network IP mails.

[Enable]: Enable or disable E-mail function.

[SSL]: After selecting SSL check which means this server requires a secure connection, user can setup mail servers according to actual needs.

[SMTP server]: The address of servers that send the mails. The address formats of mail service provider are different, e.g. the SMTP server of 163 mailbox is smtp.163.com.

[Port]: Port number of SMTP server, the default value is 25; different mail server has different port.

[Sender address]: Sender's email address, such as test1@163.com.

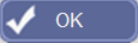
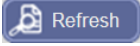
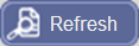
[Recipient address]: Receiver's email address. Here user can add at most two mail addresses.

[Sender name]: Sender's name.

[User name]: Sender's mail login user name.

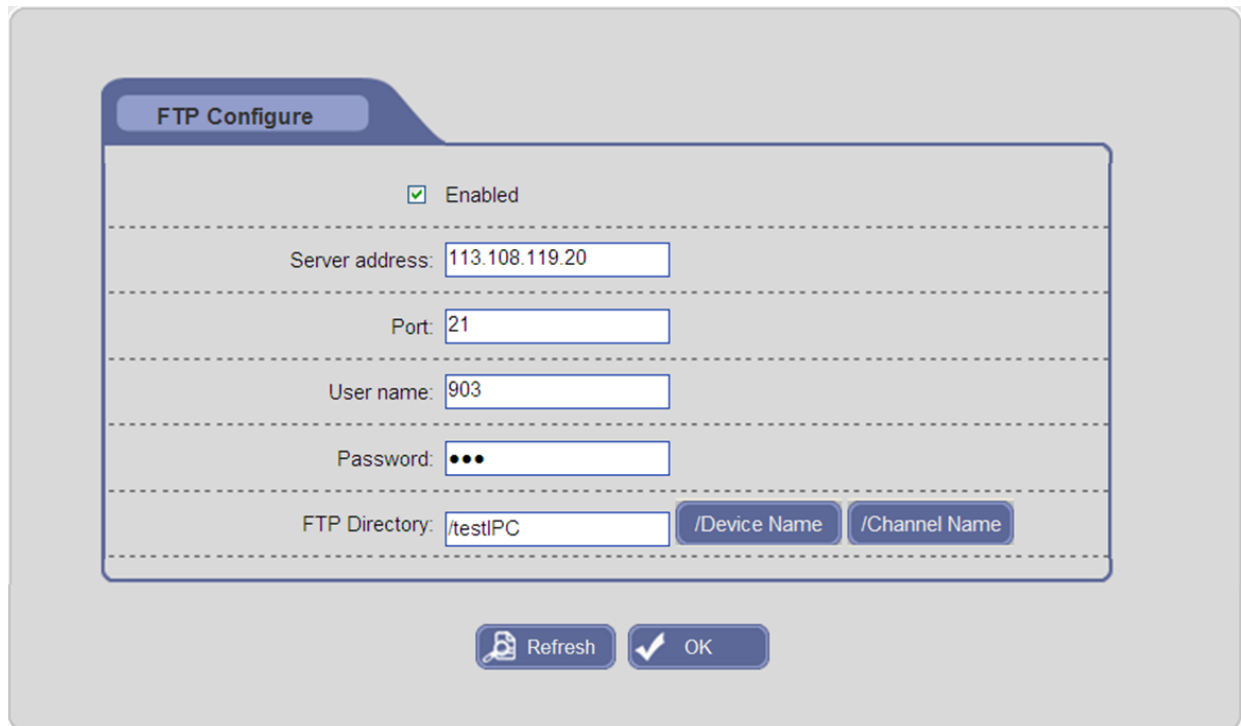
[Password]: Sender's mail login password.

[Subject]: The subject of send messages.

Click  button to save the setting; when the setting is not saved, click  button to return to the previously saved parameters; when the setting has been saved, click  button to query whether the setting is successful.

5.10.7 FTP Configure

The interface of FTP configure is shown in Fig 28:



The figure shows a web-based configuration interface for FTP. It has a title bar 'FTP Configure'. Below it, there is a checkbox labeled 'Enabled' which is checked. Below this are several input fields: 'Server address' with the value '113.108.119.20', 'Port' with the value '21', 'User name' with the value '903', and 'Password' with masked characters '...'. Below these is an 'FTP Directory' field with the value '/testIPC'. To the right of this field are two buttons: '/Device Name' and '/Channel Name'. At the bottom of the form are two buttons: 'Refresh' and 'OK'.

Fig 28

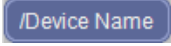
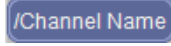
FTP server sends the record files and snapped images after alarm is triggered in FTP mode to specified FTP server.

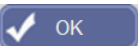
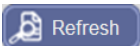
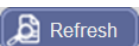
[Enable]: Enable or disable FTP function.

[Server address]: The IP address or HTTP address of FTP server.

[Port]: Port of FTP server, the default port is 21.

[User name] and **[Password]:** User name and password of FTP server.

[FTP Directory]: Path on remote FTP server. Click  button or  button to create a path quickly. If the path doesn't exist or has not been filled in, the device will create a file folder under the root directory of FTP server.

Click  button to save the setting; when the setting is not saved, click  button to return to the previously saved parameters; when the setting has been saved, click  button to query whether the setting is successful.

5.10.8 User Management

The interface of user management is shown in Fig 29:

User name	Password
admin	*****

User information

User name:

Password:

Confirm Password:

User right

☐ Select All

☒ Live Video ☒ Playback

☒ Query Log ☒ Device Configure

☒ PTZ Configure ☒ Record Configure

☒ Alarm Configure ☒ Advance Configure

☒ Stream Configure

Fig 29

[User information]: Input user name and password of new user, set the user rights, then click button, this user will be added into the user list box.

Select a user in the user list, click button to modify user information.

Select a user in the user list, click button to delete this user.

When the user is not added, click button to return to the previously saved parameters; when the user has been added, click button to query whether the setting is successful.

Note: 24 users can be added for each IP Camera at most.

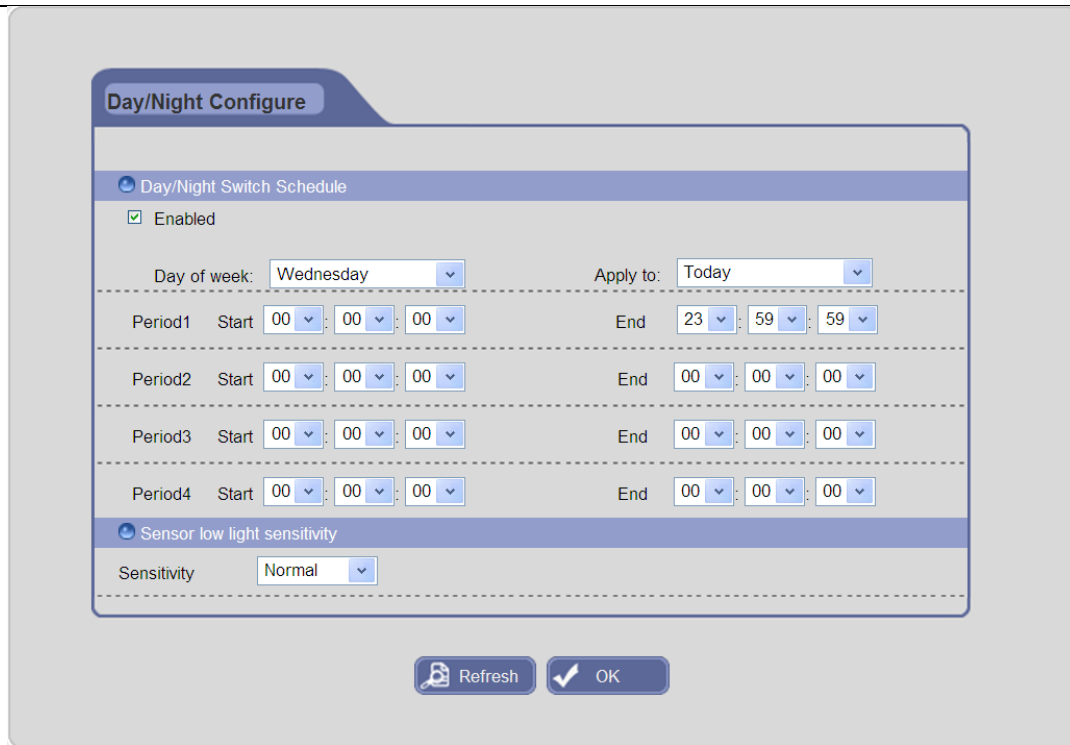
5.10.9 Day/Night Configure

The interface of day/night configure is shown in Fig 30:

[Day/Night Switch Schedule]: Enable CTB (Color to Black) function, IPC will automatically turns on D/N function according to the image's situation. Set the period of time for CTB, four periods allowed. Day/Night Switch schedule can be copied to the other date, select "Day of week" to the date or everyday which set as the same settings.

[Sensitivity]: Set the sensitivity of sensor in low-light conditions, three options: high, normal, low.

Click button to save the setting; when the setting is not saved, click button to return to the previously saved parameters; when the setting has been saved, click button to query whether the setting is successful.



The 'Day/Night Configure' window features a 'Day/Night Switch Schedule' section with an 'Enabled' checkbox. Below this, there are two dropdown menus: 'Day of week' set to 'Wednesday' and 'Apply to' set to 'Today'. The schedule is defined by four periods, each with a 'Start' and 'End' time. Period1 starts at 00:00:00 and ends at 23:59:59. Period2, Period3, and Period4 all start at 00:00:00 and end at 00:00:00. A 'Sensor low light sensitivity' section contains a 'Sensitivity' dropdown set to 'Normal'. At the bottom are 'Refresh' and 'OK' buttons.

Period	Start	End
Period1	00:00:00	23:59:59
Period2	00:00:00	00:00:00
Period3	00:00:00	00:00:00
Period4	00:00:00	00:00:00

Fig 30

5.10.10 ISP Configure

The interface of ISP configure is shown in Fig 31:



The 'ISP Configure' window displays various image processing parameters. It includes sliders for Brightness (127), Contrast (165), Chroma (127), Saturation (170), and Sharpness (25). Below these are dropdown menus for Exposure (Auto), Video Standard (60Hz), Mirror Mode (Disable), and AWB Mode (0). A Noise Reduction Level slider is set to 40, and an 'Indoor And Outdoor' dropdown is set to 'Indoor'. 'Refresh' and 'OK' buttons are at the bottom.

Parameter	Value
Brightness	127
Contrast	165
Chroma	127
Saturation	170
Sharpness	25
Exposure	Auto
Video Standard	60Hz
Mirror Mode	Disable
AWB Mode	0
Noise Reduction Level	40
Indoor And Outdoor	Indoor

Fig 31

[Brightness / Contrast / Chroma / Saturation / Sharpness]: user can drag the slider to adjust the parameters of active image, including brightness, contrast, chroma, saturation and sharpness, range from 1 to 255.

[Exposure]: Set the exposure value.


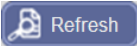
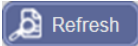
[Video Standard]: In indoor environment, if the flashing of lamps results in the flickering of images, please choose 50HZ or 60HZ according to the power frequency.

[Mirror Mode]: Enable or disable mirroring function, and set the mirror / flip / mirror and flip mode, horizontally / vertically / both horizontally and vertically rotate the video.

[AWB Mode]: set the mode of AWB (Automatic White Balance). There are six kinds of modes to choose from.

