

NEXXT[®]

S O L U T I O N S



Xpy330

INTEGRATED WIRELESS | IP CAMERA



Built-in
micro SD memory
card slot



IO ports for alarm,
smoke detectors,
door sensors or any other
external alarm device



Ultra wide
coverage and sharp
video images



View your
camera using the
integrated mobile
web app



Wireless
connectivity



Two-way
audio capability

Model: AILPT324U5

Integrated Wireless IP Camera with IR cut-off filter

INTRODUCTION

Thank you for purchasing the Nexxt Solutions XPY 330 Camera. Featuring an infrared cut-off filter, our new XPY is an integrated wireless IP Camera solution that combines high quality digital video with network connectivity and a powerful web server to bring a clear picture to your desktop or mobile phone from anywhere on your local network or over the Internet.

BEFORE YOU BEGIN

- This camera is intended for indoor use only.
- Use the supplied power adaptor to connect the camera to the AC mains (5.0V DC, 1.5A).
The warranty does not cover any damage caused by applying the wrong voltage.
- Never attempt to disassemble the unit. The warranty does not cover damages as a result of tampering with, or the improper alteration of the device.
- Do not point the camera at the sun or at any other strong light source.
- Do not install the camera where it can be exposed to rain or water
- Wait at least 10 seconds when powering the camera on and off. Otherwise, it can cause serious damage to the CPU.
- When updating the camera, please make sure that:
 - the camera is connected directly to a computer using a network cable;
 - all other programs and windows on the computer have been closed;
 - the camera remains connected during the entire firmware update.

FEATURES

- The camera combines a high-sensitivity 1/4 CMOS image sensor, an advanced IR cut-off filter with a powerful wireless web server in order to capture lifelike images from anywhere, and to transmit them instantly on your local network or over the internet.
- Can be used on WiFi or wired networks.
- It uses the H.264 hardware compression technique, which can display high-quality and real-time video transmission at 25FPS on a LAN/WAN connection.
- Selectable image resolution of 640x480 and 320x240 pixels.
- The system can be expanded at any time by adding multiple cameras.
- Input and output ports with smart motion detection to connect sirens, smoke detectors, door sensors or any other external alarm devices.
- Two-way audio capability with built in speaker and microphone.
- Convenient micro SD memory card slot for saving recorded images.
- View multiple cameras in split screen view or choose full screen in order to monitor the activity from a single camera.
- Cameras can be viewed via standard PC or Mac browsers, including Internet Explorer, Safari, Chrome and Firefox.
- Infrared LEDs for night vision (up to 15 meters).
- Includes multi-level user management system, which can be configured with passwords for controlled access.
- Easy-to-use web browser controls. They also allow

quick configuration changes via the Settings menu.

- Compatibility with smartphones enables remote surveillance and camera control in real-time from any location.
- Supports image snapshots and image forwarding via email and FTP upload.

NOTES ON WINDOWS AND MAC COMPATIBILITY:

- IP camera setup should be completed on a Windows PC only using Internet Explorer.
- Live viewing, taking snapshots, recording and camera configuration are fully supported on computers with Windows operating systems.

Mac users are only able to:

- **view live images** via compatible web browsers including Safari, Firefox and Chrome, but are limited to streaming video from one camera at a time.

PACKAGE CONTENTS

Open the box and make sure all items listed below are included:

- Wireless IP Camera x1
- Wi-Fi antenna x1
- AC power adaptor x1
- Quick installation guide x1
- CD-ROM x1
(includes the IP Super Client software)
- Network cable x1
- Mounting bracket and hardware

NOTE: if any of the listed items are missing or damaged, please notify immediately the Nexxt Solutions reseller from whom you purchased the product for replacement or warranty information.

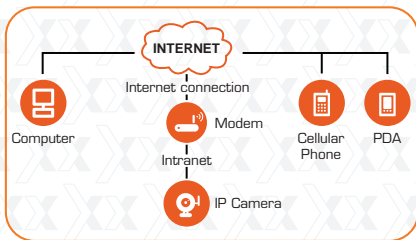
CAMERA INSTALLATION

Our WiFi Pan and Tilt Camera can be set up in minutes for instant monitoring and live viewing on your Windows computer and 3G Smartphone - all via your wireless network router or switch. For optional recording capabilities, simply install the IP Super Client software in your Windows PC and configure it according to your particular needs.

