

User Manual

IP Camera

zmodo

For further help, please visit www.zmodo.com

Preface

Dear customer,

Thank you for purchasing our products. If there are any questions, or requests, please do not hesitate to contact the dealer.

Product Versions

- The content in this manual may be different from the product version you are using. If you meet any problems which can't be solved according to this manual, please contact our technical support or product supplier.
- This manual may contain several technical incorrect places, and the content is subject to change without notice. The updates will be added to the new version of this manual. We will readily improve or update the products or procedures described in this manual.

Intended Reader

This manual is intended for the following personnel:

- System planner
- Onsite tech-support and maintenance personnel
- Administrator for system installation, configuration and maintenance
- Users for business operation on product functions

Terms in this Manual

IP Camera, or IPC in this manual, means network camera.

Click: Click with left button of mouse.

Double-click: Rapidly click the left mouse button twice.

Right-click: Click with the right button of mouse.

The [] symbol indicates the windows name, menu name, or data table; such as [Download Address]

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Chapter 1 Product Introduction

1.1 Brief Introduction

This IP monitoring product is the integrated IP network camera which has been designed for network video surveillance. High performance, monolithic SOC chip is utilized as a media processor which integrates video capture, compression, and transmission.

An embedded web server allows the user to view real-time footage and remotely control the camera via IE web browser. This IP camera is well-suited for home and small business, as well as any situation which needs to apply remote network transmission and remote network control. It's easy to install and operate.

1.2 Main Features

- Build-in web server supports access via Internet Explorer.
- Support high compression rates and flexible operation.
- Support day & night viewing.
- Support smartphone live view by scanning a QR code.
- Support multiple user simultaneously, multi-level management ensures high system security.
- Support automatic recovery functions when the system temporarily loses internet connection.
- Support auto white balance & backlight compensation.
- Support PPPoE, DDNS, LAN, and Internet (ADSL, Cable Modem).

1.3 Installation Statement

During installation and operation, please pay attention to the following items:

1. When you receive the package product, please check the equipment and accessories according to the packing list inside the shipping box.
2. Before installing the system, please carefully read this manual.
3. When you install the IP Camera, please make sure that it is not plugged into a power source.
4. Check the voltage of the power source to prevent damaging the device.



Note

Installation Environment

- Do not install the camera in an area that is subject to violent vibrations.
- Do not aim the camera lens at the strong light such as sun or incandescent lamp. The strong light can cause fatal damage to the camera.
- To avoid heat accumulation, good ventilation is required for a proper operating environment.
- Do not place the camera in extremely hot, cold temperatures, the operating temperature should be between $-10\text{ }^{\circ}\text{C}$ to $50\text{ }^{\circ}\text{C}$ (14F to 122F), dusty or damp environment, and do not expose it to high electromagnetic radiation.

1.4 Network IP Camera Connection



Note

Required Before Installation:

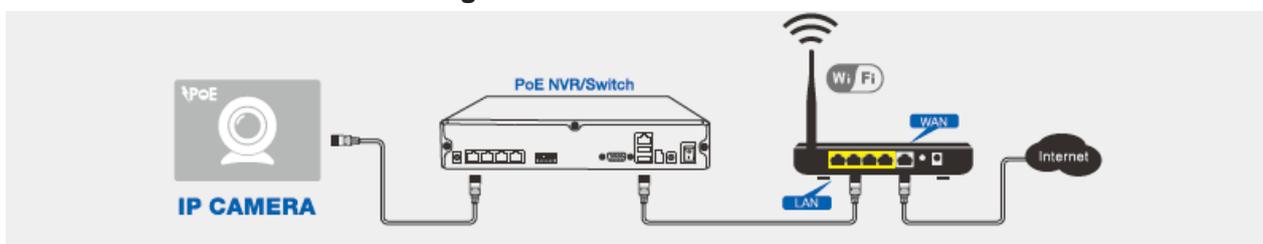
- Please make sure that router's UPNP and DHCP are enabled before camera.
- Router's wireless authentication mode cannot be set "WEP Encrypted".
- The camera must be connected to your router using a network cable before it is set up to use Wi-Fi. Your mobile device must be connected to the same Wi-Fi network as the camera (It is suggested to shut down mobile phone's 3G Network).

IP Camera's Connection Diagrams are as below:

▲Wi-Fi IP Cameras Connection Diagram



▲PoE IP Cameras Connection Diagram



▲Common IP Cameras Connection Diagram (No Wi-Fi and PoE Function)



This user manual will mainly introduce three methods to access IP Camera:

First Method: Access to IP Camera on iOS and Android Device

Second Method: Access to IP Camera on Zviewer PC

Third Method: Access to IP Camera on Internet Explore

Chapter 2 Access to IP Camera on iOS and Android Device

2.1 Access to IP Camera on iOS Device

2.1.1 Software Installation

2.1.1.1 Environmental Requirements

Device Required: iPhone, iPod Touch or iPad

System Required: iOS 4.3 or up

Network Required: Wi-Fi/3G

2.1.1.2 Installation Steps

Download and install the free **Zmodo Zsight** software from **iTunes App Store** or download **Zsight for iOS** from <http://www.zmodo.com/support-software/>.

2.1.2 Launch Zmodo Zsight

Tap the Zsight icon (as Figure 1) from the home screen to open Zmodo Zsight, the device will automatically enter the “Device List” section (as Figure 2).



Figure 1

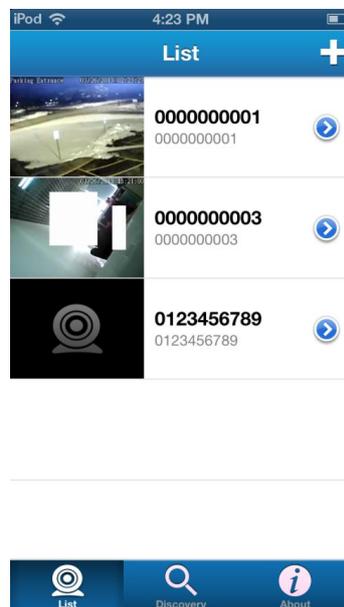


Figure 2

2.1.3 Device Management

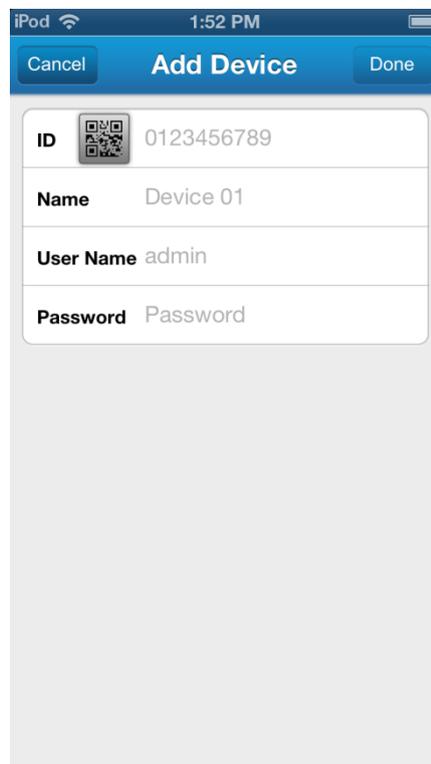
2.1.3.1 Add a Device

There are three methods to add a device:

- **Scan QR Code to add a camera**
- **Automatically to add a camera**
- **Manually to add a camera**

▲ Method One: Scan to Add

1. From the List tab, click the [+] icon (As Figure 2), this will take you to the “Add Device” section (As Figure 3).



Add Device	
ID	0123456789
Name	Device 01
User Name	admin
Password	Password

Figure 3

2. Tap the image , then scan the QR Code area on the camera with your phone, Zsight will automatically scan and add the IP Camera to the Device List when the QR Code is successfully read.

3. After scanning the camera, Zsight will open the Wi-Fi Connection Interface (As Figure 4).



Figure 4

4. Select the Wi-Fi connection that your camera connects to, enter the Wi-Fi password, and select [Save] (As Figure 5).



Figure 5

5. Click [Next], enter the default password "111111", and click [Done] to add the devices (As Figure 6).



Figure 6



Note

For Wi-Fi IP Cameras, you can now disconnect the network cable and place the camera anywhere within the Wi-Fi signal range (as Figure 7).

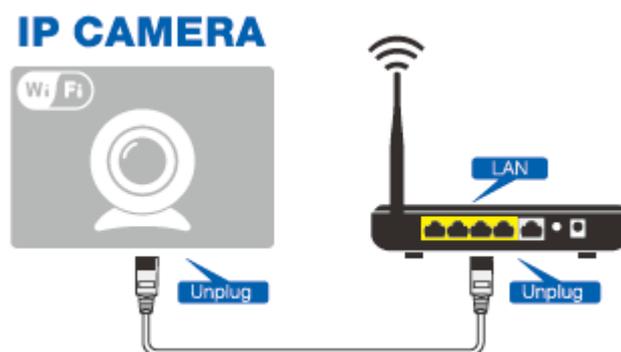


Figure 7

▲Method Two: Automatically Add

1. Click [Discovery] (As Figure 2), this will take you to the “Discovery” section. Click [Refresh], and your phone will automatically search all local devices (as Figure 8).



Figure 8

2. After selecting the camera, Zsight will open the Wi-Fi Connection Interface (as Figure 9).



Figure 9

3. Select the Wi-Fi connection that your camera connects to, enter the Wi-Fi password, and select [Save] (as Figure 10).



Figure 10

4. Click [Next], enter the default password "111111", and click [Done] to add the devices (as Figure 11).



Figure 11



Note

For Wi-Fi IP Cameras, you can now disconnect the network cable and place the camera anywhere within the Wi-Fi signal range (as Figure 12).

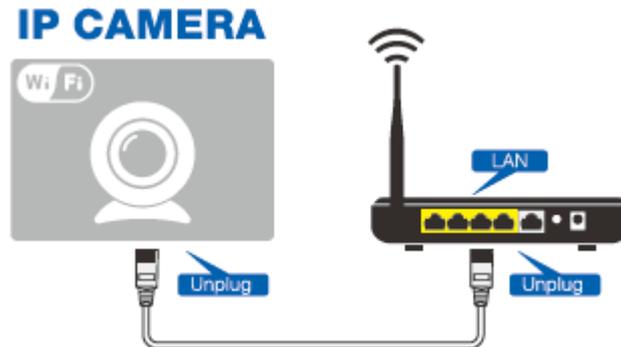


Figure 12

▲ Method Three: Manually Add

From the List tab, click the [+] icon (As Figure 2), this will take you to the “Add Device” section (As Figure 13).

[ID] Enter device’s 10-digit ID (found from IP Camera’s label).

[Name] Enter device’s name, with maximum 60 chars.

[User Name] Login in or access device with user name; default user name is “admin”.

[Password] Access device with relevant password; default password is “111111”.

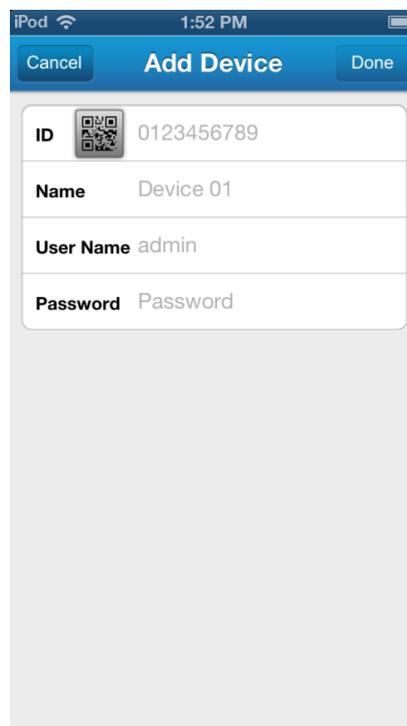


Figure 13

After setting all the parameters, click [Done].

2.1.3.2 Edit a Device

From the List Menu, click  to edit the device info, click [Done] to save or [Cancel] to cancel (as Figure 14).



Figure 14

2.1.3.3 Delete a Device

Click and drag from right-to-left the device that you wish to delete, this will display the “Delete Box.” Click [Delete], then click [OK] to confirm delete (as Figure 15).

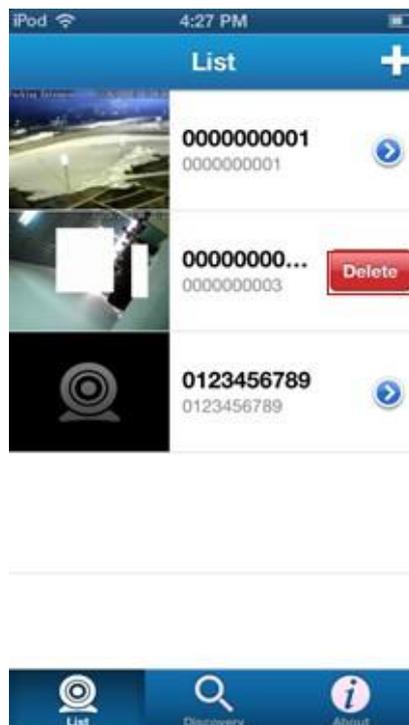


Figure 15

2.1.4 Video Play

1. Select the device from the List Menu on your mobile device, and you will be able to see the video stream (as Figure 16).



Figure 16

2. If this is the first time using the default password to connect video, you will be prompted to change the default password, click [Later] to change password later (As Figure 17).



Figure 17

3. Click [Yes] to change password, enter the new password, and click [Save] when finished (As Figure18).



Figure 18

4. Switch between Portrait and Landscape views by turning your phone horizontally or vertically (As Figure 19).



Figure 19

2.1.5 Two-way Audio (Only for Device Which Supports this Function)

1. Under real-time video, “Voice” and “Talkback” functions are turned off by default (As Figure 20).



Figure 20

2. Click  to enable voice function, the voice icon will turn green, now you can hear device sound from your mobile device (As Figure 21).



Figure 21

3. Click [] to enable talkback function, the talkback icon will turn green, now IP Camera and mobile device can realize two-way voice talkback. With exclusive mode, when a mobile device enables its talkback function, other mobile device can not initiate this function (As Figure 22).



Figure 22

4. If only talkback function is enabled, IP Camera can receive sound from mobile device, while mobile device cannot receive sound from IP Camera (As Figure 23).



Figure 23

2.1.6 About

Click [About] (As Figure 2), this will take you to the “About” section.

2.2 Access to IP Camera on Android Device

2.2.1 Software Installation

2.2.1.1 Environmental Requirements

Device Required: Mobile phone with Android system

System Required: Android v2.3 up

Network Required: Wi-Fi/3G

2.2.1.2 Installation Steps

Download and install the free **Zmodo Zsight** software from **Google Play** or download **Zsight for Android** from <http://www.zmodo.com/support-software/>.

2.2.2 Launch Zmodo Zsight

Tap the Zsight icon (As Figure 1) from the home screen to open Zmodo Zsight, the device will automatically enter the “Device List” section (As Figure 2).



Figure 1

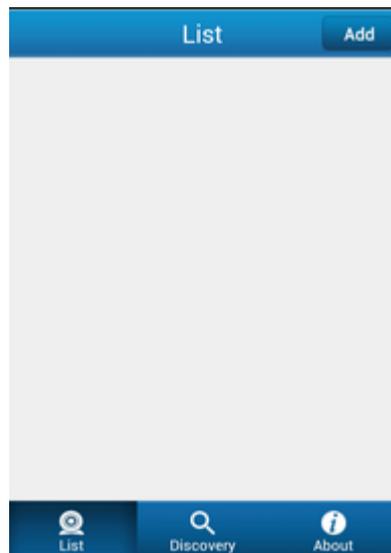


Figure 2

2.2.3 Device Management

2.2.3.1 Add a Device

There are three methods to add a device:

- **Scan QR Code to add a camera**
- **Automatically to add a camera**
- **Manually to add a camera**

▲Method One: Scan to Add

1. From the List tab, click the [Add] icon (As Figure 2), this will take you to the “Add Device” section (As Figure 3).



Figure 3

2. Tap the image , then scan the QR Code area on the camera with your phone, Zsight will automatically scan and add the IP Camera to the Device List when the QR Code is successfully read.

3. After scanning the camera, Zsight will open the Wi-Fi Connection Interface (As Figure 4).

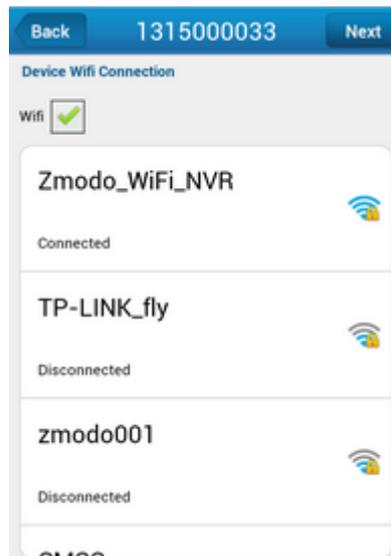


Figure 4

4. Select the Wi-Fi connection that your camera connects to, enter the Wi-Fi password, and select [Save] (As Figure 5).



Figure 5

5. Click [Next], enter the default password "111111", and click [Save] to add the devices (As Figure 6).



Figure 6



Note

For Wi-Fi IP Cameras, you can now disconnect the network cable and place the camera anywhere within the Wi-Fi signal range (as Figure 7).

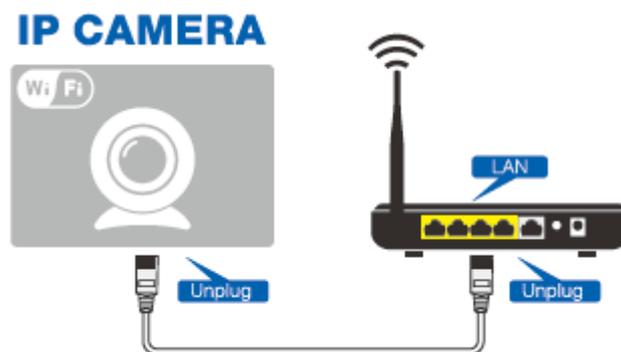


Figure 7

▲Method Two: Automatically Add

1. Click [Discovery] (As Figure 2), this will take you to the “Discovery” section. Click [Refresh], and your phone will automatically search all local devices (as Figure 8).

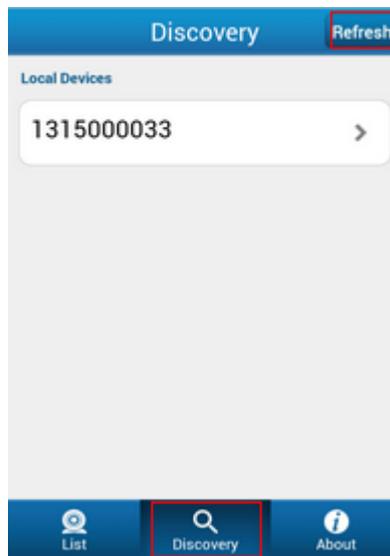


Figure 8

2. After selecting the camera, Zsight will open the Wi-Fi Connection Interface (as Figure 9).

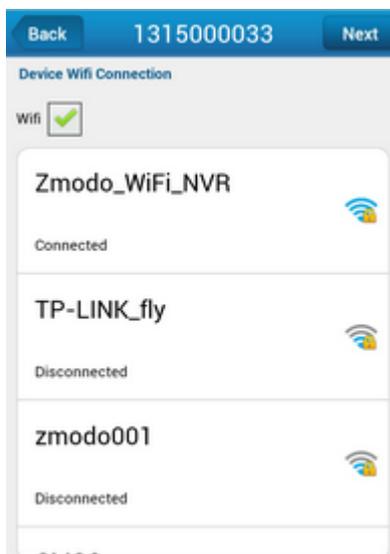


Figure 9

3. Select the Wi-Fi connection that your camera connects to, enter the Wi-Fi password, and select [Save] (as Figure 10).

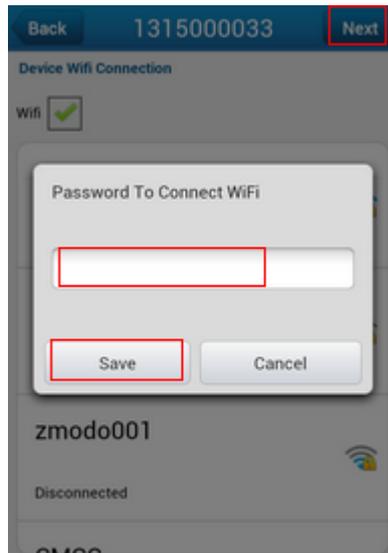


Figure 10

4. Click [Next], enter the default password "111111", and click [Save] to add the devices (As Figure 11).

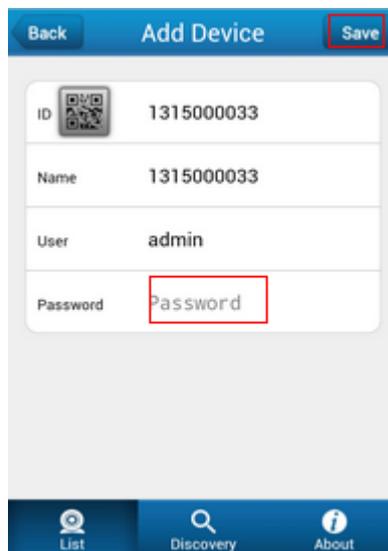


Figure 11



Note

For Wi-Fi IP Cameras, you can now disconnect the network cable and place the camera anywhere within the Wi-Fi signal range (as Figure 12).

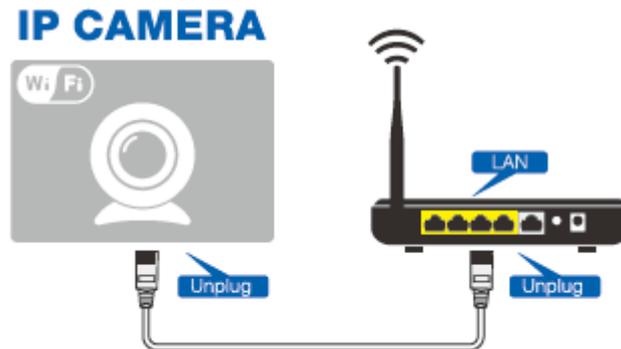


Figure 12

▲ Method Three: Manually Add

From the List tab, click the [Add] icon (As Figure 2), this will take you to the “Add Device” section (As Figure 13).

[ID] Enter device’s 10-digit ID (found from IP Camera’s label).

[Name] Enter device’s name, with maximum 60 chars.

[User Name] Login in or access device with user name; default user name is “admin”.

[Password] Access device with relevant password; default password is “111111”.



Figure 13

After setting all the parameters, click [Done].

2.2.3.2 Edit a Device

1. Select the device that you wish to edit and press it for several seconds until the Menu Box is displayed (As Figure 14).

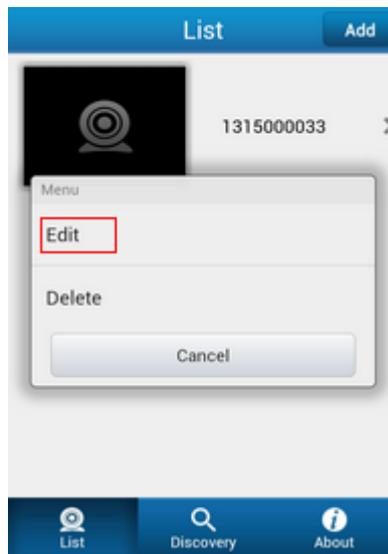


Figure 14

2. Click [Edit], this will take you to the "Edit Device" section. Edit device information, then click [Save] to save or [Back] to cancel (As Figure 15).



Figure 15

2.2.3.3 Delete a Device

1. Select the device that you wish to delete and press it for several seconds until the Menu Box is displayed (As Figure 16).

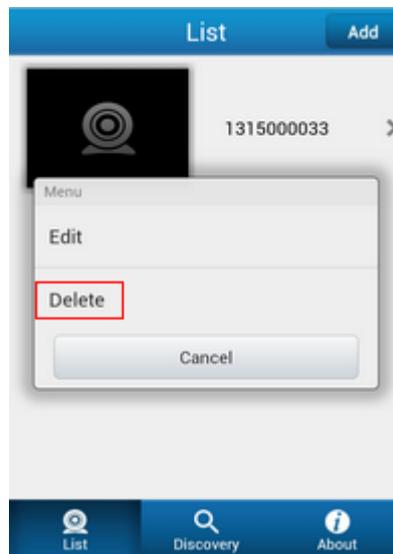


Figure 16

2. Click [Delete], this will take you to the “Delete Device” section. Then click [OK] to confirm delete; or [Cancel] to cancel the delete (As Figure 17).

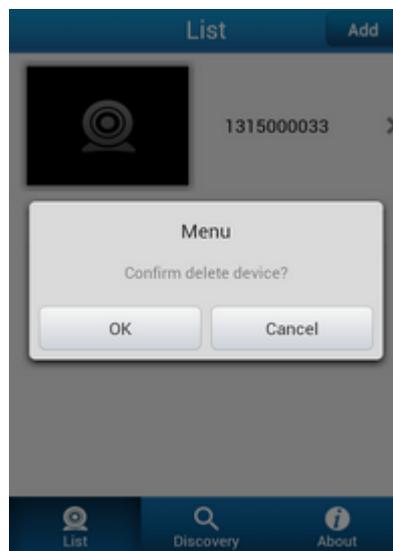


Figure 17

2.2.4 Video Play

1. Select the device from the List Menu on your mobile device, and you will be able to see the video stream (As Figure 18).



Note

19.95 KB/S displays internet speed
806.1 KB displays phone traffic
(Only real time video is displayed)

Figure 18

2. If this is the first time using the default password to connect video, you will be prompted to change the default password, click [Later] to change password later (As Figure 19).

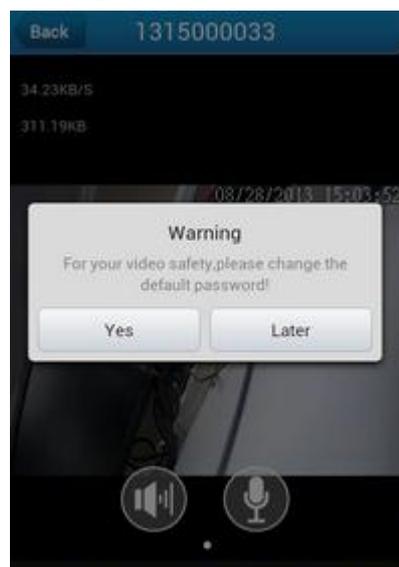


Figure 19

3. Click [Yes] to change password, enter the new password, and click [Save] when finished (As Figure 20).



Figure 20

4. Switch between Portrait and Landscape views by turning your phone horizontally or vertically (As Figure 21 and Figure 22).



Figure 21



Figure 22

2.2.5 Two-way Audio (Only for Device Which Supports this Function)

1. Under real-time video, “Voice” and “Talkback” functions are turned off by default (As Figure 23).



Figure 23

2. Click  to enable voice function, the voice icon will turn green, now you can hear device sound from your mobile device (As Figure 24).



Figure 24

3. Click [] to enable talkback function, the talkback icon will turn green, now IP Camera and mobile device can realize two-way voice talkback. With exclusive mode, when a mobile device enables its talkback function, other mobile device can not initiate this function (As Figure 25).



Figure 25

4. If only talkback function is enabled, IP Camera can receive sound from mobile device, while mobile device can not receive sound from IP Camera (As Figure 26).



Figure 26

2.2.6 About

Click [About] (As Figure 2), this will take you to the “About” section.

Chapter 3 Access to IP camera on Zviewer PC

3.1 Installation and Uninstallation

3.1.1 Operating Environment

Operating Environment	Subitem	Description
Software	Operating system	Windows XP/ Vista/Win7/Window8
Hardware	Minimum configuration	1.6 GHz CPU, 1G memory, 1024x768 display resolution, 100G HD
	Recommended configuration	2.2 GHz or faster CPU, 2G or more memory, 1280x1024 display resolution, 500G or larger HD

3.1.2 Zviewer Installation

1. Download “**zviewer for windows**” software from “<http://www.zmodo.com/support-software/>”, and double click “Setup” for the Zviewer installation, select installation language, also as system operation language (English or Chinese), then click [OK] (确定, As Figure 1).

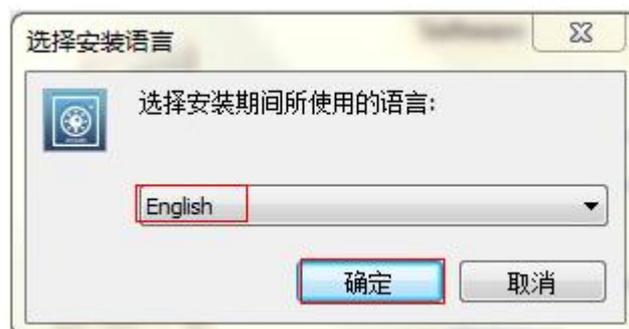


Figure 1

2. Click [Next] to continue, or [Cancel] to exit setup (As Figure 2).

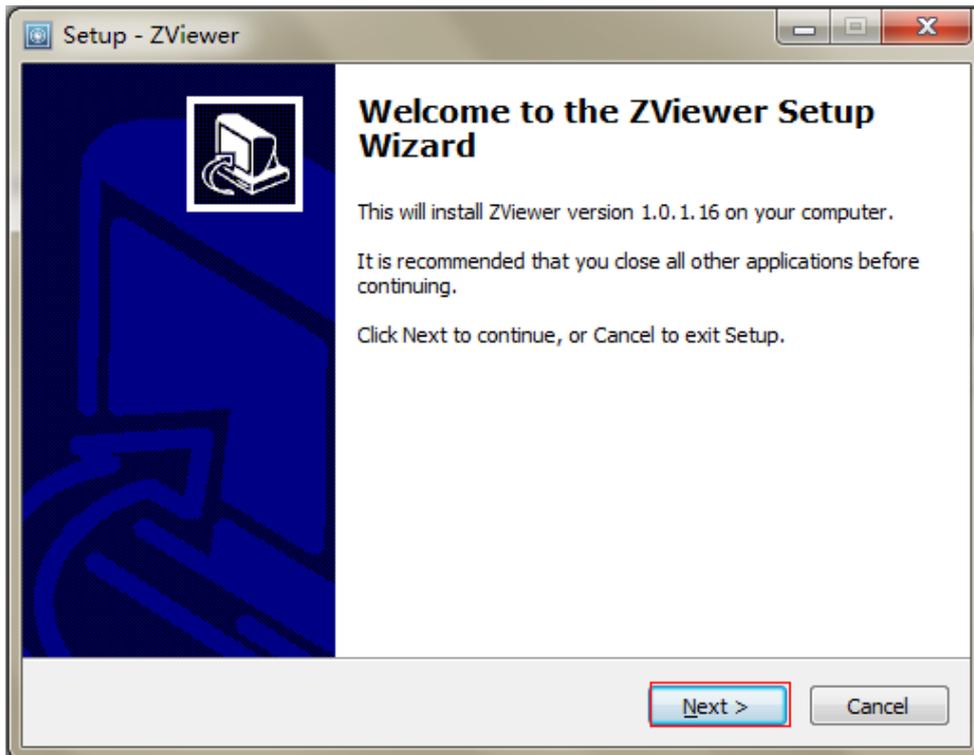


Figure 2

3. Select the installation path, then click [Next] (As Figure 3).

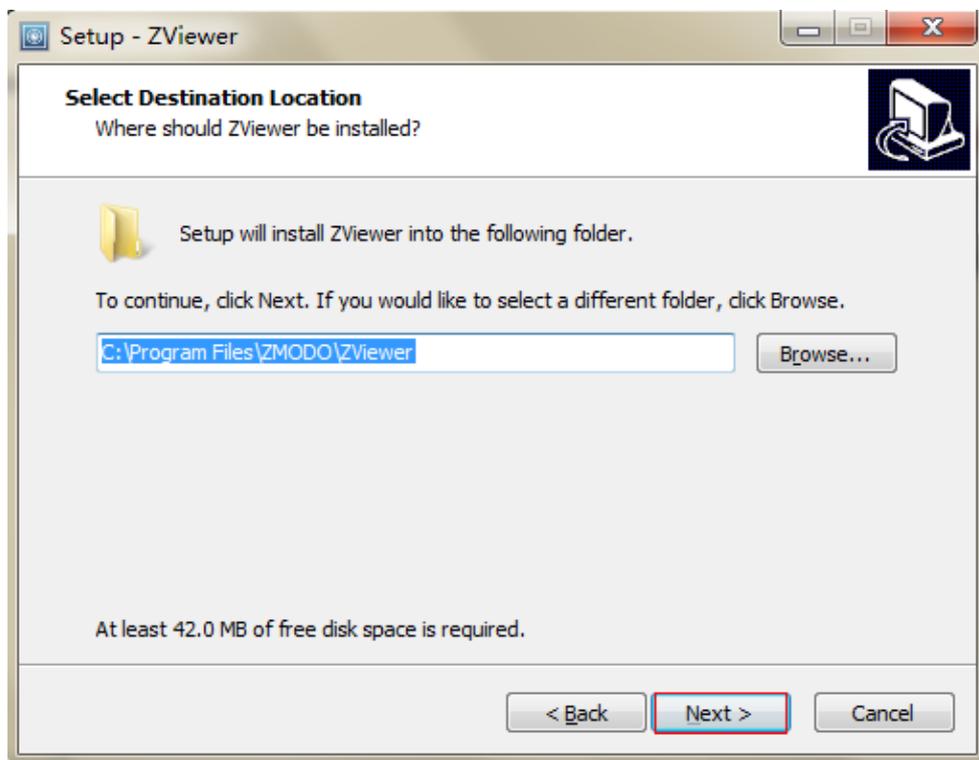


Figure 3

4. Select the start menu folder, then click [Next] (As Figure 4).

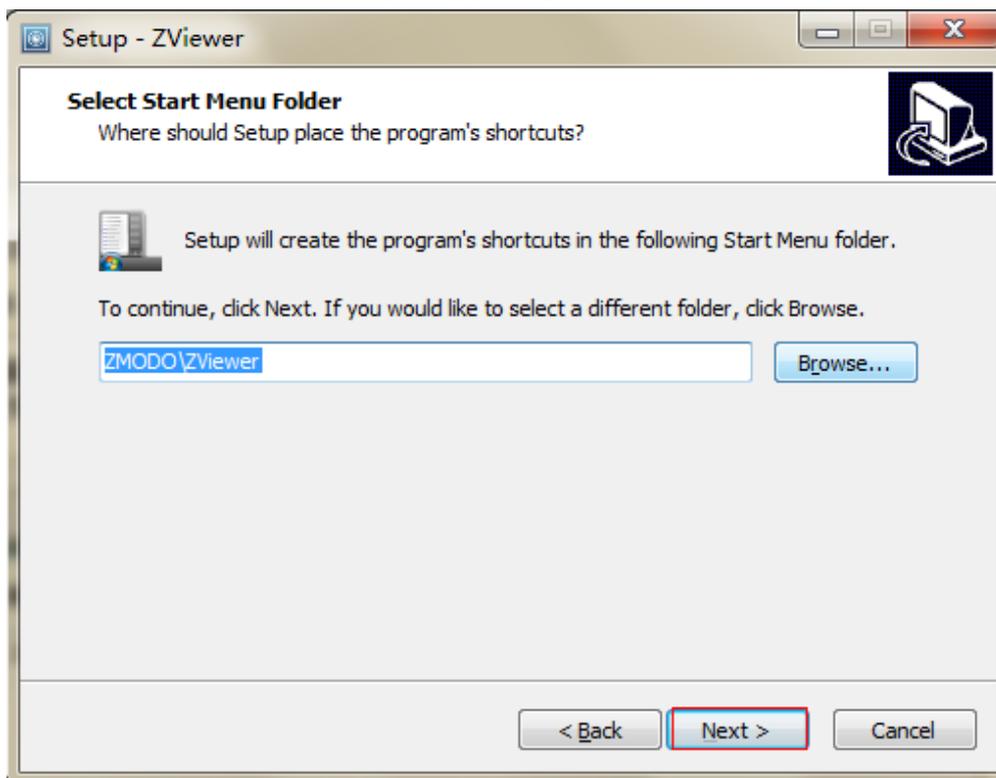


Figure 4

5. You will be prompted to choose whether to create shortcut on your desktop, click [Create a desktop icon] to facilitate operation, then click [Next] (As Figure 5).