[Noise Reduction Level]: The processing level for reducing the picture's noise.

[Indoor And Outdoor]: Select indoor or outdoor mode, in order to get a more suitable video.

Click  button to save the setting; when the setting is not saved, click  button to return to the previously saved parameters; when the setting has been saved, click  button to query whether the setting is successful.

5.11 Device Maintenance

5.11.1 Device Information

The interface of device information is shown in Fig 32:

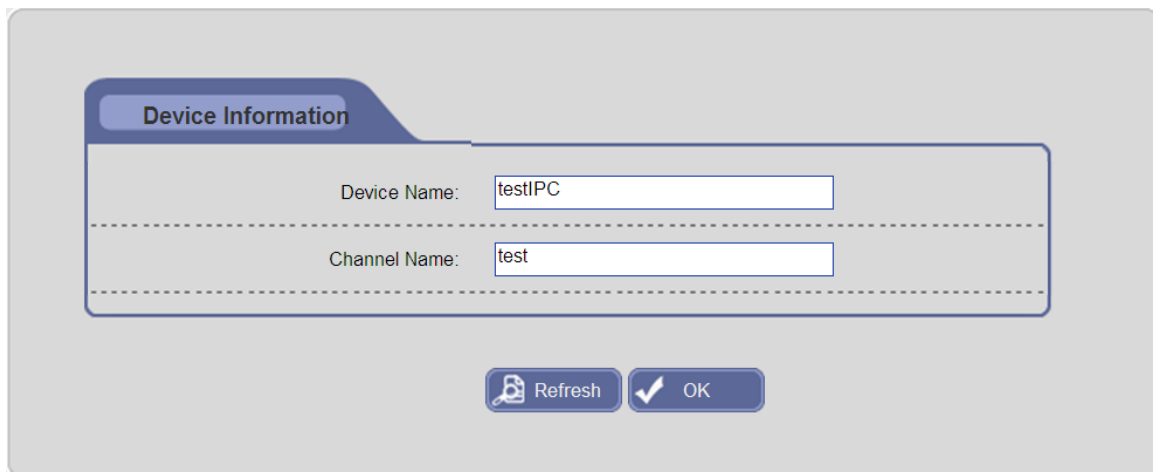

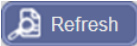
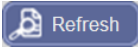
The image shows a web interface for 'Device Information'. It has a title bar 'Device Information' with a tab-like effect. Below the title bar, there are two input fields. The first is labeled 'Device Name:' and contains the text 'testIPC'. The second is labeled 'Channel Name:' and contains the text 'test'. Below these fields, there are two buttons: 'Refresh' (with a circular arrow icon) and 'OK' (with a checkmark icon).

Fig 32

In this interface user can click box to self-define the device name and channel name.

Click  button to save the setting; when the setting is not saved, click  button to return to the previously saved parameters; when the setting has been saved, click  button to query whether the setting is successful.

5.11.2 Default Setting

The interface of default setting is shown in Fig 33:

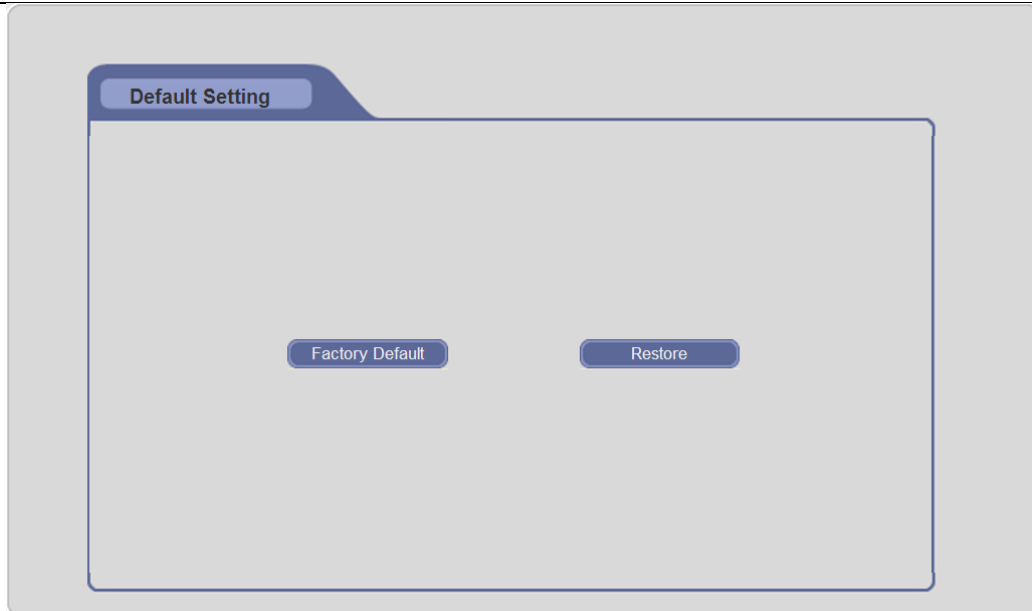


Fig 33

Click **Factory Default** button to pop up a warning window, click OK button, all device parameters will be reset as factory default settings and then the device will reboot automatically, click Cancel button to exit the warning window.

Click **Restore** button to pop up a warning window, click OK button, all device parameters will be reset as default settings and then the device will reboot automatically, click Cancel button to exit the warning window.

Note: "Factory Default" contains restore the network IP of IP Camera, but "Restore" does not contain this function.

5.11.3 Restart Device

The interface of restart device is shown in Fig 34:

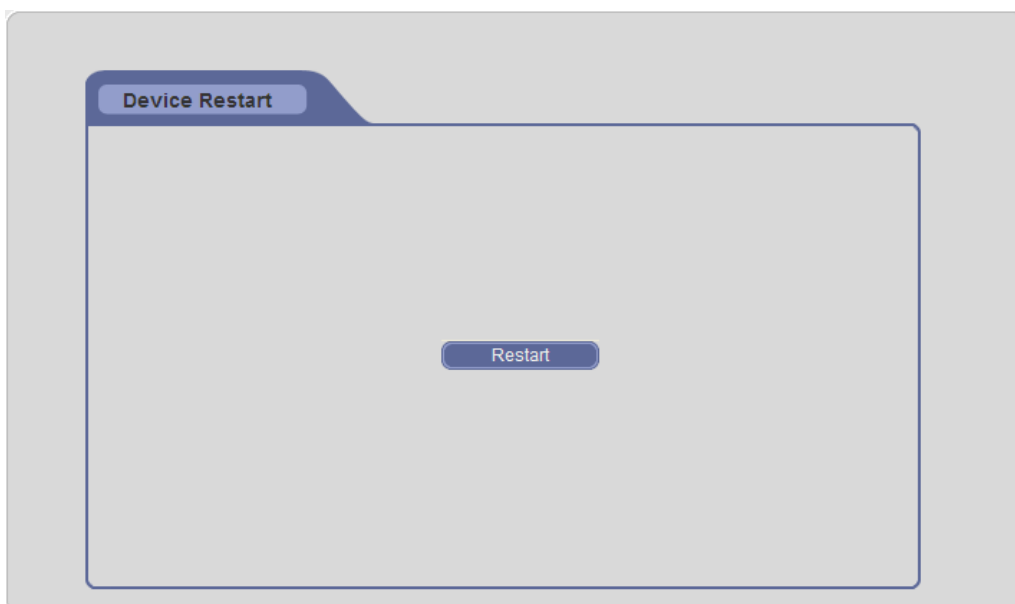



Fig 34

Click  button to pop-up a dialog box, and click "OK" button to restart the IP camera.

5.11.4 Upgrade Device

The interface of upgrade device is shown in Fig 35:

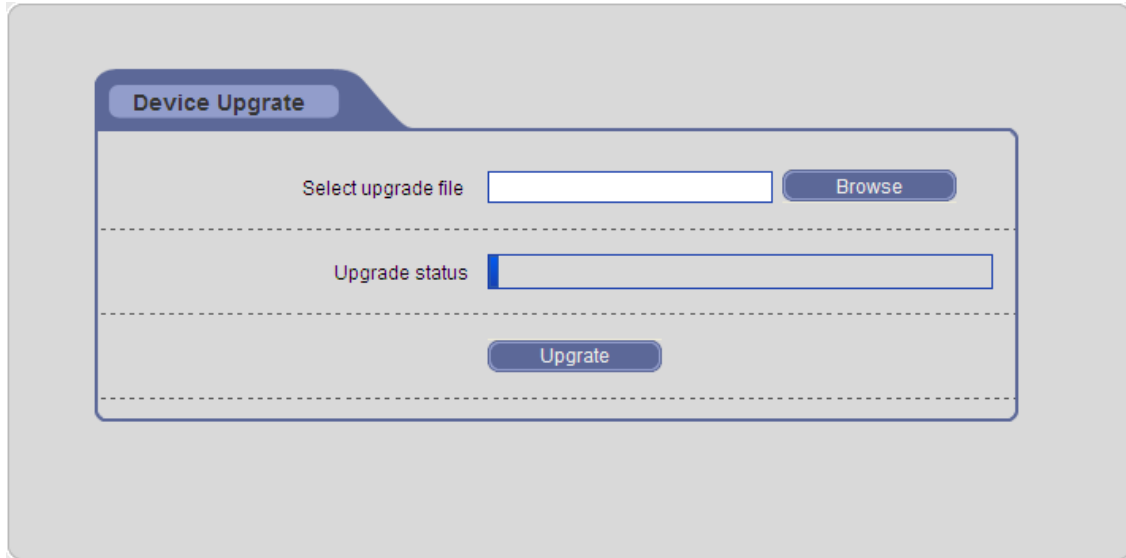
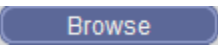
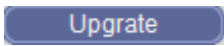


Fig 35

Click  button to select the correct upgrade file, then click  button to upgrade the device's system. In this process, the upgrade status bar will display the percentage has been upgraded. After upgrade completes, IP camera will restart automatically. User need to login again, and enter into version page to check whether the edition is the upgraded edition.

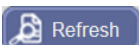
Note: The suffixes of upgrade file for network is ".Ram", for example, kernel file is *kernels.ram*, burn file is *burnin.1.0.ram*, boot file is *nsboot.1.0.ram* and application file is *usersection.2.0.8.ram*.



Notice :

1. Don't cut off the power and internet connection while upgrading.
2. Please set IE parameters before upgrade if you use win7 system. Open the IE browser, click "Security" tab under the "Internet Option" page, click "Custom Level"—Security—Custom—Miscellaneous—Include local directory path when uploading files to a server—Enable.

5.11.5 Device Running State

In this interface, user can view the CPU and memory utilization, running time and hard disk space. Click  button to refresh this information in real time.

5.11.6 Version


In this interface, user can view the version number, build date, core version and other version information, click  Refresh button to refresh this information; refer to Fig 36:



Fig 36

5.12 Local Configure

The interface of local configure is shown in Fig 37:

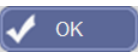
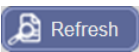
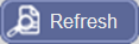


Fig 37


In this interface, user can configure the remote recording files download path, remote capture pictures download path, local recording files storage path and local capture pictures storage path.

