

1 Product Introduction

Thank you to use wired/wireless IP Camera solution. IPCAM is a electronic equipment which is able to transmit dynamic video stream to all over the world through the network. The user can always monitor the place he wants from anywhere, as long as he is able to connect to Internet.

ASW IP camera works based on the TCP/IP standard. A WEB server is integrated inside which can support Internet Explorer. And this feature can help you to accomplish online management and maintenance on your device simply, such as remote configuration, remote start-up and firmware upgrade.

You can use the IPCAM monitoring homes, offices, factories, stores, nurseries and etc, simply, conveniently and real-time.

1.1 Hardware/Software requirements:

To use the computer-camera through networks, the minimum hardware requirements of your computer should be met,

1. Pentium III CPU or better, 1GHz or higher frequency;
 2. At least 256M memory;
 3. windows xp, windows 7, 2000 or above operation system
- Internet explorer version 4.0 or above, IE 6.0 is strongly recommended.

1.2 Product features:

Simple installation: It is very simple to install IP cameras. If you choose wired networking solution, you only need to prepare power and networks connection. If you want to use WIFI wireless connection, only power is a must.

Scope of applications: Apply to homes, offices, enterprises, supermarkets, schools and other public places.

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Note:
In order to avoid electrical shock or fire, please use proper power according to the manual.

1.3 Packing list:

- IP Camera SV-IP206 Series
- WIFI Antenna(only supply for wireless camera)
- CDROM(include user guide, control, search equipment)
- Power adapter
- bracket

1.4 Interfaces



Audio : Used to connect headphones, monitor the user's voice

ANT: used to connect the antenna

DC5V : Used to connect the power adapter.

RESET BUTTON : In the bottom of the camera. If user forget he password, just press this bottom for more than 5 seconds, then user can restore to factory settings.



Adjust camera lens: Gently rotate the lens until the image is clear .

Supporting multiple protocols: Embedded operation system supports the TCP / IP, SMTP (simple mail protocol), HTTP, UPNP, etc.

Simple configuration: Standard Web browser GUI can help users to control and manage the IP cameras through LAN or Internet.

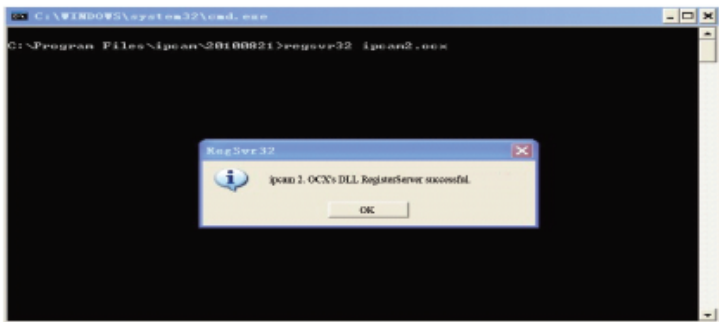
Video Watching and Video Record: Provide concise GUI for user to watch real-time video stream from anywhere networking connection is available. And the video segments can be recorded on your computer.

Alarm Monitoring: Through external alarm device, the alarm information can be sent to your e-box or your mobile phone. Especially, user can activate motion detection function to detect any movement in the selected area. If any illegal invasion happens, alarm will be realized. Simultaneously, the captured images will be sent to email address specified by user.

Support dynamic DNS: Support Dynamic DNS. Users can access his/her IP cameras easily through DDNS despite that the camera IP changes frequently.

Simple User Authority Management: Setting USER and PASSWORD of the system can help user to protect privacy effectively, meanwhile, users can be authorized with different permission levels to operate the IP camera.

Real-time Monitor through Intelligent Mobile Phone: With the assistance of professional client software IP Cam Viewer, user can access any online IP Camera anywhere through intelligent mobile phone, iPhone or Android-OS (Operation System) based mobile phone and run routine PTZ operations. User can download IP Cam Viewer software from CD delivered in package box to your intelligent mobile phone. Please confirm your mobile phone has iPhone OS or Android-OS and choose the correct software version.



There are two ways to install software.

I: CD-ROM installation

1. Please put the attached CD into the CD-ROM driver in your PC.

2. Double-click ocx2.exe and installation can be finished automatically.

II: Download OCX.exe from the networking camera and install the same

1. When the software is not installed in your PC, meanwhile, the camera is connected to the network, you will be prompted to download and install the control software as shown below. You can download the same to any folder you want. After downloading is completed, double-click OCX.exe and automatic installation will be implemented. Downloading OCX.exe from the network camera is widely used in case that installation CD is not available. (**To restart your browser after installation**)

2 Installation

2.1 Hardware installation

2.1.1 Install network connection:

Insert one crystal head of twisted pair cable into the cable slot of NIC(Network Interface Card), which locates on the back of IP camera. Then, connect the other crystal head of the cable to the router or switch.