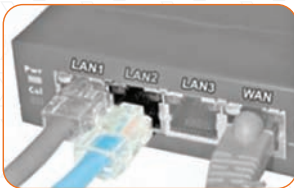
1. Begin by screwing the bracket to the camera. Connect the camera using the power adaptor that comes with the product.

2. Using a standard Ethernet network cable, connect the camera to your network.

The camera can either be connected to a router/switch or directly to a PC with an Ethernet network cable. We recommend setting up the camera on your network using a wired connection prior to using the device in a wireless configuration.



Step 1: Connect one end of the network cable to the RJ45 interface of IP camera.



Step 2: Connect the other end of the network cable to the Ethernet switch, router or IP sharing device.

Step 3: Plug the power cable to the wall outlet and turn on the device.

3. The camera can also be connected to a computer directly.

Step 1: Connect one end of the network cable to RJ45 interface of IP camera

Step 2: Plug the power adapter to the DC jack of the IP camera and turn it on.



4. Continue with the setup of the camera (as described in the following chapter). Once the camera has been successfully connected to your network, it can be mounted on the wall or ceiling using the wall plugs and screws included with the device. (The camera set up must be performed using Windows operating system only.)

Please note that if you are using the camera on a wireless network, you will need to configure the camera for wired use, prior to configuring wireless settings in the device (later described in this manual).

SYSTEM REQUIREMENTS

Minimum Hardware Configuration

CPU:	Pentium 1.6GHz
Memory:	256MB
Sound Card:	for audio monitoring and two-way communication
Hard Drive:	to record video, minimum 40 GB

Software environment

System: 32 or 64 bit Windows2000/WindowsXP/Windows2003/Windows Vista/Windows 7/Mac OS etc. **Browser:** Internet Explorer/Mozilla Firefox/Google Browser TCP-/IP network protocol.

Accessing the IP camera Using the IP Super Client Software

Note: The IP network camera is designed to work in a local area network (LAN) or over the internet. For the first method, we highly recommend using the software included in the supplied CD. The installation steps are described below.



Introduction

The IP camera Super Client is an easy-to-use software designed for surveillance applications with multiple cameras. This software includes PT controls, recording, alarm notifications, in addition to a central management feature that allows the administration, configuration and access control settings for each individual device.

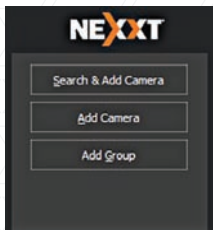
Functions:

- * Supports up to 81-video monitoring in one screen.
- * Supports multi-level structured device list.
- * Supports scheduled recording with alarm.
- * Supports panoramic recording.
- * Supports motion detection, sound alert and external alarm trigger.
- * Supports audio, SMS, SMS modem, dialing, email, FTP and alarm output switch.
- * Supports inquiries, browsing of alarm and operation log records.
- * Supports multi-level access management.
- * Supports remote login to check records and alarm records.

IP Camera Super Client

Adding devices

After installing the client software, we need to add the devices. When running the program, the device list on the right of the main interface is empty; there is a guide to show you how to add the devices.



Click the right button to choose **“add new device”** or **“add new group”**. This program supports a multi-level structure to manage existing devices.



Now, let's take the 300-series and 330-series as examples to introduce the adding device option.

300-Series Image:

The screenshot shows a configuration window titled "Add F Series Camera". At the top, there is a "Name:" field with the value "IP Camera 1". Below this is a tabbed interface with tabs for "Others", "Camera Parameters", "Alarming", "Record", "Schedule on Action", and "Additional Information". The "Others" tab is active. It contains the following fields and options:

- Access Address:** A text field containing "http://192.168.0.239:81" and a "Find" button. Below it is a note: "For LAN, please input the camera's LAN IP address, such as http://192.168.1.126:81. For remote access, please input the camera remote address, such as http://abcd.ipcam.io".
- User name:** A text field containing "admin".
- Password:** An empty text field.
- Maximum frame rate:** A dropdown menu set to "30".
- Support PTZ**
- Flip Image**
- Mode of getting data:** A dropdown menu set to "Automatically".

At the bottom right, there are "OK" and "Cancel" buttons.

330-Series Image:

The screenshot shows a configuration window titled "Add H Series Camera". At the top, there is a "Name:" field with the value "IP Camera 1". Below this is a tabbed interface with tabs for "Connect", "Others", "Alarming", "Record", "Camera Parameters", and "Additional Information". The "Others" tab is active. It contains the following fields and options:

- Access Address:** A text field containing "http://192.168.0.100:81" and a "Find" button. Below it is a note: "For LAN, please input the camera's LAN IP address, such as http://192.168.1.126:81. For remote access, please input the camera remote address, such as http://abcd.ipcam.io".
- User name:** A text field containing "admin".
- Password:** An empty text field.