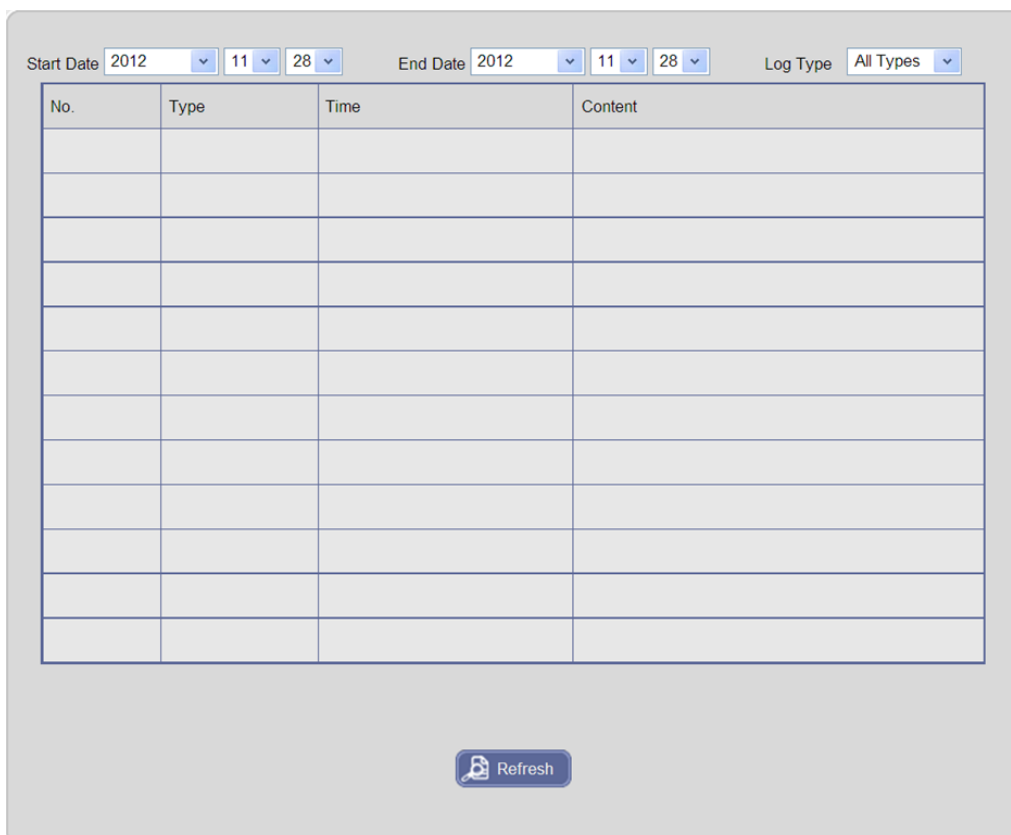
Click  button to modify these paths.

[Display mode]: Select the video display mode. Two options: full of window and original proportion.

Click  button to save the setting; when the setting is not saved, click  button to return to the previously saved parameters; when the setting has been saved, click  button to query whether the setting is successful.

Chapter 6 Log Search

Click  button to enter the log search page, as shown in Fig 38:



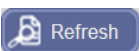
The log search interface features a header with three dropdown menus: 'Start Date' (set to 2012, 11, 28), 'End Date' (set to 2012, 11, 28), and 'Log Type' (set to All Types). Below the header is a table with four columns: 'No.', 'Type', 'Time', and 'Content'. The table contains 15 empty rows. At the bottom center of the interface is a 'Refresh' button.

No.	Type	Time	Content

Fig 38

[Start Date and End Date]: Select the start date and end date.

[Log Type]: Select the type of log. Five options: all types, system, alarm, operation and network.

After setting the above parameters, click  button to start search log, the searched log information will be displayed in the log information list; refer to Fig 39:



No.	Type	Time	Content
1	Alarm	2012-11-28 12:04:26	Motion Detection stop
2	Alarm	2012-11-28 12:04:14	Motion Detection start
3	Alarm	2012-11-28 11:55:07	Motion Detection stop
4	Alarm	2012-11-28 11:54:56	Motion Detection start
5	Alarm	2012-11-28 11:53:42	Motion Detection stop
6	Alarm	2012-11-28 11:53:31	Motion Detection start
7	Alarm	2012-11-28 11:46:37	Motion Detection stop
8	Alarm	2012-11-28 11:46:19	Motion Detection start
9	Alarm	2012-11-28 11:46:17	Motion Detection stop
10	Alarm	2012-11-28 11:46:06	Motion Detection start
11	Alarm	2012-11-28 11:45:58	Motion Detection stop
12	Alarm	2012-11-28 11:45:27	Motion Detection start
13	Alarm	2012-11-28 11:44:45	Motion Detection stop
14	Alarm	2012-11-28 11:44:34	Motion Detection start

Fig 39

Chapter 7 Mobile Connectivity

You can remotely view camera streams from your DVR and IPC on your iPhone™ , iPad™ , or Android™ device.

Compatible Mobile Viewing Devices

- iPhone (4.0 and above)
- iPad (4.0 and above)
- Android(1.6 and above)

NOTE: Instant Mobile Viewing on an iPhone™ using an iPhone™ App. Free download available from Apple™ Store under the name “ISSMOBILE”. Compatible with iPhone™ version 4.0 and above. Selectable 4 channels live viewing. Mobile phone data plan is required (not included).

Router port forwarding is required.

NOTE: Instant Mobile Viewing on an iPad™ using an iPad™ App. Free download available from Apple™ Store under the name “ISSMOBILE HD”. Compatible with iPad™ version 4.0 and above. Selectable 9 channels live viewing. Mobile phone data plan is required (not included).

Router port forwarding is required.

NOTE: Instant Mobile Viewing on Android™ 1.6 and above . Free download available from Google™ play store under the name “ISSMOBILE”. Selectable 4 channels live viewing. Mobile phone data plan is required (not included).

Router port forwarding is required.

Before You Begin

You will need the following before you can start mobile viewing on your iPhone or Android device:

- **The IP address or DDNS host name of your DVR or IP camera:** For details, please refer to the user manual.
- **The TCP Port Number of your DVR or IP camera:** By default, the port number is 5000.
- **User name and Password of your DVR:** By default, the ID is admin, no password.

➤ For Android

7.1 Main Functions

- Support Chinese and English;
- View the cameras on real time via wifi and 3G;
- Support multi-channel switching;
- Support remote play;
- Support device configuration, modification and delete;
- Support photo view and save;
- Support video view and save;
- Support IP and DDNS access;
- Support Pan, Tilt & Zoom control;
- Support Snap-shot;
- Support video records;
- Adopt direct connection device, without any third party server transit;

7.2 Installation

Users can free download this app from Google™ play store on Android™ 1.6 and above, you may first search “ISSMOBILE”, like Fig 40 as below. Router port forwarding is required.

Then click “Install”, the application will be automatically installed into your mobile phone, like Fig 41 as below:



Fig 40

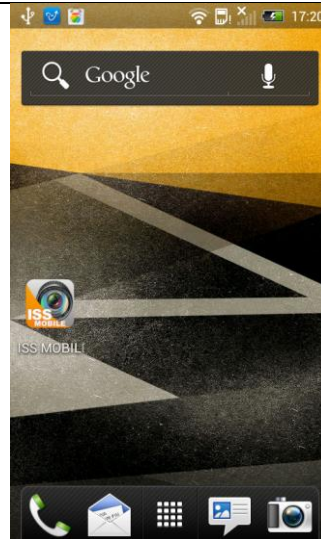



Fig 41

7.3 Application Running

7.3.1 Interface Description

After successfully installed the application into mobile phones, it is ready to run, just click the ISS

MOBILE  icon in the main menu. The main interface looks like Fig 42:


Click “” icon on top right, then you can access the main menu interface and see corresponding operation options, including device list, local video, photos, about, etc; refer to Fig 43:



Fig 42

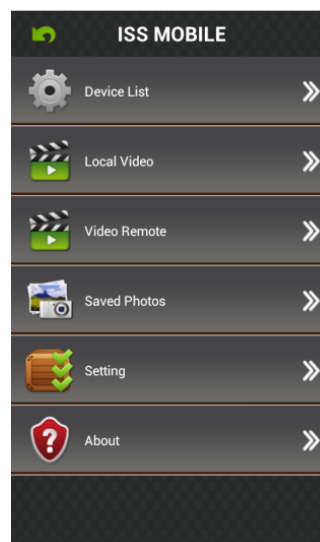


Fig 43

Device List: Add a new device, or modify the device settings.

Local Video: If ISS MOBILE has record function, after clicking video records, you will see the details of the records. The name of the record file will be generated by system default according to recording time.

Video Remote: Access the device recorded clips and view the video.

Saved Photos: Save the snapshot on the phone when viewing the cameras through the phone; after clicking it, you will see the photos as thumbnail. Enlarge the photos by clicking it.

Setting: After clicking it, you can set password protection, alarm sound, etc; refer to Fig 44:

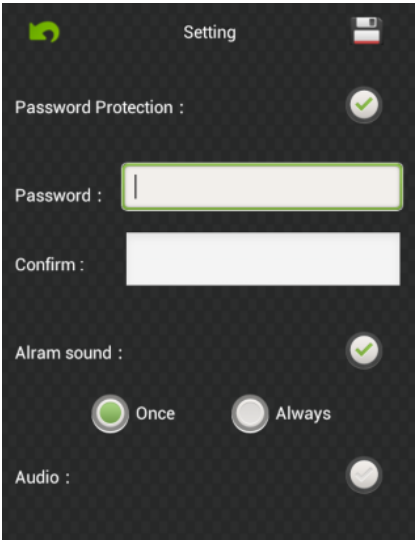


Fig 44

About: The related information of the application.

7.3.2 Live Preview

Click back key on top left in the main menu interface, back to display interface, refer to Fig 45:

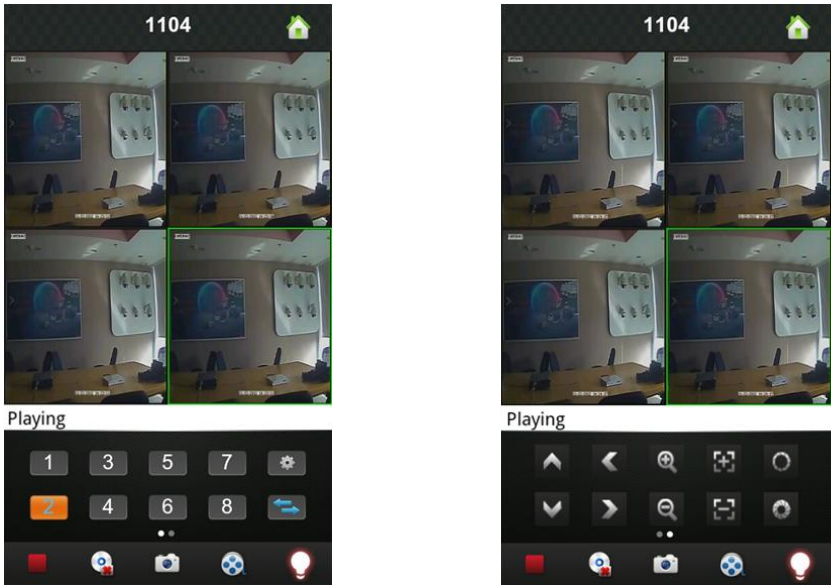






Fig 45



Instructions of the functions on “Live Preview” interface as below:

Function Key	Description
	Channel selecting: You can select the channels playing
	Select the group of channels
	Play / Stop
	Snapshot
	Video Records
	Quick Access Device List, edit and select the device
	Alarm function

	Left Slip to Display PTZ Control Button
	Control the directions of the camera
	Zoom in / Zoom out
	Change focus and aperture

7.3.3 Add Device

If this is the first time to use ISS MOBILE app, you need to put in all the information needed. Steps as below:

- Click “” to access “Device List” interface, the list is blank as this time.
- Click “” on “Device List” on bottom left to access “Detail” interface, like Fig 46 as below:

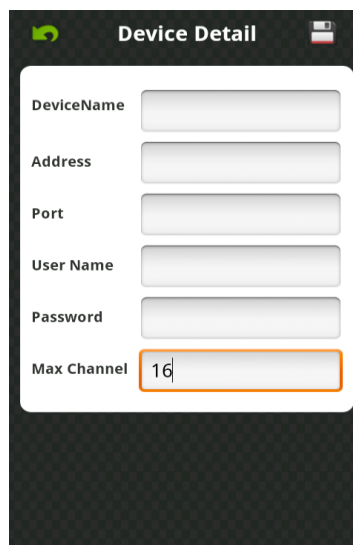


Fig 46

Device Name: The names of equipment, which can help you identify different devices, for examples, you can type the names based on the location of the equipment. The name will be showed on the topside title bar of display interface.