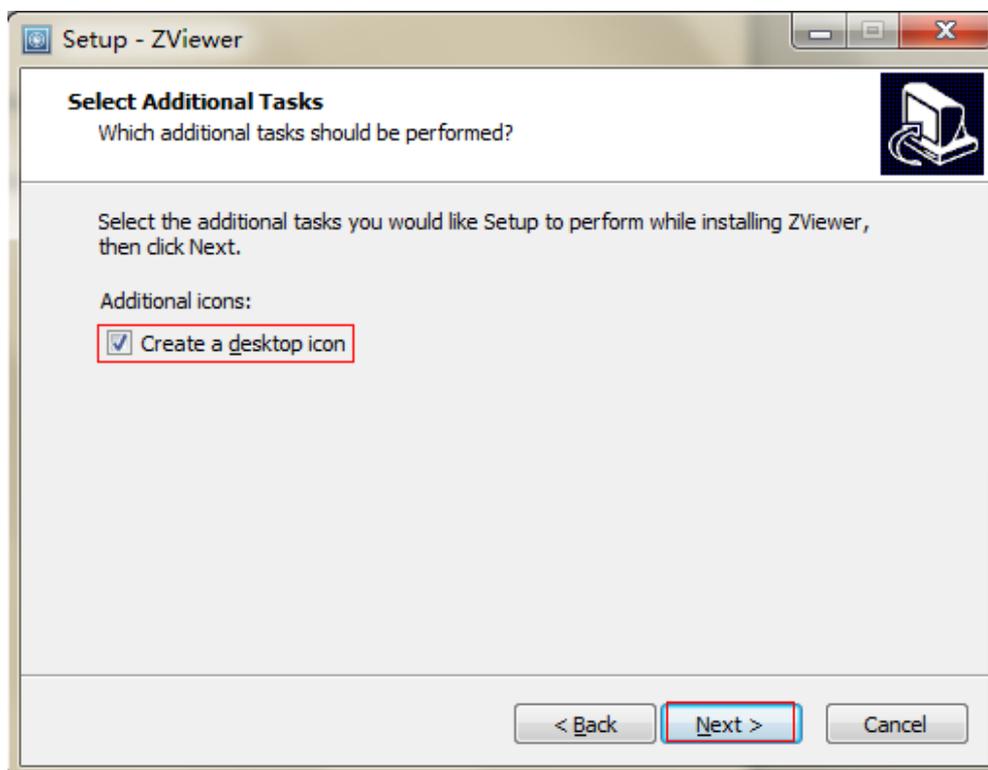


Figure 5

6. Click [Install] to install Zviewer on your PC (As Figure 6).

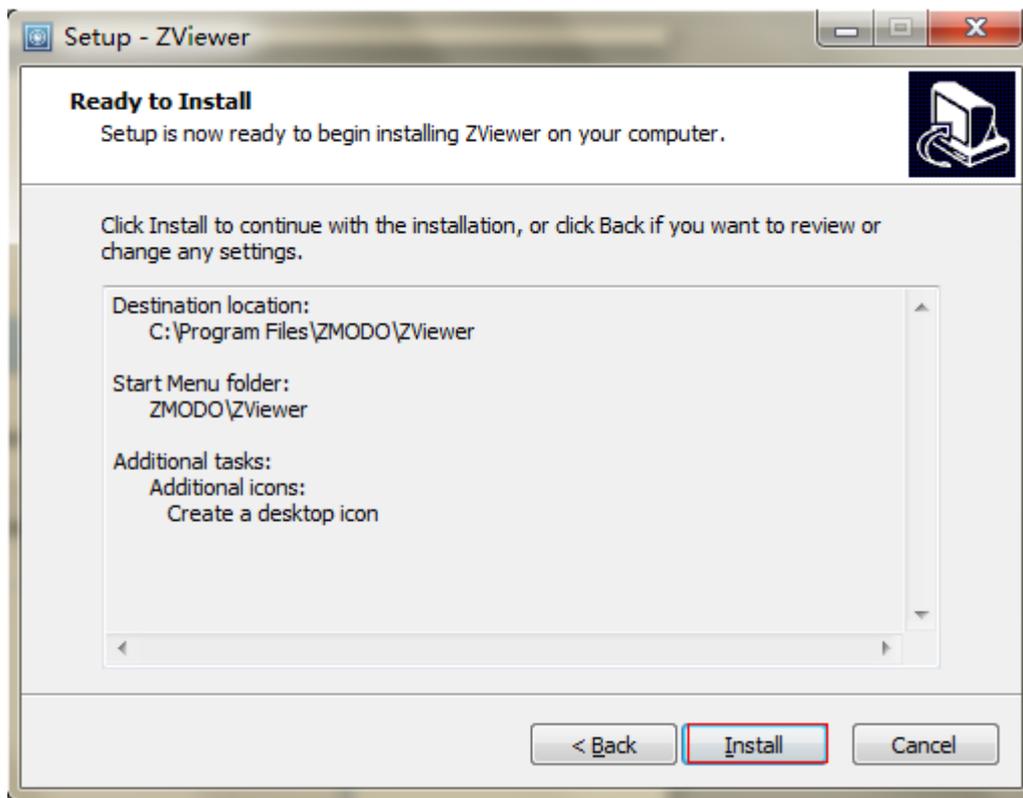


Figure 6

7. Click [Finish] to finish the installation of Zviewer (As Figure 7).

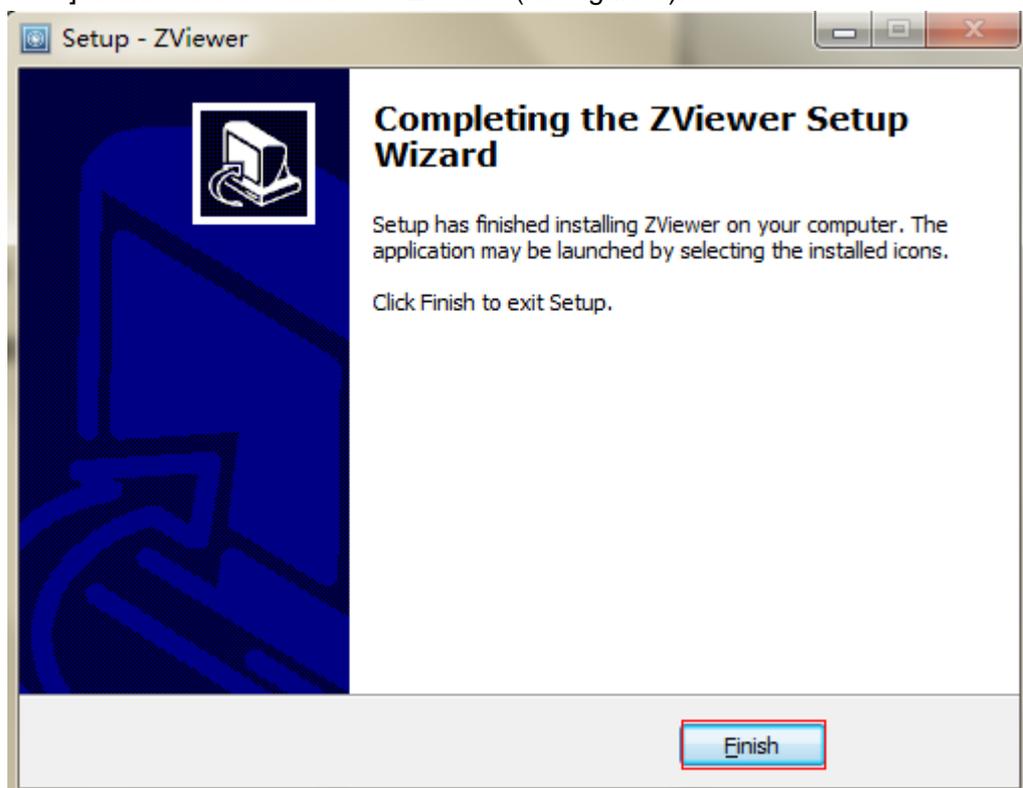


Figure 7

3.1.3 Zviewer Uninstallation

Click [Start]-[All Programs]-[ZMOD0]-[Zviewer]-[Uninstall Zviewer], and uninstall Zviewer as prompted.

1. Click [Y] to confirm uninstall Zviewer (As Figure 8).



Figure 8

2. Choose whether to delete all config files and log files of Zviewer (As Figure 9).

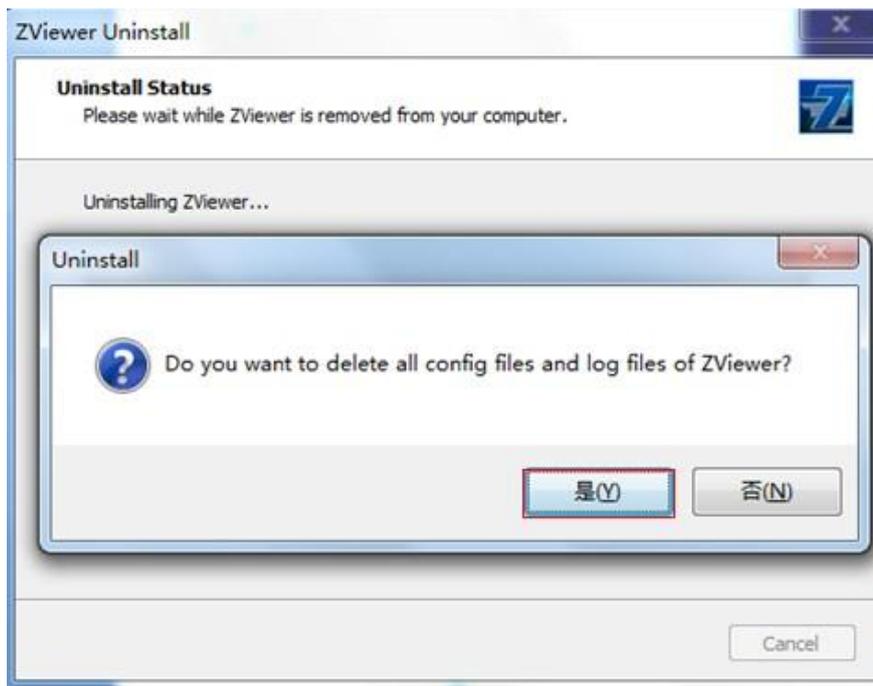


Figure 9

3.2 Operation and Use

3.2.1 User Login

Launch Zviewer on your PC, if this is the first time to login, enter the default user name “**admin**” and the default password “**111111**”, then click [Login] (As Figure 10).



Figure 10



Note

If check the box “Remember me”, you can have the system remember the user name and password, so that you do not need to type it each time, only click [Login] to login Zviewer.

3.2.2 Main Interface of Zviewer

Zviewer main interface is as follows:



Figure 11

Main Interface Function

Area No.	Description
①	Device List
②	Toolbar
③	PTZ Control Panel
④	Image Quality Control Panel

Device List: Display all added devices, including IPC and NVR.

Toolbar Function

Icon	Description
	1 channel Mode: Click for 1 channel video display layout
	4-channel Mode: Click for 4-channel video display layout
	8-channel Mode: Click for 8-channel video display layout
	Full Screen Mode: Click for full-screen display at any layout
	Talkback: Click to enable talkback function (Only for IP Cameras with this function)
	Voice: Click to enable voice function (Only for IP Cameras with this function)

PTZ Control Panel Function (Only for PTZ IP Cameras)

Icon	Description
	Control device to move up/down
	Control device to move left/right
	Pause device
	Focal length adjustment
	Brightness adjustment
	Zoom in/out
	Reset
	Set preset
	Move to preset position
	Set interval time
	Patrol route

Image Quality Control Panel Function

Icon	Description
 Brightness	Adjust the brightness
 Contrast	Adjust the contrast
 Saturation	Adjust the saturation
Reset	Restore default settings
Color	Adjust the color (color or black and white)
Orientation	Adjust the orientation (normal, flip, mirror, flip plus mirror)
Voltage	Adjust the voltage

3.3 Device Management

3.3.1 Add Device

The first time to successfully launch Zviewer, system will automatically enters to the “Discovery” interface, to search and add device (As Figure 12).

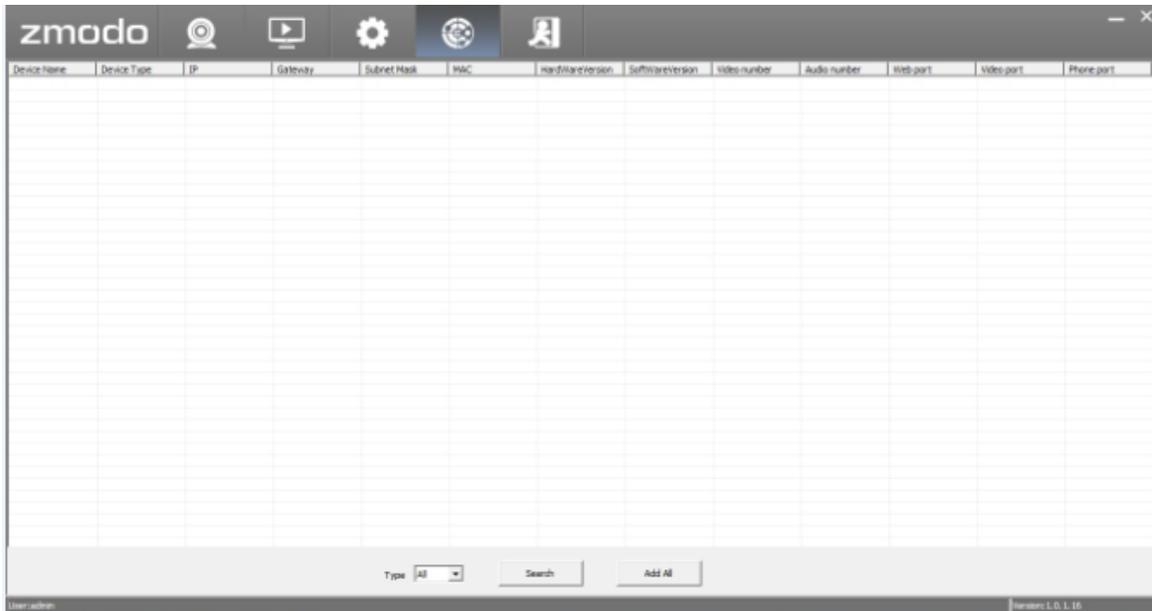


Figure 12

3.3.1.1 Auto Search to Add a Device

1. Select the type of to-be-searched devices (IPC, NVR or ALL), default type is ALL. Click [Search] to search device (As Figure 13).

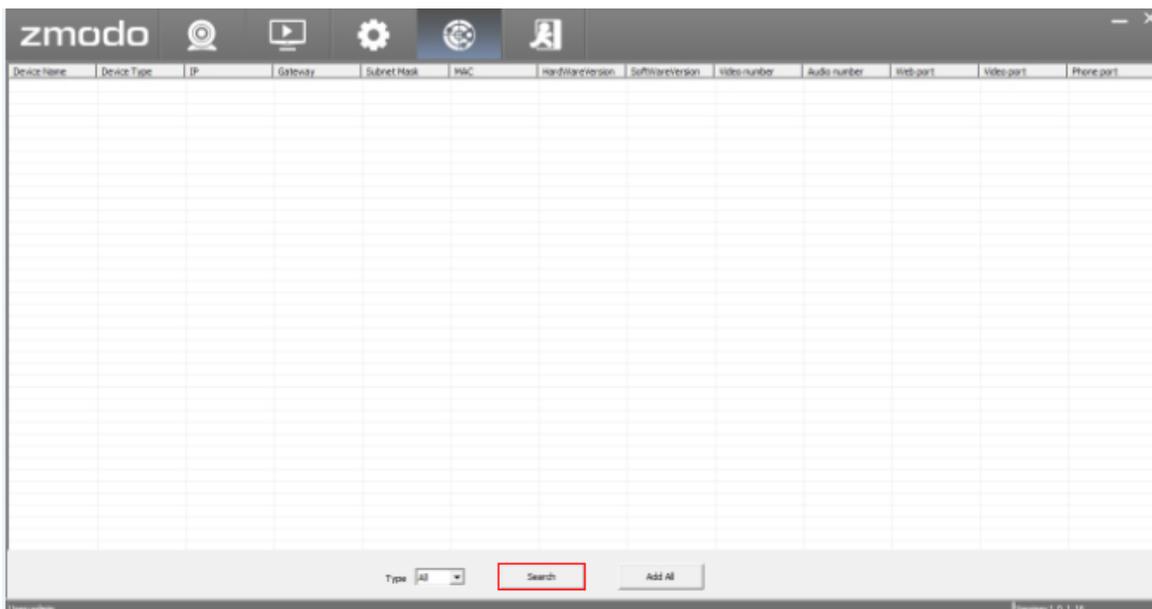


Figure 13

2. Click [Add All] to add your devices, you will be prompted with “Add devices to system successfully” after successfully adding them (As Figure 14).

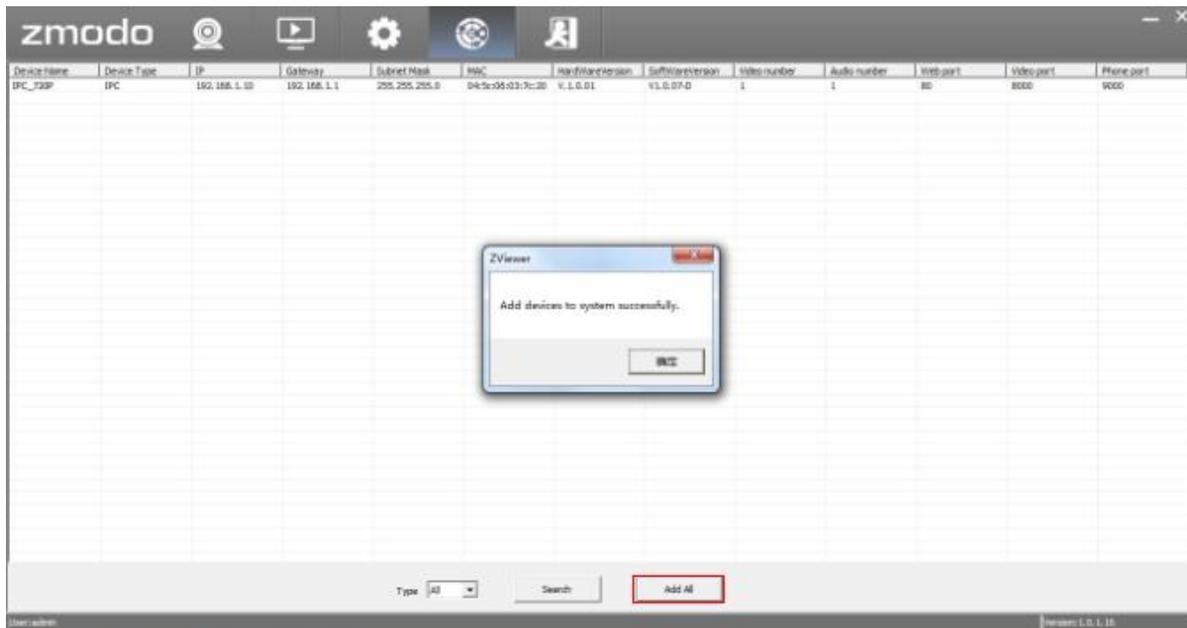


Figure 14

3.3.1.2 Manually Add a Device

There are mainly two methods to manually add a device:

▲ First Method: Add a device by its IP

1. Find [⚙️] “Setting”, and click [Device Management]. Right click in the blank area on the right, then click [Add] (As Figure 15).

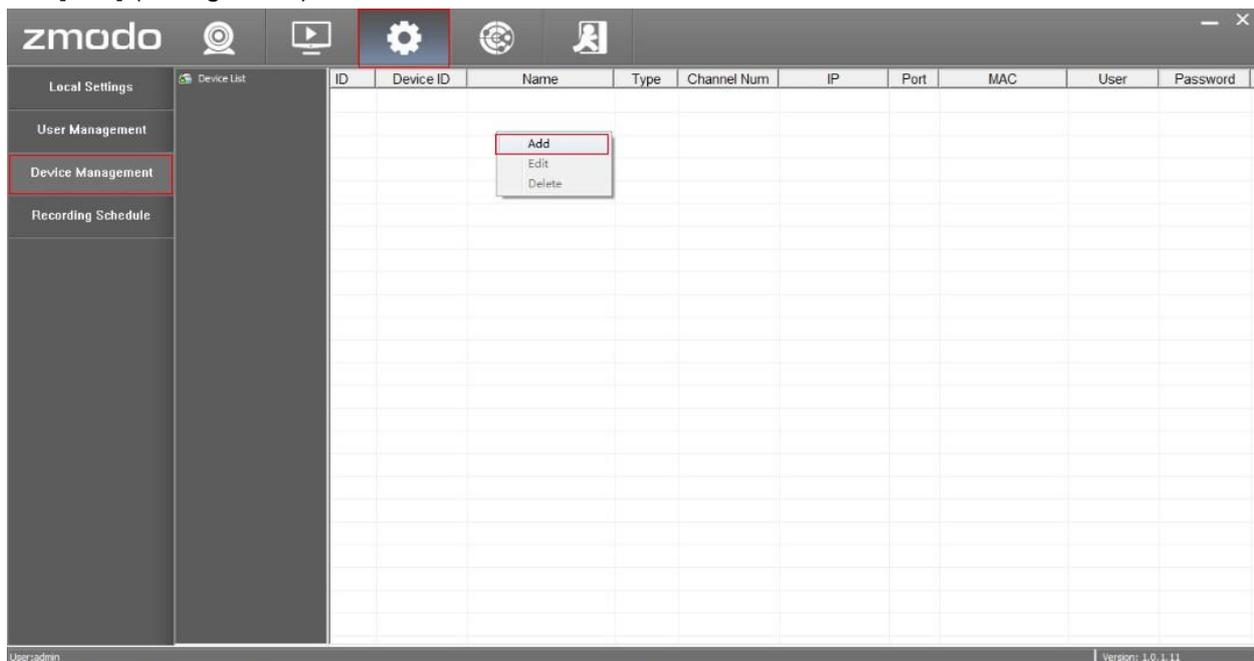


Figure 15

Or find [📷] “Live”, right click [Devices], then click [Add Device] (As Figure 16).



Figure 16

2. After either of the above operation, you will enter to “New Device Add Wizard” section (As Figure 17).

[Device by ID] Keep uncheck

[Name] Enter the device name

[Type] Select device type (IPC or NVR)

After the settings are finished, click [Next].

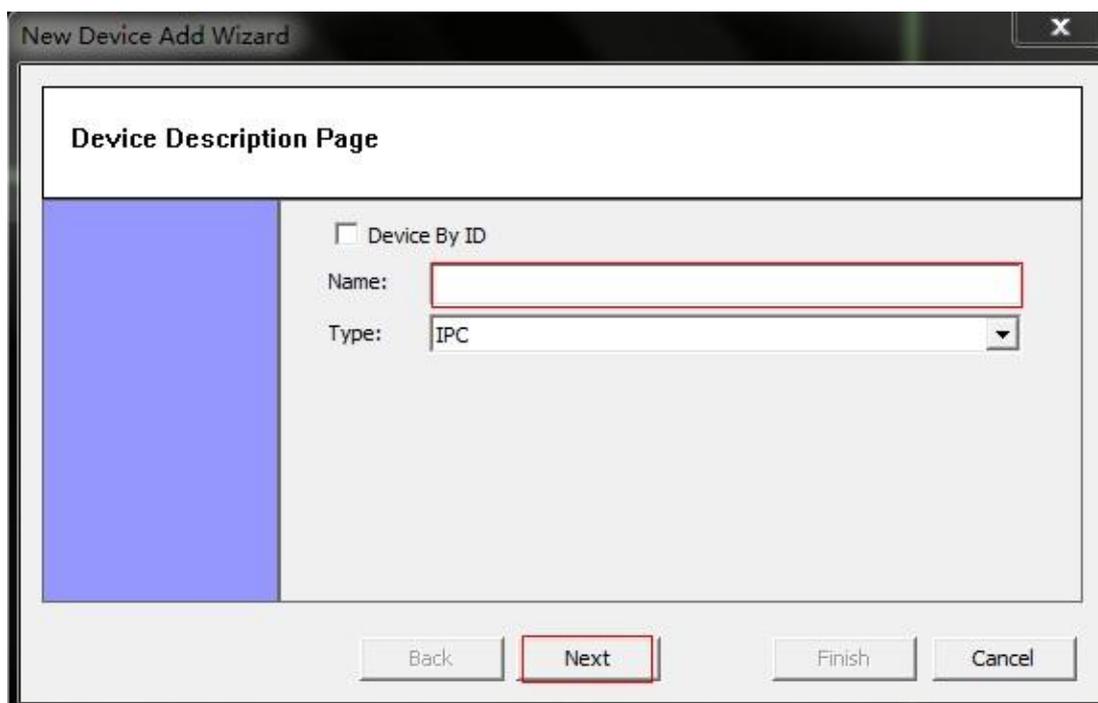


Figure 17

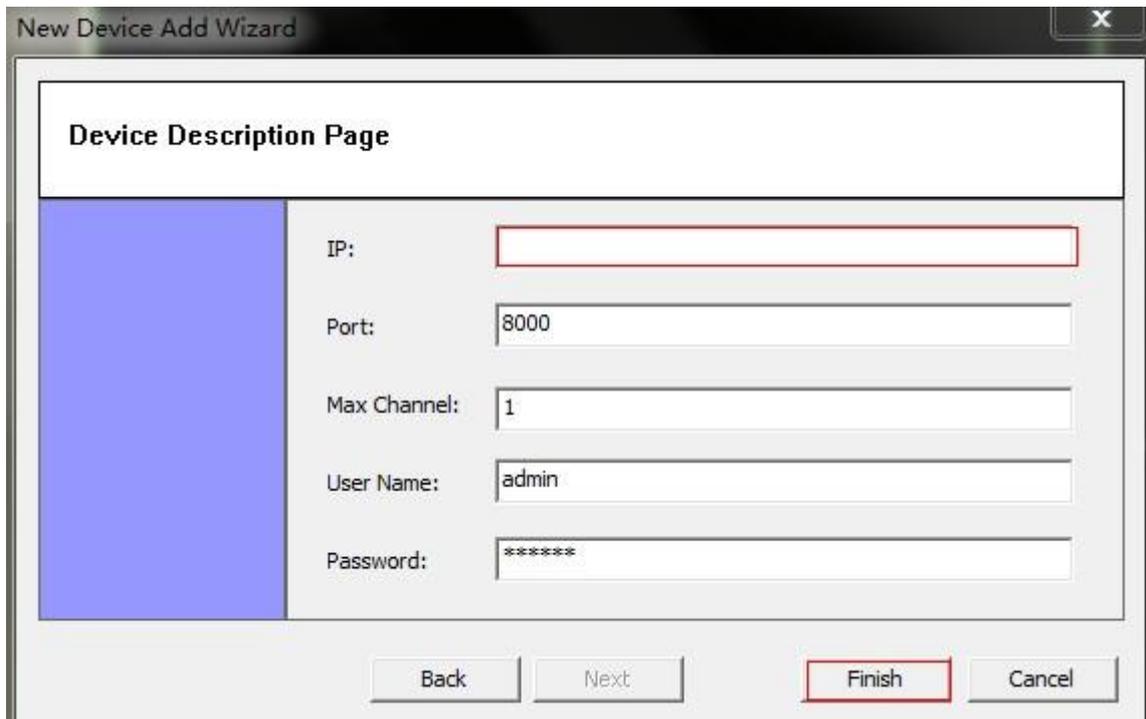
3. System shall automatically identify and add the values of “Port”, “Max Channel”, “Login” and “Password”, enter device IP, then click [Finish] (As Figure 18).

[IP] Enter device IP (searched by IPCSearch, please check out **Section 2.1.2** for more information on IPCSearch).

[Max Channel] Quantity of channels of the device

[Login] User name of the device, default is “admin”

[Password] Login password, default is “111111”



The screenshot shows a window titled "New Device Add Wizard" with a close button (X) in the top right corner. The main content area is titled "Device Description Page". On the left side, there is a vertical blue bar. To the right of this bar, there are five input fields with labels: "IP:" (empty), "Port:" (8000), "Max Channel:" (1), "User Name:" (admin), and "Password:" (*****). At the bottom of the window, there are four buttons: "Back", "Next", "Finish" (highlighted with a red border), and "Cancel".

Figure 18

4. You will be prompted with “Add Device Successfully” after successfully adding them (As Figure 19).



Figure 19

▲ Second Method: Add a device by its ID

1. Find [⚙️] “Setting”, and click [Device Management]. Right click in the blank area on the right, then click [Add] (As Figure 20).