At the bottom right, there are "OK" and "Cancel" buttons.



Name: name assigned to the camera, used to distinguish it from other devices connected.

This name will be displayed on the camera list.

Basic information: the basic information used for connecting the camera, such as connection method, username, password, PT protocol, etc.

Device parameters: set size of the image and frame rate. Not all series have this option available.

Alarm: This menu contains all the alarm-related settings.

Record: This menu contains all recording related settings.

Connection Information

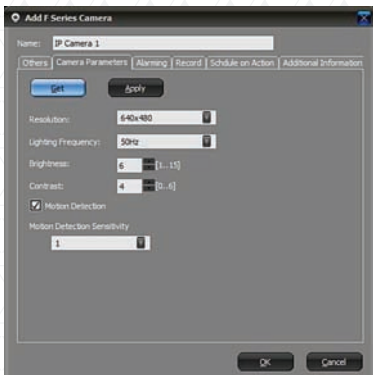
IP/Domain mode: This mode provides LAN access to the camera, or to a camera which has a domain or fixed IP. To use this mode, an incoming port should be assigned. By default, this port is set to 81.

Username/Password: The username and password used to access the camera.

Forwarding Server: It provides access to videos by retrieving the files from the server. This requires the setup of server settings. This mode cannot support PT control.

Support P2P: Supports P2P technology. This mode cannot support PT Control.

Camera Parameters 300-Series Image:



330-Series Image:



This menu is used to quickly set the camera parameters. Not all models have this function. Click the Get button to obtain the current settings. Click Apply or Set depending on the model to save your modifications.

Alarm

It includes all the alarm-related settings. Please refer to the Alarm section for more details.

Record

It includes all the recording-related settings. Please refer to the Recording section for more details.

Freq./Time Setup

It is used to schedule a timing action to change the lightning frequency.

Additional information


It is used to enter personal-related information, such as user name, telephone, address, and memo.

IP Camera Super Client

Introduction to the main window

Below is the main window of the client software.



Device Tree Components: this tree provides a visual representation of all detected devices. Supports multi-level structure from which users can connect or disconnect devices in a particular group. Users can double click on a device to connect it and see the video in the display area, or click the  **Camera/Group Options** button to modify the settings.

Display Control Panel: users can choose between full view in a single screen or a split screen configuration of 4, 9, 16, 25, 36, 49, 64 or 81 frames.

PT Control Panel: direction buttons for controlling the

Pan and Tilt feature of the camera.

Main Menu: Allows the user to connect or disconnect all the devices, open the history manager, system setup, and other functions.

IP Camera Super Client

PT Control


This feature is available based on the model of the camera. If your camera supports the Pan and Tilt feature, enable it using the client software. Once enabled, the movement of the camera can be controlled with the buttons in the PT control area.

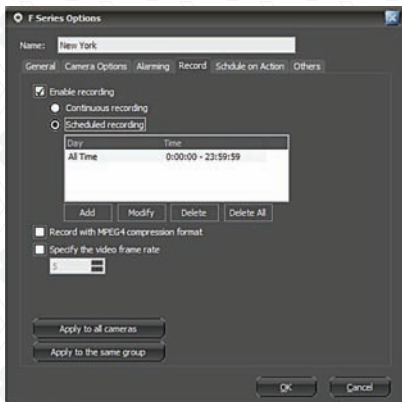


IP Camera Super Client

Video Recording

Video recording is a basic function of the client software, where users can choose to record continuously, schedule a recording or setup a recording whenever an alarm is triggered. Under the Scheduled recording option, users can set specified dates and times. Records will be then saved to the assigned folder path set in the options settings, and will automatically overwrite the earliest files when the disk is full. The user can set the parameter of how long to keep the files. For the IP camera with MJPEG format, the client software can compress the saved data into MPEG4 format, which can be used to reduce the usage of space on the disk.

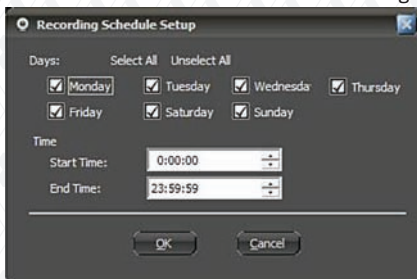
To set record function, right click the device and choose Camera Options or click the  **Camera/Group Options** button. Next, go to **Alarm** tab.