Tips: The length of twisted pair cable should be less than 100 meters, otherwise, the communication will not be stable. If the connection distance exceeds 100 meters, switch relay is recommended.

2.1.2 Connect the power

Connect the IP camera with power slot through power cable distributed in the package box.

Cautions: Please use the original power adaptor distributed with the camera device, otherwise, it may cause hardware damage.

2.1.3 Check the network indicator light

When the camera works, normally the green indicator of the IP camera is on continuously and yellow light flashes.

2.2 Software Installation

Software installation is very simple, you only need to double-click ocx2.exe and installation can be finished automatically as shown below.

3.1.1 Search Equipment

After software installation, please activate the search tools ipcamtools.exe. When GUI comes up, please click "refresh" button. The program will search the network cameras, and displays the searched IP address, port number, equipment ID number, device name, the machine's dynamic domain name, the wireless address and MAC address. An example is shown as following figure.



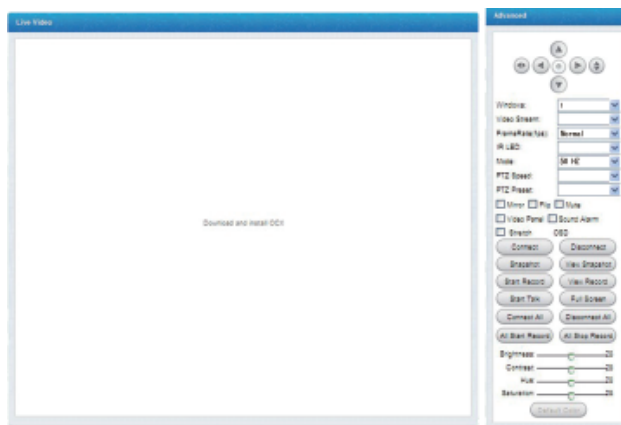
Note: (ipcamtools.exe is only used to search for the LAN IP addresses and port numbers of the cameras. However, the tool is not able to search IP address of the camera as well as the port number in WAN.

3.1.2 Login Network Camera

Click on the "open device" or input the IP into the browser in its address field directly to access the login page (for example: <http://192.168.1.92>). As shown



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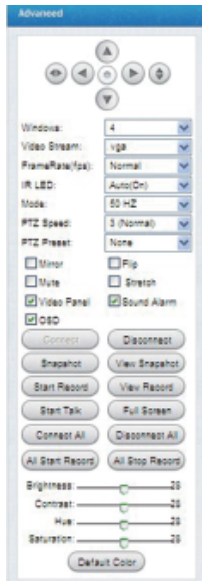
3 Search equipment and log into the network camera

3.1: Search Ip camera in LAN

NOTES:

- 1: Make sure the equipment is properly connected with the network and power.
- 2: The router must support DHCP (Dynamic Host Configuration Protocol), because dynamic IP addresses obtaining is one of the factory settings of camera. If the device cannot get the correct ip address, it will use the default ip address.
- 3: The camera cannot be immediately used when power connection is OK, system initialization will cost more than 20 seconds.

4 Video attribute settings and PTZ(Pan/Tilt/Zoom) control operations



You can also use the mouse to control pan and tilt, move the mouse over the video side, a yellow arrow, and click the left mouse button to rotate the cloud platform.

4.1 Function Description:

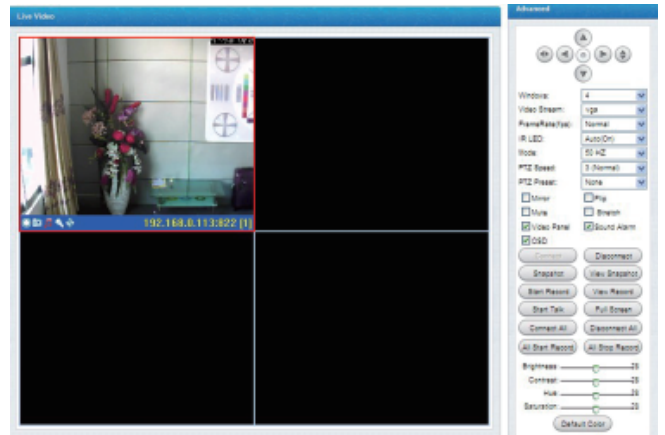
Window: the window is defined as video window number shown in the video region, the current maximum of which were 100.

“Login button” is one option to enter the user's computer, and “Mobile phone login” is another option for users who use the smartphone. By using “Mobile phone login”, user can watch the video of network cameras and operate a number of common features of the network camera. When login, user can select the appropriate language version on the upper left corner

3.1.3 user name and password authentication

The default user name and password are both “admin”. For the first login, enter your user name (admin), password (admin) and click on the “Login” button to enter the monitor interface, the user name and password are modifiable. For the security issue, it is strongly recommended to change the password in control panel.