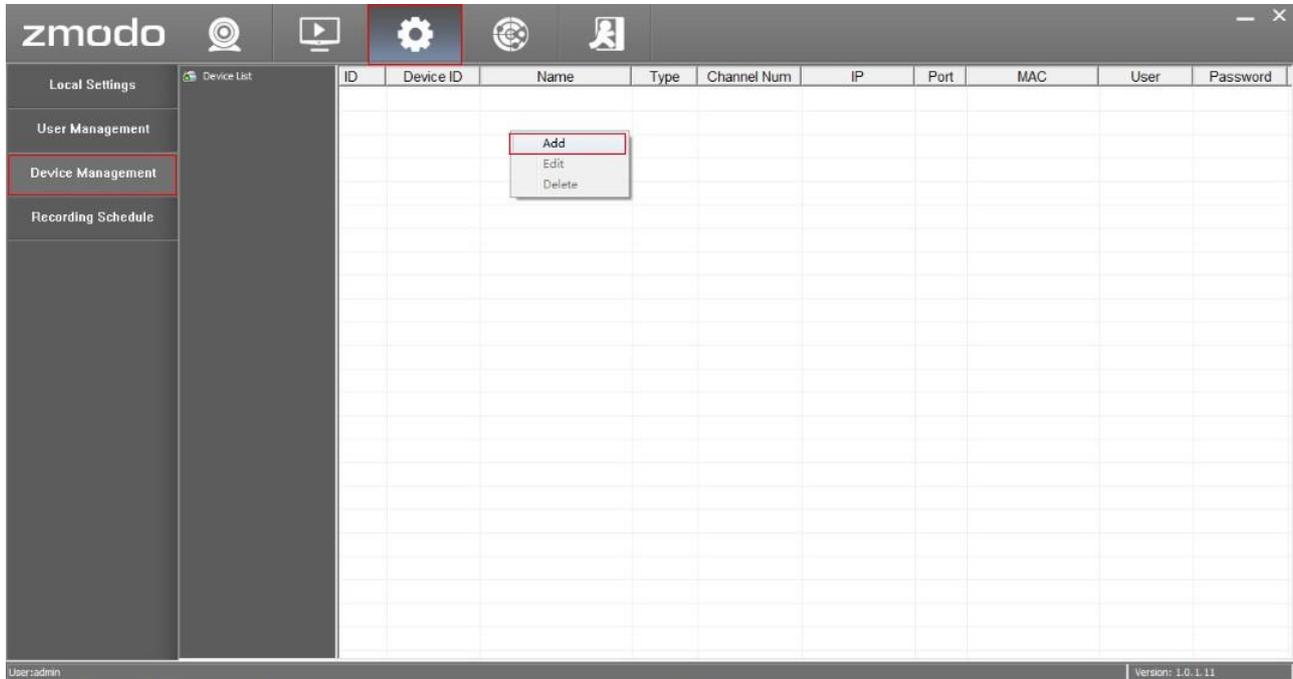


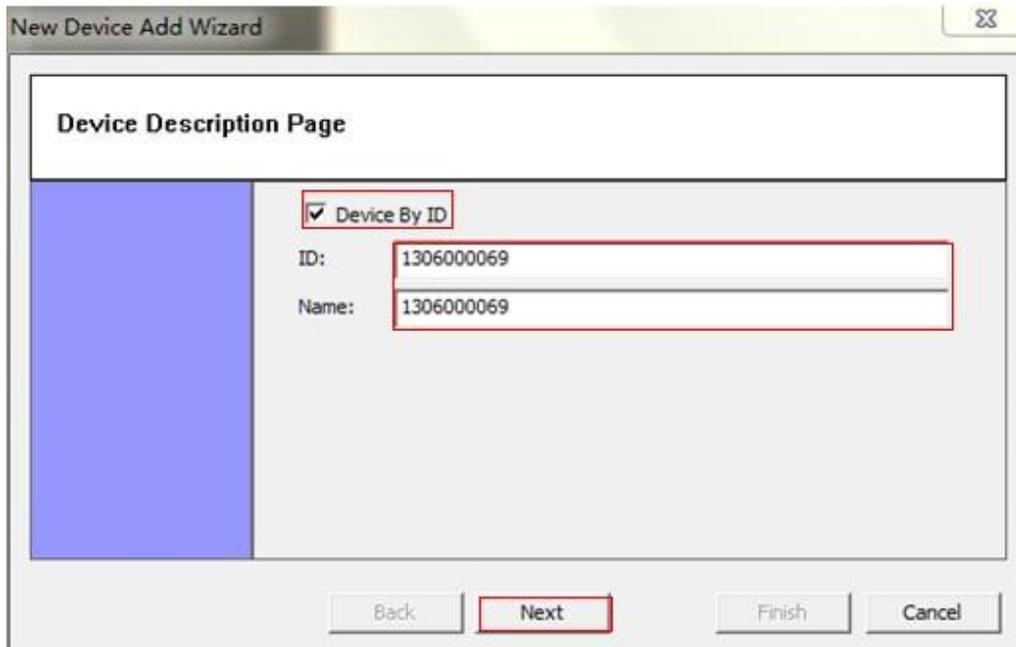
Figure 20

Or find [📹] “Live”, right click [Devices], then click [Add Device] (As Figure 21).



Figure 21

2. After either of the above operation, you will enter to “New Device Add Wizard” section (As Figure 22). Click [Device by ID], click on the **10-digit Device ID** (found from the label of the IP Camera) and click [Next].



The screenshot shows a window titled "New Device Add Wizard" with a "Device Description Page" header. On the left is a blue vertical bar. The main area contains a checked radio button labeled "Device By ID". Below it are two text input fields: "ID:" and "Name:", both containing the value "1306000069". At the bottom, there are four buttons: "Back", "Next" (highlighted with a red border), "Finish", and "Cancel".

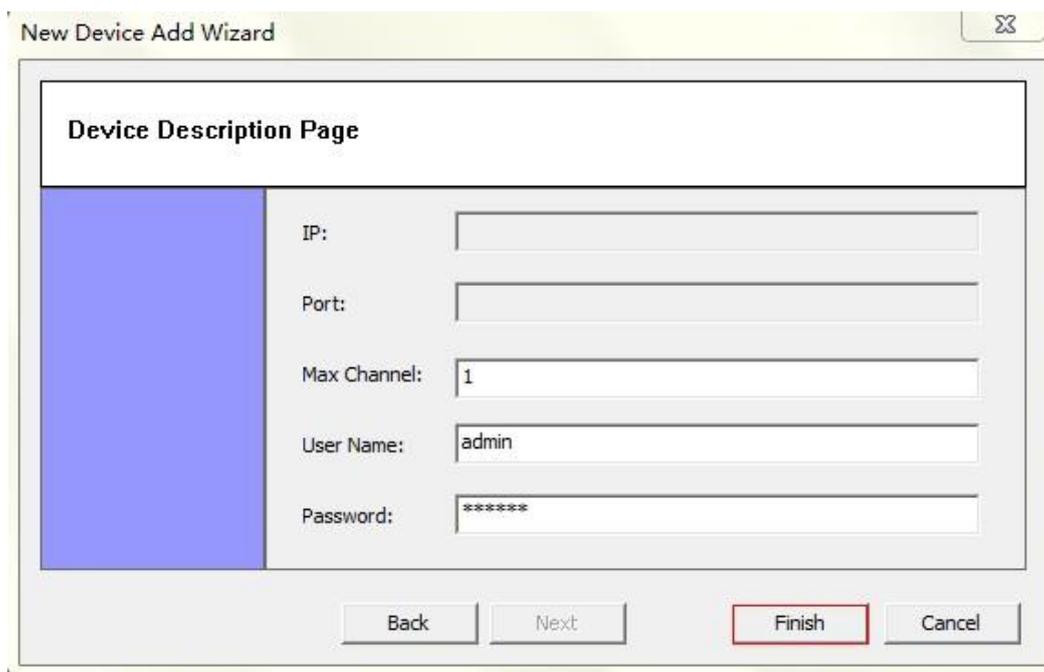
Figure 22

3. System shall automatically identify and add the values of “Max Channel”, “Login” and “Password”, then click [Finish]. You will be prompted with “Add Device Successfully” after successfully adding it (As Figure 23).

[Max Channel] Quantity of channels of the device

[Login] User name of the device, default is “admin”

[Password] Login password, default is “111111”



The screenshot shows the same "New Device Add Wizard" window. The "Device Description Page" header is present. The "Device By ID" option is still selected. The "ID" and "Name" fields are now empty. The "Max Channel:" field contains the value "1". The "User Name:" field contains "admin". The "Password:" field contains "*****". At the bottom, the "Finish" button is highlighted with a red border.

Figure 23

3.3.2 Edit Device

1. Find [⚙️] “Setting”, and click [Device Management]. Right click in the blank area on the right, then click [Edit] (As Figure 24).

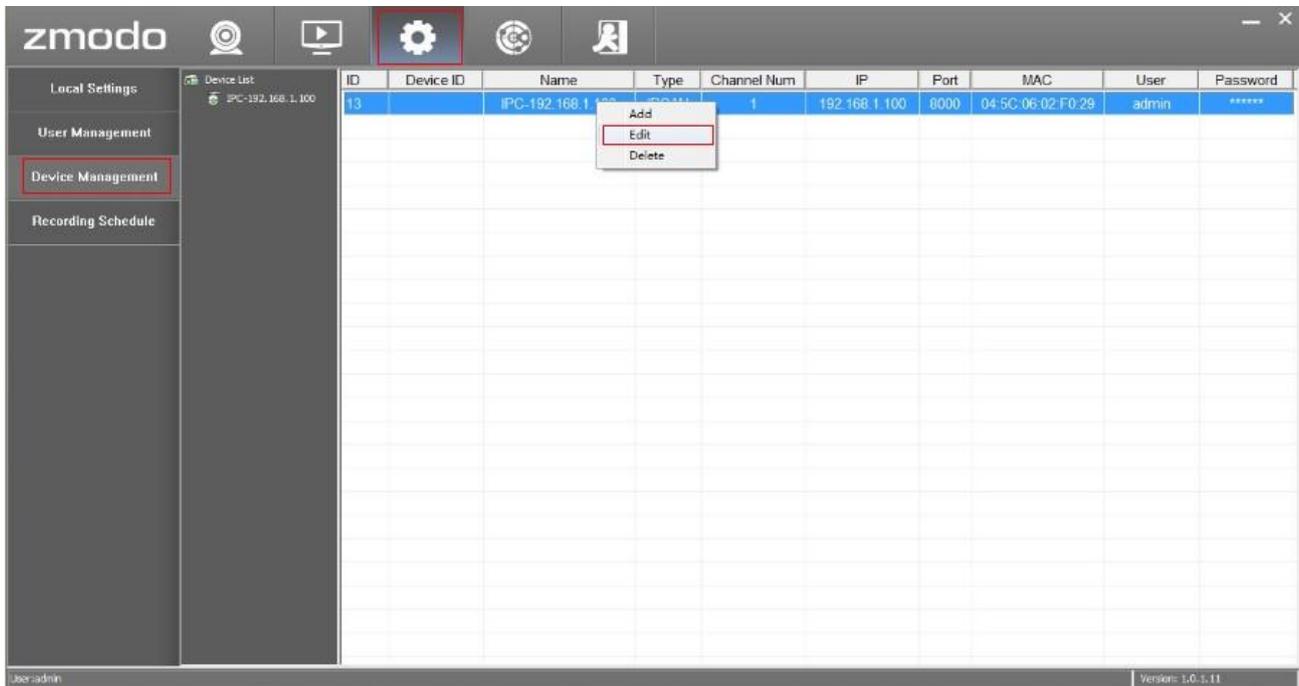


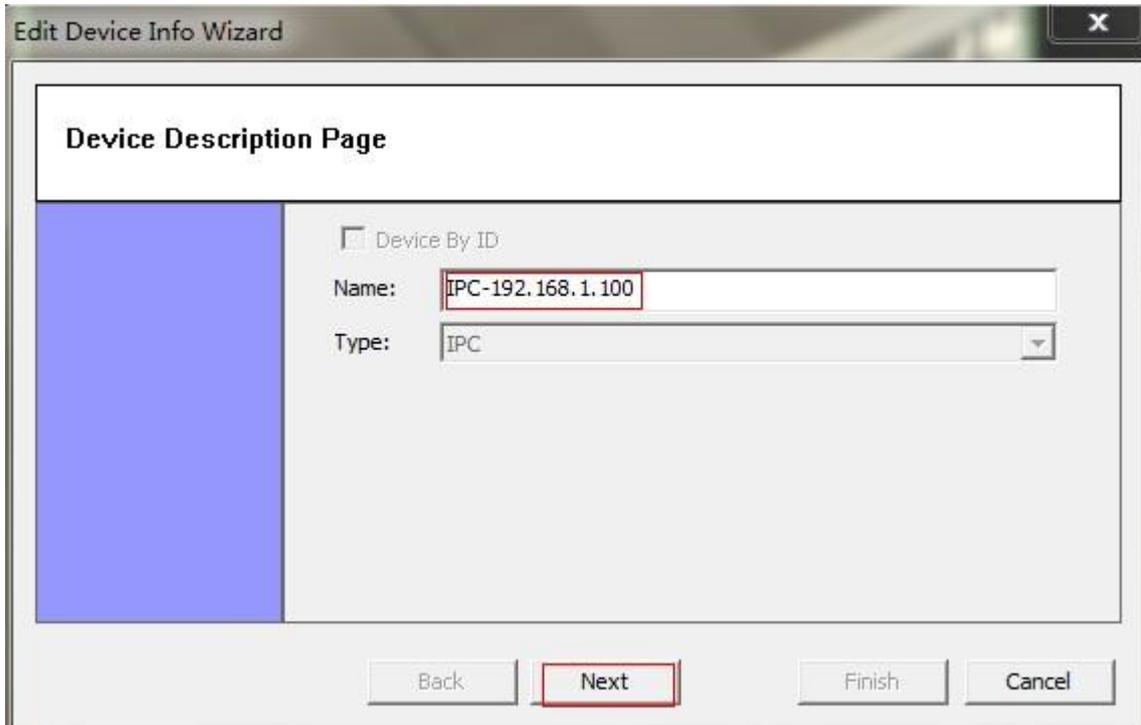
Figure 24

Or find [📹] “Live”, right click a device from the Device List, then click [Edit Device] (As Figure 25).



Figure 25

2. You will enter to “Edit Device Add Wizard” section (As Figure 26), you can edit device name, then click [Next].



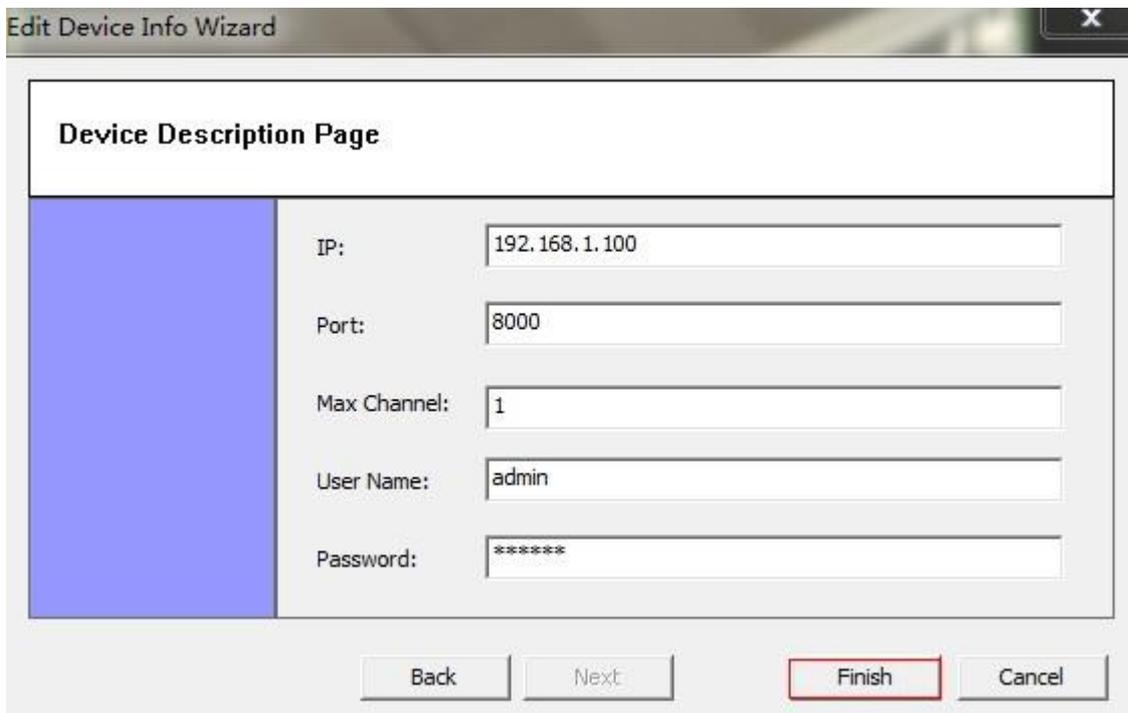
The screenshot shows the 'Edit Device Info Wizard' window with the 'Device Description Page' selected. The window title is 'Edit Device Info Wizard'. The page title is 'Device Description Page'. There is a blue vertical bar on the left side. The main area contains the following fields and controls:

- Device By ID
- Name:
- Type:

At the bottom, there are four buttons: Back, Next (highlighted with a red border), Finish, and Cancel.

Figure 26

3. You can modify device information (IP, Port, Max Channel, User Name and Password), then click [Finish] (As Figure 27).



The screenshot shows the 'Edit Device Info Wizard' window with the 'Device Description Page' selected. The window title is 'Edit Device Info Wizard'. The page title is 'Device Description Page'. There is a blue vertical bar on the left side. The main area contains the following fields and controls:

- IP:
- Port:
- Max Channel:
- User Name:
- Password:

At the bottom, there are four buttons: Back, Next, Finish (highlighted with a red border), and Cancel.

Figure 27

3.3.3 Delete Device

1. Find [⚙️] “Setting”, and click [Device Management]. Right click in the blank area on the right, then click [Delete] (As Figure 28).

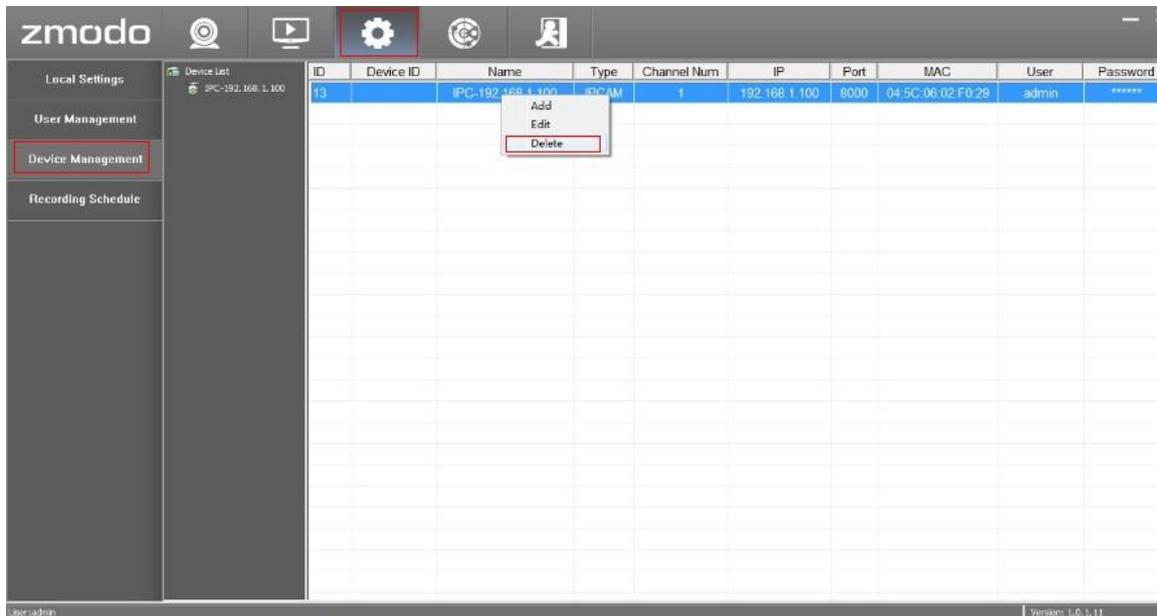


Figure 28

Or find [📹] “Live”, right click a device from the Device List, then click [Delete Device] (As Figure 29).

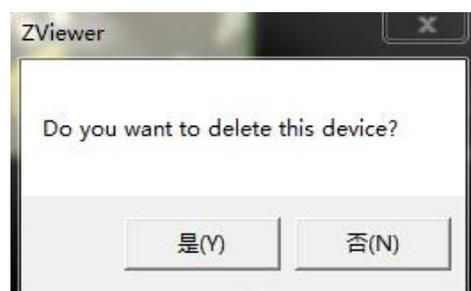


Figure 29

2. This will take you to the “Delete Device” section (As Figure 30).

Click [Yes] to confirm delete.

Click [No] to cancel delete.



3.4 Video Browsing

3.4.1 Open the Video

After devices are successfully added, find [🔍], this will take you to “Live” interface, there are mainly three methods to open the video.

▲**First Method:** Double-click a device from the Device List on the left to open the video.

▲**Second Method:** Drag a device from the Device List on the left to the Play Window.

▲**Third Method:** Right click a device name from the Device List, then click [Open Video], the video stream will display in the available window (As Figure 31).



Figure 31

For your safety, you will be prompted to change the default password. You can choose to change it now or later (As Figure 32).

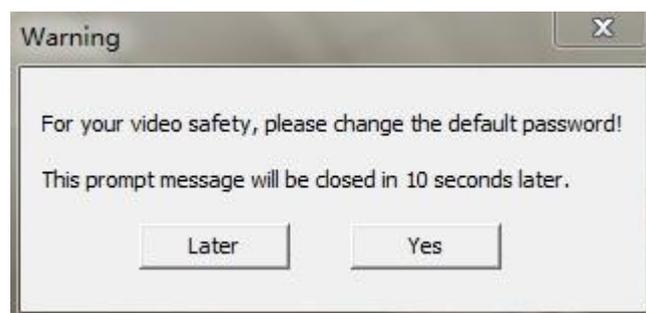


Figure 32

3.4.2 Close the Video

There are mainly two methods to close the video.

▲ **First Method:** Right click a device name from the Device List, and then click [Close] to close the video (As Figure 33).



Figure 33

▲ **Second Method:** Click [x] at the top right corner of the open video window to close it (As Figure 34).



Figure 34

3.4.3 Video Display Screen

▲ Click [] for one channel video display layout (As Figure 35).



Figure 35

▲ Click [] for 4-channel video display layout (As Figure 36).

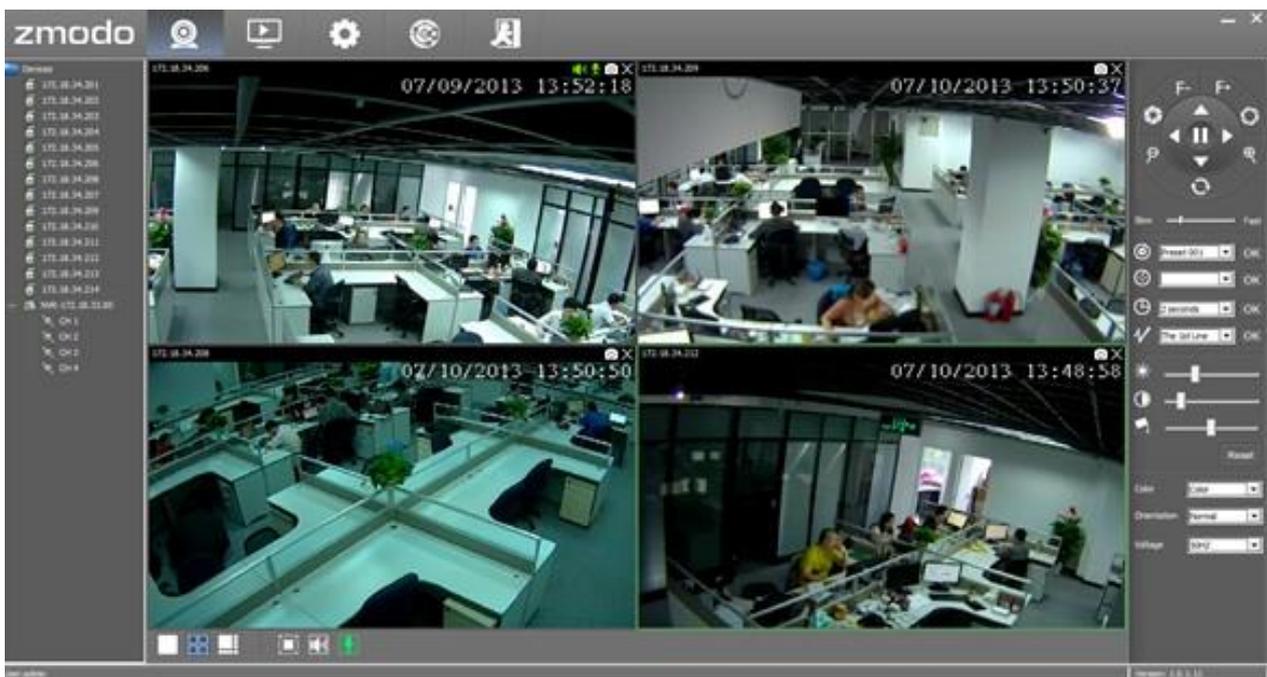


Figure 36

▲ Click [] for 8-channel video display layout (As Figure 37).



Figure 37

▲ Click [] for full-screen display at any layout, click [ESC] to exit full screen mode.



Note

1. Default video display screen is 4-channel display layout.
2. Under live video mode, double click any video at any layout for full-screen display, then click [ESC] key or double click to exit full screen mode.

3.4.4 Two-way Audio (Only for Device Which Supports this Function)

1. Under real-time video, “Voice” and “Talkback” functions are turned off by default. Click a device from the Device List.

2. Click  to enable voice function, the voice icon will change to .

3. Click  to enable talkback function, the talkback icon will turn green .

4. Now you can speak and hear through the IP camera using a PC with two headsets (one in PC, the other in IP Camera), (As Figure 38).



Figure 38



Note

With exclusive mode, when Zviewer enables a device’s talkback and voice function, other device’s voice function can be initiated, while talkback function cannot be initiated.

3.4.5 Screenshot

1. Select screenshot storage path: Find [⚙️] “Setting”, click [Local Settings], then click [...] to set screenshot storage path, default storage path is “C:\Program Files\ZMODO\Zviewer\ZviewerImage” (As Figure 39).

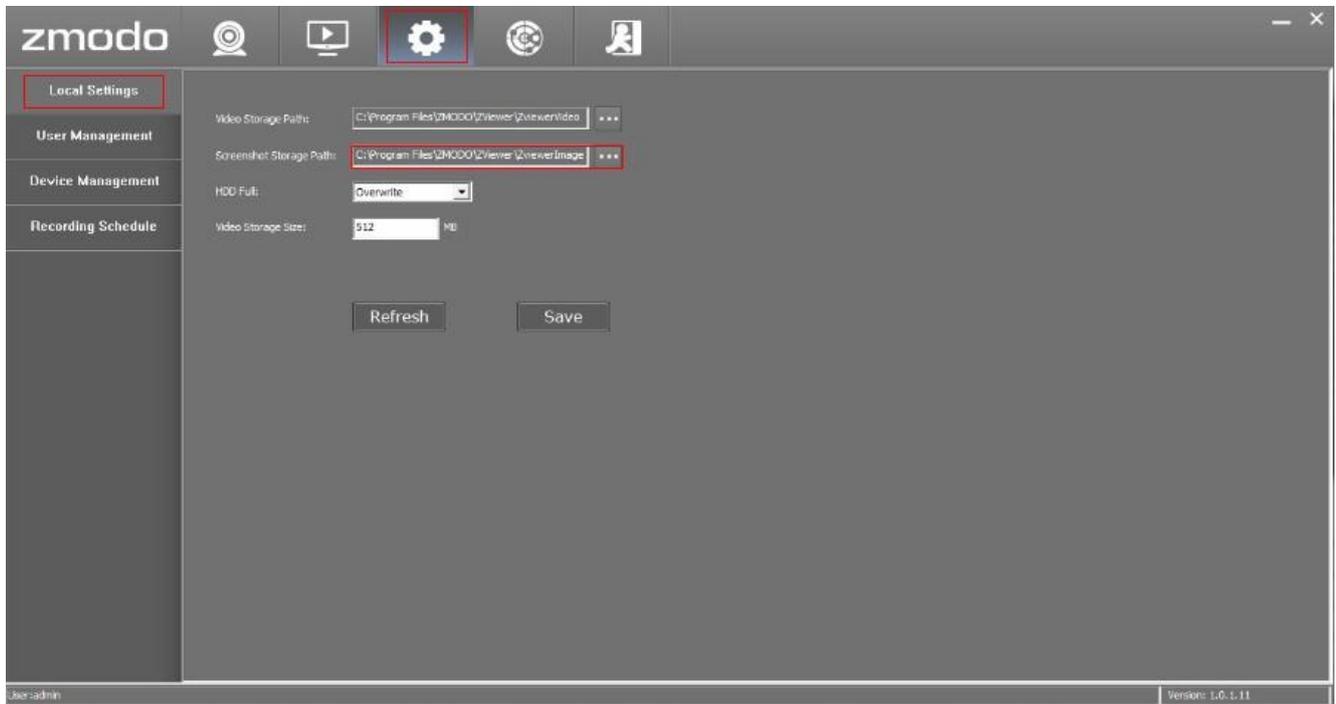


Figure 39

2. Under real-time video, click [📷] on the Play Window for a screenshot (As Figure 40). After a successful screenshot, you can find the screenshot image from the above storage path.



Figure 40

3.5 Record Settings

3.5.1 Video Storage Setting

Find [⚙️] “Setting”, click [Local Settings], you can set video storage settings in this interface (As Figure 41).

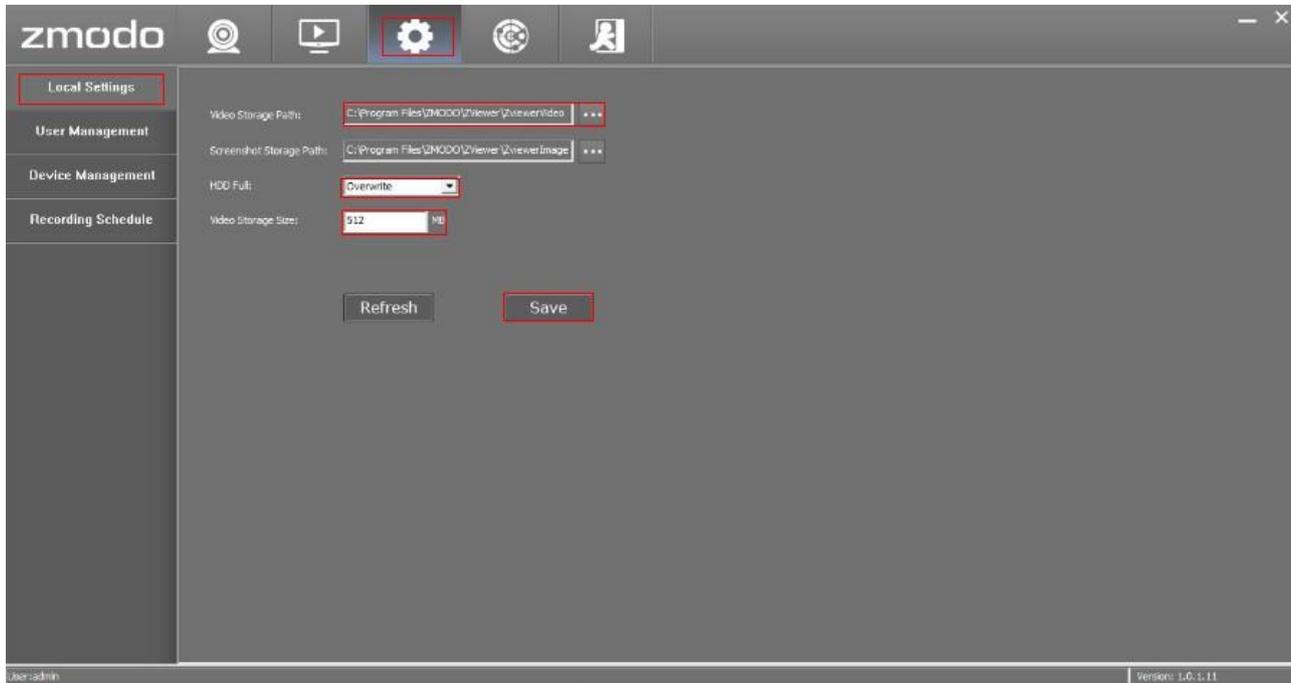


Figure 41

[Video Storage Path] Click [...] to set video storage path, default storage path is “C:\Program Files\ZMOD0\Zviewer\Zviewer Video”.

[HDD Full] When hard drive is full, if you set as [Overwrite], then hard drive will automatically clear the oldest video files and continue recording. If you set as [Stop Record], the video will stop recording when hard drive is full.