Address: DVR IP address (Must be an Internet address) or DDNS.

Port: It means mobile phone port, and you can acquire port number in the setting information of the device. Please use the fixed port: 554 here.

User Name: The user name of terminal device.

Password: The password of terminal device, match with user name.

Max Channel: The channels of your DVR supported, 32 channels max.

After editing, please click “Save” to save the information. Click “Back”, turn back to “Device List”, you will see the name, channels, address, etc, like Fig 47 as below:



Fig 47

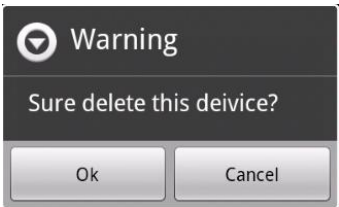





Fig 48

- Click “” and Device to edit setting information. For example, click “device 66” in “Device List”, you could modify the settings of “device 66”.
- Click “” to delete the selected device. For example, click “device 64” in “Device List”, will show notice like Fig 48, select “OK”, and delete “device 64”.

7.3.4 Switch Channel

- Select the numbers showed in Area 3 in Figure 49 to switch channels; select Area 2 to switch channel-group, and then select the numbers in this channel-group to switch the channels.
- Switch the channels within different devices:

If you want to switch to the channels on other devices, steps as below:

- 1) Press “” to stop or turn the playing video off;
- 2) Click “+” on display interface, like Area 1 in Fig 49, then access device list interface, like Fig 50:

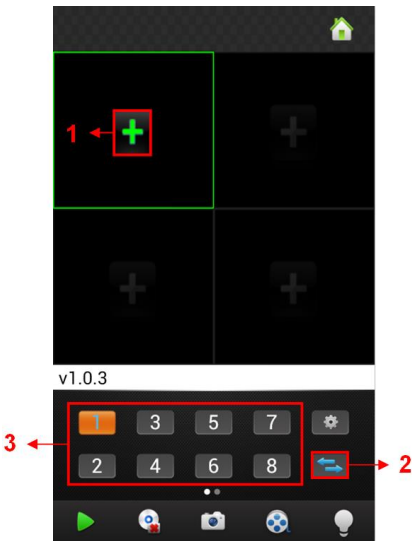


Fig 49

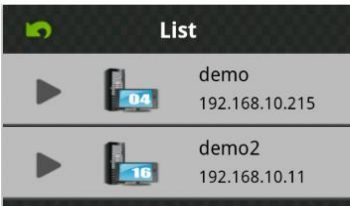


Fig 50

- 3) Select the device which switched to, will show the channel list of this device, like Fig 51 as below:

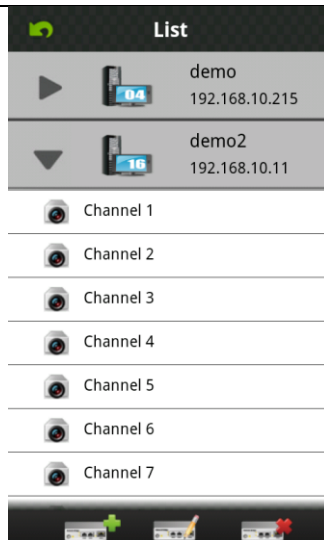


Fig 51

- 4) Select the channels in the channel list of this device, turn back to display interface to view the camera of this channel.

7.3.5 PTZ Control

Left slip “●●●” to “PTZ Control”, like Fig 52 as below:



Fig 52

Function keys of PTZ control as below:

: Control PTZ direction;

: Zoom in and zoom out;

: Change focus;

: Change aperture.

7.3.6 Local Video

The videos will be saved on the phone after recording the videos. Steps as below:

Note: If there is no memory card on phone, the record function will not work.

- **Play Video:**

- 1) Click “” to access main menu interface, select “local video” to access “local video” list interface, like Fig 53:
- 2) Click the video record, for example 20121022145057.mp4, to view this video record.

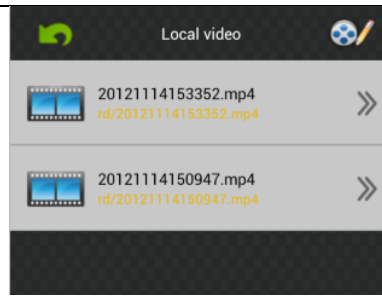


Fig 53

● **Delete:**


- 1) Click “

Fig 54

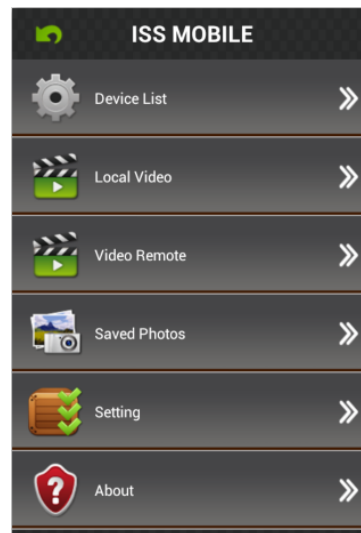


Fig 55

Note: 1) In the all operation steps, you could click “Done” to end up, cancel the operation and back the last step.

2) You have to make sure there are video records, so that you could search the records; if not, you cannot search it.

7.3.7 Saved Photos

The photos are the snap-shot when viewing the cameras which saved on the album. You also can check and batch save and delete etc. The steps are the same as 7.3.6.

7.3.8 Switch Language

When you switch the language on your phone, the language of the application will be changed as well. For example, it's switched to English on your phone, the language of the application will be switched to English as well.

7.3.9 Video Remote

You can access the device recorded clips with the app and view the video clips. Select the right

device, channel and time then tap search, like Fig 56:

7.3.10 Real-Time Alarm

When any channel has any alarming info, the app will show up in the main interface, like Fig 57:



Fig 56

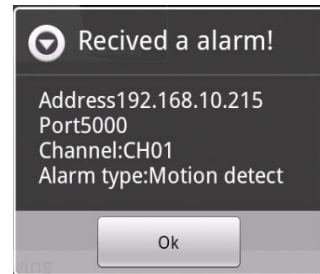


Fig 57

➤ For iPhone

7.4 Main Functions

- Support Chinese and English;
- View the cameras on real time via wifi and 3G;
- Support multi-channel switching;
- Support remote play;
- Support device configuration, modification and delete;
- Support photo view and save;
- Support video view and save;
- Support IP and DDNS access;
- Support Pan, Tilt & Zoom control;
- Support Snap-shot;
- Support video records;
- Adopt direct connection device, without any third party server transit;

7.5 Installation

Users can free download this app from Apple™ Store on iPhone™ version 4.0 and above, you may first search “ISSMOBILE”, like Fig 58 as below. Router port forwarding is required.

Then click “Install”, the application will be automatically installed into your mobile phone, like Fig 59 as below:



Fig 58




Fig 59

7.6 Application Running

7.6.1 Interface Description

After successfully installed the application into mobile phones, it is ready to run, just click the ISS

MOBILE  icon in the main menu. The main interface looks like Fig 60 as below:


Click “” icon on top right, then you can access the main menu interface and see corresponding operation options, including device list, photos, video records, about & help, etc; refer to Fig 61:



Fig 60

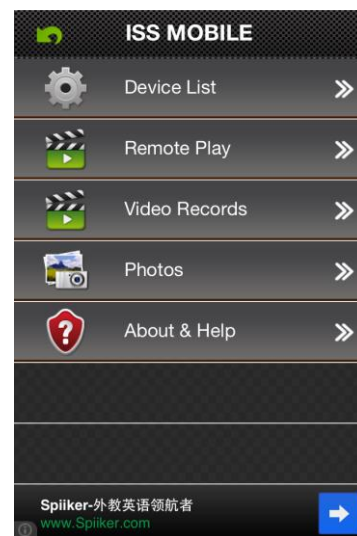


Fig 61

Device List: Add a new device, or modify the device settings.

Remote Play: Access the device recorded clips and view the video.

Video Records: If ISS MOBILE has record function, after clicking video records, you will see the details of the records. The name of the record file will be generated by system default according to recording time.

Photos: Save the snapshot on the phone when viewing the cameras through the phone; after

clicking it, you will see the photos as thumbnail. Enlarge the photos by clicking it.

Settings: After clicking “”, you can set Auto play, screen, priority type, etc; refer to Fig 62:



Fig 62

- a) **Auto play:** Turn on “AutoPlay” to display the video surveillance automatically on your next login. If turn it off, it will not display your last time video on the next login.
- b) **Screen Setting:** Select “1” means only one player window in player interface; select “4” means four player windows in player interface.
- c) **Priority Type:** Select the desired type: Real Time and Fluency.
- d) **Alert Sound:** Select the voice prompts when the device alarm is triggered.
- e) **Play Audio:** Open and close the device output sound.

About & Help: The related information of the application.

7.6.2 Live Preview

Click back key on top left in the main menu interface, back to display interface, like Fig 63 as below:

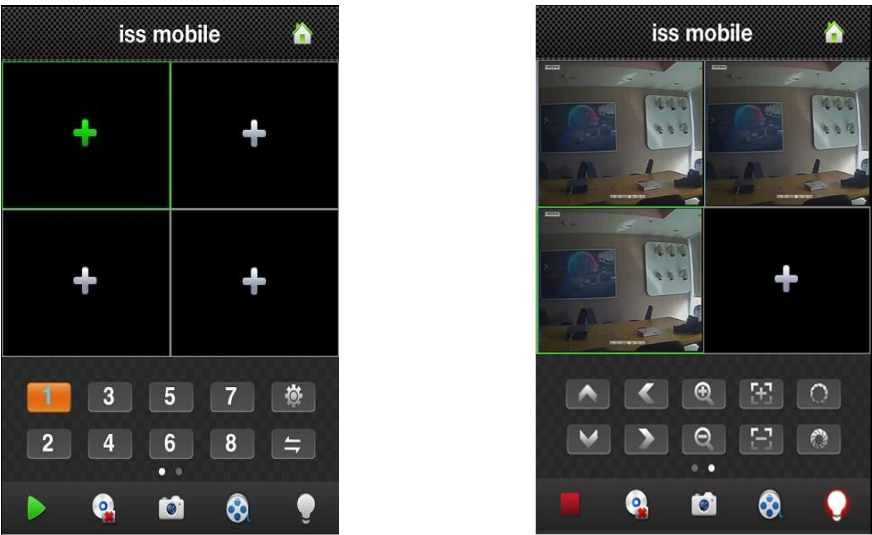















Fig 63


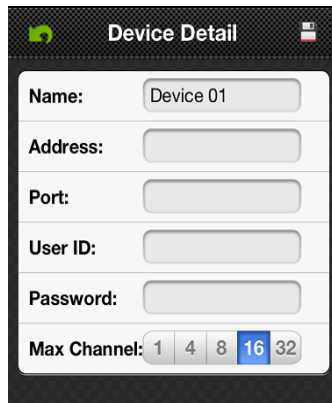
Instructions of the functions on “Live Preview” interface as below:

Function Key	Description
	Channel selecting: You can select the channels playing
	Select the group of channels

	Play / Stop
	Delete Display Records
	Snapshot
	Video Records
	Real-time Alarm
	Quick Access Device List, edit and select the device
	Left Slip to Display PTZ Control Button
	Control the directions of the camera
	Zoom in / Zoom out
	Change focus
	Control aperture

7.6.3 Add Device

If this is the first time to use ISS MOBILE app, you need to put in all the information needed. Steps as below:

- Click “


The screenshot shows the 'Device Detail' screen with the following fields:

 - Name:** Device 01
 - Address:** (empty field)
 - Port:** (empty field)
 - User ID:** (empty field)
 - Password:** (empty field)
 - Max Channel:** 1 4 8 16 32 (with 16 selected)

Fig 64

Name: The name of equipment, which can help you identify different devices, for examples, you can type the names based on the location of the equipment. The name will be showed on the topside title bar of display interface.