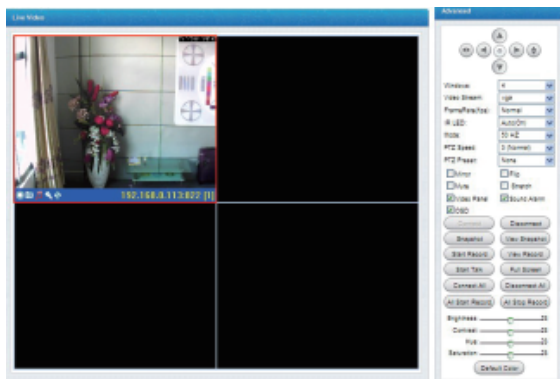
After entering the correct user name and password, real-time images is displayed on the monitor screen.



Full screen : Monitor screen is full screen, in order to view easily.

PTZ speed: User can control the PTZ speed according to need

Video operation interface is shown as follows:



Description: when the window is selected, the border of the window will become red. Double-click to select the screen, and the screen automatically changes to full-screen mode. To return to its original state, please double-click the screen again.



Video panel ; Video panel is some shortcut keys to achieve functions , where is the video shortcut key , is the camera shortcut key, is the monitor shortcut key, is the voice intercom shortcut key, have not defined.

Resolution: the size of the currently selected video. Currently supports two sizes: 1280x720 640x480 and 320x240.

Mode: set the video light mode, and remove the jitter impact of the image as per the electricity frequency. The following three modes are used: 50HZ/60HZ /outdoor model. Generally, indoor mode use 50Hz or 60Hz, outdoor mode should be set as per the real camera working environment.

Vertical flip: the video upside down.

Horizontal flip: Reverse the video.

Mute: Close the sound of the ip camera.

Video Panel: Shortcut function keys will be displayed on monitor screen, which can take photos, video and realize the function of voice intercom .

Sound Alarm: If selected, when the alarm device is triggered, computer sound alarm. If not, computer is mute.

Connection: Connect the selected device address, and display images in the current window

Disconnect: Disconnect the selected video connection, and stop displaying video. If video recording is ongoing, the operation will stop simultaneously.

Snapshot.: Photograph the selected device and save the photographed image.

View Snapshot: Open image folder to view the pictures.

Start/Stop the video record: Start or stop the video record of the selected device.

Start/Stop all of the video record: Start or stop the video record of all the connected devices.

Watch the video: Open video folder and view the saved video segments.

Intercom: Used for users who want to talk thought internet.

Functional description of the set-up options:

5.1 Live Video

For viewing video, in any case you can click on this button to enter the video mode to watch.

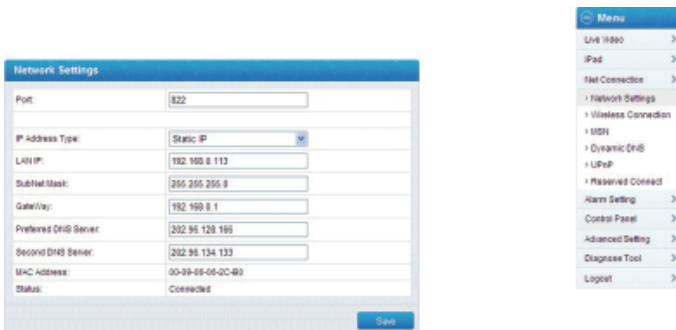
5.2 Ipad

Used to view by ipad.

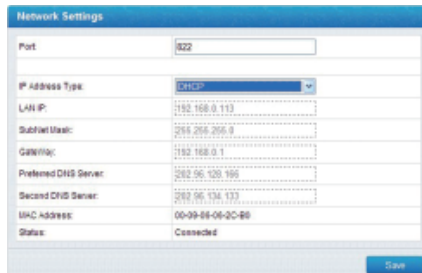
5.3 Net Connection :

Set the parameters associated with the network connection.

5.3.1 Network Settings



5.3.1.1 to obtain IP address automatically (DHCP):



Senior operating instructions:

All connections: Used to connect with all of the increased IP camera.

All disconnect: Used to disconnect with all of the increased IP camera.

Brightness: used to set the brightness of the image.

Contrast: used to set the contrast of the image.

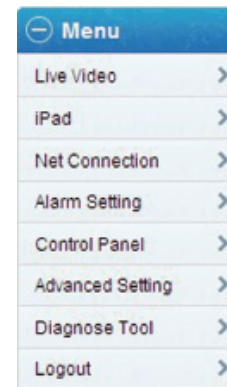
Color: used to adjust the image color.