[Video Storage Size] Set the package time of video, default value is 512MB.

After setting all the parameters, click [Save].



Note

Saved video can be played back locally (Please check out Section “3.6 Video Playback” for more information, or download and install **Zmdplayer** from <http://www.zmodo.com/support-software/> for video playback.

3.5.2 Recording Schedule Setting

Find [⚙️] “Setting”, and click [Recording Schedule], you can set the local manual recording plan, the selected device will begin recording at the set time period. The video files will be stored in the local PC. The file path can be modified at [Local Settings] and the stored video can play back locally.

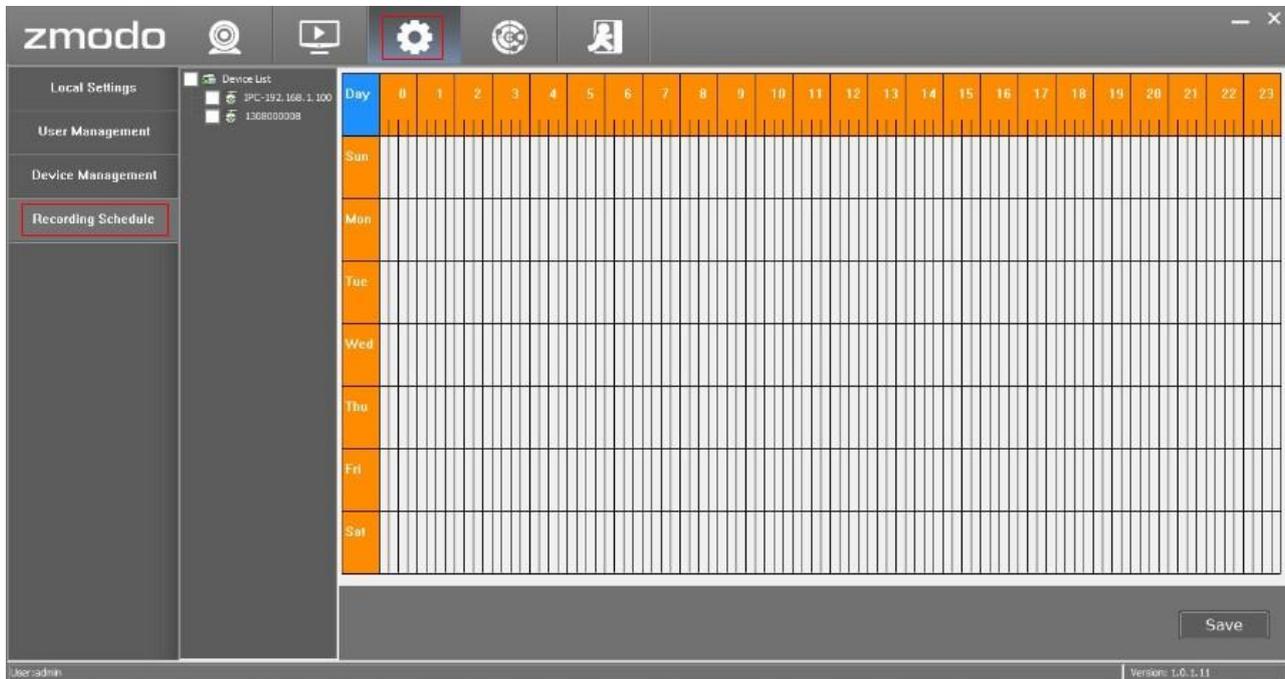


Figure 42

Steps for setting the local recording plan:

1. Set the time period for recording, left click to select the time period, the selected area will be changed to blue color (click the blue area again to cancel the time period, As Figure 43).



Figure 43



Note 1: Left click [Day] to set the recording plan for the week (As Figure 44).

Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Sun	[Blue shaded area]																							
Mon	[Blue shaded area]																							
Tue	[Blue shaded area]																							
Wed	[Blue shaded area]																							
Thu	[Blue shaded area]																							
Fri	[Blue shaded area]																							
Sat	[Blue shaded area]																							

Figure 44



Note 2: Left click the day of the week (i.e Sun) to set the recording plan for the whole day (As Figure 45).

Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Sun	[Blue shaded area]																							
Mon	[White area]																							
Tue	[White area]																							
Wed	[White area]																							
Thu	[White area]																							
Fri	[White area]																							
Sat	[White area]																							

Figure 45

Note 3: Left click 0 to 24 area of the timeline to set the recording plan for the same time period of the whole week (As Figure 46).

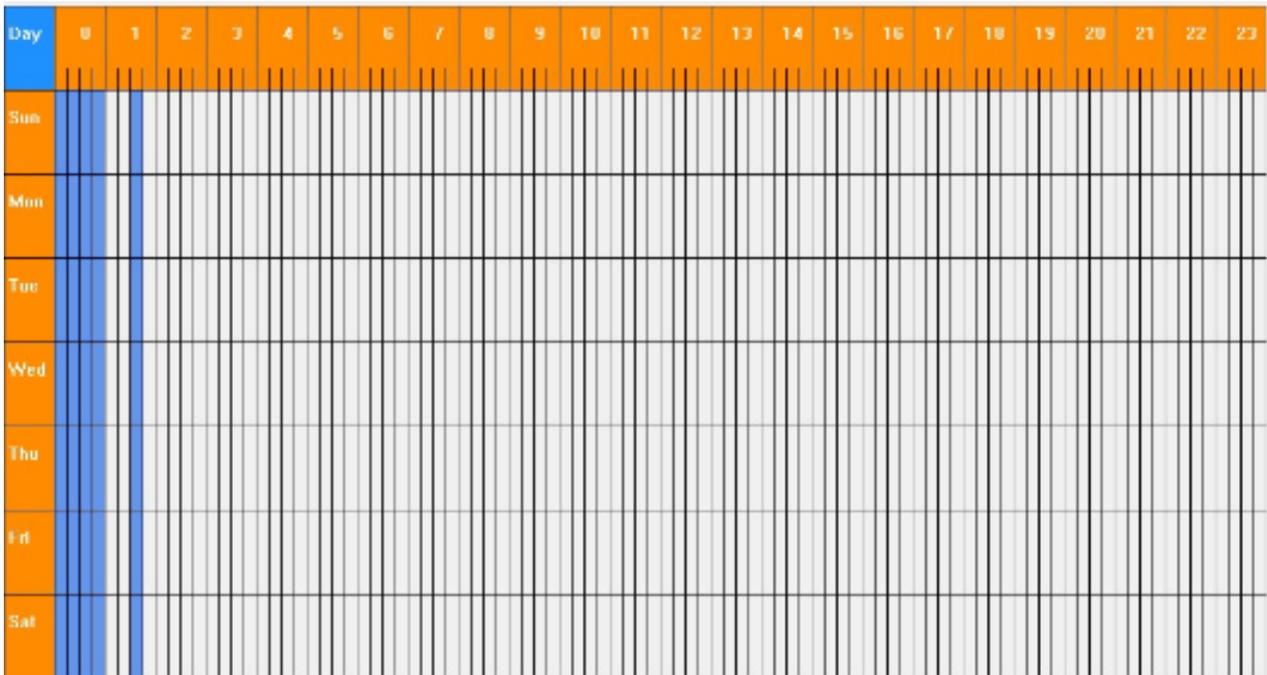


Figure 46

2. Click the device allocated for the recording plan to select, one or more devices can be selected and then click [Save], you will be prompted after recording schedule is successfully saved (As Figure 47).



Figure 47



Note

You can also firstly select the device, and then set recording plan.

3.5.3 Recording Schedule Search

Double click any device from the Device List to check its recording plan.

3.6 Video Playback

3.6.1 Playback Interface

Click  "Playback" to enter into the video playback interface (As Figure 48).

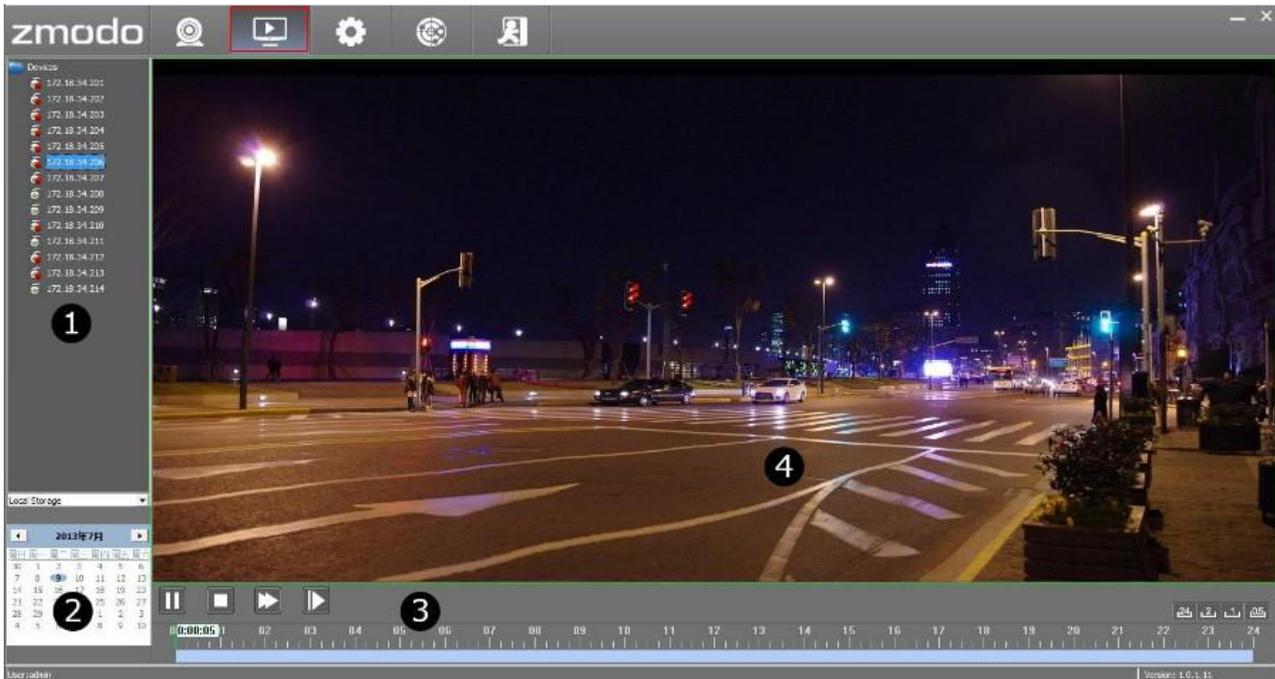


Figure 48

Playback Interface Function

Area No.	Description
	Device list
	Calendar
	Time Bar
	Playback Play Window

3.6.2 Playback Search

Select the device from the list to play back video, and select the specific date from the calendar on the left bottom, then click [▶] (As Figure 49).

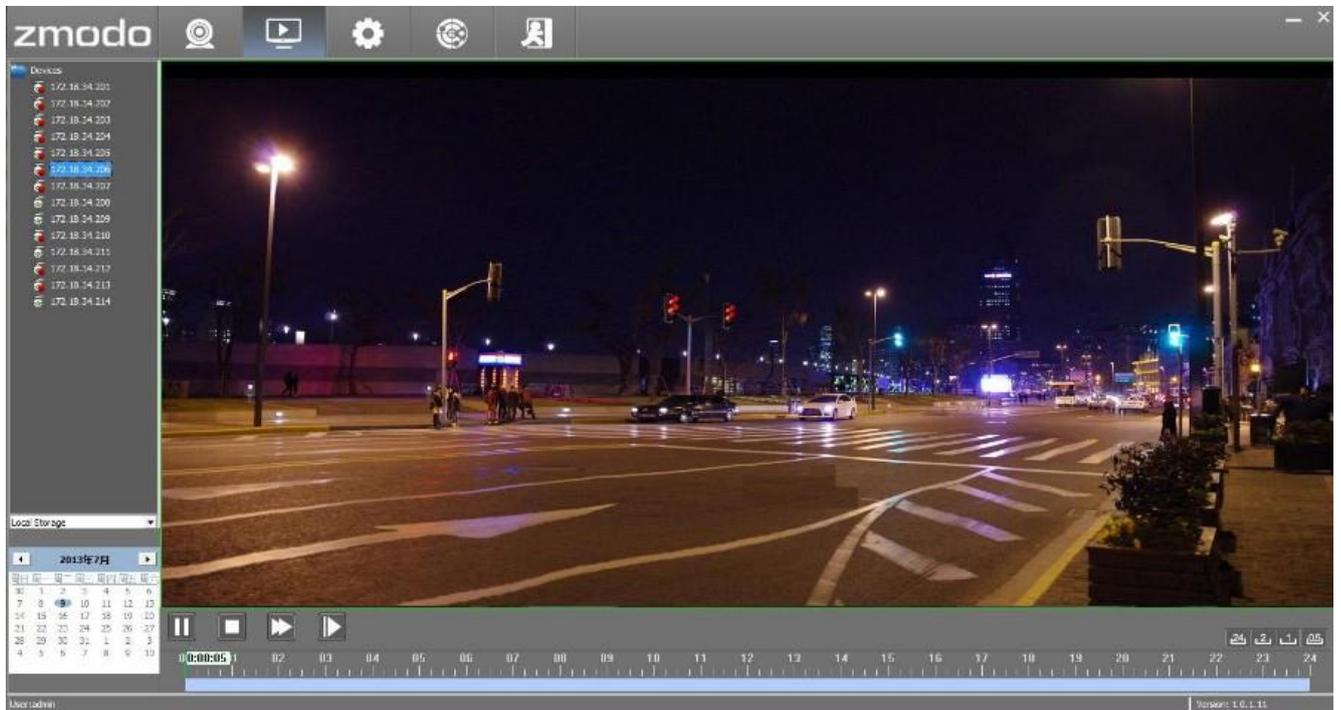


Figure 49



Note

1.  Before a device means that the device is recording.
2. If selected device has video file on the selected date, system will automatically play back the video from the earliest time of the day, and show the playback process on the time bar.
3. Before select another device to play back, please first stop the current video.

3.6.3 Playback Control

Click the  to play/stop/fast forward/slow playback video.

The blue bar means there is a recording in that time period;

The green bar means already played back video;

The grey area means no recording in that time period;

You can drag on the blue time bar to adjust the playback process.



: Control the display accuracy of the play scale.

24-hour display accuracy



2-hour display accuracy



1 hour display accuracy



0.5-hour display accuracy



3.7 User Management

Click [], then click [User Management] to enter into the “User Management” interface (As Figure 50).

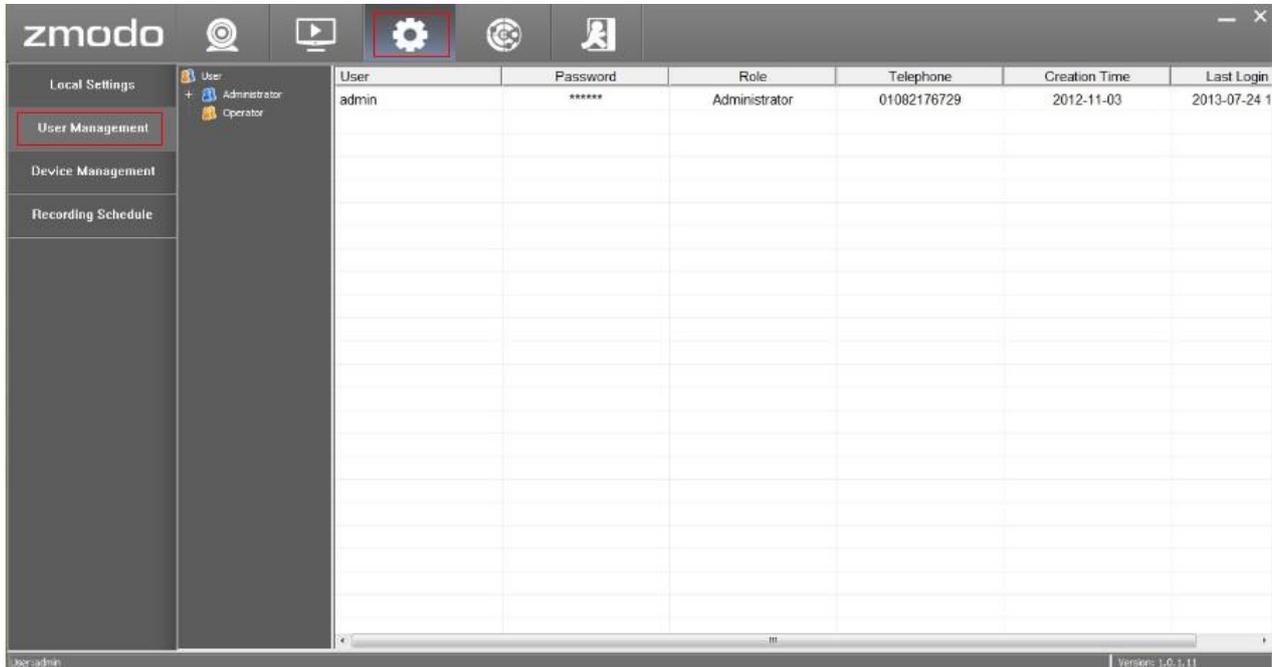


Figure 50

User Type	Authority	Description
Administrator	Add New User	With permission
	Edit User Info	With permission
	Configure Permission	With all permissions by default
Operator	Add New User	No permission
	Edit User Info	No permission
	Configure Permission	No permission

3.7.2 Edit User

1. Right click a user, then click [Edit], this will take you to the “Edit User Info” section (As Figure 53).

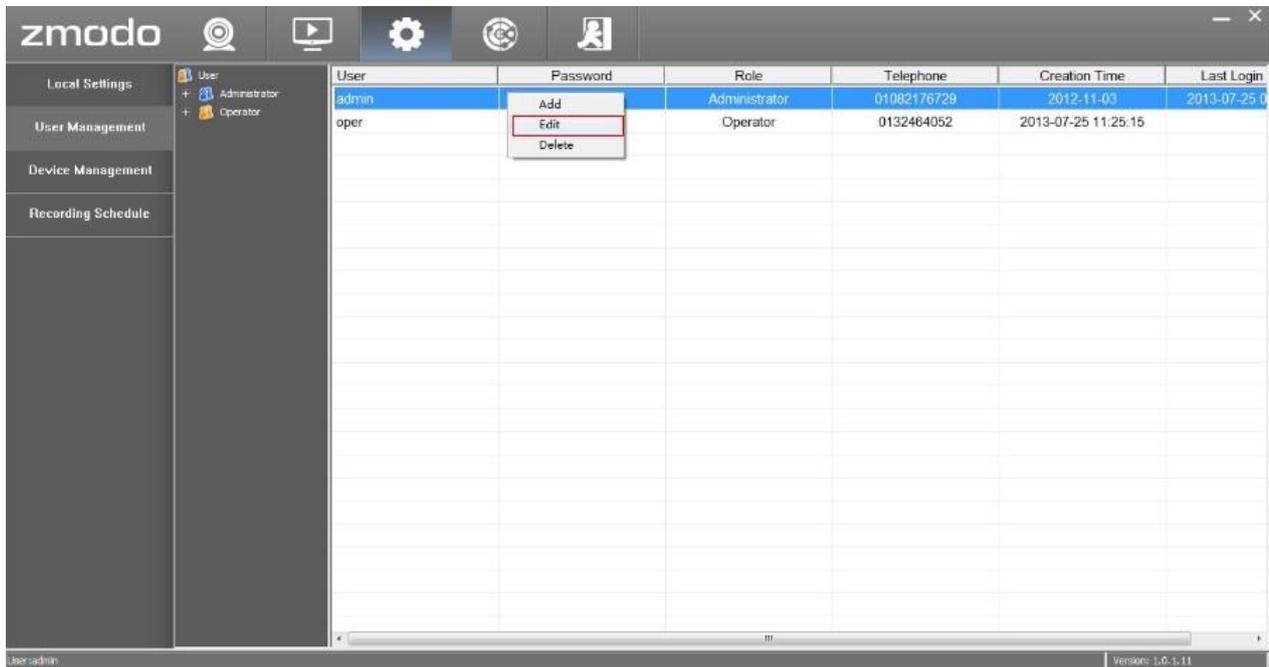


Figure 53

2. Enter user's information (As Figure 54).

The 'Edit User Info' dialog box is shown. It has a title bar with a close button. The form contains the following fields and options:

- Role:** Radio buttons for 'Administrator' (selected) and 'Operator'.
- User Name:** Text input field containing 'admin'.
- Password:** Password input field containing '*****'. Below it is a checkbox labeled 'Display Password' which is unchecked.
- Telephone:** Text input field containing '01082176729'.
- At the bottom are 'Submit' and 'Cancel' buttons.

Figure 54

After editing the info, click the [Submit] button.

3.7.3 Delete User

1. Right click a user, then click [Delete] to delete the user. This will take you to the “Delete User” section (As Figure 55).

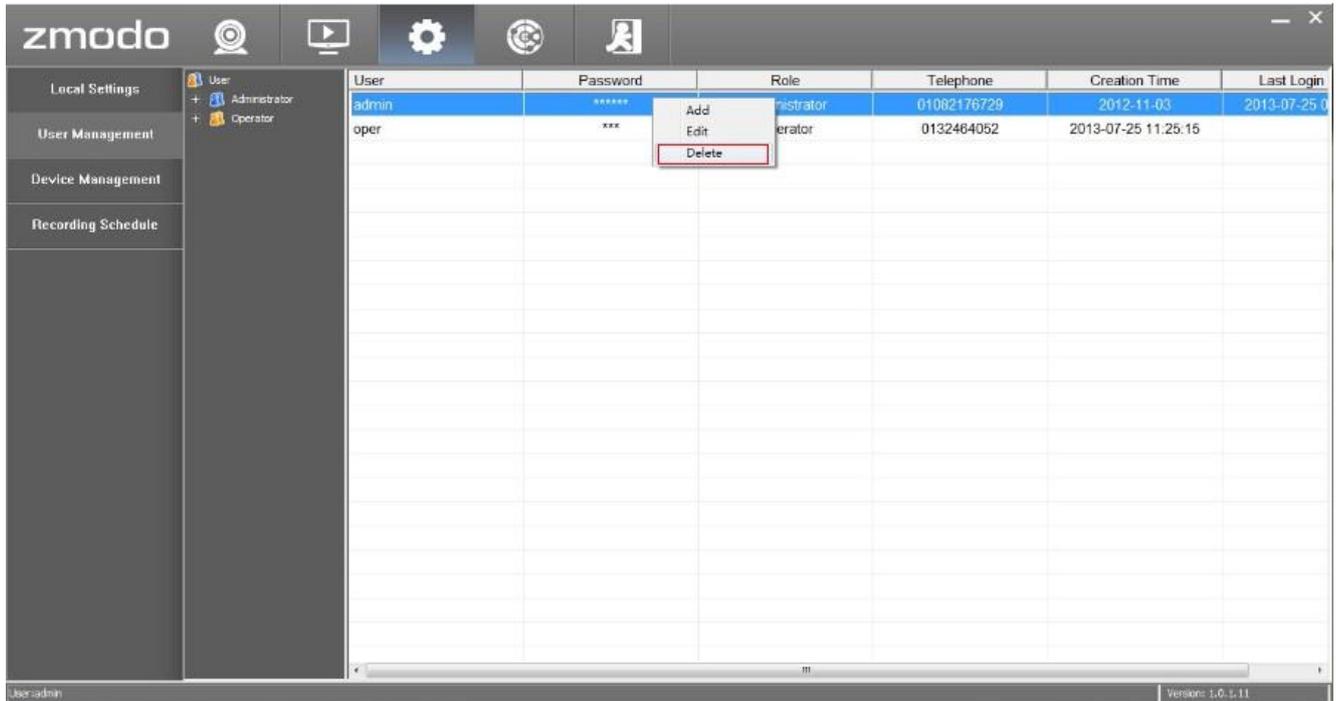


Figure 55

2. Click [Yes] to confirm delete.
Click [No] to cancel delete.

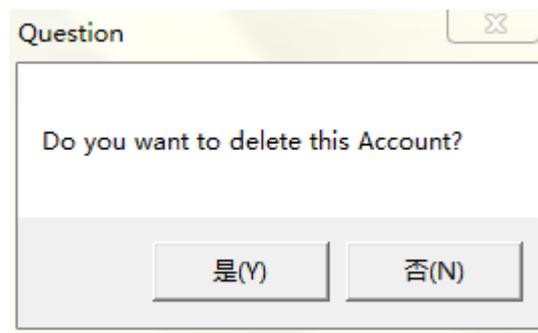


Figure 56



Note

1. “Admin” user is the system default super administrator user and cannot be deleted, but its password can be changed.
2. Super administrator can delete users: select a user and click [Delete] to delete a user.

3.8 Device Settings

Go back to the “Live” interface, right click a device from the Device List, and select “Device Settings” to set device configuration parameters (As Figure 57).



Figure 57

3.8.1 System Information

Such information as device name, software and hardware version information and network connection status will be displayed on the interface (As Figure 58).

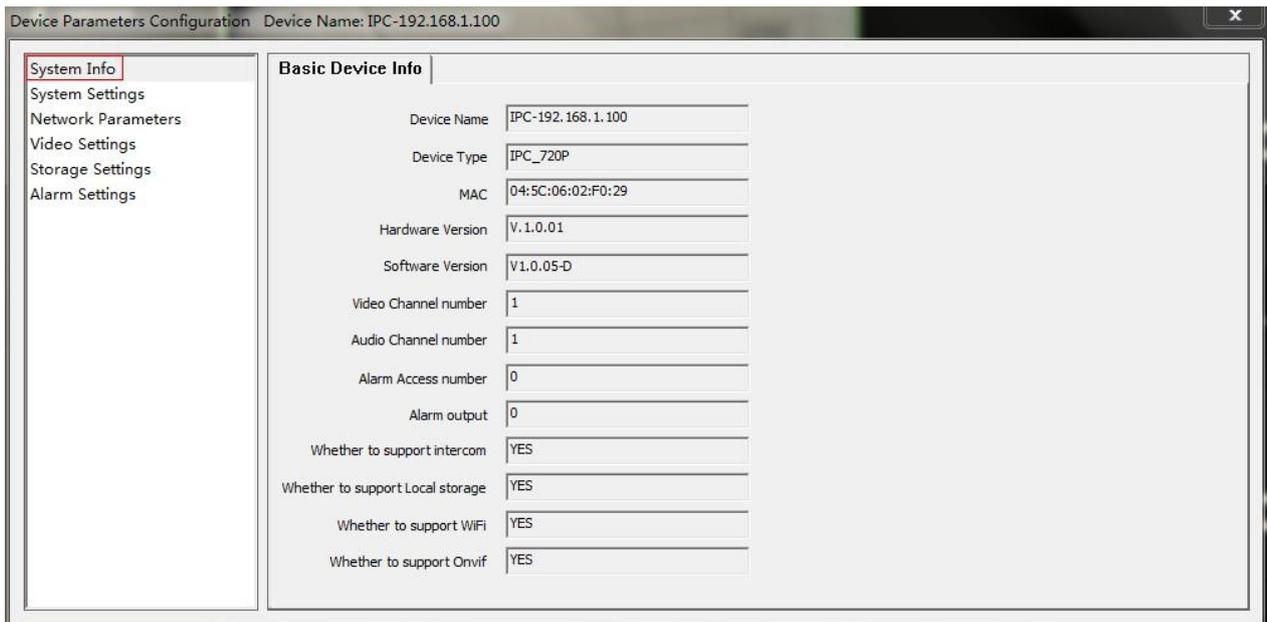


Figure 58

3.8.2.3 Upgrade Device Firmware (As Figure 61)

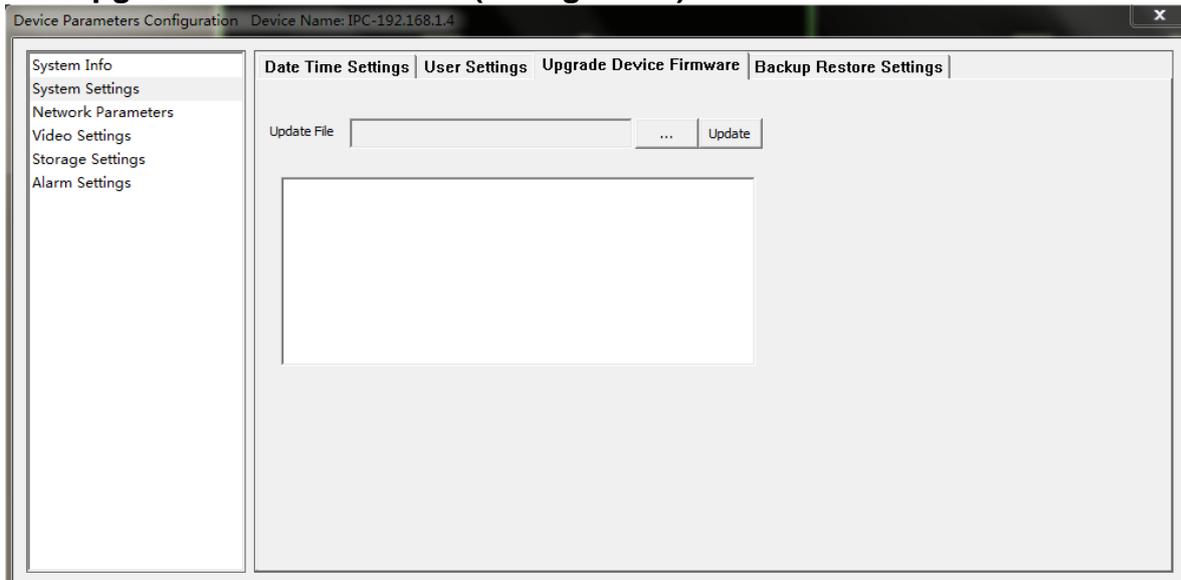


Figure 61

Click [Update Device Firmware], select the to-be-updated file, and click [Update].

3.8.2.4 Backup Restore Settings (As Figure 62)

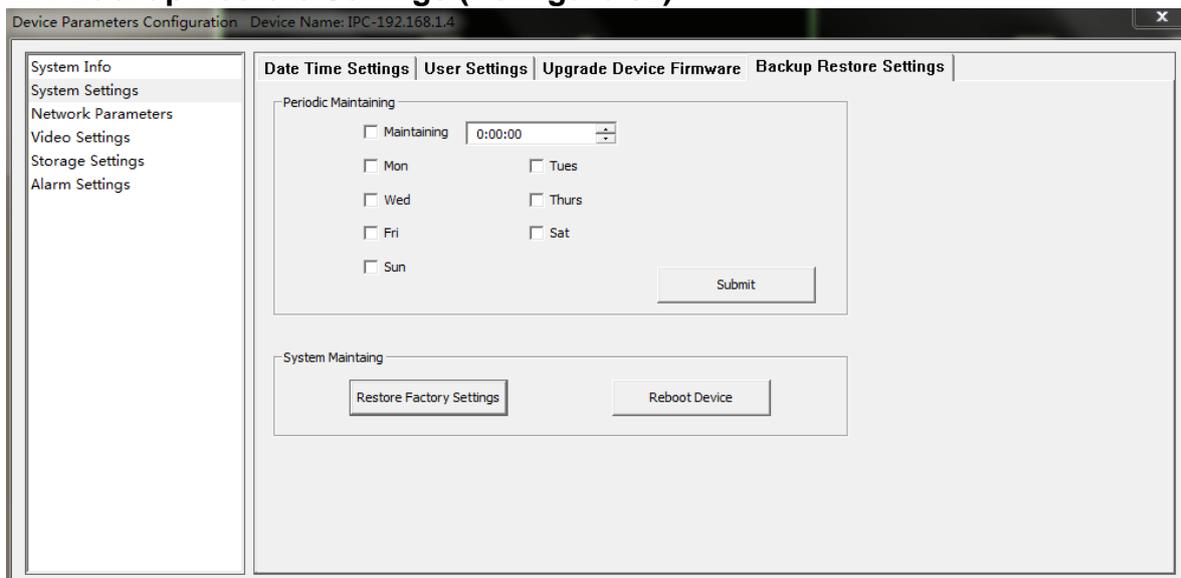


Figure 62

[Periodic Maintaining] Choose any time of any day and set the time for auto reboot, and click [Submit].

[Restore Factory Setting] Click it to make all settings restore to factory condition.

[Reboot Device] Click it to reset device.

[Backup & Restore] Device backup and recovery.