Address: DVR IP address (Must be an Internet address) or DDNS.

Port: It means mobile phone port, and you can acquire port number in the setting information of the device. Please use the fixed port: 554 here.

User ID: The user name of terminal device.

Password: The password of terminal device, match with user name.

Max Channel: The channels of your DVR supported, 32 channels max.

After editing, please click “Save” to save the information. Click “Back”, turn back to “Device List”, you will see the name, channels, address, etc, like Fig 65 as below:

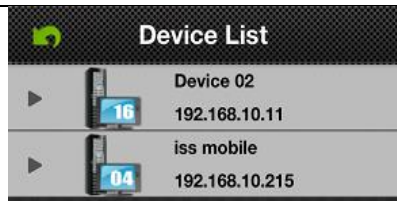


Fig 65

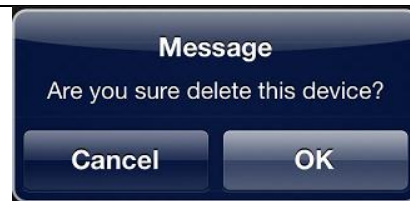


Fig 66

- Click “” and Device to edit setting information. For example, click “device 66” in “Device List”, you could modify the settings of “device 66”.
- Click “” to delete the selected device. For example, click “device 64” in “Device List”, will show notice like Fig 66, select “OK”, and delete “device 64”.

7.6.4 Switch Channel

- Select the numbers showed in Area 2 in Figure 67 to switch channels; select Area 3 to switch channel-group, and then select the numbers in this channel-group to switch the channels.
- Switch the channels within different devices:

If you want to switch to the channels on other devices, steps as below:

- 1) Press “” to stop or turn the playing video off;
- 2) Click “+” on display interface, like Area 1 in Fig 67, then access device list interface, like Fig 68:

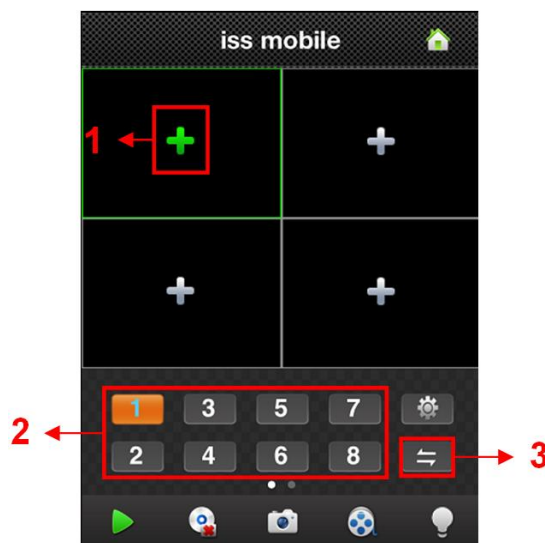


Fig 67



Fig 68

- 3) Select the device which switched to, will show the channel list of this device.
- 4) Select the channels in the channel list of this device, turn back to display interface to view the camera of this channel.

7.6.5 PTZ Control


Left slip “” to “PTZ Control”, like Fig 69 as below:




Fig 69

Function keys of PTZ control as below:

: Control PTZ direction;

: Zoom in and zoom out;


: Change focus;

: Change aperture.



7.6.6 Local Video

The videos will be saved on the phone after recording the videos. Steps as below:

- **Play Video:**

- 1) Click " to access the main menu interface, select "local video" to access "local video" list interface, like Fig 70:
- 2) Click the video record, for example 20121011134721.mp4, to view this video record.

- **Batch Save:**

- 1) Click " to access the main menu interface, select "local video" to access "local video" list interface, like Fig 70:
- 2) Click "", then select the needed video, like Fig 71:
- 3) Click "Save to photos album", will show "Saved successfully", like Fig 72(a) and (b):
- 4) Click "OK", back to the list interface like Fig 70:

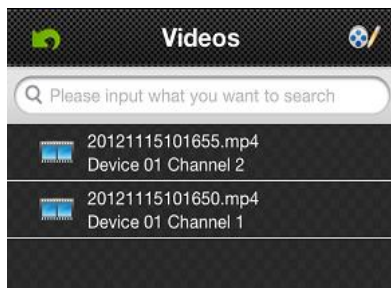


Fig 70



Fig 71



Fig 72(a)

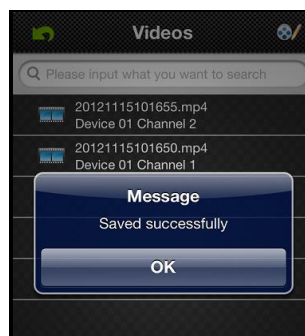


Fig 72(b)

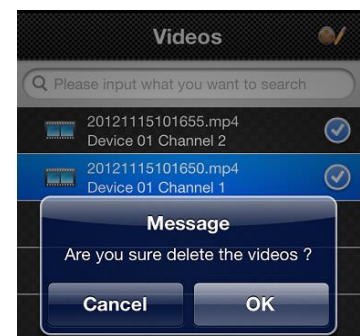




Fig 72(c)

- **Delete:**

- 1) Click " to access the main menu interface, select "local video" to access "local video" list interface, like Fig 70:
- 2) Click "", select the needed record, like Fig 71:

- 3) Click "Delete" and show the message, like Fig 72(a) and (c):
- 4) Click "OK" and back the list interface, or click "Cancel" and "Done" then back the main interface like Fig 70.

Note: 1) In the all operation steps, you could click "Done" to end up, cancel the operation and back the last step.

2) You have to make sure there are video records, so that you could search the records; if not, you cannot search it.

7.6.7 Saved Photos

The photos are the snap-shot when viewing the cameras which saved on the album. You also can check and batch save and delete etc. The steps are the same as 7.6.6.

7.6.8 Switch Language

When you switch the language on your phone, the language of the application 当 will be changed as well. For example, it's switched to English on your phone, the language of the application will be switched to English as well.

7.6.9 Video Remote

You can access the device recorded clips with the app and view the video clips. Select the right device, channel and time then tap search, like Fig 73:

7.6.10 Real-Time Alarm

When any channel has any alarming info, the app will show up in the main interface, like Fig 74:



Fig 73

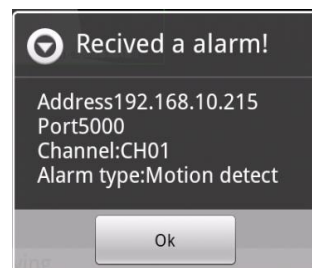


Fig 74

Appendix 1 Network Interface of IP Camera

IP Camera occupies the following network ports by default:

TCP	80	Web port
	5000	Communication port, audio/video data transmission port, talkback data transmission port
UDP	5000	Audio/video data transmission port
RTSP	554	Multimedia Real Time Streaming Protocol port
ONVIF	12001	Open Network Video Interface

Appendix 2 Default Network Parameters

Default network parameters


Cabled Network:	
IP Address: 192.168.1.10	Data Port: 5000
Subnet mask: 255.255.255.0	Web Port: 80
Gateway: 192.168.1.1	DHCP: Off
Wireless Network:	
IP Address: 192.168.2.10	Frequency: Auto
Gateway: 192.168.2.1	Mode: Auto
Subnet mask: 255.255.255.0	

Appendix 3 Search Tool User's Guide

1. Introduction

Search software "SearchTool" can search for the IP camera in LAN automatically, and doesn't need the IP address to configure device.

2. Search online equipment

After installed the search software, double-click the shortcut to enter the main interface of software, click Search  button to search online LAN device, and the device ID, IP address, port number, device type, subnet mask, Gateway, MAC address, version number and upgrade progress are displayed in the list, as shown in Fig 75:

Search Assistant

ID	IP	Port	Type	Model	Net mask	Gateway	MAC	Version	Upgrad..
1	192.168.100.190	5000		IPCamera	255.255.255.0	192.168.100.1	00:00:09:3c:0d:01	v2.0.0	0%
2	192.168.2.29	5000		IPCamera	255.255.255.0	192.168.2.1	00:00:07:fc:7a:01	v2.1.1.2	0%
3	192.168.2.28	2807		IPCamera	255.255.255.0	192.168.2.1	00:00:09:c8:f3:01	v2.1.1.2	0%
4	192.168.2.138	5000		IPCamera	255.255.255.0	192.168.2.1	00:00:05:fd:a7:01	v2.1.1.2	0%
5	192.168.100.211	5000		IPCamera	255.255.255.0	192.168.100.1	00:00:04:0a:14:01	v1.0.0	0%
6	192.168.2.27	2707		IPCamera	255.255.255.0	192.168.2.1	00:00:04:8e:64:01	v2.1.6	0%
7	192.168.5.113	5000		IPCamera	255.255.255.0	192.168.5.1	00:00:06:53:e1:01	v2.1.7	0%
8	192.168.1.215	2157		IPCamera	255.255.255.0		ec:49:93:00:00:11	v2.1.7	0%
9	192.168.10.102	5000		IPCamera	255.255.255.0		ec:49:93:11:10:11	v2.1.1.2	0%
10	192.168.5.106	5000		IPCamera	255.255.255.0	192.168.5.1	00:00:0a:ab:e1:01	v2.1.6	0%
11	192.168.2.85	5000		IPCamera	255.255.255.0	192.168.2.1	00:00:05:58:ad:01	v2.1.5	0%
12	192.168.100.174	5000		IPCamera	255.255.255.0	192.168.100.1	ec:49:93:23:20:21	v2.1.7	0%
13	192.168.5.123	5000		IPCamera	255.255.255.0	192.168.5.1	00:00:0a:3b:84:01	v2.1.7	0%
14	192.168.5.104	5000		IPCamera	255.255.255.0	192.168.5.1	00:00:0b:81:1e:01	v2.1.7	0%
15	192.168.5.103	5000		IPCamera	255.255.255.0	192.168.5.1	ec:49:93:00:00:13	v2.1.7	0%
16	192.168.2.153	5000		IPCamera	255.255.255.0		00:aa:91:b3:2f:51	v2.1.7	0%
17	192.168.5.213	5000		IPCamera	255.255.255.0	192.168.5.1	00:aa:91:73:2f:57	v2.1.7	0%
18	192.168.5.110	5000		IPCamera	255.255.255.0	192.168.5.1	00:00:02:91:42:01	v2.1.6	0%
19	192.168.100.174	5000		IPCamera	255.255.255.0	192.168.100.1	7c:dd:90:1db3:ca	v2.1.7	0%
20	192.168.100.102	5000		IPCamera	255.255.255.0	0.0.0.0	7c:dd:90:1db9:a6	v2.1.7	0%
21	192.168.10.57	5000		IPCamera	255.255.255.0	0.0.0.0	7c:dd:90:1db9:99	v2.1.6.1	0%
22	192.168.2.214	5000		IPCamera	255.255.255.0	0.0.0.0	f2:33:5f:f1:5f:ef	v1.0.0	0%
23	192.168.2.217	5000		IPCamera	255.255.255.0	0.0.0.0	06:20:1a:fc:70:d6	v1.0.0	0%