Saturation: used to adjust the image of the saturation.

The default color: set the default of the image parameters, typically use this parameters.

5 System Settings Options

Network camera page setup options are in the far right, when clicking the right arrow, the hidden settings page will be expanded. Click the left arrow, set the options as follows



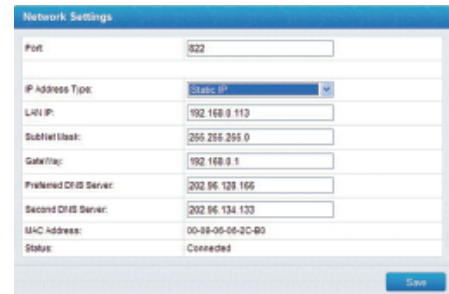


If user want to use the wireless feature, firstly, open **Enable:** , click on **Search Wifi Router** search for your area wireless router; secondly, choose the router name of user itself and fill in the wireless router password and the type of IP address .Generally, user can connect to the router now. Unplug the network cable at this moment, you should find the ip camera. Network camera supports WEP and WPA2 encryption. As the diversity of the router, if one encryption way is not connected on the router, the user should try to connect to another encryption method.

5.3.3 MSN

Used to add MSN account. People who have the MSN account can have the IP address, then can access to ip camera.

Select DHCP, device will automatically obtain the IP, which is not fixed (this feature requires the router to support DHCP protocol, and this feature should be activated).



5.3.1.2 using the specified IP address (static IP): To specify the equipment IP, it is required to manually fill in IP address. Fill in relevant information by the Depository and click on the "Save" button. This function of equipment need to restart to take effect.

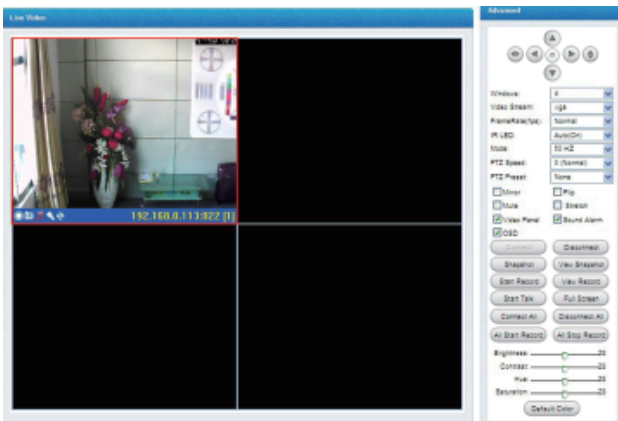
Gateway settings generally use the default settings, and the device uses the router's IP address as the gateway.

5.3.2 Wireless Connection

1, the device supports WiFi wireless capabilities. If user's camera supports wireless networking function. After setting up WiFi parameters, such as Password, Authentication parameters, please select "Enable" and restart the device. Then, the user will be able to access the network through a wireless network of cameras. (Wireless settings must be in strict accordance with the password authentication method parameters of the wireless router, otherwise, it can not connect wireless camera .

different cameras, each camera needs a different port, such as 81,82, etc. and so on.

6 Alarm Settings



When user want to enable the motion detect, holding down the left mouse button on the image, dragging the mouse, and the green part is the selected area. when somebody or something break into the green area ,ip camera will alarm and trigger according to user's setting.

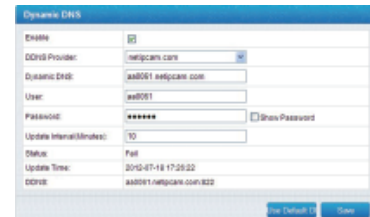
6.1 Motion Detection

Motion detection: Used to open the mobile detection

E - mail alarm: Used to send photos to the specified mailbox when there is an alarm.

FTP alarm: Used to send photos to FTP specified server. when there is an alarm.

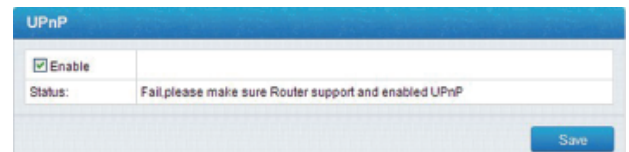
5.3.4 Dynamic DNS



The device supports third-party's domain name resolution,dynamic DNS of Www.3322.org and www.dyndns.org. Also the equipment comes with a globally unique domain name. User can choose it himself. Generally speaking, users often use .

5.3.5 Upnp

Upnp is to realize automatic port mapping function. If the camera is connected to a router. In order to access to the cameras through WAN, it is required to open a specified port of the router to the camera. (This feature requires router support, and this feature should be open. Without this feature, you need to manually set up port mapping in the router). If the upnp enabled successfully, the below figure will be displayed.