3.8.3 Network Parameters Settings

3.8.3.1 Basic Network (As Figure 63)

The screenshot shows a web-based configuration interface for an IP camera. The window title is "Device Parameters Configuration Device Name: IPC-192.168.1.4". On the left is a navigation menu with options: System Info, System Settings, Network Parameters (selected), Video Settings, Storage Settings, and Alarm Settings. The main area has several tabs: Basic Network, Wireless, Port, PPPoE, UPnp, Email, FTP, and DDNS. The "Basic Network" tab is active, displaying the following settings:

- DHCP:
- IP Addr: 192 . 168 . 1 . 150
- Subnet Mask: 255 . 255 . 255 . 0
- Gateway: 192 . 168 . 1 . 1
- MAC: 04:5C:06:02:90:30
- Preferred DNS Addr: 202 . 96 . 134 . 133
- Alternate DNS Addr: 8 . 8 . 8 . 8

A "Submit" button is located at the bottom center of the configuration area.

Figure 63

[DHCP] Start the DHCP function of the router, then the IP camera will obtain an address automatically from the router.

[IP Address] Set IP camera's IP address.

[Subnet Mask] Default is 255.255.255.0 (It is recommended to not change the Subnet Mask)

[Gateway] Set IP camera's gateway IP, for example if IP camera access public network through a router, the gateway IP needs to be set as the router's IP which has accessed the public network.

[MAC Address] Set IP camera's MAC address (It is recommended to not change the MAC address.)

[Preferred DNS] If the user has a DDNS account, the DNS address needs to be set to the DNS address of the place to which the device is assigned to in the DNS account.

[Alternate DNS] Backup DNS address (It is recommended to not change the Alternate DNS.)

After setting all the parameters, click the **[Submit]** button.

3.8.3.2 Wireless (As Figure 64)



Note : Only for Wi-Fi IP Cameras.

Hotspot name	Connection status	Hotspot signal ...	Encrypt
TP-LINK_alan	Disconnected	78%	Encrypted
CMCC-AUTO	Disconnected	72%	Encrypted
zmodooem	Disconnected	78%	Encrypted
CMCC	Disconnected	73%	Unencrypted
TP-LINK_C8FB9C	Disconnected	73%	Unencrypted

Figure 64

[Whether to use Wi-Fi] Select to enable the IP camera wireless network function.

[Whether to use DHCP] If the router enables DHCP function, select it and the IP camera will automatically obtain address from router.

[IP Addr] Set IP camera's wireless IP address.

[Subnet mask] Default is 255.255.255.0 (It is recommended to not change the Subnet mask.)

[Gateway] Set the gateway IP of IPC. For example, if the IP Camera accesses a public network through the router, the gateway IP needs to be the same as the router's IP Address.

[MAC] The MAC address of the IP camera (It is recommended to not change the MAC address.)

[Main DNS Server] If the user has a DDNS account, the DNS address needs to be set to the DNS address of the place to which the device is assigned to in the DNS account.

[Minor DNS Server] Backup DNS address (It is recommended to not change the Minor DNS.)

[Hotspot Search Results] After enabling Wi-Fi, the camera will automatically search for wireless networks in the area. When the camera is searching for a wireless network, you will see the following information listed: the name of the wireless router, signal intensity, and the encryption type. Click "Add" or double-click an existing hotspot to open the "WIFI Hotspot Setting" dialog box. You can select a hotspot from the auto search list or manually add one (As Figure 65)

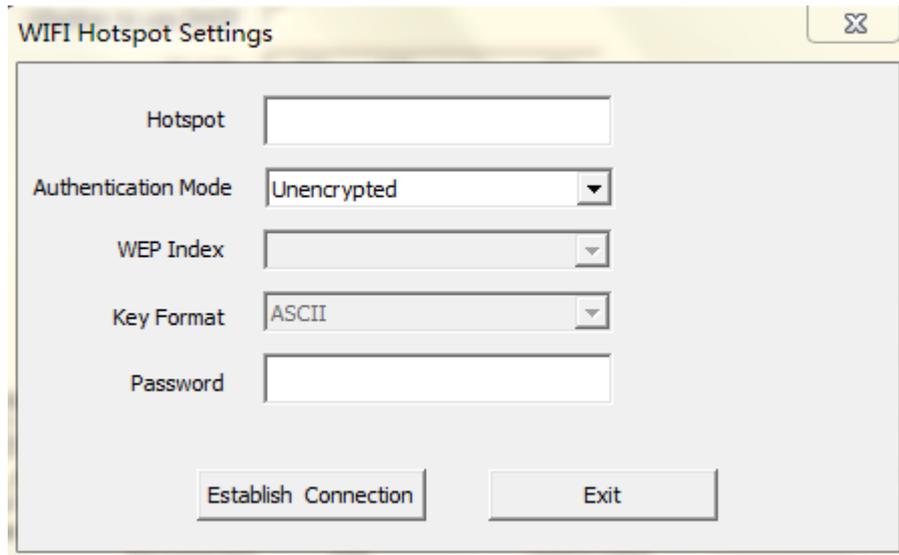


Figure 65

[Hotspot] Refers to SSID, which is the login name of wireless network for authentication, it must be consistent with the SSID of the wireless gateway (router/AP). (Such as: TP-LINK_4A2DDC).

[Authentication Mode] Which can be selected from the following five encryption methods: Unencrypted, WEP Encrypted, WPA PSK Encrypted, WPA 2 PSK Encrypted, WPA PSK + WPA2 PSK Encrypted? This setting must be consistent with the security type of wireless gateway (router /AP).

Note: Router's wireless authentication mode cannot be set WEP Encrypted.

[Password] Refers to the authentication password of wireless network, this setting must be consistent with the security type of wireless gateway (router /AP).

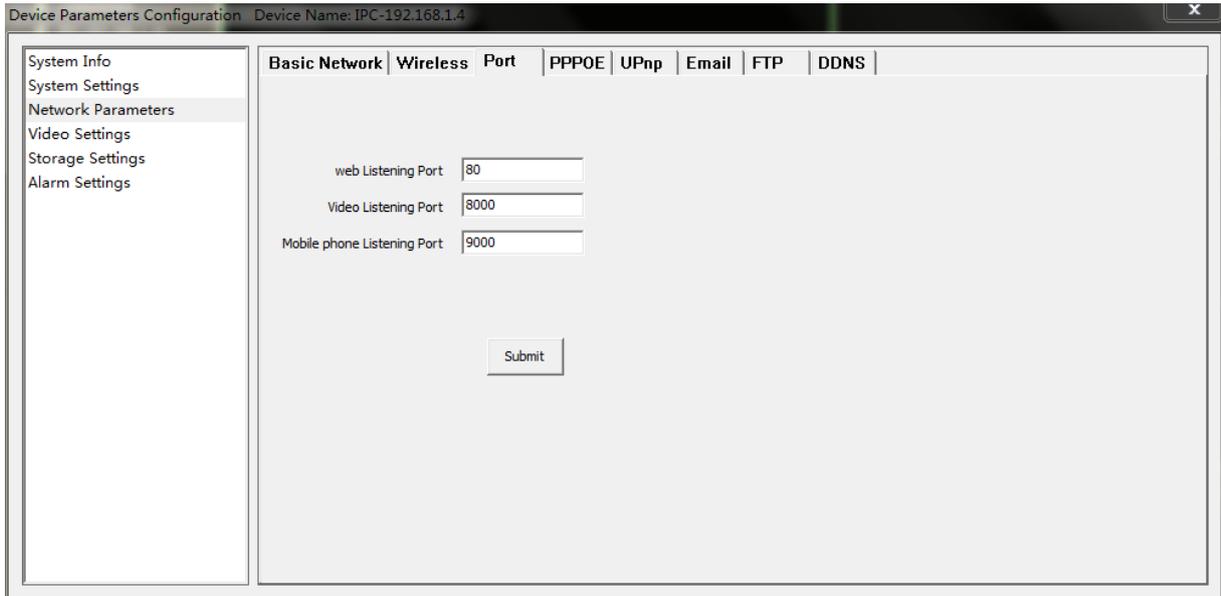
Click [Establish Connection] to establish a connection with the wireless network. You will be presented with a success or a failure message with the result of this connection.

If connected, "Connected" will appear after hotspot name; if not, please click [Refresh Hotspot] to refresh connection status or click this button to search device again.

After setting all the parameters, click the [Submit] button.

Now unplug the cable to enable the IP camera wireless access through a wireless network.

3.8.3.3 Port (As Figure 66)



The screenshot shows the 'Device Parameters Configuration' window for device 'IPC-192.168.1.4'. The 'Port' tab is selected, showing three input fields: 'web Listening Port' with the value '80', 'Video Listening Port' with the value '8000', and 'Mobile phone Listening Port' with the value '9000'. A 'Submit' button is located at the bottom center of the configuration area. The left sidebar contains a menu with 'Network Parameters' highlighted.

Figure 66

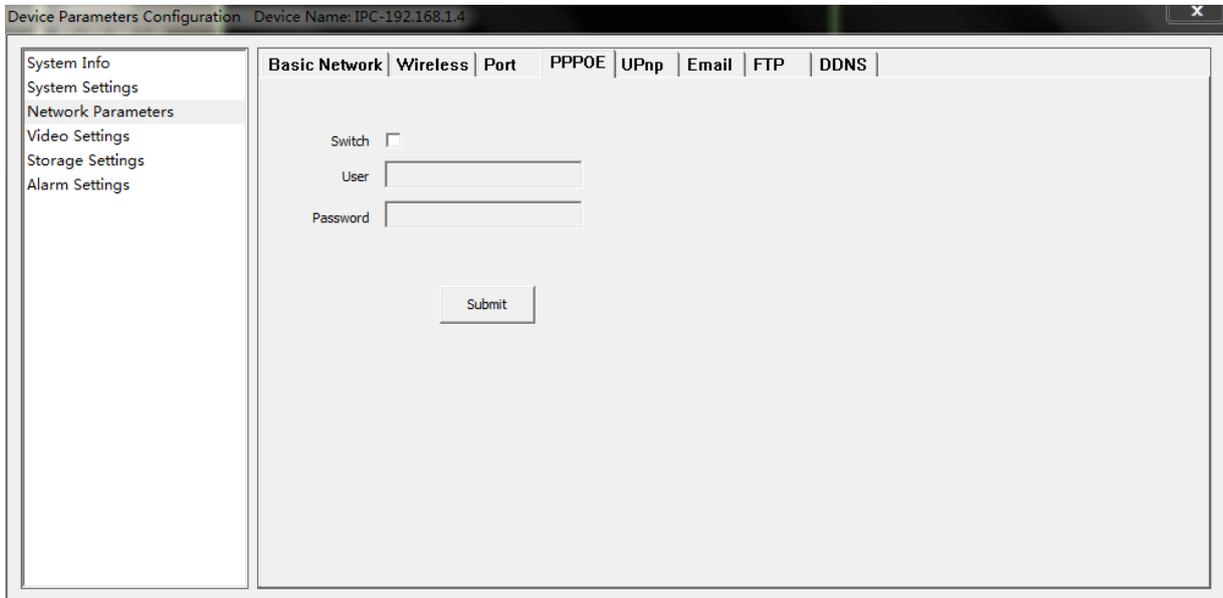
[Web Listening Port] Default value is 80

[Video Listening Port] Default value is 8000

[Mobile Phone Listening Port] Default value is 9000

After setting all the parameters, click the **[Submit]** button.

3.8.3.4 PPPOE (As Figure 67)



The screenshot shows the 'Device Parameters Configuration' window for device 'IPC-192.168.1.4'. The 'PPPOE' tab is selected, showing a 'Switch' checkbox (unchecked), and two input fields for 'User' and 'Password'. A 'Submit' button is located at the bottom center of the configuration area. The left sidebar contains a menu with 'Network Parameters' highlighted.

Figure 67

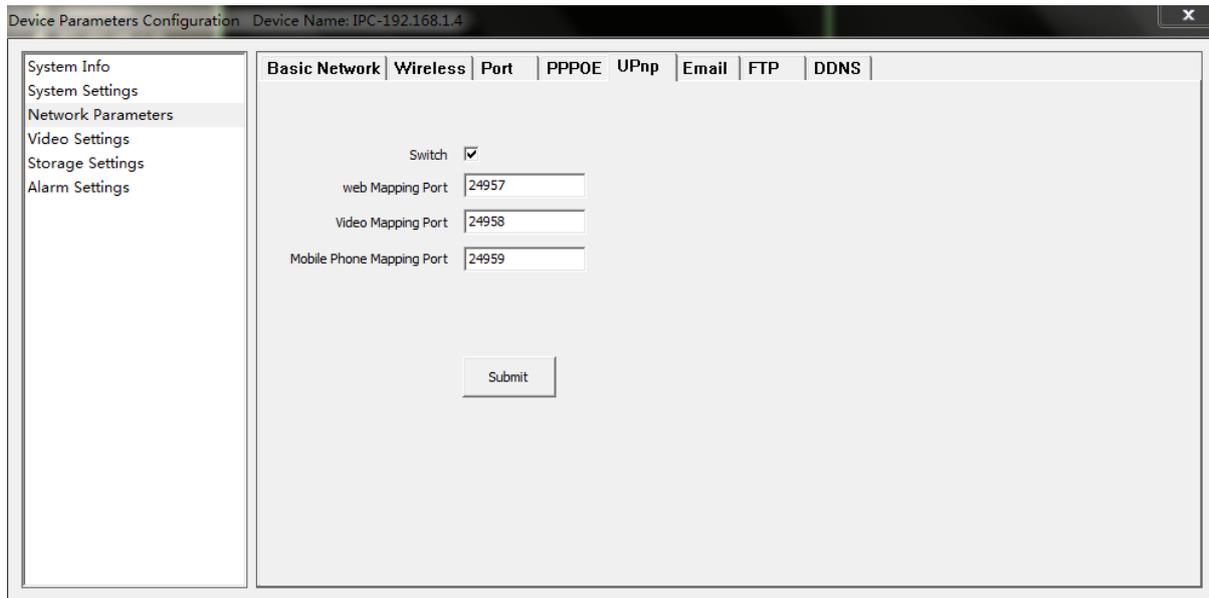
[Switch] Enable or disable the PPPoE dial-up function.

[User] Obtained from Internet service providers.

[Password] Obtained from Internet service providers.

After setting all the parameters, click the **[Submit]** button.

3.8.3.5 UPnP (As Figure 68)



The screenshot shows a web-based configuration interface for a device named 'IPC-192.168.1.4'. The interface has a sidebar on the left with a menu containing 'System Info', 'System Settings', 'Network Parameters' (which is highlighted), 'Video Settings', 'Storage Settings', and 'Alarm Settings'. The main content area is titled 'UPnP' and contains the following settings:

- Switch:** A checkbox that is checked.
- web Mapping Port:** A text input field containing the value '24957'.
- Video Mapping Port:** A text input field containing the value '24958'.
- Mobile Phone Mapping Port:** A text input field containing the value '24959'.

At the bottom of the main content area, there is a 'Submit' button.

Figure 68

[Switch] It has server with UPNP function in LAN. Enable this function, the server will automatically forward the set port to public network.

[Web Mapping Port] Set the web port which will be mapping to the server.

[Video Mapping Port] Set the digital video port which will be mapping to the server.

[Phone Mapping Port] Set the mobile phone port which will be mapping to the server.

After setting all the parameters, click the **[Submit]** button.

3.8.3.6 E-mail (As Figure 69)

Figure 69

This is used to set up the e-mail address and related parameter of the alarm e-mail features. This function is available when IP Camera connects to Internet, and Receive & Send E-mail Addresses shall enable SMTP Protocol.

[SMTP Server] This is the sender e-mail server address. This address varies by e-mail providers. For example, the SMTP server for Gmail is: smtp.gmail.com

[E-mail receiving address] The e-mail address that will receive the e-mail.

[E-mail sending address] The e-mail address that the message will be coming from.

[SMTP password] The login password for sending e-mail address.

[E-mail title] This is the title of the e-mail that will be sent.

[SMTP Port] This is the SMTP port as specified by your e-mail provider. For example, the SMTP port for Gmail is 465, and SSL needs to be on.

[SSL] Most E-mail server has 465 or 25 port. For 465 port, please select SSL; while not for 25 port. For example, Gmail Server has 465 port, shall enable SSL.

After setting all the parameters, click the **[Submit]** button.



Note

Common e-mail server configurations:

▲ Gmail E-mail Server

SMTP Server: smtp.gmail.com
SMTP User name:username@gmail.com
SMTP Port: 465
SSL: Enabled

▲ Yahoo E-mail Server

SMTP Server: smtp.mail.yahoo.com
SMTP Username: username@yahoo.com or username@yahoo.com.cn
SMTP Port: 465
SSL: Enabled

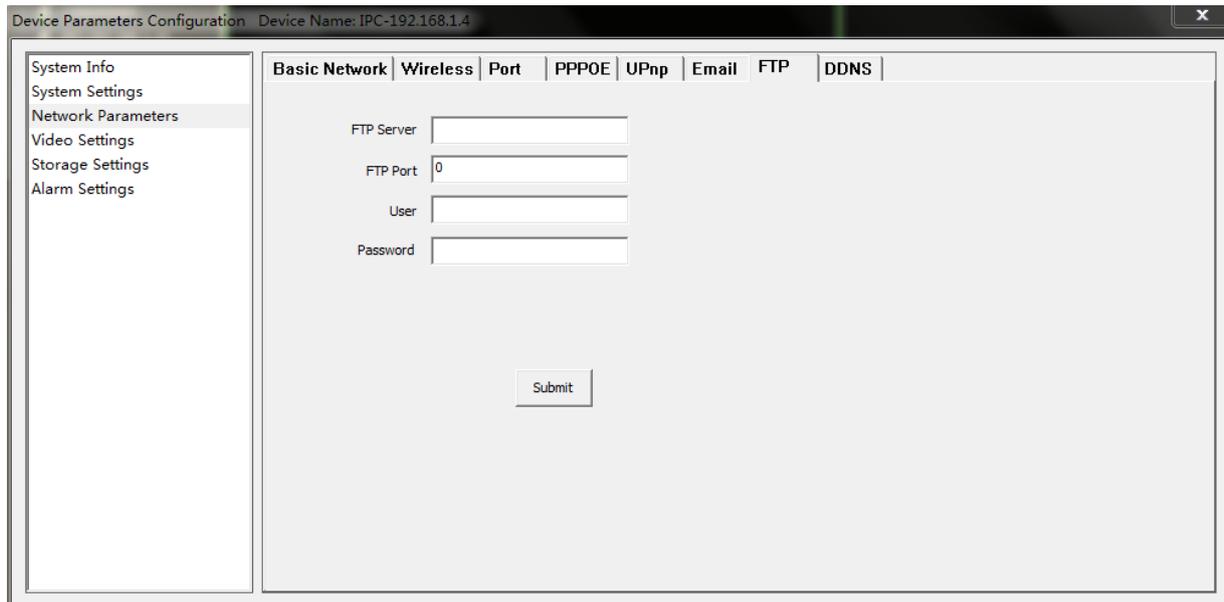
▲ 163 E-mail Server

SMTP Server: smtp.163.com
SMTP Username: username
SMTP Port: 25
SSL: Disabled

▲ 126 E-mail Server

SMTP Server: smtp.126.com
SMTP Username: username
SMTP Port: 25
SSL: Disabled

3.8.3.7 FTP (As Figure 70)



The screenshot shows a web-based configuration interface for a device. The title bar reads "Device Parameters Configuration" and "Device Name: IPC-192.168.1.4". On the left, there is a sidebar menu with the following items: System Info, System Settings, Network Parameters (highlighted), Video Settings, Storage Settings, and Alarm Settings. The main content area has several tabs: Basic Network, Wireless, Port, PPPoE, UPnp, Email, FTP (selected), and DDNS. Under the FTP tab, there are four input fields: "FTP Server" (empty), "FTP Port" (containing "0"), "User" (empty), and "Password" (empty). A "Submit" button is located at the bottom center of the main area.

Figure 70

FTP services will send the alarm triggered recording file or captured photo via FTP to certain FTP server.

[FTP server] IP address or HTTP network address of FTP server.

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

[FTP user name and password] User name and password of FTP Server.

After setting all the parameters, click the **[Submit]** button.

3.8.3.8 DDNS (As Figure 71)

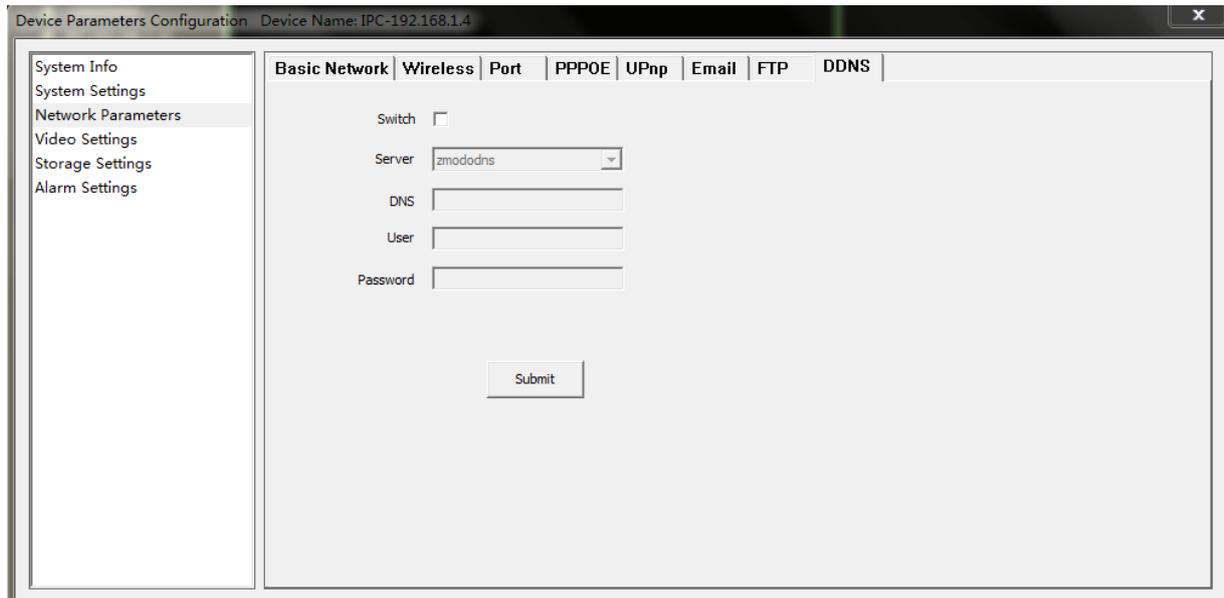


Figure 71

DDNS allows you to link a hostname to your dynamic IP address. This way when your IP address changes, you will not lose network connection.

[Switch] Enable or disable the DDNS function.

[Server] Set DDNS's server (3322.org, dynDNS.org, 88ip, noip or zmododns). It is highly recommended to select "zmododns", as this DNS service is operated and maintained by Zmodo.

[DNS] The device domain which is set by user, such as mydvr.zmododns.com.

[User] The user name which you registered on DDNS server.

[Password] The password which you registered on DDNS server.

After setting all the parameters, click the **[Submit]** button.

3.8.4 Video Settings

3.8.4.1 Encoder Settings (As Figure 72)

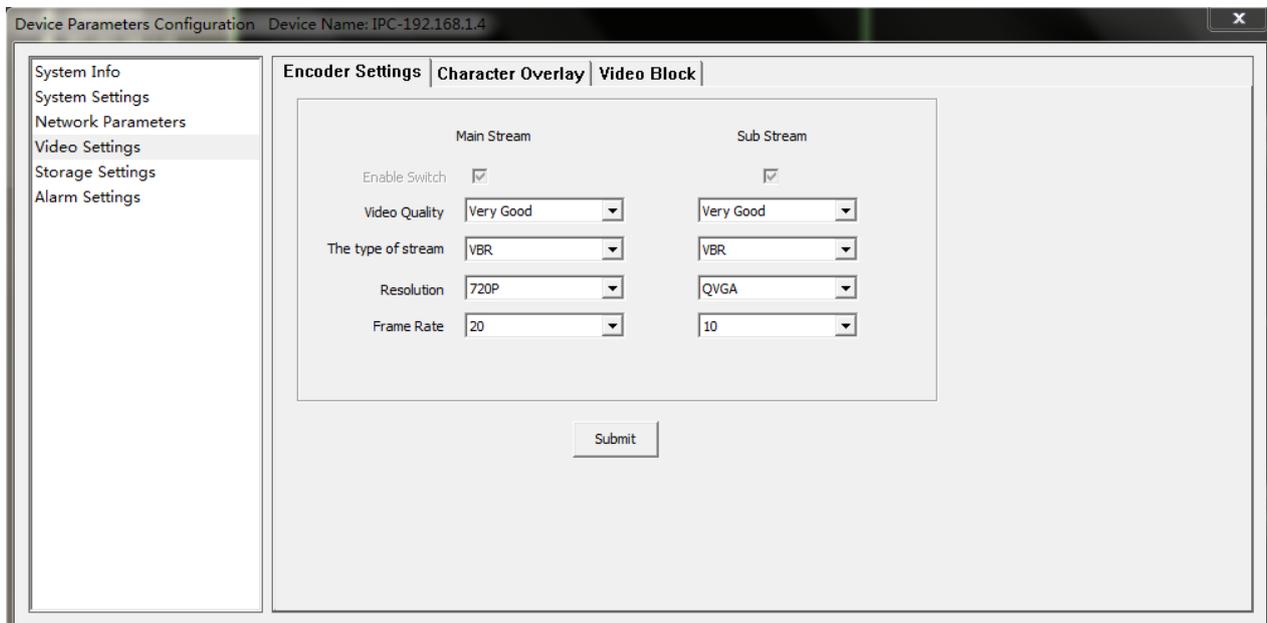


Figure 72

[Video Quality] User can choose suitable image quality per need: best, very good, good, general, or poor.

[Stream Type] Two types: CBR (Constant bit rate) and VBR (Variable bit rate) to choose, CBR applies constant bit rate coding, VBR applies variable bit rate coding.

[Resolution] System will automatically identify main stream and sub stream's resolution.

[Frame rate] Set coding frame rate per second. Under less than ideal network situations, you can reduce the frame rate to control the coding bit rate, this will ensure the moving footage is smooth.

After setting all the parameters, click the **[Submit]** button.

3.8.4.2 Character Overlay (As Figure 73)

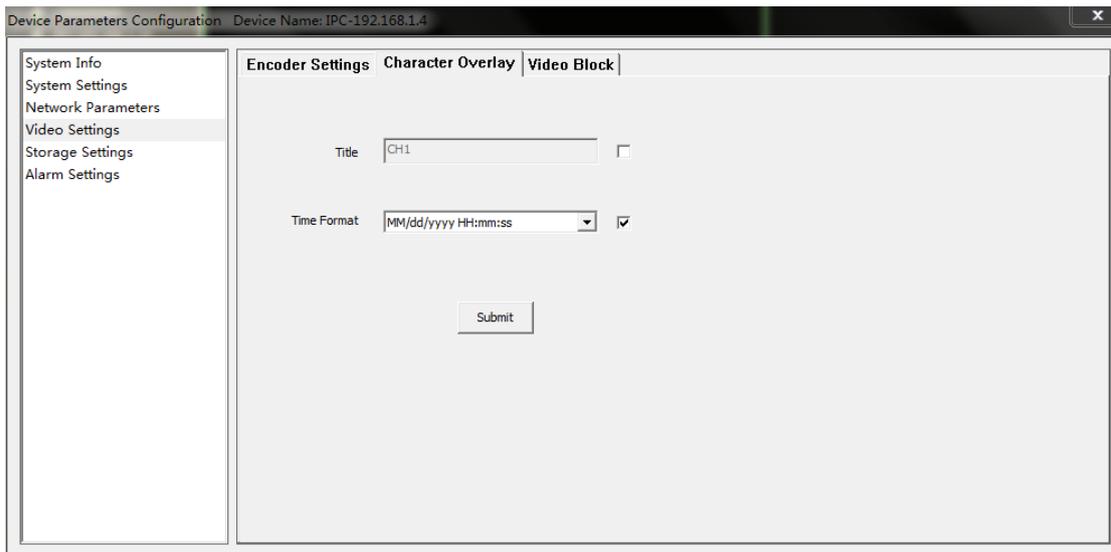


Figure 73

[Title] Name of video channel will be shown on the up left of the image, maximum 16 characters.

[Time format] You can choose whether to display title, date and time, and choose the time format.

After setting all the parameters, click the **[Submit]** button.

3.8.4.3 Video Block (As Figure 74)

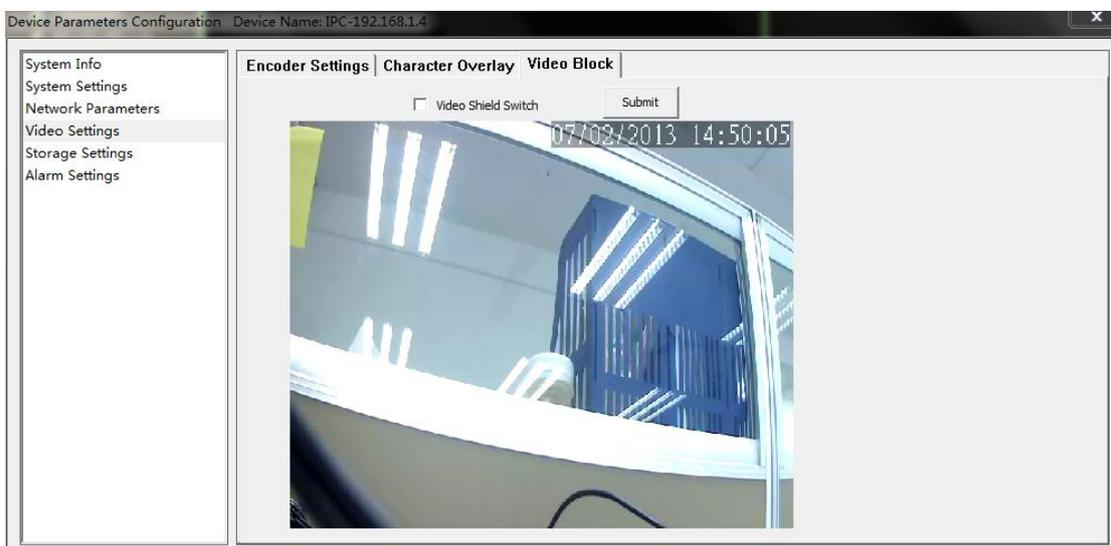


Figure 74

[Video Shield Switch] Enable or disable the video shield function.

User can set the image mask area by clicking and dragging the window or cancel the shield area by right click the mouse. You can choose to shield the entire image, or only shield part of the image. It can mask up to four separate areas.

3.8.5 Storage Settings

3.8.5.1 Storage Management (As Figure 75)

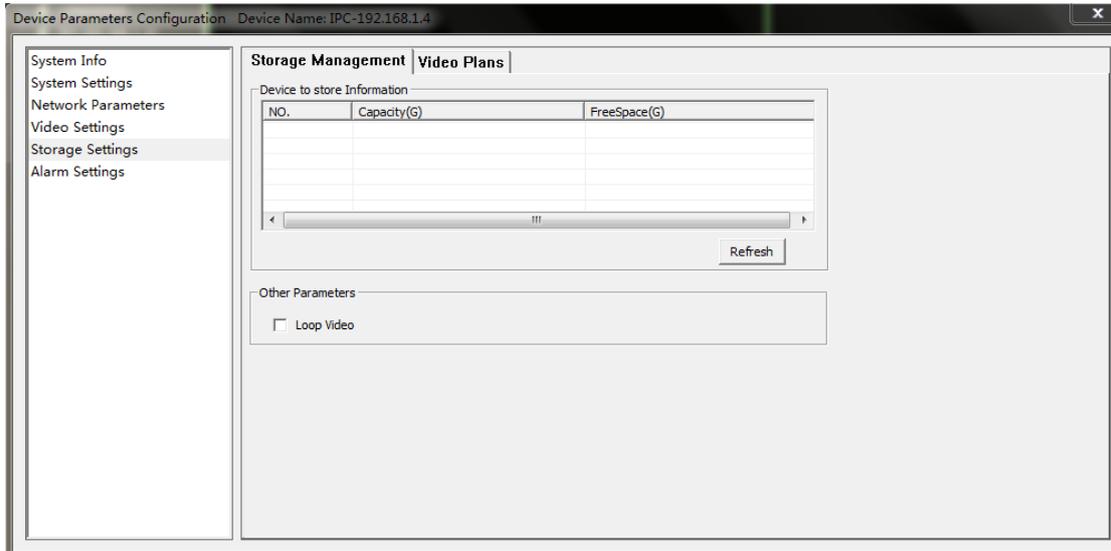


Figure 75

You can view the total disk capacity and the remaining space, and set loop video.