User name: admin Password:

Fig 75

3. Configure parameters of online device

Double-click a device in the list to pop up the Configuration dialog box. It can modify the network parameters, restore defaults, and restore the factory settings, as shown in Fig 76:

Configuration:

Device type: Version: v2.1.1.2

IP: 192 . 168 . 2 . 29 Net mask: 255 . 255 . 255 . 0

Gateway: 192 . 168 . 2 . 1 MAC: 00:00:07:fc:7a:01

Port: 5000 Web port: 80

DNS Enabled ☐ DHCP Enabled ☐

Preferred DNS server: 202 . 96 . 134 . 133


Alternate DNS server: 202 . 96 . 128 . 86

Factory settings Modify parameter Default Close

Fig 76

Click a device in the list to enter into the IE browser login screen.

4. Upgrade device online

Click  button in the lower left corner of main interface to pop-up a dialog box, select the file you want to upgrade, click "Open" to upgrade.

- Upgrade a device: Right-click a device in the list, select the "upgrade" option.
- Upgrade multiple devices: Press "CTRL" key and left-click the device you need to upgrade in the

list, when selection is complete, right-click any selected device, select "upgrade" option, as shown in Figure 77:

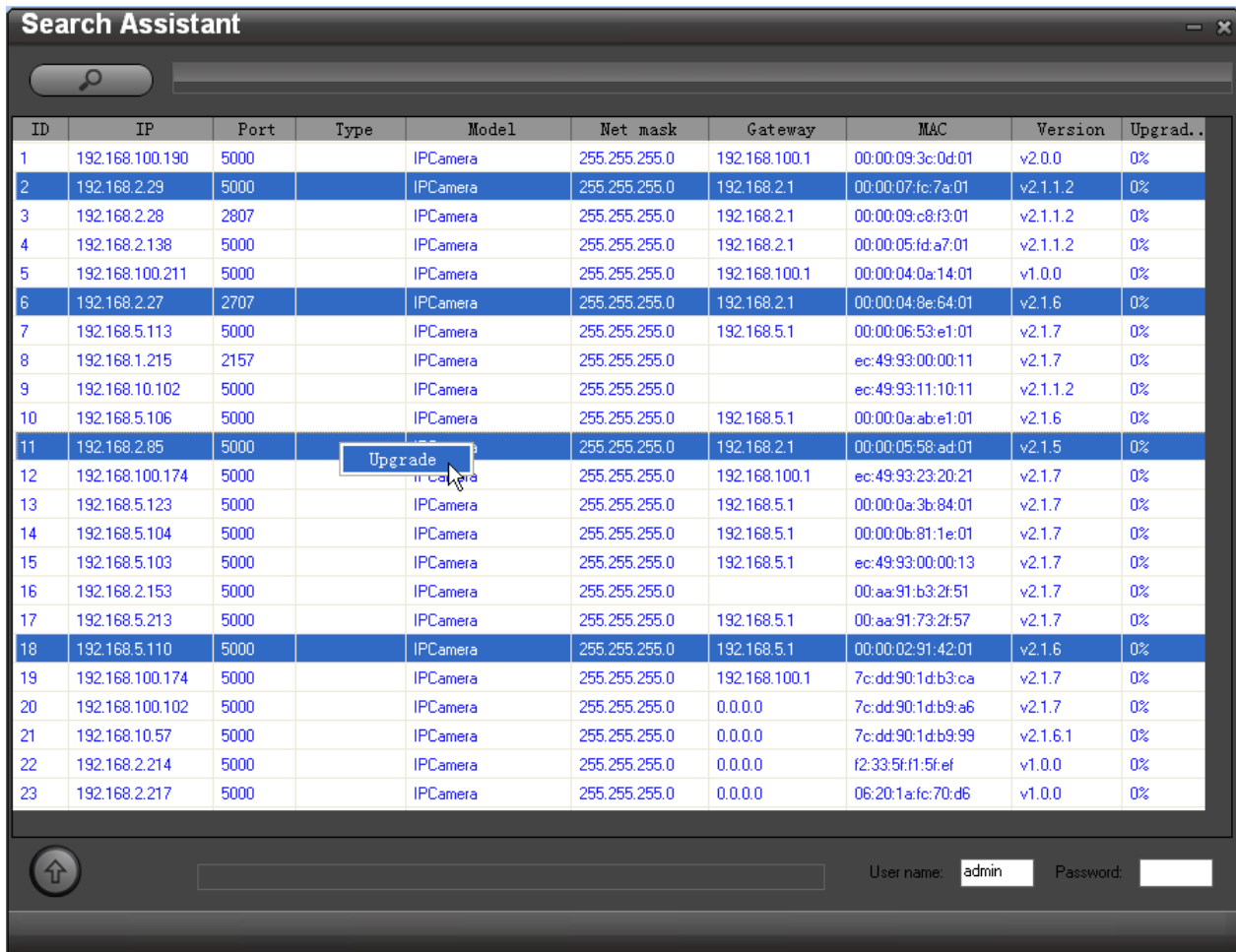


Fig 77



Note: Please fill in the correct user name and password in the figure above during the upgrade, otherwise it cannot be upgraded.

Appendix 4 Apply for DDNS domain name service

1. DDNS function of IP camera

DDNS (Dynamic Domain Name Service) refers to the real-time analysis of a fixed domain name and the dynamic public IP address of the IP camera.

With this function, all Internet users can visit the IP camera via a fixed domain name. The DDNS process of IP camera is displayed as follow:

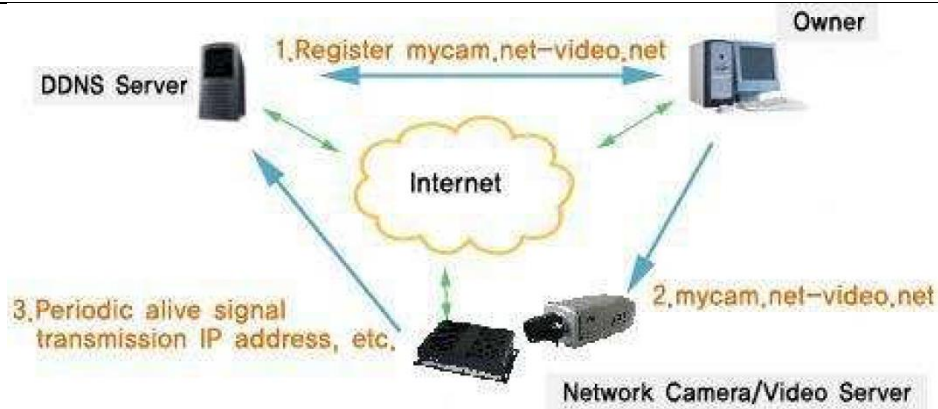


Fig 78 The DDNS process flow diagram of IP camera

2 Apply for DDNS domain name service(Take www.no-ip.com for example)

Users can self-define the hostname, username and password.

Open the web browser (Internet Explorer by default) and enter <http://www.no-ip.com> in the address bar.

Step1: create an account

Click the “Sign-up for an Account” link at drop-down menu of “Sign In”.

Select the type of registration according to the features introduced. In this paper, we take “FREE DNS” for example. Click “SIGN UP>” button below the “FREE DNS”.

Fill in the required fields on the new account form.

Once you've filled in the required information and agreed to Terms of Service, click “I Accept, Create my Account” button at the bottom of the page.

Fig 79

Note: Terms of Service requires valid contact information on file in order to maintain your account. Any accounts found with incomplete or fraudulent information will be terminated.

Step2: confirm your account

Once you have submitted your account information into the new user form, it will send a confirmation email to the address you provided. You will need to check that account and look for the email from No-IP.com. The email contains a link you must click in order to confirm your account.

So please click the URL link to activate your account in the confirmation email, and then automatically enter the “Account Confirmed!” interface.

Step3: login to your account

Select "Sign In" on the top of No-IP home page to pop up drop-down menu, or click "Sign In" button to enter "Client Login" interface. Enter email address and password that you signed up and click Login button. As shown below:

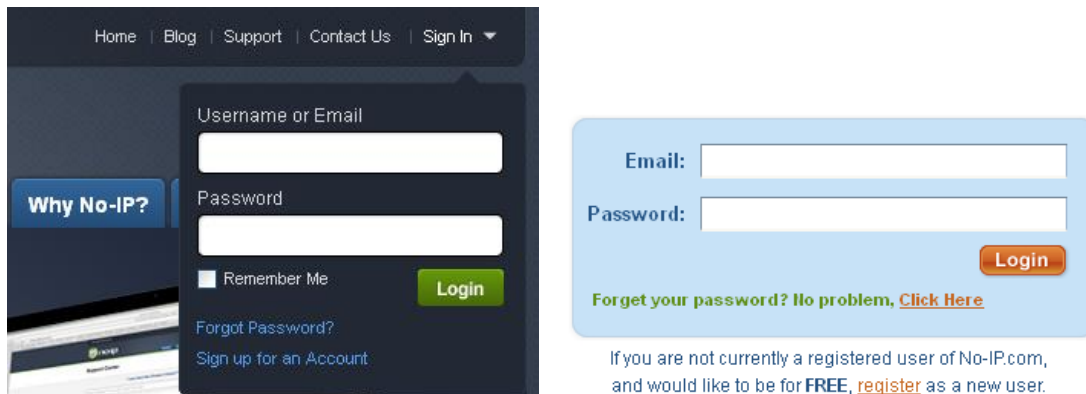


Fig 80

Step4: add a host or domain to your account

Fig 81

In order to add a host to your account, select the "Add" link from the "Hosts/Redirects" menu. This will bring up the Add a Host page. And now you're ready to fill in the details of your new hostname.

Fig 82

Note: For more detailed guide of No-ip service, please visit <http://support.no-ip.com/>.