5.3.6 Reserved Connect

This page is used to set the camera's external ports, the default value of 80. If you want to visit the multiple cameras in a same local area network through WAN, in order to distinguish

Server: Used to set the user's mail address.
 Port: Used to set the port of mail server ,usually it is default values.
 Sender: Used to send the user's mail address.
 Password: Used to send the user's mail password.
 Receiver: Used to fill in the recipient's email address, when there is alarm ,it will send photos to this mailbox. My server requires authentication: To select the default

3. FTP Setting

Server: Used to set the user's FTP server address.
 Port: User's port of FPT server, usually it is default values.
 User: User' name to long in FTP server.
 Password: User' password to long in FTP server.
 Folder: Users upload images to FTP server folder .
 HTTP Alarm Setting: When an alarm is triggered, alarm information will be send to the user's HTTP site. Set as follows:

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HTTP alarm: Used to send messages to HTTP site when there is an alarm.

Sensitivity: For motion detection sensitivity, the smaller the value is, the higher the sensitivity is. Usually, user use default value. And also sensitivity can be set by user itself.

Alarm Duration: Use to sets the duration of Alarm.

6.2 SMTP Setting

When there is an alarm ,you can send e-mail to the specified mailbox exactly, we set gmail mailbox as an example.

Users: the name of the added user

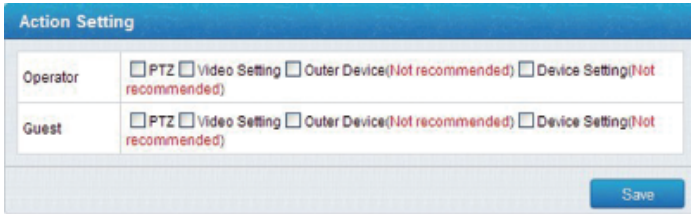
Password: the added password of the user

Permissions: new users can be divided into administrators, operators and guests, administrators have highest authority.

7.6 Change Password: Used to change the login password.

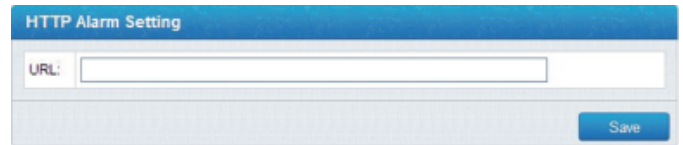
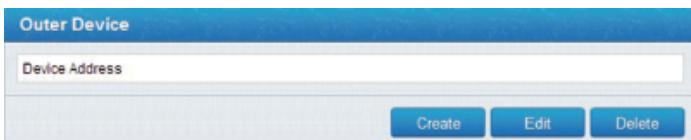
7.7 Anonymous Access: In some occasions, if you hope everyone can directly access ip cam ,you can specify a default identity anonymous users to login.

7.8 Action Setting: used to configure different users to carry out operations.



7.9 Date and time: system time of the equipment.

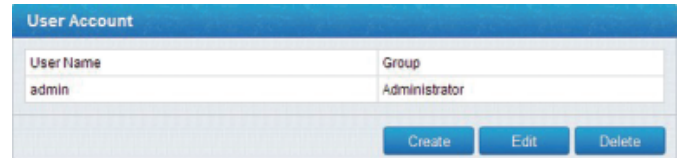
7.10 Outer Device: used for monitoring multi-screen at the same time. Users can also increase the number of network camera with a monitor screen, so it is convenient to manage. Click New, enter into the additional options.



7 Control panel

7.1 System Information: Used to display version information and operating information.

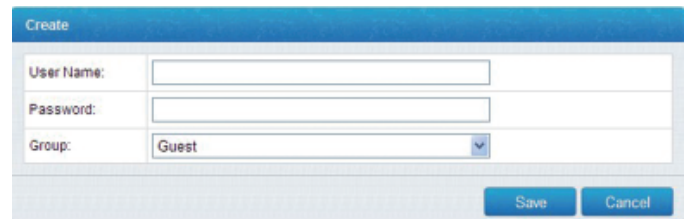
7.2 Device information: Used to set the name of the equipment and the login greeting.



7.3 Video Stream: For users to view the events of equipment for fault diagnosis.

7.4 Log: Used to check the information of visitors of camera.

7.5 User Account: Used to increase the landing of the user, click New, and increase accounts.

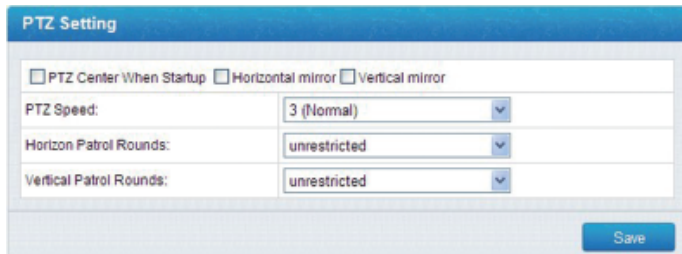


7.12 Download Ocx2: Used for user to download and install Ocx2 control.

7.13 Language: Used to select the appropriate language version.

8 Advanced Setting

8.1 PTZ Setting: used to set the rotation of PTZ, when user choose reverse rotation, the head will follow the arrows to the reverse detection, this feature is used to solve the camera when it is inversion.