3.8.5.2 Video Plans (As Figure 76)

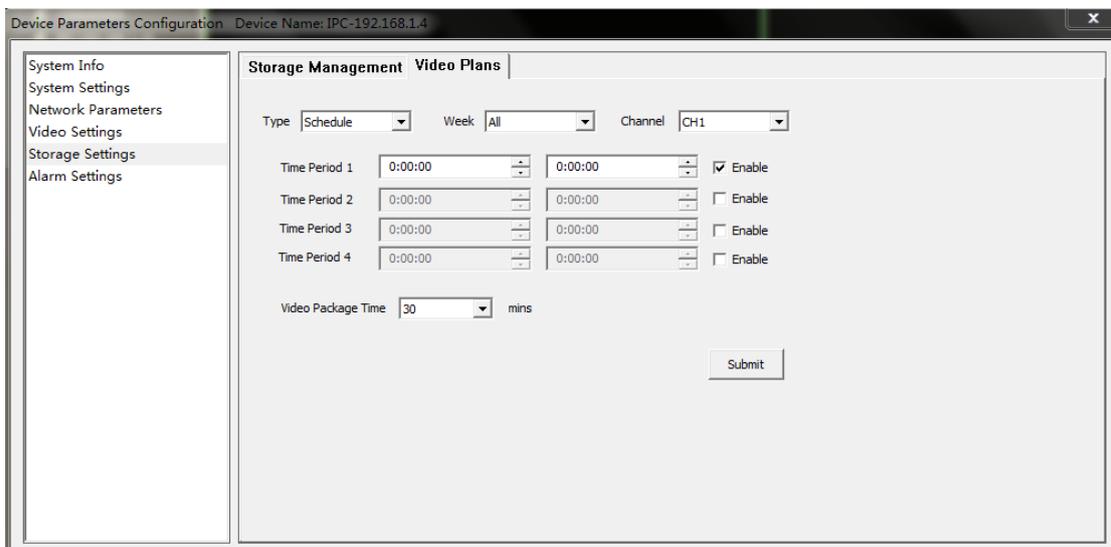


Figure 76

[Appointment Setting] Set time of timed video recording, can be set to everyday specific video time, up to 4 time period.

[Video Package Time] Can set a single file recording time as 15, 30, 45 or 60 minutes (breaks long recordings into smaller files)

[Other settings] Before recording, choose video type as timing recording or alarm recording; choose to record any day of a week or record every day of the week; choose a single channel or all channels. After setting all the parameters, click the **[Submit]** button.

3.8.6 Alarm Settings

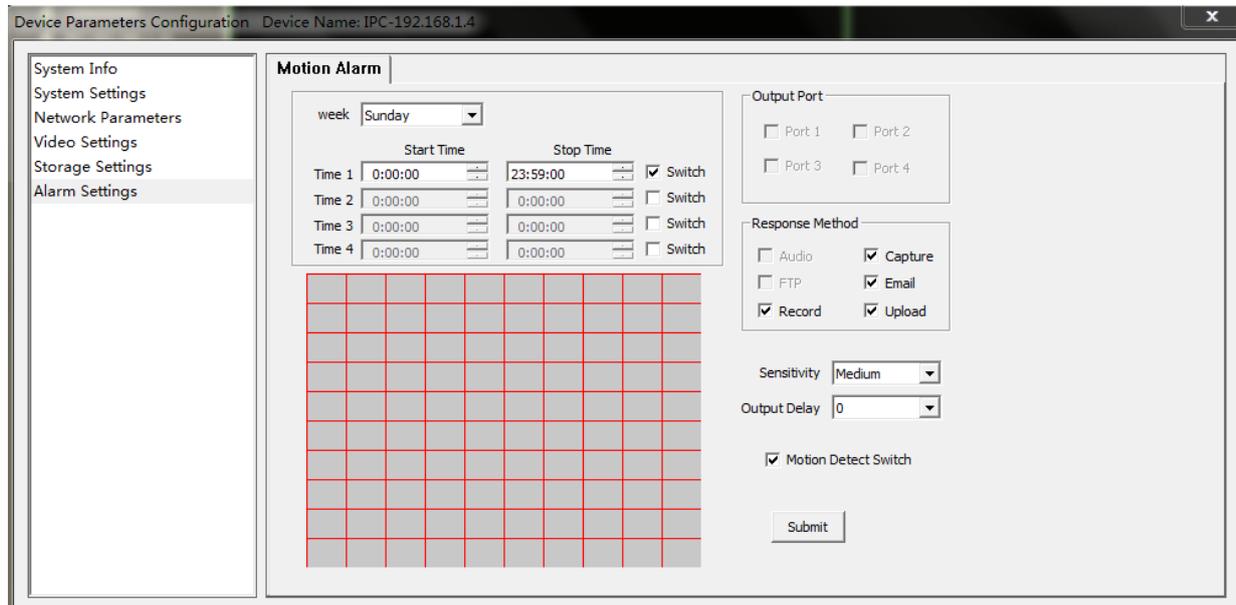


Figure 77

[Protection Time Setting] Set the time of motion detection. It can set detailed time periode of everyday, up to four different time periods.

[Motion Detection Switch] Set whether to edit the mobile area or open the motion detection.

[Motion Detection Setting] After enable motion detection switch, the setting interface will appear grid line. User only needs to right click the little cube on the image to set the motion detection area. Double click the little cube to cancel related area detection.

[Alarm Action Mode] Set linkage output format after triggered alarm. Sound alarm or sending email can be selected. Sending email is sending motion detection alarm information via email to user.

[Sensitivity] The sensitivity of motion detection includes four levels: highest, high, medium, and low.

[Output Delay] Set delay time of alarm linkage, time range is limited between 0~30s.

After setting all the parameters, click the **[Submit]** button.

Chapter 4 Access to IP camera on Internet Explorer

4.1 Log In

When using IE (Internet Explorer) to view the IP Camera for the first time, you will have to set the security level for ActiveX controls.

4.1.1 Set Security Levels

Open Internet Explorer, enter the IE Tools menu and go to Tools -->Internet Options ---->Security Settings ---->Custom Level. Find the item titled “Download unsigned ActiveX Controls” and change it to “Prompt.” Also change “Initialize and script ActiveX controls not marked as safe for scripting” to “Prompt” (As Figure1).

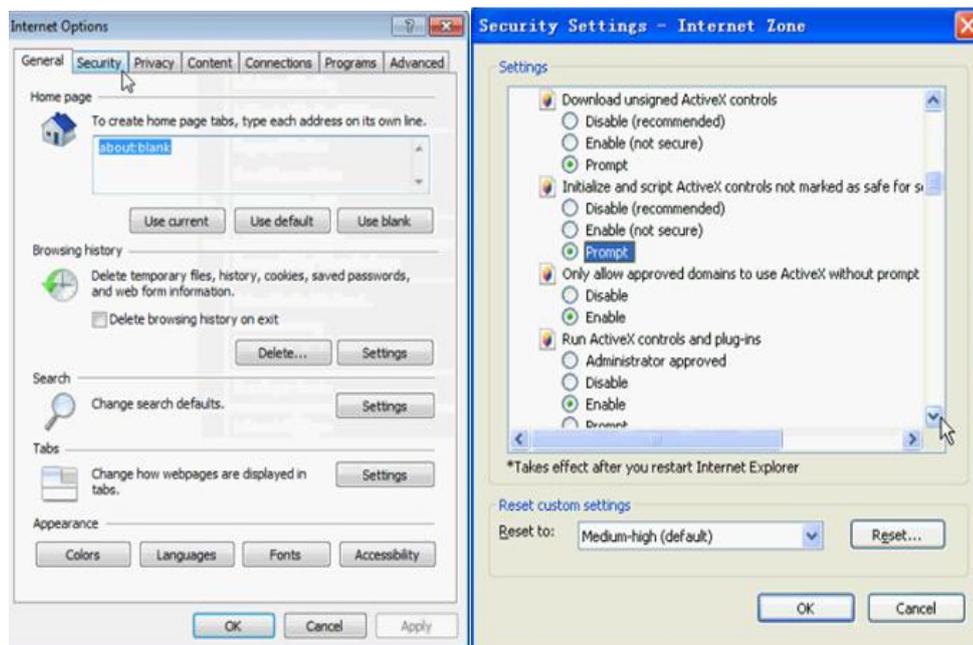


Figure 1

Install ActiveX and plugins: Type IP Camera' IP address (searched by IPCSearch, please check out **Section 4.1.2** for more information on IPCSearch) in the IE browser address bar, and press [Enter] to bring up a dialog box to install ActiveX. Click [Allow] to install. Please check out Section 4.1.4 for more information.



Note

Do not use Internet Explorer 64-Bit to access the cameras. The ActiveX control is only compatible with the 32-Bit version of Internet Explorer.

4.1.2 Network Configuration

In order to login and view your IP Camera from Internet Explorer, you will need to first find out the IP Address Segment, Default Gateway, and Subnet Mask of your computer.

To find out the IP Address Segment, Default Gateway, and Subnet Mask, you will need to open the command prompt from a Windows PC that is connected to the same router that your IP Camera will be connected to.

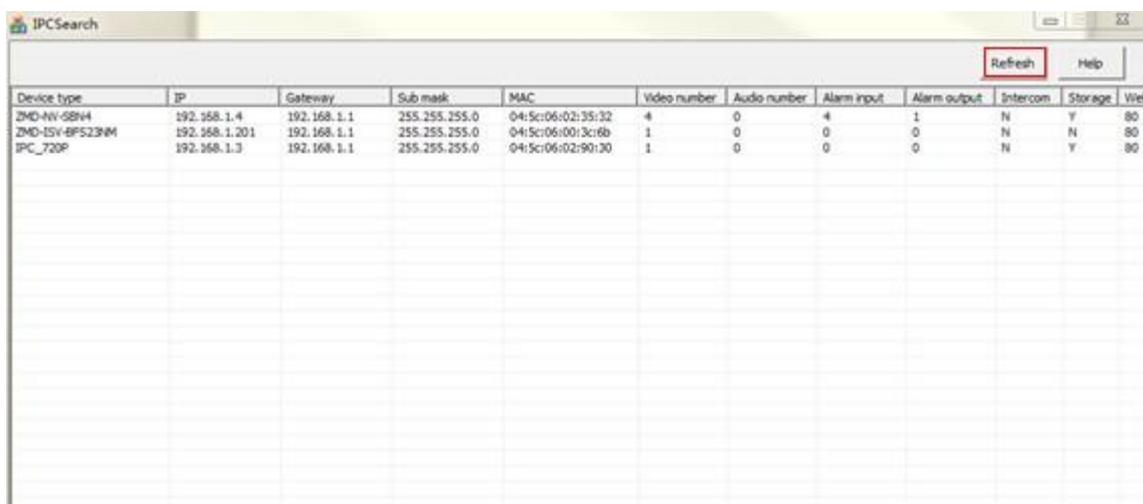
To open a Command Prompt, press the Windows Key and R at the same time on your keyboard. Type "cmd" in the run line and press "Enter."

In the new window that appears, type "ipconfig" then press "Enter." Make note of your IPv4 Address, Subnet Mask, and Default Gateway. You will need this information later.

Open the program called **IPCSearch**

(Download from <http://www.zmodo.com/support-software/>)

Click the [Refresh] button on the upper right side of the IPCSearch program. Your IP Camera should appear in the list of items, if your IP Camera is successfully connected to the same router as your PC is connected to (As Figure 2).



Device type	IP	Gateway	Sub mask	MAC	Video number	Audio number	Alarm input	Alarm output	Intercom	Storage	View
ZMD-NV-88H4	192.168.1.4	192.168.1.1	255.255.255.0	04:5c:06:02:35:32	4	0	4	1	N	Y	80
ZMD-5V-BF523HM	192.168.1.201	192.168.1.1	255.255.255.0	04:5c:06:00:3c:6b	1	0	0	0	N	N	80
IPC_720P	192.168.1.3	192.168.1.1	255.255.255.0	04:5c:06:02:90:10	1	0	0	0	N	Y	80

Figure 2

Double-Click on your IP Camera in the IPC Search program, and you will have the option to change some of the network settings (As Figure 3).

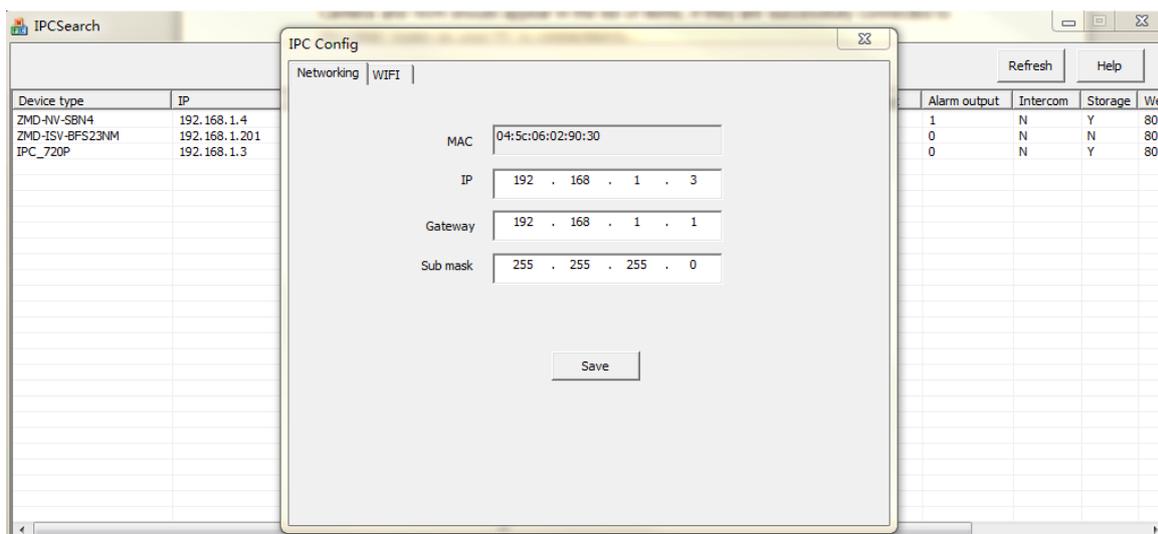


Figure 3

In the **Networking** tab of the IPC Config menu, you will need to change the settings of the camera to match your router settings (As Figure4).

1. In the **IP** field, type in the same IP address that appeared as the IPv4 Address on your ipconfig results, but label the last three digits to a larger value such as 101.
2. In the **Gateway** field, type in the same numbers that appeared as the Default Gateway in your ipconfig results.
3. In the **Sub Mask** field, type in the same numbers that appeared as the Subnet Mask on your ipconfig results.

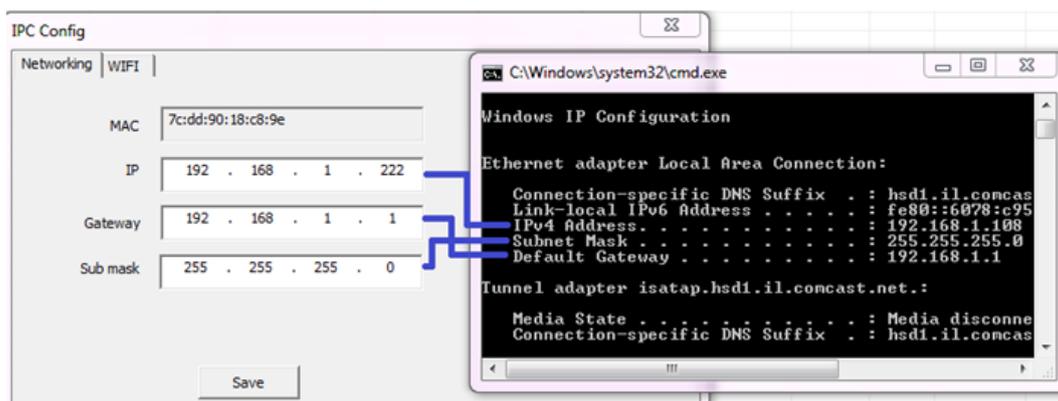
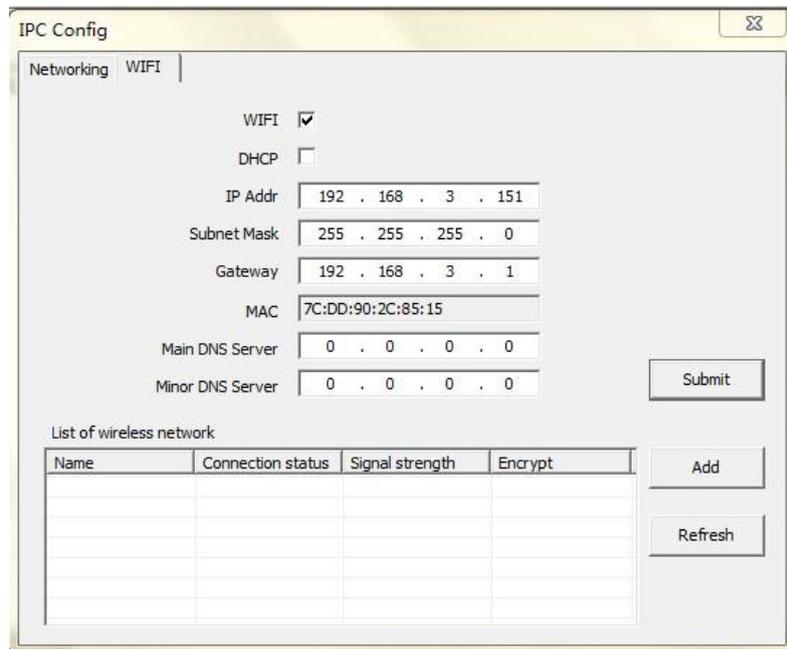


Figure 4

After adjusting all of these settings, click [Save]. The IP Address, Gateway, and Sub Mask should update immediately after you click [Save].

4.1.3 Wi-Fi Configuration (Only for Device Which Supports this Function)

1. Double click on the IP Camera that you just saved networking settings on, and click on the "WIFI" tab to enter to the "Wi-Fi" interface, select the check box to enable Wi-Fi (As Figure 5). Next, manually set the **IP Addr** field, **Subnet Mask** field, and **Gateway field** to match the settings that appear in the Networking tab of the IPC Config menu, then Click [Submit].



IPC Config

Networking | WIFI

WIFI

DHCP

IP Addr 192 . 168 . 3 . 151

Subnet Mask 255 . 255 . 255 . 0

Gateway 192 . 168 . 3 . 1

MAC 7C:DD:90:2C:85:15

Main DNS Server 0 . 0 . 0 . 0

Minor DNS Server 0 . 0 . 0 . 0

Submit

List of wireless network

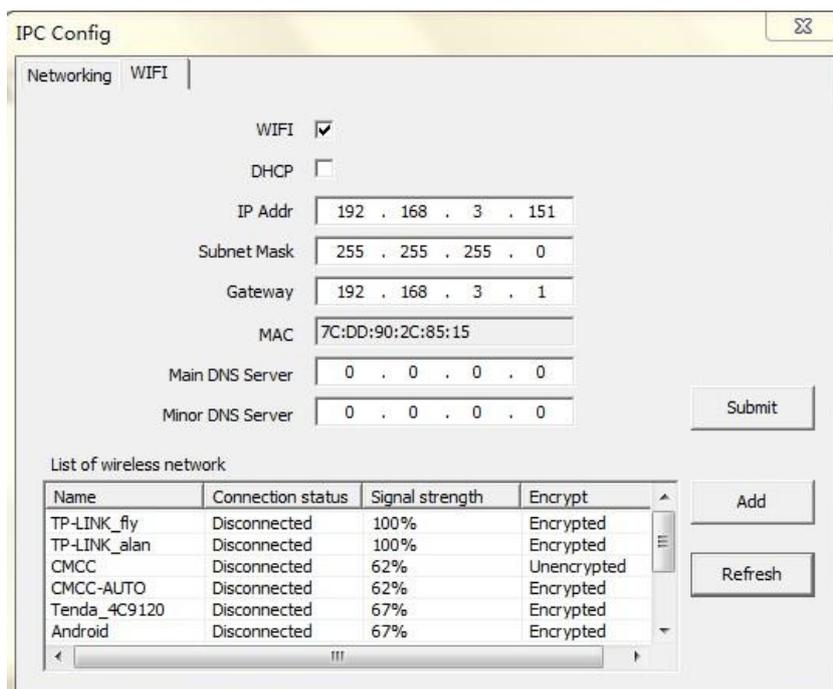
Name	Connection status	Signal strength	Encrypt

Add

Refresh

Figure 5

2. Click [Refresh], a list of available Wi-Fi networks will appear in the list. Such information as wireless name, connection status, signal strength, encrypt status shall appear in the table (As Figure 6).



IPC Config

Networking | WIFI

WIFI

DHCP

IP Addr 192 . 168 . 3 . 151

Subnet Mask 255 . 255 . 255 . 0

Gateway 192 . 168 . 3 . 1

MAC 7C:DD:90:2C:85:15

Main DNS Server 0 . 0 . 0 . 0

Minor DNS Server 0 . 0 . 0 . 0

Submit

List of wireless network

Name	Connection status	Signal strength	Encrypt
TP-LINK_fly	Disconnected	100%	Encrypted
TP-LINK_alan	Disconnected	100%	Encrypted
CMCC	Disconnected	62%	Unencrypted
CMCC-AUTO	Disconnected	62%	Encrypted
Tenda_4C9120	Disconnected	67%	Encrypted
Android	Disconnected	67%	Encrypted

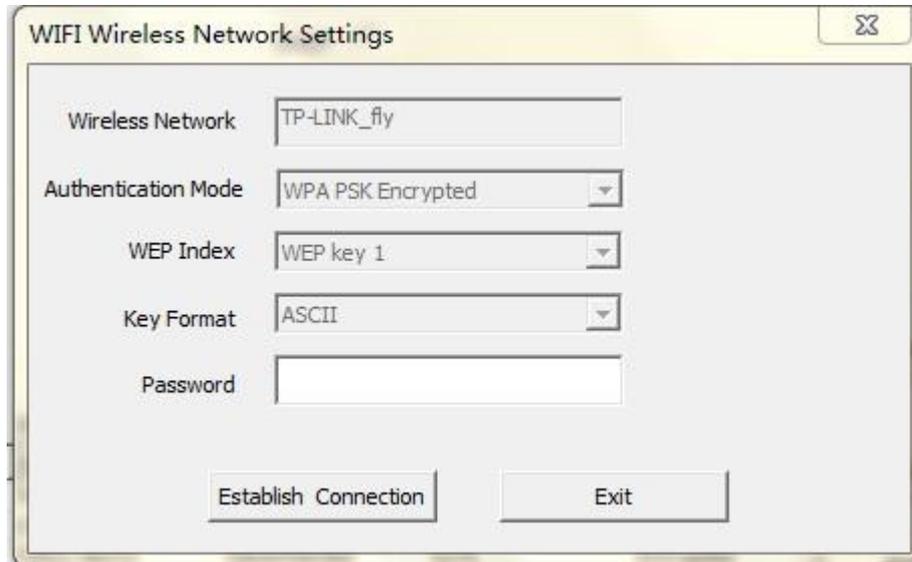
Add

Refresh

Figure 6

3. Click [Add] or double click the auto searched Wi-Fi, this will take you to the “WIFI Wireless Network Settings” section.

▲ Double click the searched Wi-Fi, you should enter “Wi-Fi password” (As Figure 7).

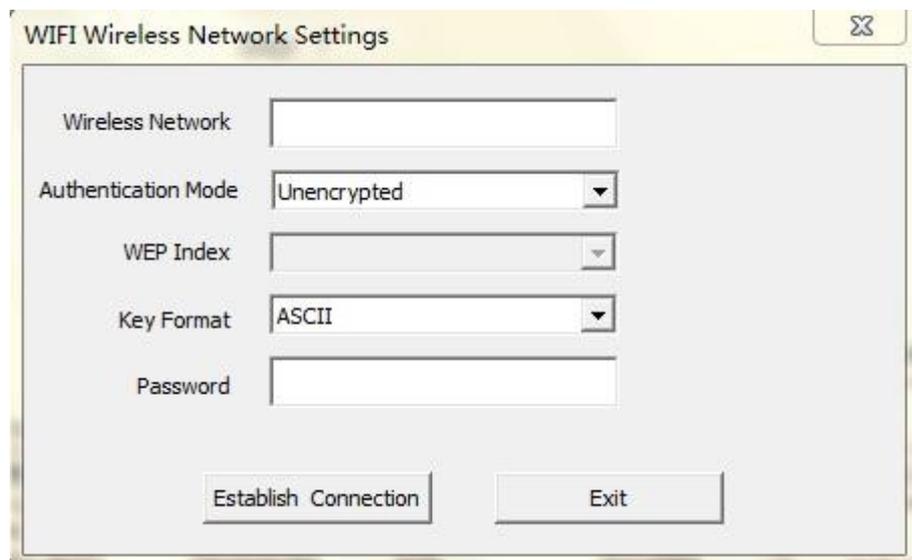


The image shows a dialog box titled "WIFI Wireless Network Settings". It contains the following fields and controls:

- Wireless Network: Text box containing "TP-LINK_fly"
- Authentication Mode: Dropdown menu set to "WPA PSK Encrypted"
- WEP Index: Dropdown menu set to "WEP key 1"
- Key Format: Dropdown menu set to "ASCII"
- Password: Empty text box
- Buttons: "Establish Connection" and "Exit"

Figure 7

▲ Click [Add], you should enter newly added “Wireless Network Name” , “Wi-Fi password”, and select “Authentication Mode” (As Figure 8).



The image shows a dialog box titled "WIFI Wireless Network Settings". It contains the following fields and controls:

- Wireless Network: Empty text box
- Authentication Mode: Dropdown menu set to "Unencrypted"
- WEP Index: Empty dropdown menu
- Key Format: Dropdown menu set to "ASCII"
- Password: Empty text box
- Buttons: "Establish Connection" and "Exit"

Figure 8

[Wireless Network] Refers to SSID, which is the login name of wireless network for authentication, it must be consistent with the SSID of the wireless gateway (router/AP). (Such as: TP-LINK_4A2DDC).

[Authentication Mode] Which can be selected from the following the encryption methods: “Unencrypted” ,“WEP Encrypted” ,“WPA PSK Encrypted” ,“WPA 2 PSK Encrypted” ,“WPA PSK + WPA2 PSK Encrypted”. This setting must be consistent with the security type of wireless gateway (router /AP).

[Password] Refers to the authentication password of wireless network, this setting must be consistent with the security type of wireless gateway (router /AP).



Note

Router’s wireless authentication mode cannot be set WEP Encrypted.

5. Click [Establish Connection] to establish the wireless connection between IP camera and router. You will be prompted if successfully connected (As Figure 9). Your camera should now show Connection Status: Connected (As Figure 10). If not, you may need to click [Refresh] more than once before the Connection Status reads: **Connected**.

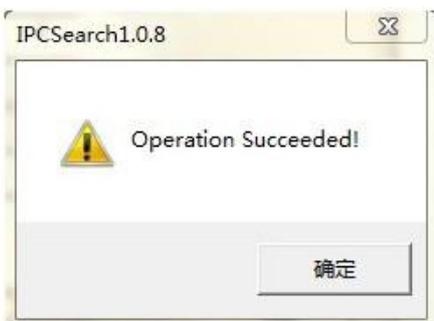


Figure 9

List of wireless network			
Name	Connection status	Signal strength	Encrypt
TP-LINK_fly	Connected	100%	Encrypted
CMCC	Disconnected	56%	Unencrypted
CMCC-AUTO	Disconnected	51%	Encrypted
zmodooem	Disconnected	93%	Encrypted
TP-LINK_alan	Disconnected	88%	Encrypted
Tenda_4C9120	Disconnected	72%	Encrypted

Figure 10

6. You have successfully connected one camera to your wireless router using Wi-Fi! You may now disconnect the Ethernet from the camera, and your IP Camera should continue to appear in the IPCSearch program.

4.1.4 Login

1. To view your IP Camera from Internet Explorer, open an Internet Explorer browser and type your **camera's IP Address** into the Internet Explorer browser as it appears in the **IPCSearch program**. Enter the default Username "admin" and Password "111111", select the language, and then click [OK] (As Figure 11).



Figure 11

2. When prompted by Internet Explorer to install add-ons, click [Allow] to install all add-ons (As Figure 12).



Figure 12

4.2 Preview

In the real-time preview interface, the user can control the video channel, record a short video, take a snapshot, full-screen preview, image color, orientation, and PTZ control (if applicable) (As Figure 13).



Figure 13

4.2.1 Open Video

Double-click the channel number or device name to open the video.

4.2.2 Close Video

Right-click the device name, and choose [Close] to close the video stream. Or right-click the video and click [Close] to close the video.

4.2.3 Video Stream

Right-click the channel number to choose its stream type.

4.2.4 Record

Right-click the video play window, and choose [Record] to enable this function. Please check out section “**4.5 Local Configuration**” for more information on local video store settings, and section “**4.6.3 Storage Settings**” for more information on video plans.

4.2.5 Capture

Right-click the image and click [capture] to capture a still image of the camera image. The capture photo is kept in catalog set by video capture. Please check out section “**4.5 Local Configuration**” for more information on storage directory.

4.2.6 Full-screen Preview

Double-click the image to view the full-screen preview. Double-click once again to go back to the original image size.

4.2.7 Video Parameters Settings



Figure 14

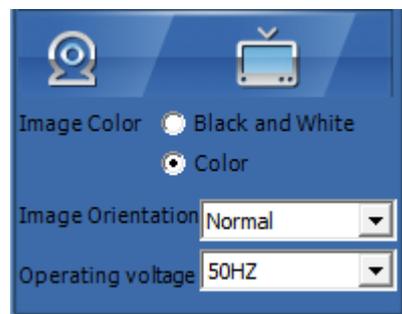


Figure 15

Icon	Description
	Adjust the brightness
	Adjust the contrast
	Adjust the saturation
	Restore default settings
Image Color	Adjust the color (color or black and white)
Image Orientation	Adjust the image orientation (normal, flip, mirror, flip plus mirror)
Operating Voltage	Adjust the voltage(50HZ or 60HZ)

4.2.8 PTZ Settings (Only for PTZ IP Cameras)

PTZ control allows the following camera motions: upward, downward, left, and right. The lens operation includes vary magnification, vary focus, vary iris, etc.



Figure 16

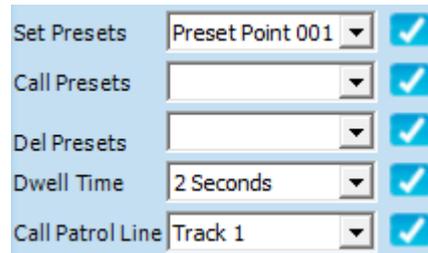


Figure 17



Note

It is only available for PTZ IP Cameras.

4.3 Two –way Audio (Only for Device Which Supports this Function)

1. Under real-time video, hover your mouse cursor over the Play Window, “Voice” and “Talkback” icon will appear at the bottom of the Play Window, remove the mouse cursor, the icons will disappear (As Figure 18).



Figure 18

2. With two headsets (one in PC, the other in IP Camera), now click [] to enable voice function, the voice icon will change to []; click [] to enable talkback function, the talkback icon will change to []. Now you can speak and hear through the IP camera using a PC (As Figure 19).



Figure 19

4.4 Playback and Download

1. Click  to enter to the “Playback and Download” interface (As Figure 20).



Figure 20

2. Select the specific time, video type (All, Alarm, Motion, Schedule or Manual) and channel you want to playback, click [Search], a list of video information shall be displayed, then select the video you want to playback (As Figure 21).