3. Enable DDNS on the IP Camera.

Go to Configure -> Advanced Configure -> DDNS Configure, as shown below:

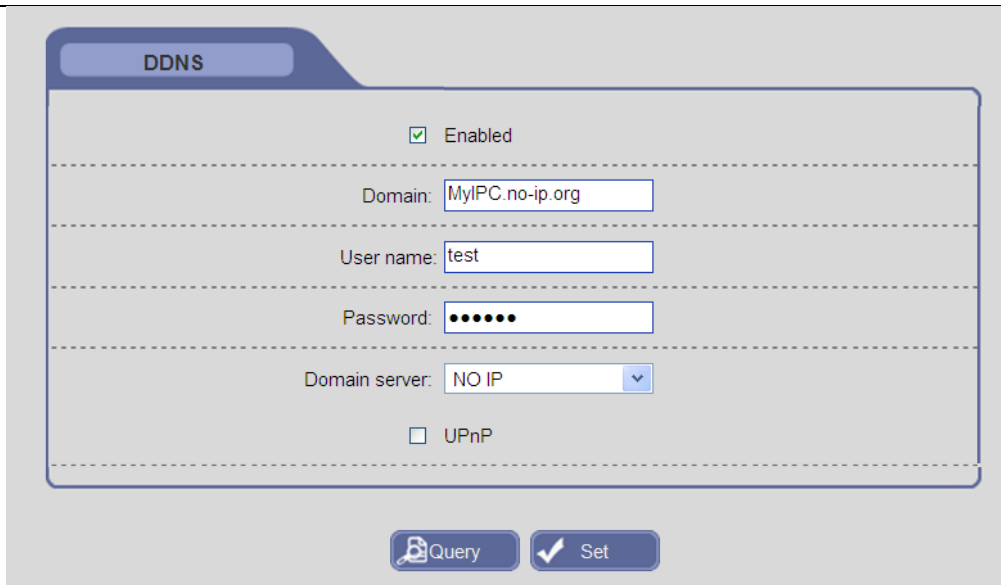


Fig 83

Enabled: tick off;

Domain: enter the host name you created at no-ip.com; such as MyIPC.no-ip.org;

User Name: the account you created at no-ip.com;

Password: the password of your account at no-ip.com;

DDNS type: choose NO IP;

Click Set button to save the setting.

Enter into configuration interface of the router to map the server port and IP address (if the user enables UPnP function of device and router, he can skip this step).

Note: Please allow a little time for the DDNS service to update with your new DDNS address. This is normal for the DDNS system.

4. Accessing your IP Camera remotely.

Open Internet Explorer and enter the host name (e.g. <http://MyIPC.no-ip.org>) in the address bar to access it.

Note: Please refer to the user manual for other detailed operation.

Appendix 5 Visit IP camera under different network environments

You can visit IP camera with your PC via LAN or WAN, the following contents will tell you how to use IP camera under different network environments.

1. LAN

There are two ways to connect IP camera to LAN: static IP and dynamic IP

➤ Static IP

Static IP means that your network administrator assigns a LAN IP address to IP camera. The IP of your PC and IP camera must be in the same network segment to make visiting to the camera possible.

See below picture for the network topology:

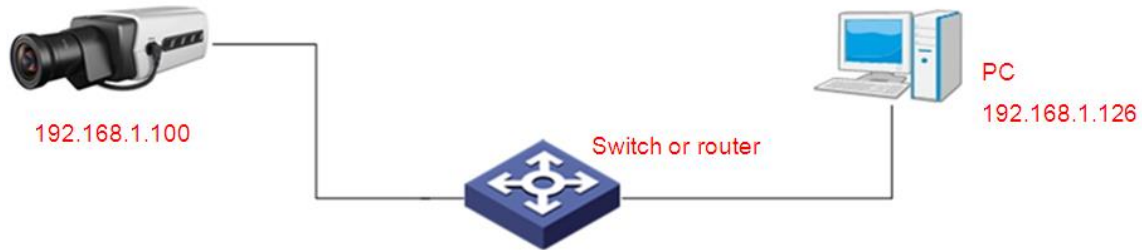


Fig 84

Please refer to below picture for the network settings:

The screenshot shows the 'IP Address' configuration page. At the top, there is a checkbox for 'Automatically obtain IP address(DHCP)' which is unchecked. Below this, there are four input fields: 'IP Address' (192.168.1.10), 'Net mask' (255.255.255.0), 'Gateway' (192.168.1.1), and 'Multicast address' (236.105.204.0). Below these fields is a section for 'DNS Server' with two input fields: 'Preferred DNS server' (202.96.128.166) and 'Alternate DNS server' (202.96.134.133). At the bottom, there is a 'Default gateway' section with two radio buttons: 'Wire' (selected) and 'Wireless'.

Fig 85

The screenshot shows the 'WiFi IP' configuration page. At the top, there are four dropdown menus: 'Security Type' (Auto), 'Authentication Type' (Auto), 'Encryption Type' (Auto), and 'WEP Key Format' (ASCII). Below these is a 'WEP Key' dropdown menu (1). A 'Password' input field is shown with a note '(8-64 ASCII or Hexadecimal)'. Below the password field are two buttons: 'Search router' and 'Connect'. The 'WiFi IP' section is highlighted in blue. Below this, there is a checkbox for 'Enabled' which is checked. Below the checkbox are four input fields: 'IP Address' (192.168.2.10), 'Net Mask' (255.255.255.0), 'WIFI Gateway' (192.168.2.1), and 'Multicast Address' (236.105.203.0). At the bottom are two buttons: 'Query' and 'Set'.

Fig 86

If a wireless IP camera needs to be visited via WiFi mode, users need to set IP address, subnet mask, gateway, SSID number and password.

Setup steps:

Step 1: Log in IP camera via the IE browser (the default IP is 192.168.1.10).

Step 2: Switch to the page [Network Configure], fill in the device IP address assigned by network administrator, e.g. 192.168.1.100;

Step 3: Fill in subnet mask, default value is 255.255.255.0;

Step 4: Fill in gateway address, default value is 192.168.1.1;

Click [Set] to save the parameters. Start the device; enter its IP address into IE browser to visit it.

➤ Dynamic IP

Dynamic IP means that IP camera obtains IP address from DHCP server. See below picture for the network topology:

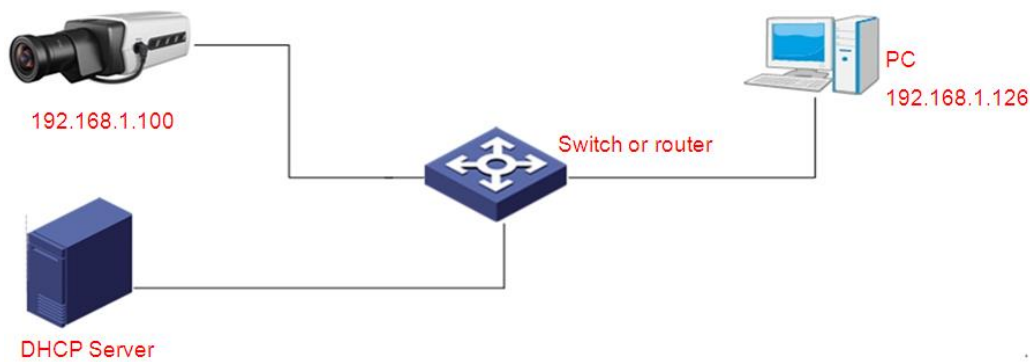


Fig 87

Please refer to below picture for the network configure:

IP Address	
<input checked="" type="checkbox"/>	Automatically obtain IP address(DHCP)
IP Address:	192.168.1.10
Net mask:	255.255.255.0
Gateway:	192.168.1.1
Multicast address:	236.105.204.0
DNS Server	
Preferred DNS server:	202.96.128.166
Alternate DNS server:	202.96.134.133
Default gateway	
<input checked="" type="radio"/>	Wire
<input type="radio"/>	Wireless

Fig 88

Log in IP camera via IE browser, turn to [Network Configure] and tick off DHCP, after setting all the parameters, click [Set] and restart the device to make the parameters valid.

2. Internet

You have three ways to connect IP camera to Internet:

- 1) Fixed IP mode;
- 2) Broadband and router sharing Internet access mode (dynamic obtainment of extranet IP address mode) like ADSL and so on;
- 3) PPPoE dial-up access.

After IP camera is connected to Internet, remote Internet users can visit it directly via domain name or IP address.

➤ Fixed IP mode

See below picture for the network topology:

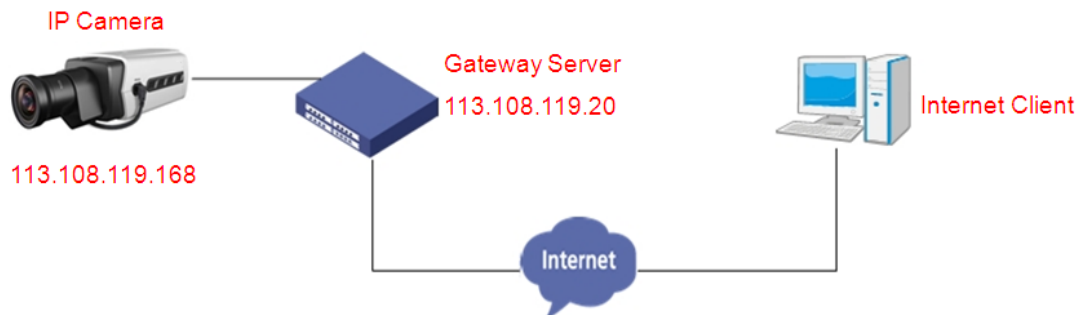


Fig 89

Please refer to below picture for the network settings:

IP Address	
<input type="checkbox"/>	Automatically obtain IP address(DHCP)
IP Address:	113.108.119.168
Net mask :	255.255.255.0
Gateway:	113.108.119.20
Multicast address:	236.105.204.0
DNS Server	
Preferred DNS server :	202.96.128.166
Alternate DNS server :	202.96.134.133
Default gateway	
<input checked="" type="radio"/> Wire <input type="radio"/> Wireless	

Fig 90

Setup steps:

Step 1: Log in IP camera via crossover cable direct connection.

Step 2: Switch to the page [Network Configure], fill in the device IP address requested from network service provider, e.g. 113.108.119.168;

Step 3: enter correct subnet mask, e.g. 255.255.255.0;

Step 4: enter correct gateway, e.g. 113.108.119.20;

After setup completes, click [Set] and restart the device, then connect it to public network so that all Internet users can visit the IP camera remotely via entering <http://113.108.119.168> to IE browser.

- Broadband and router sharing Internet access mode (dynamic obtainment of extranet IP address mode) like ADSL and so on;

For dial-up access with router, see below picture for the network topology:

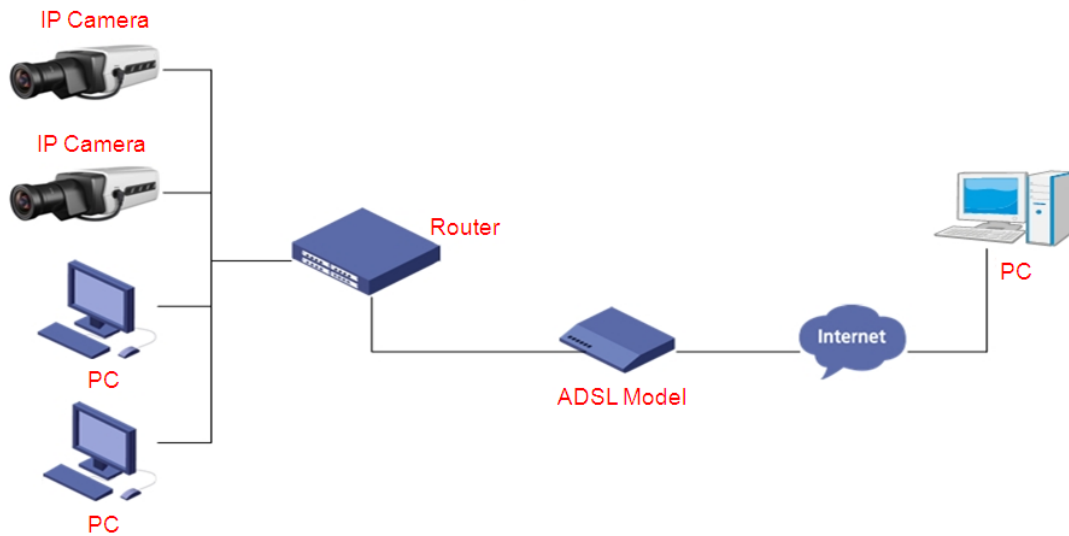


Fig 91

Users can set up DDNS domain name service at the same time, fill the username and password which were applied in the DDNS server into the DDNS setting item, then implement port mapping from the router. The router determines and points to the IP camera that need to be visited according to different ports, long-distance Internet user can visit the IP camera on the network via domain name directly.