The screenshot shows the 'PTZ Setting' window. It contains three checkboxes: 'PTZ Center When Startup', 'Horizontal mirror', and 'Vertical mirror'. Below these are three dropdown menus: 'PTZ Speed' set to '3 (Normal)', 'Horizon Patrol Rounds' set to 'unrestricted', and 'Vertical Patrol Rounds' set to 'unrestricted'. A 'Save' button is located at the bottom right.

8.2 PTZ Preset: Use to sets the PTZ speed.

8.3 Device Setting: Used for download or upload the information of equipment configuration, and also parameters can be recovered to factory Settings.

8.4 update the software: Used to update the software version

8.5 Update webpage: Used to update the version of the page

8.6 Rboot Device: Used to restart equipment when it is needed.

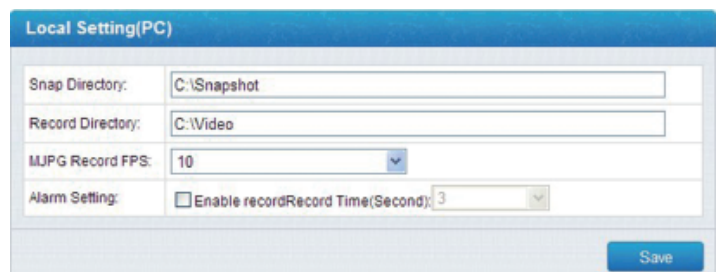


The screenshot shows the 'Create' window. It includes a note: 'Device Address can be IP or DDNS, for example: 192.168.1.2 or xxx.dyndns.org'. There are four input fields: 'Device Address', 'Port', 'User Name', and 'Password'. 'Save' and 'Cancel' buttons are at the bottom right.

User input URL, which can be LAN IP address or domain name for WAN.

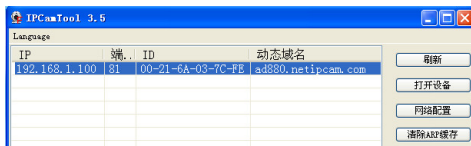
Also needed to input port number ,user name and password.

7.11 Local Setting(PC): used to set the video and photo storage path, the user can modify the storage location for their own need.



The screenshot shows the 'Local Setting(PC)' window. It has four input fields: 'Snap Directory' (C:\Snapshot), 'Record Directory' (C:\Video), 'MJPEG Record FPS' (10), and 'Alarm Setting' (checkbox 'Enable record' and 'Record Time(Second)' set to 3). A 'Save' button is at the bottom right.

For user's convenience, IP camera supports DDNS feature. Each IP camera has a unique global domain name, which is marked on device body. Also, user can obtain the domain name via IP Cam tools. Please refer the figure attached below.



If user wants to visit domain, he/she just needs to do port mapping on router (How to do will be explained in the following pages). Then, user can direct access to the domain name, such as, <http://aa0061.netipcam.com:822> is the port number of device.

The device also supports third-party domain name resolution, currently supports www.3322.org and www.dyndns.org. If users need a third party domain solution, he/she can access the appropriate site and apply for the dynamic domain. Then, fill the applied domain information in the camera.

Next, we introduce how to do port mapping on router. Two methods are available.

1. 1.Mapping port automatically via Upnp on router.
2. 2.Establish virtual server via setting router.

Above two methods can be finished on GUI web page of the router. We recommend No.1 solution.

If user select No.1 solution, he/she should ensure the router support Upnp protocol, and enable Upnp port mapping feature, the following introduction takes TP-LINK and the DLINK router as example to show how to activate upnp port mapping function and how to establish a virtual server .

9 Diagnose Tool

Diagnostic Tools:Used to check the unusual situation of equipment, then help users to solve the network connection problems.

10 Logout

Used to logout and re-login the device.