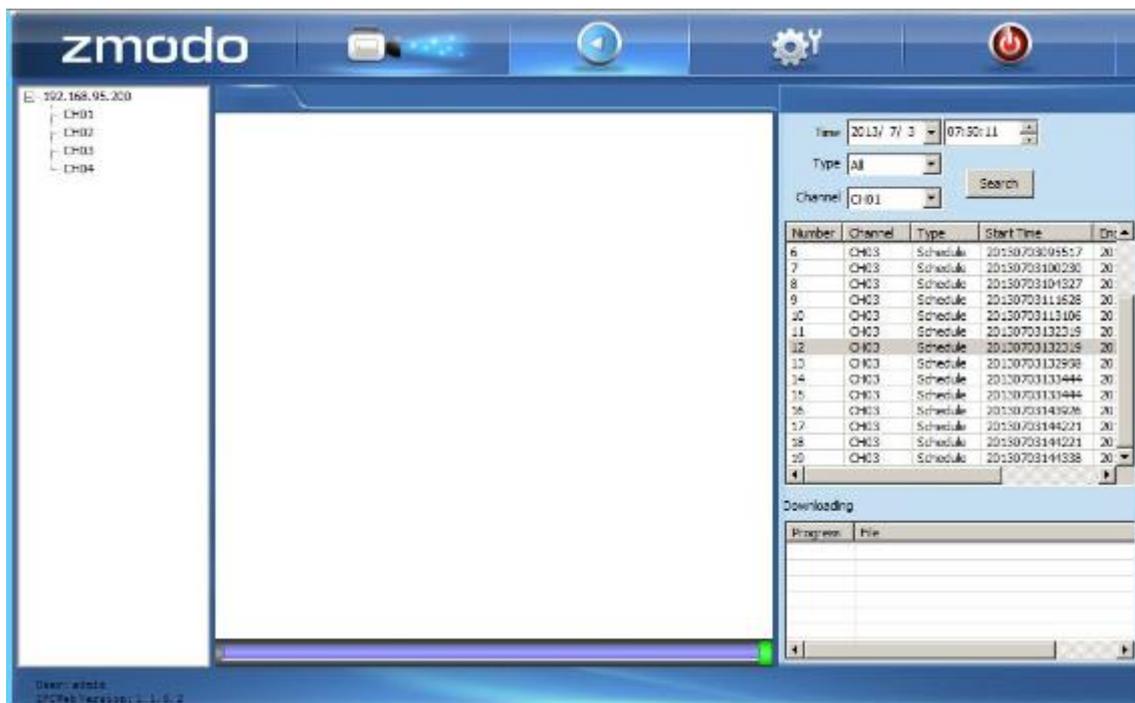


Figure 21

4.5 Local Configuration

Click , this will take you to the “Device Parameters” section, then click [Local Configuration] to enter into “Local Configuration” section (As Figure 24).

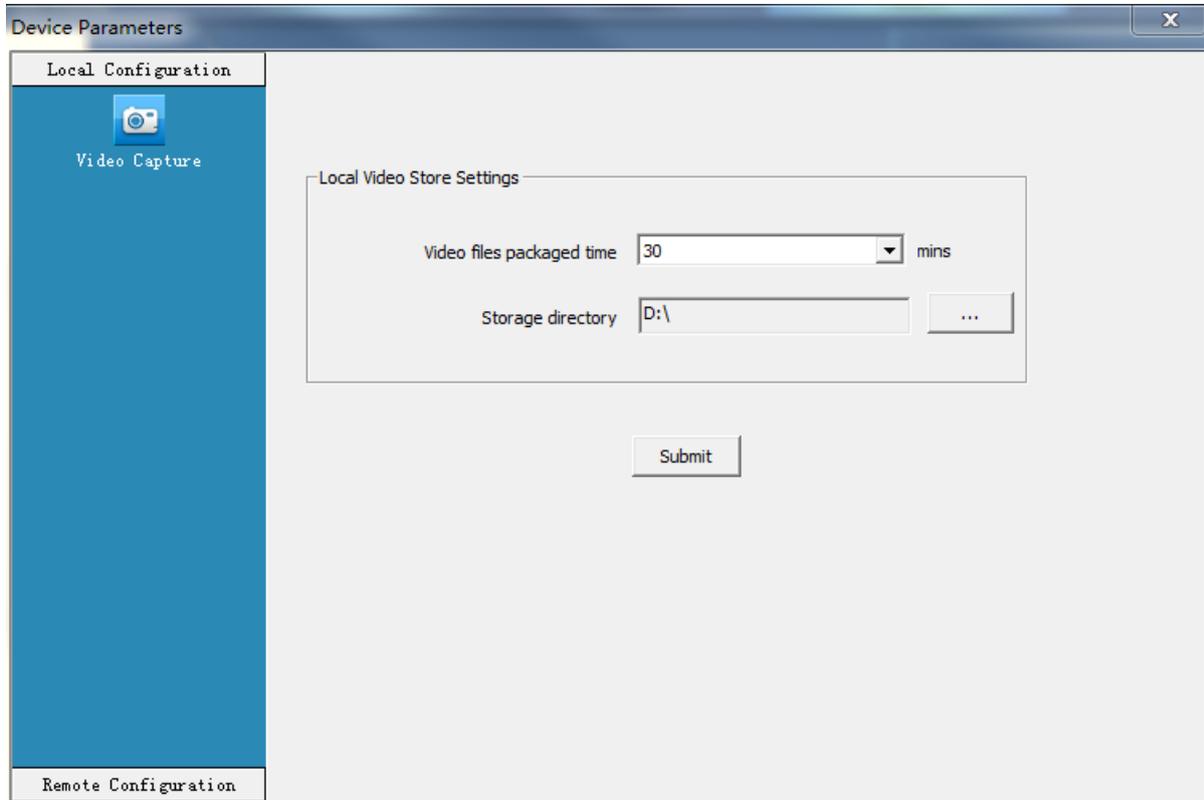


Figure 24

[Video files packaged time] This setting controls the length of the video files recorded.

[Storage directory] Click [...] to set file path for local recording and capture.

After setting all the parameters, click the **[Submit]** button.

4.6 Remote Configuration

Click [Remote Configuration] to enter into the “Remote Configuration” section.

4.6.1 Video Settings

▲ Character Overlay

The screenshot shows a web browser window titled "Device Parameters" with a close button (X) in the top right corner. The interface is divided into a left sidebar and a main content area. The sidebar, under "Remote Configuration", lists several settings: Video Settings (selected), Network Param, Storage Settings, Alarm Settings, System Info, and Advanced Settings. The main content area has three tabs: "Character Overlay" (active), "Video Code", and "Video Block". Under the "Character Overlay" tab, there are three configuration items:

- Title:** A text input field containing "CH1" and an unchecked checkbox to its right.
- Date Format:** A dropdown menu showing "MM/dd/yyyy" and a checked checkbox to its right.
- Time Format:** A dropdown menu showing "24 hour".

 A "Submit" button is centered at the bottom of the main content area.

Figure 25

[Title] This is the name of the video channel, and it is displayed on the upper left of the image. The maximum number of characters for this field is 16. Click the check box, and it will display on the screen. Un-check the check box, and it will not display the title on the screen.

[Time format] You can choose whether to display title, date and time, and also you can choose the time format. It is recommended to leave it at the default.

After setting the date and time, click the **[Submit]** button.

▲ Video Code

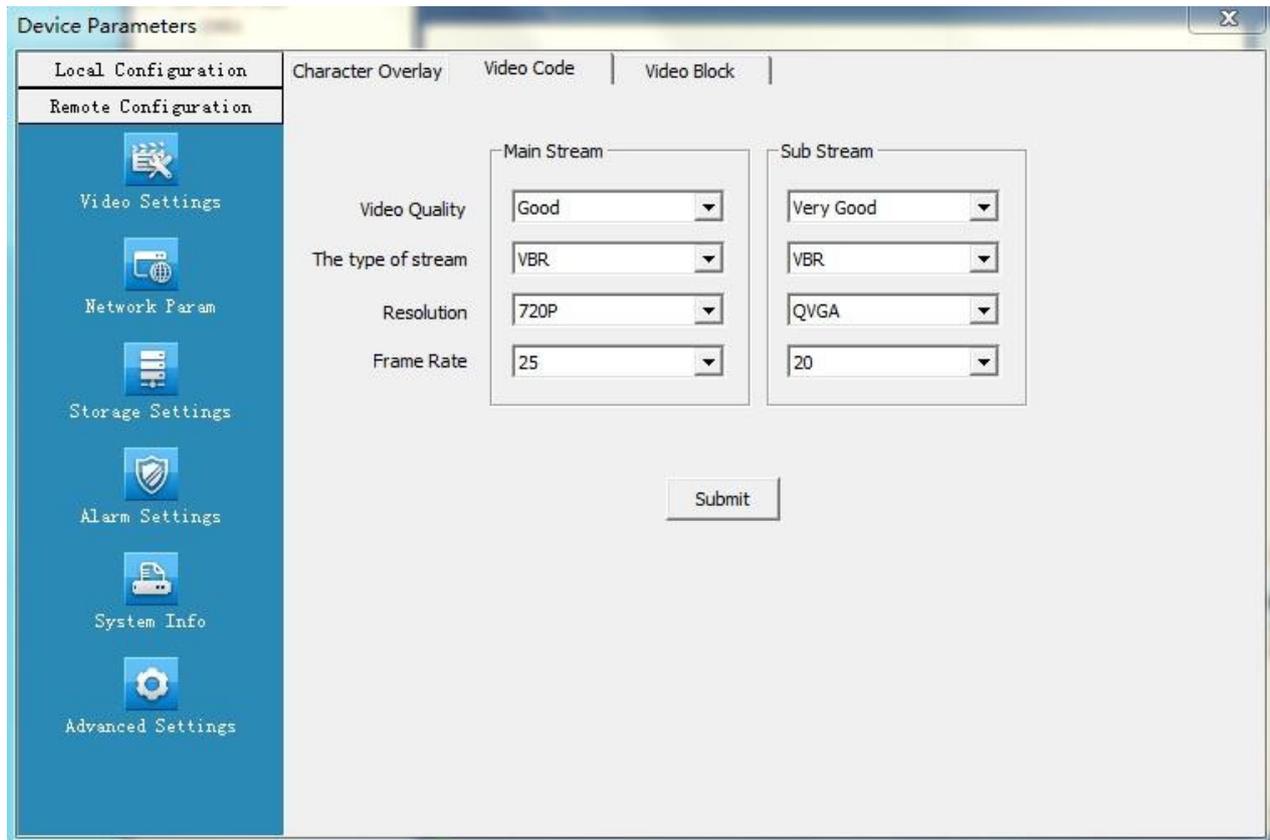


Figure 26

[Video Quality] The user can choose the desired image quality: Best, Very Good, Good, General and Poor.

[Stream Type] Two types: The two options are CBR (Constant bit rate) and VBR (Variable bit rate). CBR enables constant bit rate encoding; VBR enables variable bit rate encoding. CBR should yield a better overall image.

[Resolution] System will automatically identify and add the image resolution of main stream and sub stream.

[Frame rate] This sets the frames per second rate. Under poor network conditions, you can reduce the frames per second to provide a more stable video feed.

After setting parameters, click the **[Submit]** button.

▲ Video Block

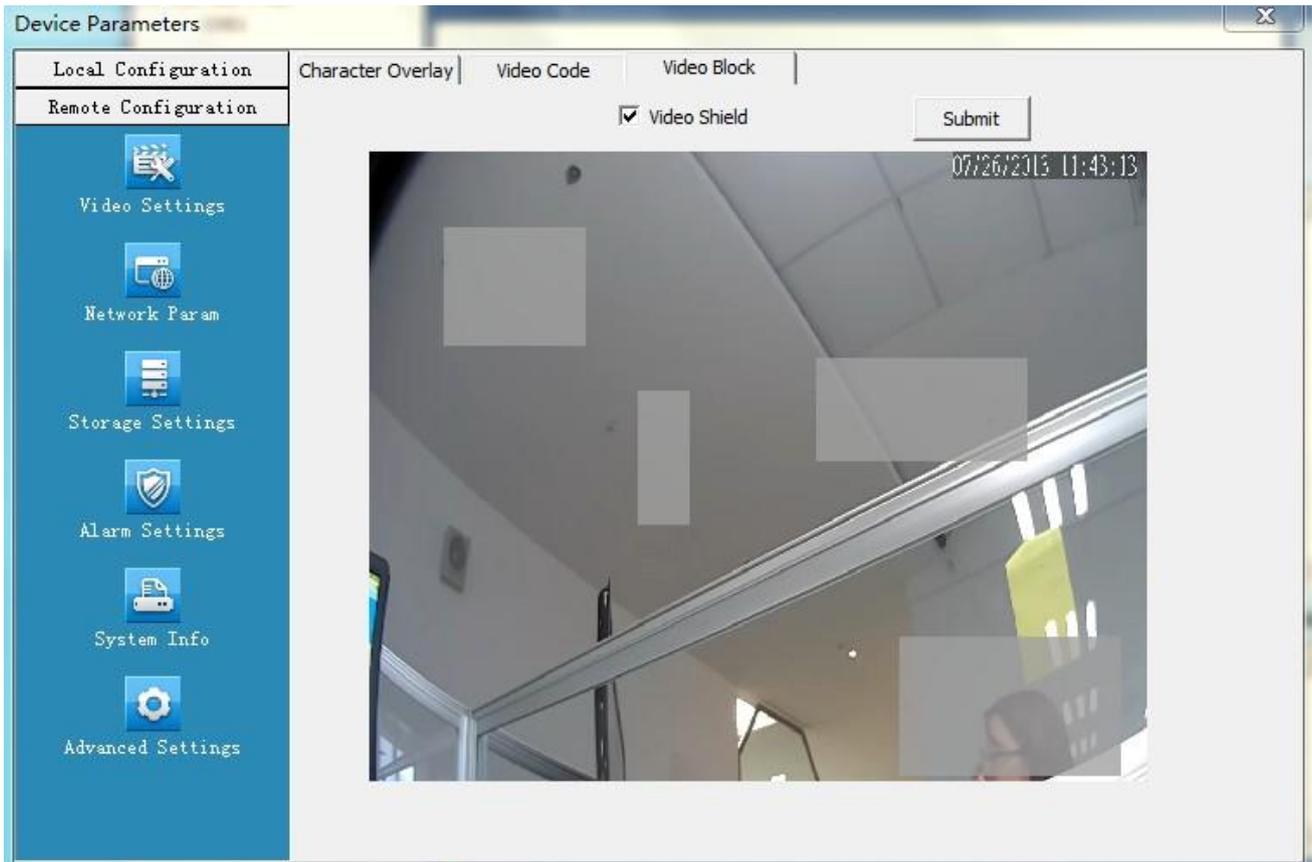


Figure 27

[Video shield switch] Enable or disable the video shield feature.

[Shield area setting] You can set the shield area by dragging the mouse with the left button pressed, or cancel the shield box on the shield area by right-clicking the mouse.

You can choose to shield the whole image, or only shield part of the image. Up to four areas can be masked.

After setting parameters, click the **[Submit]** button.

4.6.2 Network Parameters Settings

▲ Wired Settings

The screenshot shows the 'Device Parameters' configuration window. The 'Wired Settings' tab is active. The configuration includes:

- DHCP:
- IP Addr: 192 . 168 . 1 . 152
- Subnet Mask: 255 . 255 . 255 . 0
- Gateway: 192 . 168 . 1 . 1
- MAC: 04:5C:06:02:F0:29
- Preferred DNS: 202 . 96 . 134 . 133
- Alternate DNS: 8 . 8 . 8 . 8

A 'Submit' button is located at the bottom center of the configuration area.

Figure 28

[DHCP] If the router allows DHCP functionality, select DHCP to locate an un-used IP Address on the router. After the camera is configured and is able to be viewed online, it is recommended to keep DHCP disabled.

[IP Address] Set the wired cable IP address of IP camera device.

[Subnet mask] Default: 255.255.255.0 (It is recommended to not change the Subnet mask.)

[Gateway] Set the gateway IP of IPC. For example, if the IP Camera accesses a public network through the router, the gateway IP needs to be the same as the router's IP Address.

[MAC] The MAC address of the IP camera (It is recommended to not change the MAC address.)

[Preferred DNS] If the user has a DDNS account, the DNS address needs to be set to the DNS address of the place to which the device is assigned to in the DNS account.

[Alternate DNS] Backup DNS address (It is recommended to not change the Alternate DNS.)

After setting parameters, click the **[Submit]** button.

▲ Wireless Settings (Only for Wi-Fi IP Cameras)

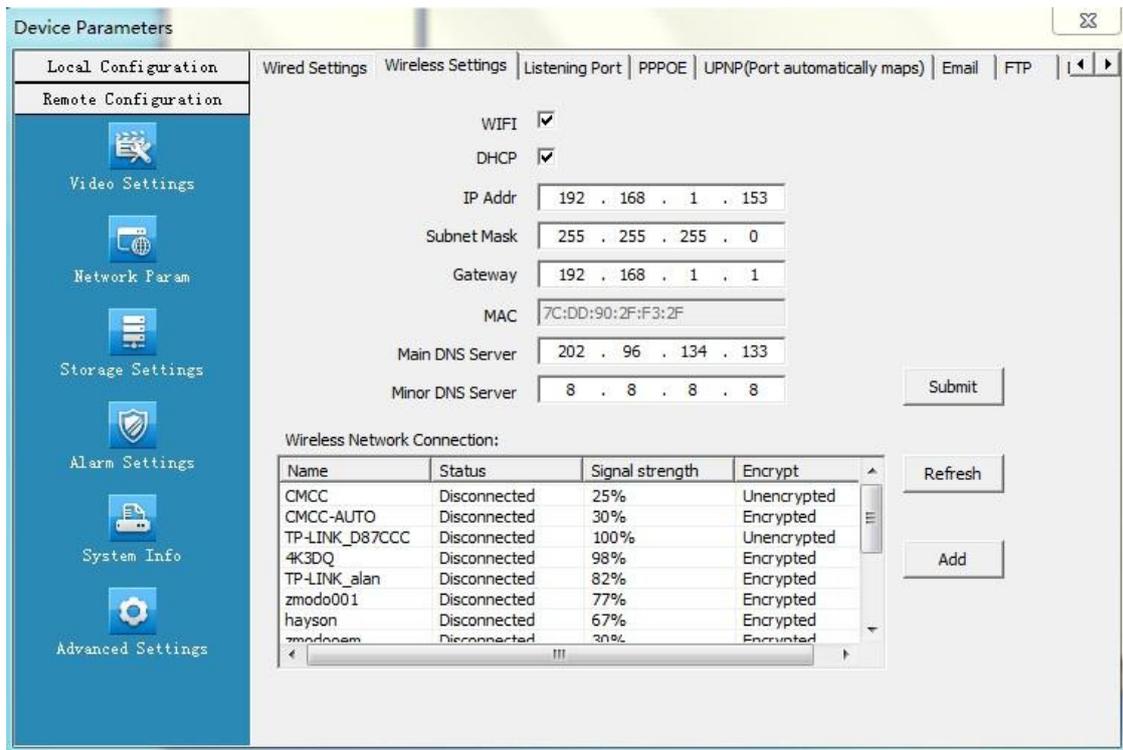


Figure 29

[WIFI] Select this checkbox to open the Wi-Fi network function of IPC.

[DHCP] If the router has DHCP enabled, select this, and the IP camera will automatically obtain an IP address from the router.

[IP Address] Set wireless IP address of IP camera.

[Subnet mask] Default: 255.255.255.0 (It is recommended to not change the Subnet mask.)

[Gateway] Set the gateway IP of IPC. For example, if the IP Camera accesses a public network through the router, the gateway IP needs to be the same as the router's IP Address.

[MAC] The MAC address of the IP camera (It is recommended to not change the MAC address.)

[DNS address] If the user has a DDNS account, the DNS address needs to be set to the DNS address of the place to which the device is assigned to in the DNS account.



Note

Please check out section “4.1.3 Wi-Fi Configuration” for more information.

▲ Listening Port

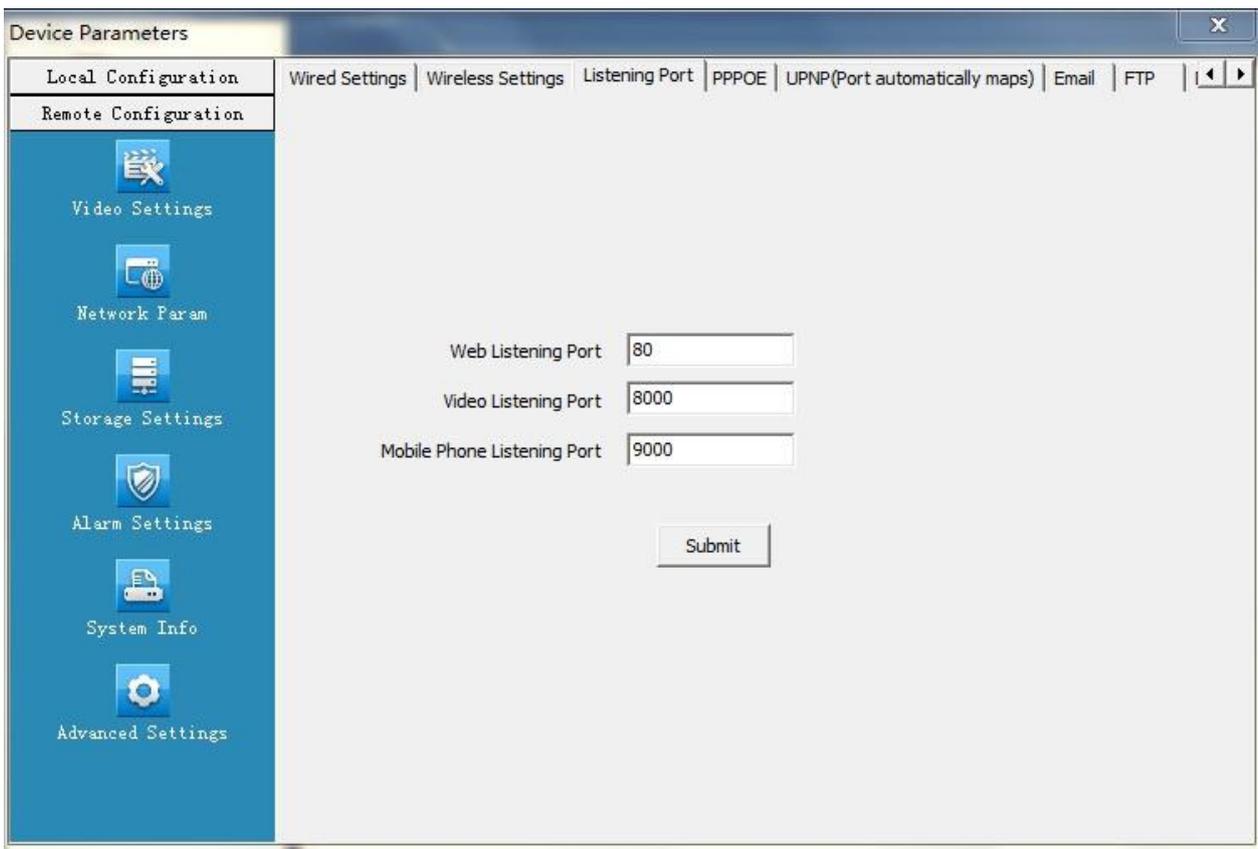


Figure 30

[Web Listening Port] The default port 80 is for accessing the camera through Internet Explorer. If it is necessary to change the port number, the address used to access the camera will use the following format: <http://ip:port/>. For example, if the web port is changed to 81, you would type <http://192.168.0.100:81> into the IE address bar.

[Video Listening Port] The default video port is 8000. This is the port used for the video portion of the camera.

[Mobile Phone Listening Port] The default mobile port is 9000. This port is used by a smart phone to access your camera.

The default ports are recommended for most users.

After setting all parameters, click the **[Submit]** button.

▲ PPPOE

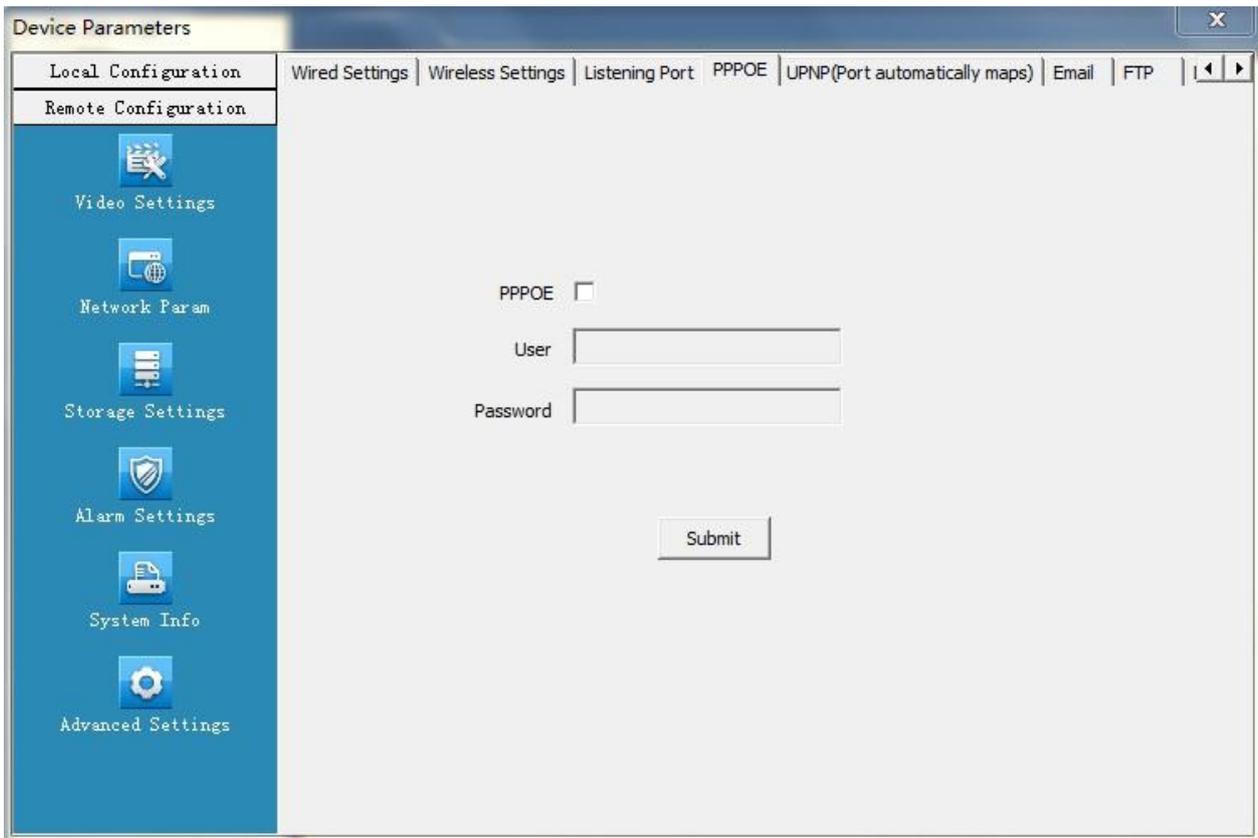


Figure 31

[PPPOE] Set to open or close the PPPOE dial-up function

[User] The ADSL dial-up account is obtained from the internet service provider.

[Password] Password of ADSL dial-up account, obtained from the internet service provider

After setting all parameters, click the **[Submit]** button.

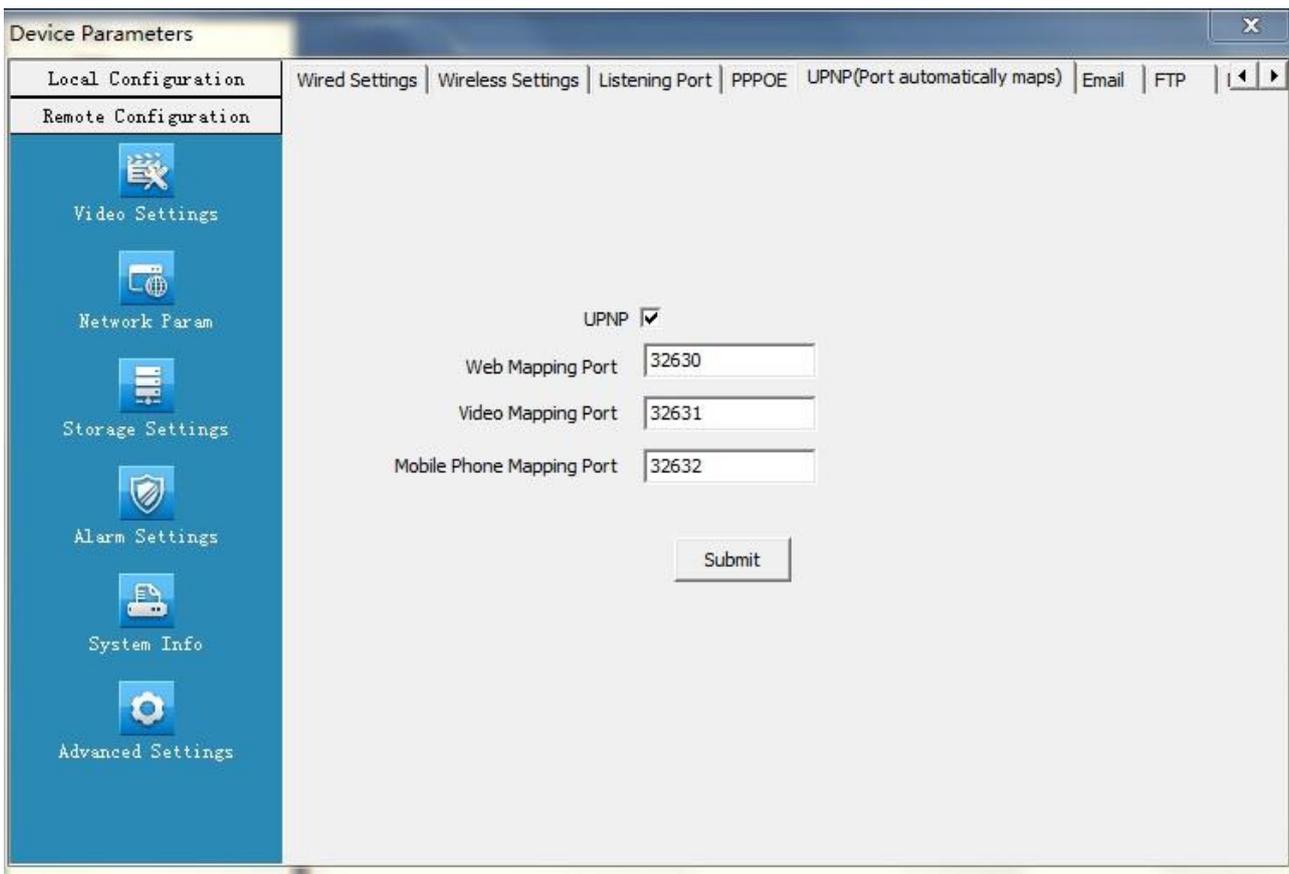
▲ UPNP

Figure 32

[UPNP] If the router supports UPnP and has it enabled, by checking this box your router will automatically forward your ports.

[Web Mapping Port] Set the web port which will be used by UPnP to automatically port forward.

[Video Mapping Port] Set the video port which will be used by UPnP to automatically port forward.

[Mobile Phone Mapping Port] Set the mobile phone port which will be used by UPnP to automatically port forward.

After setting all parameters, click the **[Submit]** button.

▲ E-mail

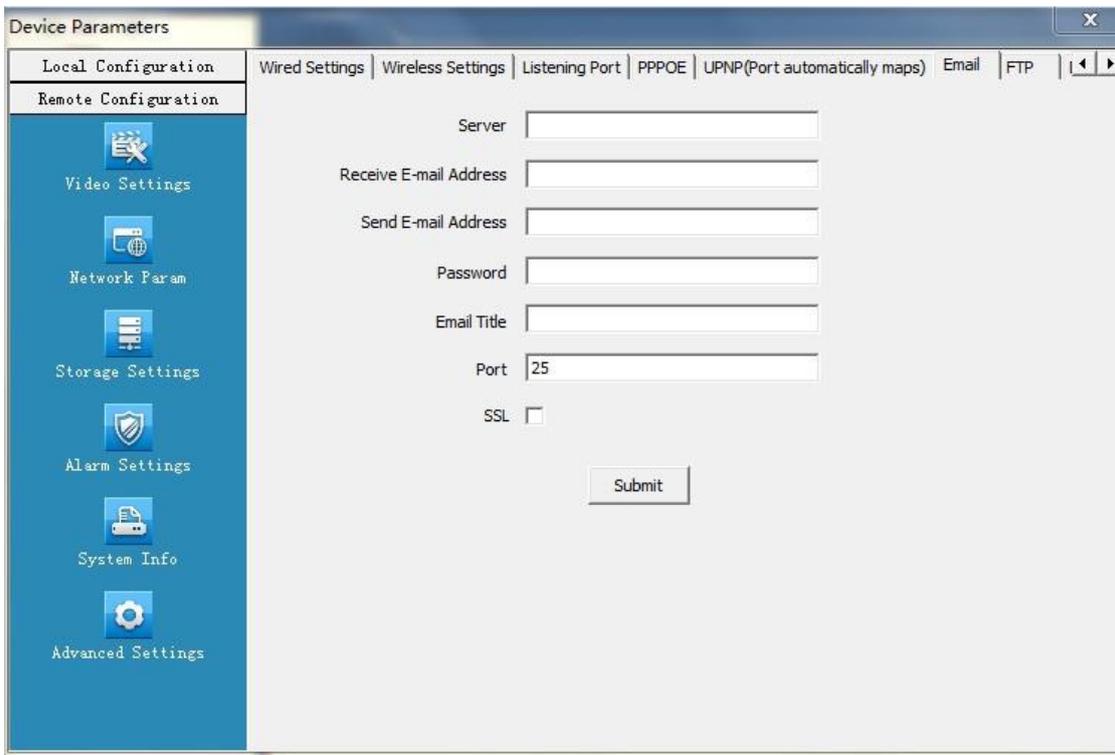


Figure 33

This is used to set up the e-mail address and related parameter of the alarm e-mail features. This function is available when IP Camera connects to Internet, and Receive & Send E-mail Addresses shall enable SMTP Protocol.