Please refer to [Appendix 4] for DDNS settings. Log in IE and enter the domain name and port number, if it is the default port number "80", users do not enter the port number. For example: <http://MyIPC.no-ip.org:2318>.

- PPPoE dial-up access

For IP camera dial-up access, see below picture for the network topology:

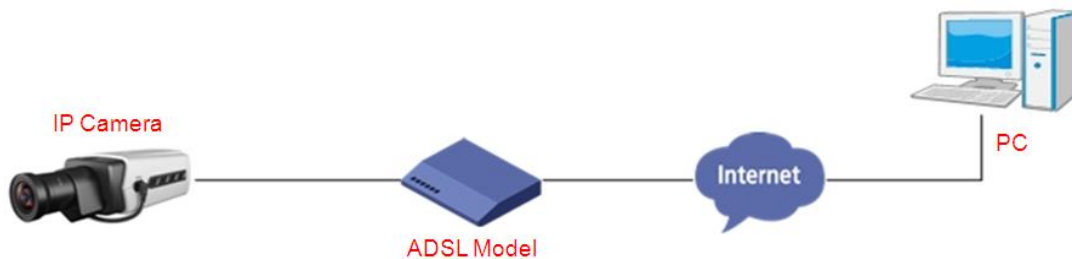


Fig 92

Setup steps:

Step 1: Log in IP camera via crossover cable direct connection.

Step 2: Set PPPoE parameters. (For details, please refer to [PPPOE Configure])

Step 3: Connect IP camera to Internet.

Step 4: If DDNS service is successfully set for the device, the device can be visited via entering domain name into IE browser.

Appendix 6 Port mapping

Take the TL-WR340G router of TP-LINK as an example for illustration:

Step 1: Ask network administrator for the IP address of router (i.e. LAN gateway address), enter user name and password, and then log in the router. The main interface is as follow:

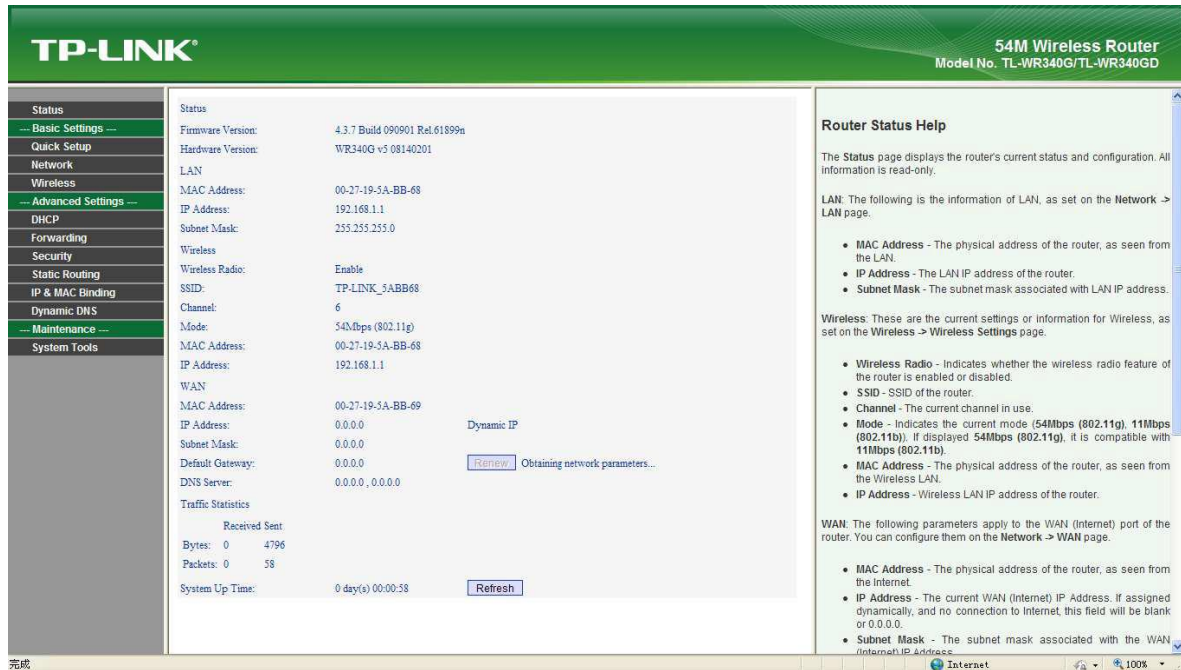


Fig 93

Step 2: Open "Forwarding", select "Virtual Servers", as below picture shows:



Fig 94

Step 3: Select "Add New...", enter the IP address of IP camera (e.g.192.168.1.100), port (e.g. 85), status (valid) and other information, click save, see below picture:

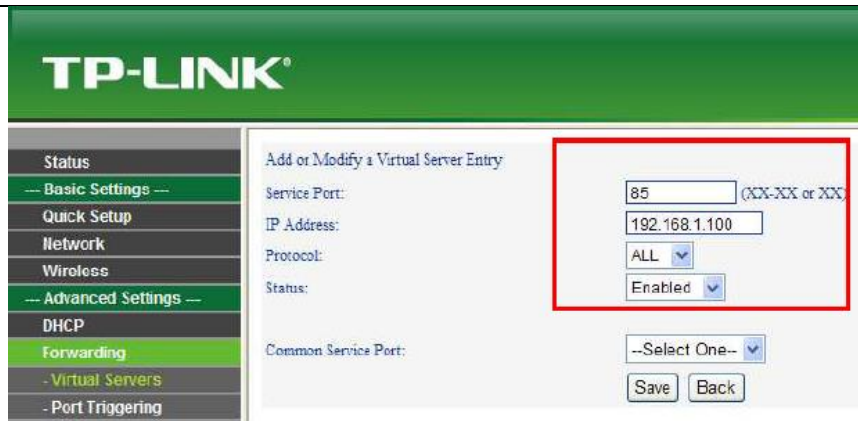


Fig 95

Step 4: After save successfully, below screen appears:

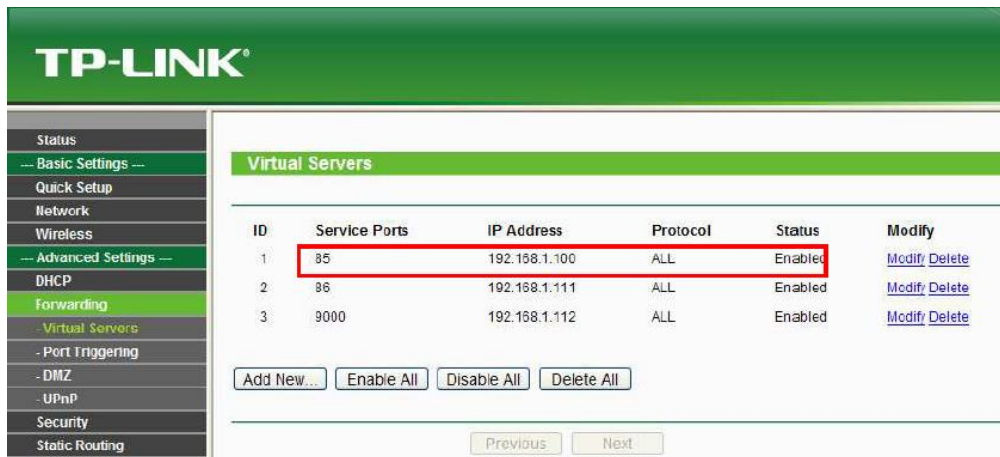


Fig 96

Step 5: If DDNS is successfully set in "Network Configure" of IP camera, direct visit to the IP camera can be realized via entering <http://MyIPC.no-ip.org:85> into IE browser.

Appendix 7 FAQ

1. IE browser cannot log in

Possible reason 1: ActiveX not installed

Solution: ActiveX must be installed when visiting IP camera for the first time via Internet Explore.

How to install: Visit IP camera, click [Download ActiveX] to pop up file download dialog, select [Run] or [Save] to download. After download finishes, double-click the downloaded file "WebClient" to pop up installation interface, click "install".

Possible reason 2: port number is incorrect

Solution: Set the new port number through search tool, and then fill the same port number in IE login screen.

2. Fail to visit IP camera via IE after upgrade

Solution: Delete the caching of browser.

Steps: Open IE—click “Tools”—select “Internet Options”—click “delete files” button in “Internet temporary files”, select “delete all offline contents”, then click “OK” and re-log in IP camera.

3. The images do not flow

Possible reason 1: The frame rate of IP camera is too low.

Solution: Reducing frame rates will reduce fluency; recommend change as sub-stream preview, or increase the video frame rate

Possible reason 2: Too many users are viewing the images.

Solution: Block some clients or reduce the video frame rate.

Possible reason 3: The bandwidth is low.

Solution: Reduce video frame rate or video compression bitrate.

4. Fail to visit IP camera via IE browser

Possible Reason 1: Network is disconnected.

Solution: Connect your PC to network, checking whether it works properly or not. Check whether there is cable failure or network failure caused by PC virus, until PCs can be connected with the command of Ping.

Possible reason 2: IP Address has been occupied by other devices

Solution: Stop the connection between IP camera and Network, hook up IP camera to PC separately, reset IP address according to the proper operations recommended.

Possible reason 3: IP addresses are in different subnets.

Solution: Check IP address, subnet masking address of the DVS and the settings of Gateway.

Possible reason 4: Physical address of network conflict with IP camera

Solution: Modify the physical address of IP camera.

Possible Reason 5: Web port has been modified

Solution: Contact Network Administrator to obtain related information.

Possible Reason 6: Unknown

Solution: Restore the factory default state through search tool, then reconnect it.

5. The color of images is abnormal (green or other colors).

Possible Reason: The settings of color adjustment are not properly.

Solution: Restore the default settings.

6. There is no sound while monitoring

Possible Reason: No audio input connection

Solution: Check audio connection of the host

Possible Reason 2: the audio option of IP camera is off

Solution: Check audio parameter settings to see if you have opened the audio.

7. Search software cannot find device

Possible reason: Search software adopts multicast protocol to perform searching. But the firewall forbids multicast data packet.

Solution: disable the firewall.

8. Image processing doesn't work properly

Possible Reason 1: system issue. DirectX function is disabled, which will cause slow display of images and abnormal color.

Possible Reason 2: hardware issue. Graphics card doesn't support image acceleration and hardware zooming functions. (For hardware issue, the only solution is replace graphics card)

Solution: install DirectX image drive, then open Start Menu→Run→input "duding" command.

Notice : Enable DirectDraw speedup, Direct3D speedup, AGP veins speedup in DirectX function. If they cannot be enabled, that means DirectX installation fails or hardware not supportive.