11 How to Access IP camera via WAN(Wide Area Network)

Tips:

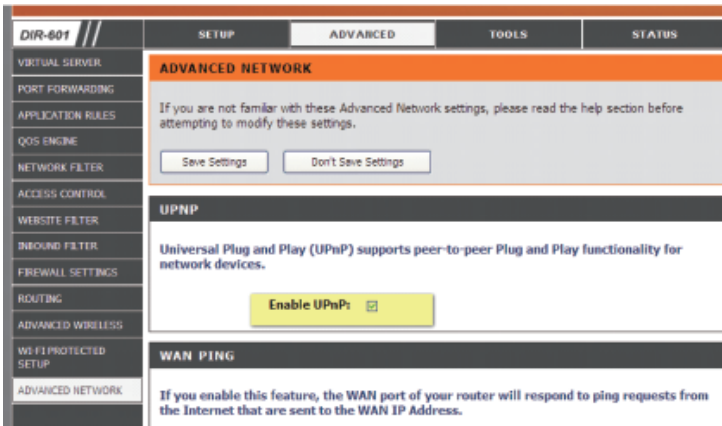
DDNS: Dynamic DNS, also called as dynamic domain name, is used to handle the problem that user's device doesn't have fixed IP while accessing Internet. With assist of DDNS, user can connect to his/her IP camera directly via DDNS.

If user wants to access his/her IP camera via WAN, two conditions, mentioned as follows, must be met.

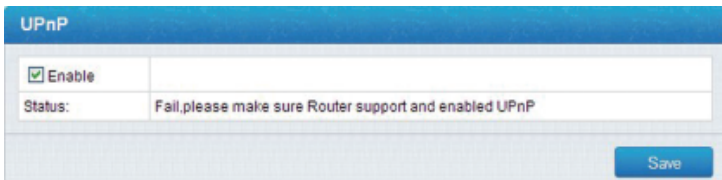
1. User knows the WAN IP address or domain name of the IP camera.
2. If IP camera connects to a router, the corresponding mirror port of router must be set for IP camera, so that user can access the IP Cam located in LAN through WAN.

Most users don't have fixed IPs. Every time when the device connects with Internet, networking service operator allocates a dynamic IP to the device. If the connection breaks and rebuilds, a new IP will be allocated again. Normally, user doesn't know the IP of device. DDNS feature can overcome this problem. As long as user knows the dynamic domain name, he/she is always able to access his/her networking device.

1. Log in to the device page "forward rule">> "UPnP Settings", ensure that the current UPnP state is "opened" as shown below

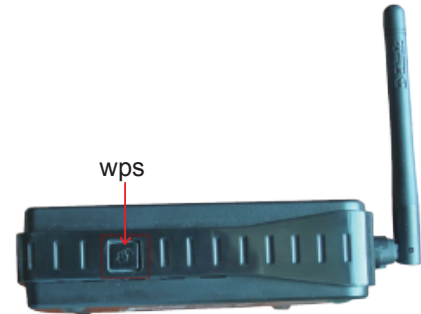


2. Log on to network camera, open the Device page "Network Settings">> "UPnP Settings", choose to "enable the UPnP feature" and click "Save". It will cost a few seconds to update the UPnP success, as shown below



If you use D-LINK routers, please refer to this note.
i) How to set UPNP port mapping:

1. Push the button of WPS on D-Link router till there is blue light flash



2. Push the button of WPS on IP Camera till there is blue light flash, then IP camera connects to the D-Link router.

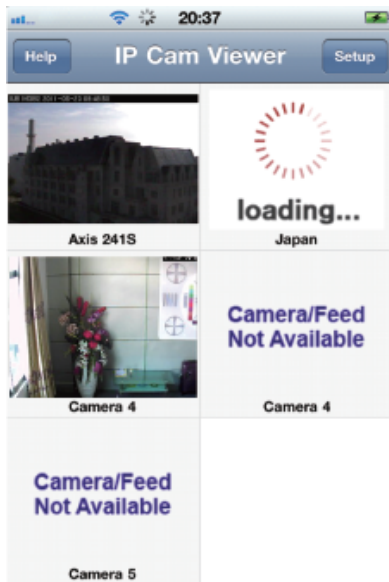


intelligent mobile phone, iPhone or Android-OS(Operation System) based mobile phone. As follows below, we take iPhone as example to show how to set IP Cam Viewer.

1. Download IP Cam Viewer software from CD delivered in package box to your intelligent mobile phone. Now, IP Cam Viewer have iPhone version and Android-OS version. Please confirm your mobile phone has iPhone OS or Android-OS and choose the correct software version.