[Server] This is the sender e-mail server address. This address varies by e-mail providers. For example, the SMTP server for Gmail is: smtp.gmail.com

[Receive E-mail Address] The e-mail address that will receive the e-mail.

[Send E-mail Address] The e-mail address that the message will be coming from.

[Password] The login password for sending e-mail address.

[E-mail Title] This is the title of the e-mail that will be sent.

[Port] This is the SMTP port as specified by your e-mail provider. For example, the SMTP port for Gmail is 465, and SSL needs to be on.

[SSL] Most E-mail server has 465 or 25 port. For 465 port, please select SSL; while not for 25 port.

After setting all parameters, click the **[Submit]** button. The settings will take effect immediately.



Note

Common e-mail server configurations:

▲ Gmail E-mail Server

SMTP Server: smtp.gmail.com
SMTP User name: username@gmail.com
SMTP Port: 465
SSL: Enabled

▲ Yahoo E-mail Server

SMTP Server: smtp.mail.yahoo.com
SMTP Username: username@yahoo.com or username@yahoo.com.cn
SMTP Port: 465
SSL: Enabled

▲ 163 E-mail Server

SMTP Server: smtp.163.com
SMTP Username: username
SMTP Port: 25
SSL: Disabled

▲ 126 E-mail Server

SMTP Server: smtp.126.com
SMTP Username: username
SMTP Port: 25
SSL: Disabled

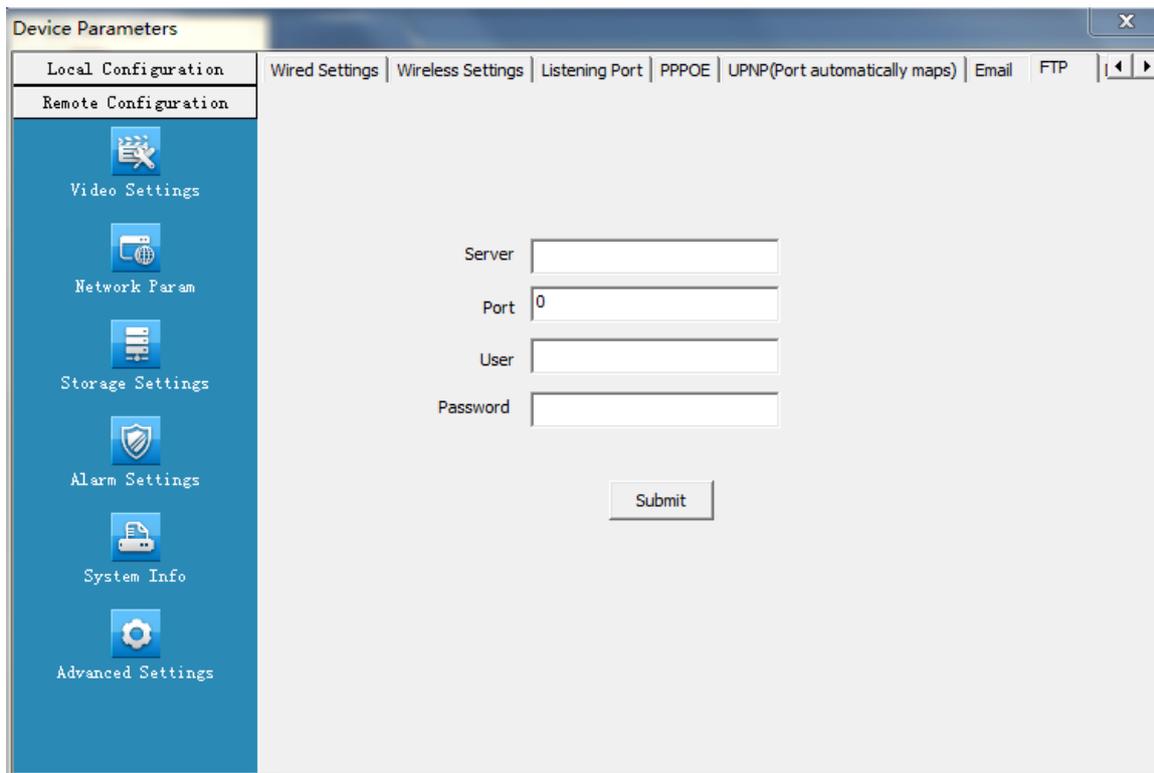
▲FTP

Figure 34

FTP Settings will send snapshots from alarm based recordings to the FTP server specified.

[FTP Sever] This is the IP address or HTTP network address of the FTP server.

[FTP Port] This is the port of FTP server.

[User] This is the username of the FTP Server.

[Password] This is the password for the user specified above.

After setting all parameters, click the **[Submit]** button.

▲ DDNS

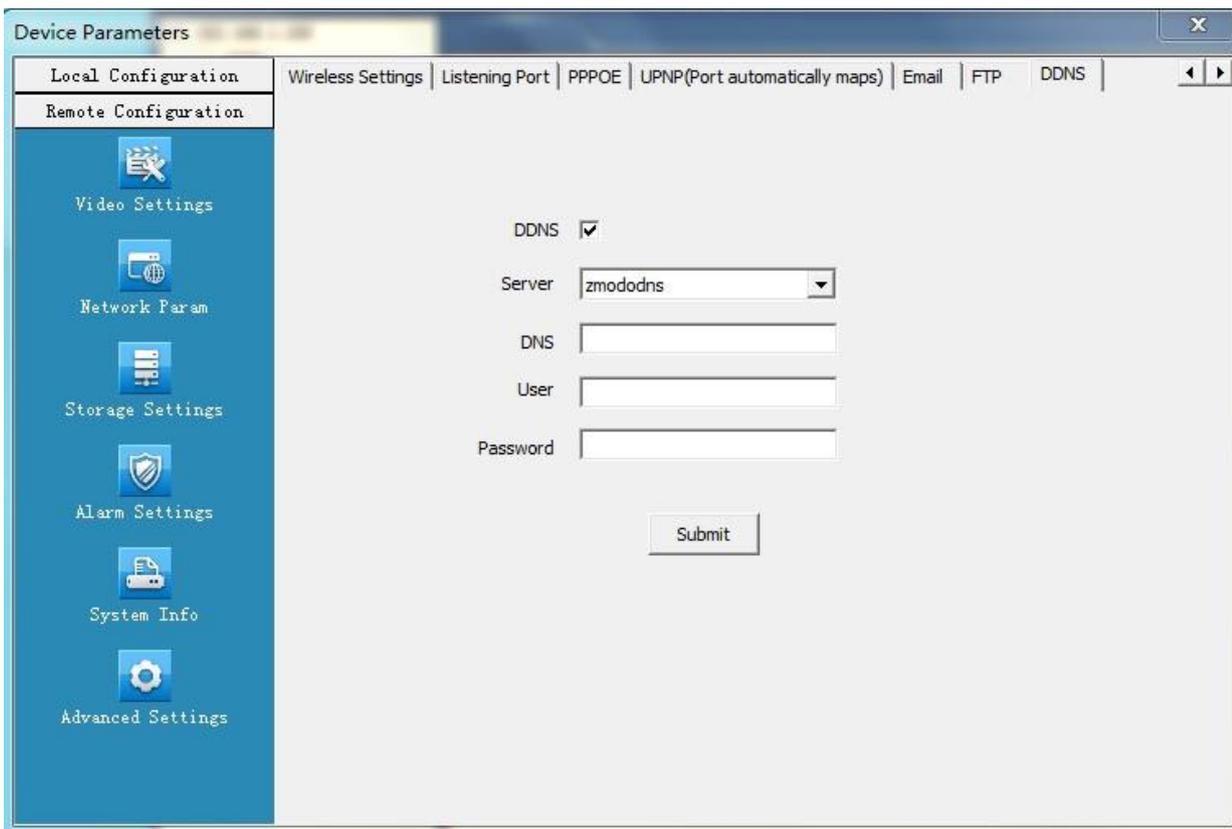


Figure 35

DDNS allows you to link a hostname to your dynamic IP address. This way when your IP address changes, you will not lose network connection.

[Switch] Used to enable or disable the automatic DDNS updates.

[Server] The DDNS provider you have chosen.

[DNS] The hostname created through your DDNS provider.

[User] The username which you registered with your DDNS provider.

[Password] The password for the username you specified above.

After setting all the parameters, click the **[Submit]** button.

4.6.3 Storage Settings

▲ Storage Management

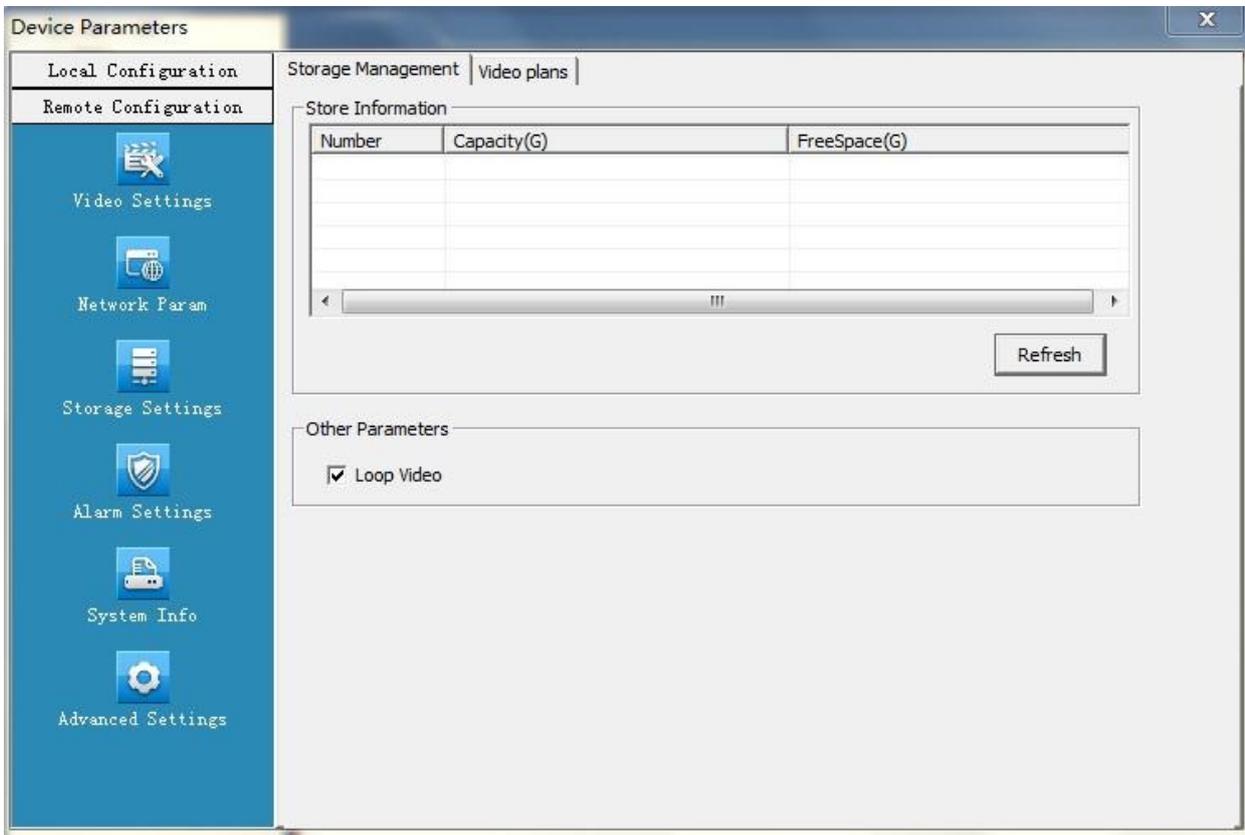


Figure 36

If IP Camera has installed SD Card, you can view the total disk capacity and the remaining space.

Loop Video Settings: Click [Loop Video], if SD Card memory is full, system will automatically clear the oldest video files and continue recording.

▲ Video Plans

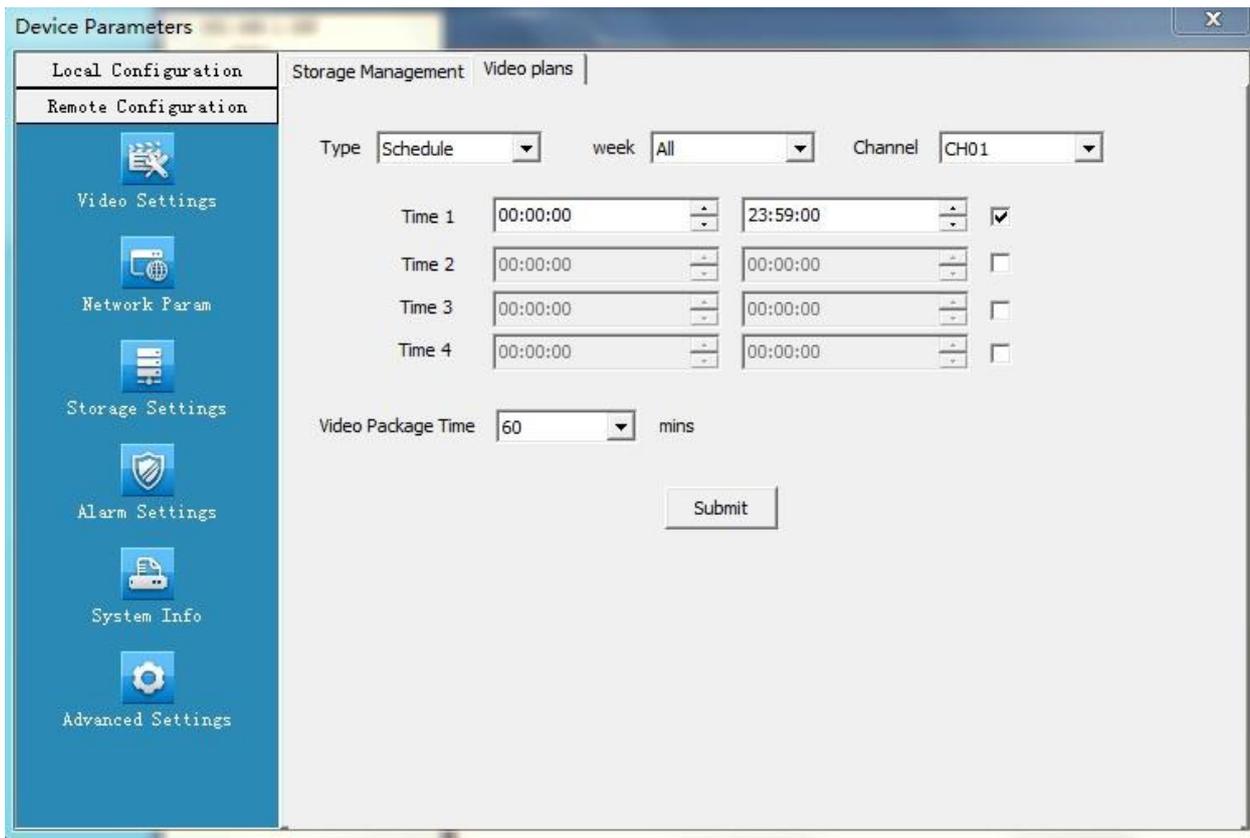


Figure 37

[Appointment Setting] Set time of timed video recording, can be set to everyday specific video time, up to 4 time period.

[Video Package Time] Can set a single file recording time as 15, 30, 45 or 60 minutes (breaks long recordings into smaller files)

[Other settings] Before recording, choose video type as timing recording or alarm recording; choose to record any day of a week or record every day of the week; choose a single channel or all channels.

After setting all the parameters, click the **[Submit]** button.

4.6.4 Alarm Settings

▲ Motion Alarm

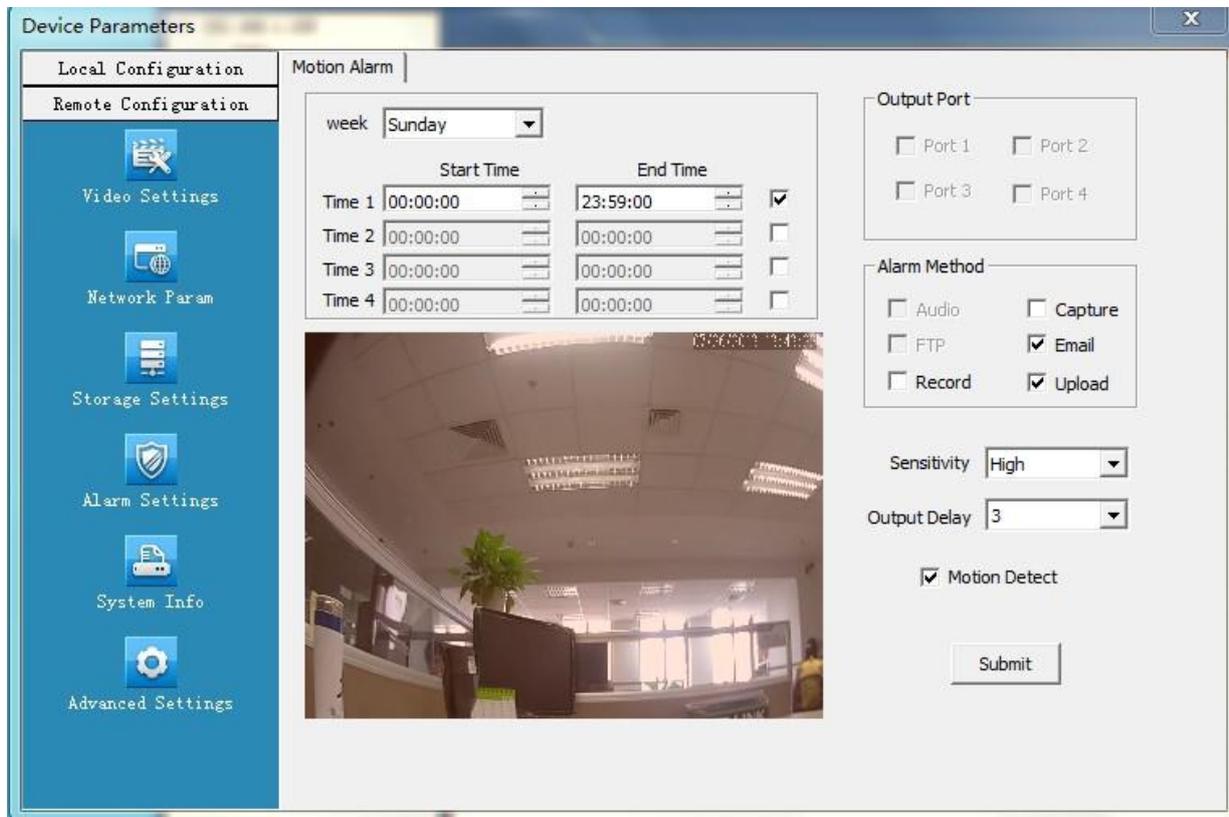


Figure 38

[Protection Time Setting] Set the time of motion detection. It can set detailed time periods of everyday, up to four different time periods.

[Motion Detection Switch] Set whether to edit the motion area or open the motion detection.

[Motion Detection Setting] After enabling motion detection switch, the setting interface will appear grid lines. User only needs to right-click the little cube on the image to set the motion detection area. Double-click the little cube to cancel related area detection.

[Alarm Action Mode] Set linkage output format after triggered alarm. Sound alarm or sending email can be selected. Sending email is sending motion detection alarm information via email to user.

[Sensitivity] The sensitivity of motion detection includes four levels: Highest, High, Medium, and Low.

[Output delay] Set the delay time of alarm linkage. The time range is limited between 0~30.

After setting all parameters, click the **[Submit]** button.

4.6.5 System Information

▲ General

The screenshot shows the 'Device Parameters' window with the 'General' tab selected. The left sidebar contains navigation options: Local Configuration, Remote Configuration, Video Settings, Network Param, Storage Settings, Alarm Settings, System Info, and Advanced Settings. The main content area is divided into two sections: 'General' and 'System Time'. In the 'General' section, there are two input fields: 'Pre-record time(seconds)' with the value '10' and 'Record delay(seconds)' with the value '20'. A 'Submit' button is located at the bottom right of this section. The 'System Time' section features two dropdown menus showing the current date and time: '2013-07-26 13:12:21' and '2013-07-26 13:50:39'. To the right of these are radio buttons for 'Manual' and 'Auto', with 'Auto' being selected. A 'Sync Time' button is positioned to the right of the 'Auto' radio button.

Figure 39

[Pre-record Time] Set the pre-record time. After you've set the pre-record time, it will start recording before it triggered alarm, the in advance time is the pre-record time.

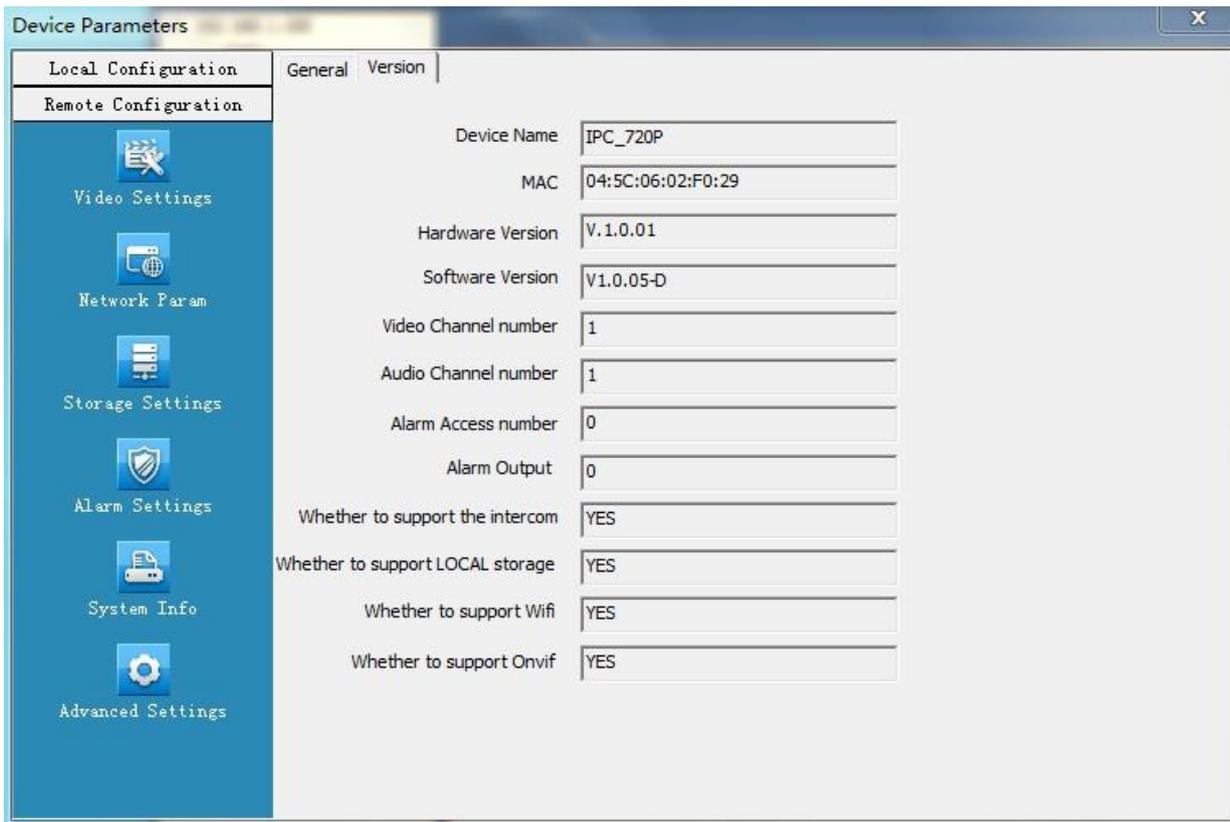
[Record Delay] Set the record delay time. After you've set the record delay time, the record packing will be restarted after the delay time passed.

[System Time Setting] Set the system time (manual or auto).

[Sync Time] Click it to utilize the PC system time synchronization.

After setting all general information, click the **[Submit]** button.

▲ Version



Local Configuration	
Remote Configuration	
Video Settings	
Network Param	
Storage Settings	
Alarm Settings	
System Info	
Advanced Settings	

General	Version
Device Name	IPC_720P
MAC	04:5C:06:02:F0:29
Hardware Version	V.1.0.01
Software Version	V1.0.05-D
Video Channel number	1
Audio Channel number	1
Alarm Access number	0
Alarm Output	0
Whether to support the intercom	YES
Whether to support LOCAL storage	YES
Whether to support Wifi	YES
Whether to support Onvif	YES

Figure 40

Displays device name, system version, video/audio/alarm channel number and other information.

▲ Regular Maintenance

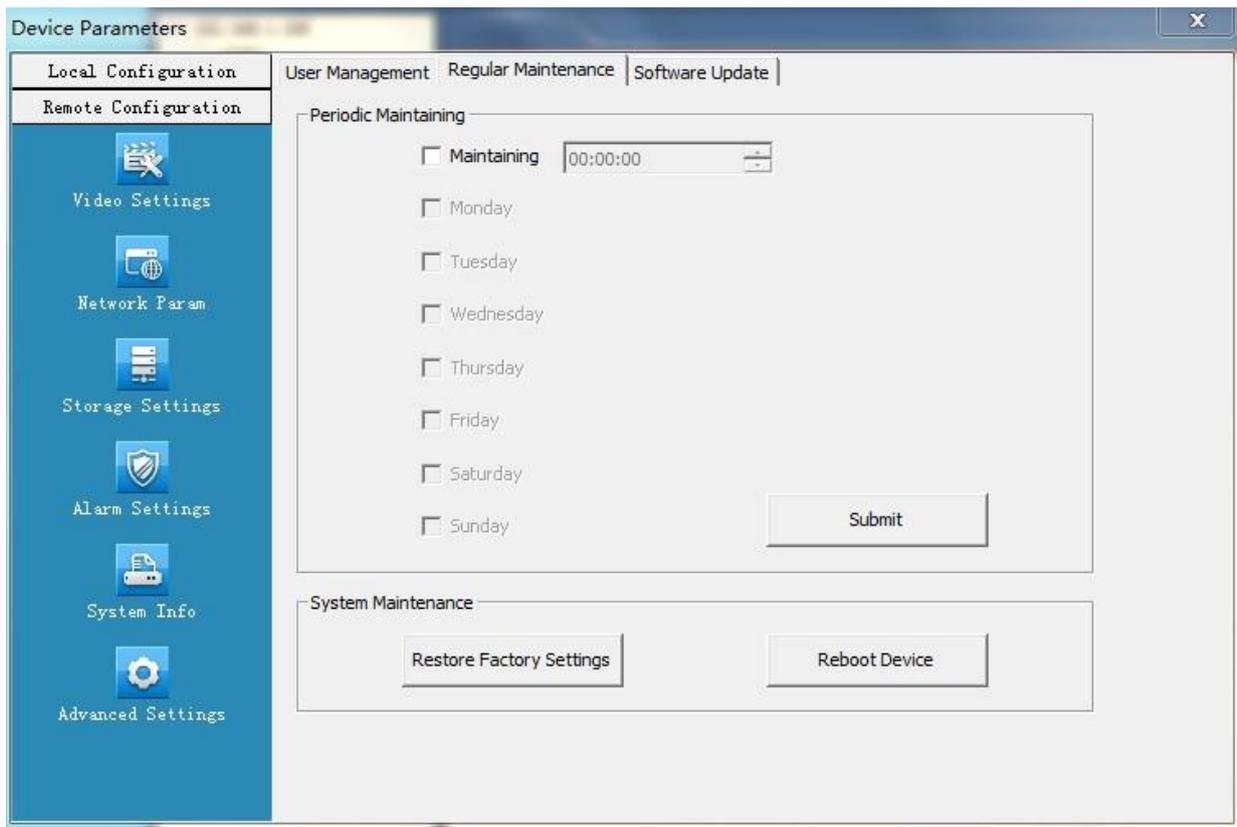


Figure 42

[Regular Maintenance] By checking the **[Maintaining]** box, you are choosing to automatically reboot the camera at a specified day of the week and time of day. It is recommended to reboot the cameras weekly by using this menu.

After setting all parameters, click the **[Submit]** button.

[Restore factory setting] Click this button to restore the device back to factory defaults.

[Reboot Device] Click this button to reboot the device.



Note

During periodic maintenance and rebooting the device, you will need to wait 30 seconds to restore video surveillance.

▲ Software Update

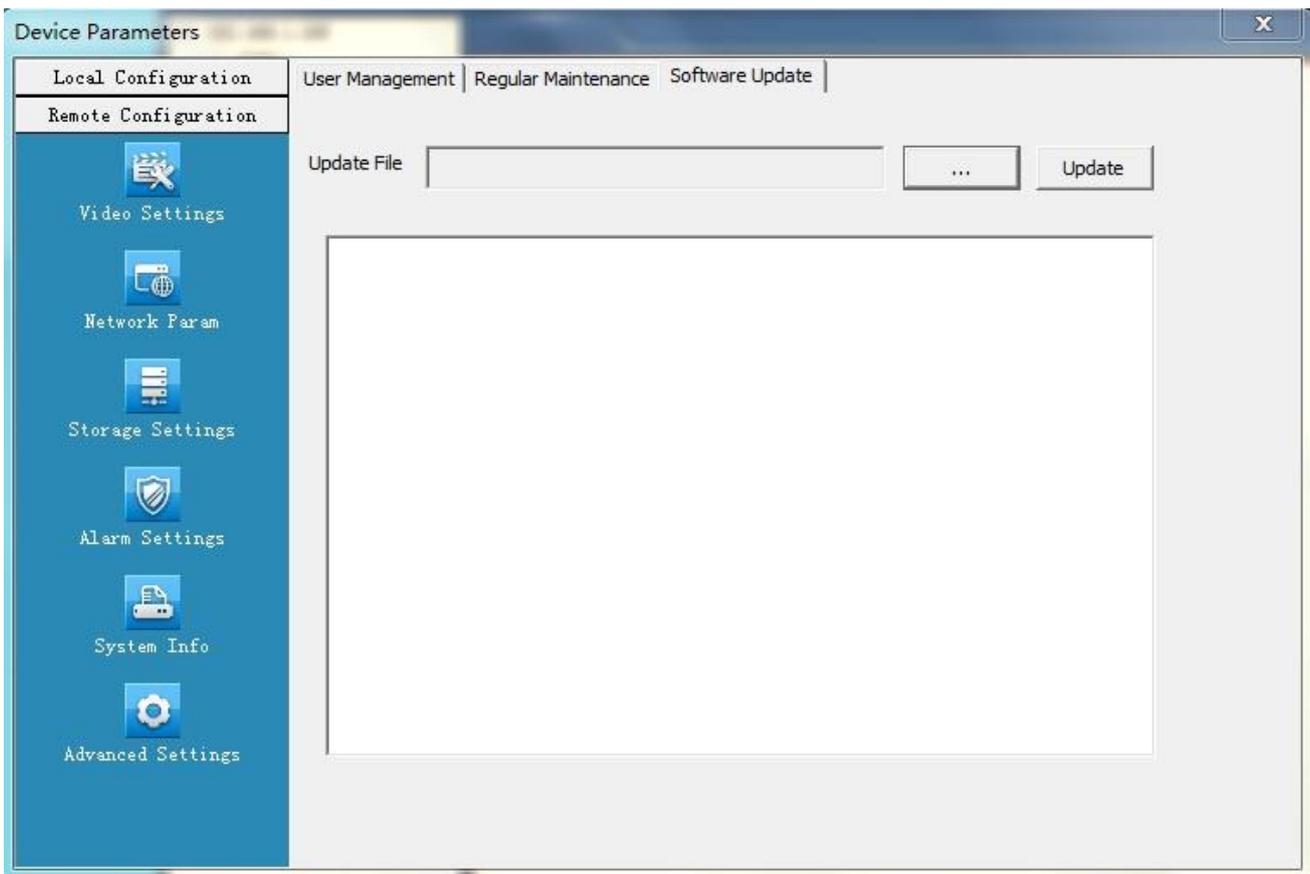


Figure 43

[Update File] Click [...] to browse your computer for the correct update file. Once you have selected the corrected file, click [Update].

During the update, it will display the update progress. After the update has finished, the IP Camera will automatically reboot. Log in to the device again and enter the “Software Update” interface to check whether the system version has been updated.



Note

1. During updating, please do not disconnect the camera from its power source or from the internet connection.
2. After the update is finished, IP Camera will automatically reboot.

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