2. Install IP Cam Viewer.

3. Run IP Cam Viewer, shown below,

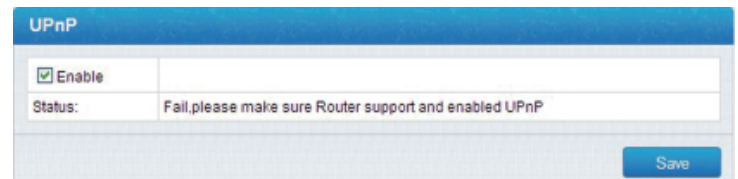


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3. Settings finished

How to establish virtual server

1. Open the router GUI page "forward rule">> "virtual server", as shown below,



Enter the IP address and network camera port, and then "Save Settings"

3. Settings finished

Tips:

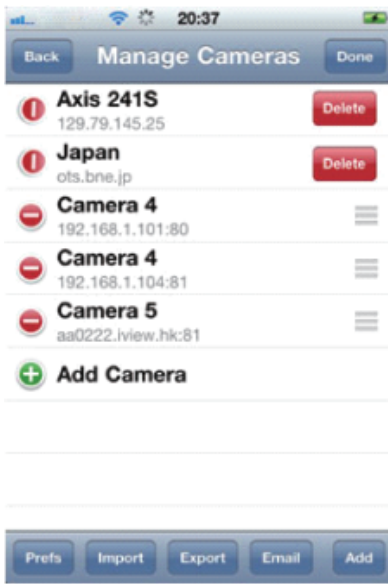
In our test, we found that some routers will give higher priority to the virtual server port mapping. If both the virtual servers and UPnP port mapped, and two different IP address are conflicted, the router will connect to the specified virtual server IP address. This will leads to UPnP mapping not useful, although it is set successfully.

Not recommended to set both virtual server and UPnP port mapping in the same.


You can access your IP Camera through WAN after finish setting up dynamic DNS domain name and port mapping.

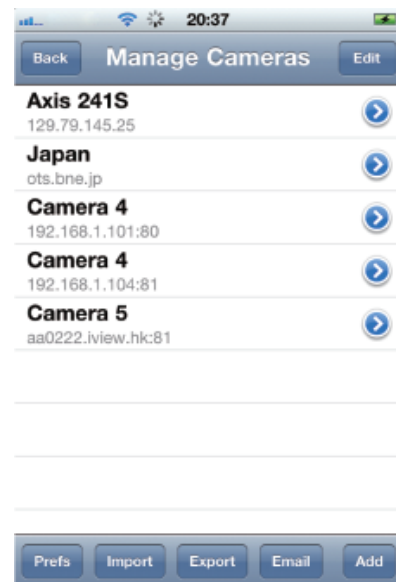
12 How to Access IP Camera Through Intelligent Mobile Phone


With the assistance of professional client software IP Cam Viewer, you can access any online IP Camera anywhere through

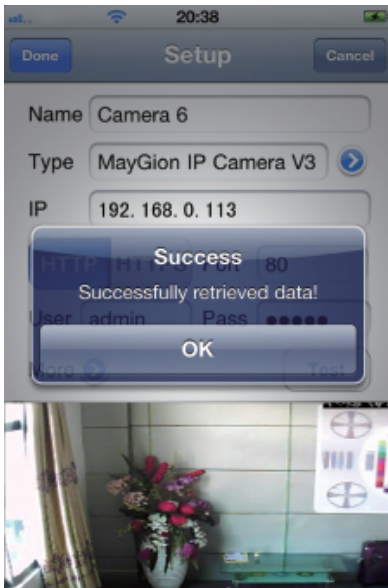


Click button  **Add Camera** to add device,

4. Add IP cameras. Click button  to setup configurations.



Click button  , you can find the menu below.



Click button OK and go back to main menu shown as follows,



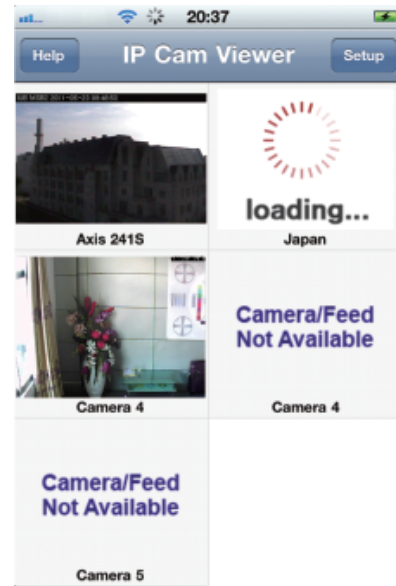
Please input the parameters correctly following the introduction below,

- Option Type: choose Type `MayGion IP Camera V3` as device type.
- Option IP: input the IP Address OR Domain Name of the IP Camera.
- Option Port: input the Port Number of the IP camera.
- Option User: input the User Name of the IP camera.
- Option Pass: input the Password of the IP camera






You can control the rotation directions of the IP camera through the direction button, upward, downward, left and right. Except the four direction buttons, the rest buttons are reserved for future functions.

Thank you for reading the manual.
This ipcamera have wpa



You can choose any IP camera displaying in the client software and run PTZ operations. Click the IP camera channel and the image will be displayed in full-screen scale.

Click button  to shot photographs and save the pictures in mobile phone. You can click button  to return main menu and click button  to display PTZ operation menu, shown as follows.