Enable record: when selecting this option, the recording function will be enabled.

Continuous recording: the client software will record all the time.


Scheduled recording: users can appoint a certain period in which the client will start recording.

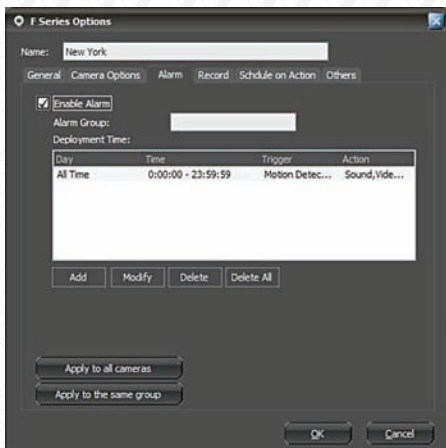


IP Camera Super Client

Alarm

The Client software supports various kinds of alarm triggers, alarm events, and can be used to set an alarm schedule.

Select the camera in the display area or from the device list, click the right button to choose **Camera Options**, or click the  **Camera/Group Options** button. Next, go to Alarm tab.



Enable alarm: In order to use the alarm function, you must check this option.

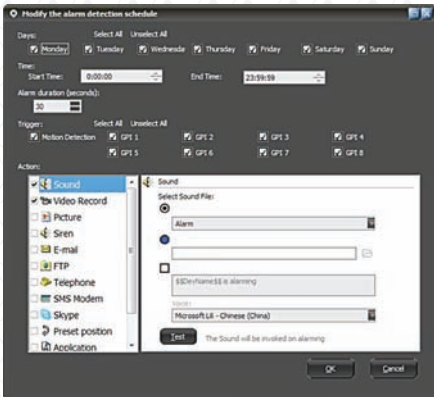
Alarm group: It is a user-defined name to identify and link cameras belonging to the same group.

Alarm lasting time: The period of time the software will keep the alarm active. That will have the same duration as the event causing the alarm, which

Nextx Solutions - Integrated Wireless IP Camera with IR Cut-Off Filter

includes the capturing of audio and the video recording time.

Schedule trigger: Sets the schedule during which alarm can be triggered.



Days: specify the day(s) of the week the alarm will be triggered.

Time: sets a starting and ending time for the alarm.

Trigger mode: specifies the type of event that would trigger an alarm.

It currently supports motion detection and alarm sensor input (depending on the model).

An action on alarm defines how the software will respond once the alert is triggered.

The actions supported are: sound, video recording, snapshots, alarm siren, email, FTP uploading, SMS, calling, SMS modem, alarm-output switching, program executing and URL opening.

Below is the detailed explanation for each alarm action.

Sound: when an alarm is triggered, the program will play a sound on the computer to frighten the intruder. Sounds can be customized.

You can choose the sound from the list in the program. Select the sound and click OK to save the setting.

You can also choose other sound files from your local disk drive. In other words, you can record "Catch the thief" in a file, save it and then select the sound file by clicking the folder button to add the file you want.

If you want to read a text on alarm, you can check the "Speech" icon and edit the contents to be read. In addition to reading the normal text, the program also displays the description of pre-defined features, such the name of the alarm device and alarm time.

These pre-defined contents appear within the "\$\$" symbols. The software includes the following pre-defined content:

\$\$DevName\$\$: the name of the device sending the alert signal.

\$\$AlarmTime\$\$: displays the time when the alarm occurred.

\$\$Trigger\$\$: displays the event triggering the alarm.

If you only need to read a text having no audio being played, you can choose "sound file" without specifying the use of one. Check the "Speech" box below.

Sound

Select Sound File:

Sound
Alarm

Sound File

Speech
The \$\$DevName\$\$ alarm is going off

Voice:
Microsoft Simplified Chinese

Test This sound will be played when the alarm goes off

Email: when the alarm goes off, the program will send an email acknowledgement with the pictures or video recording attached.

Attachment: the user can choose to send emails with or without attachments, or with pictures or videos. However, when choosing to send an attachment, the user needs to have the live recording function enabled first.

Receiver: it is the email address to which the alarm acknowledgement will be sent to.

Copy: it is the email address or addresses to which the alarm acknowledgement will send a copy of the message and attachments. Use commas to separate multiple email addresses.

Test: when you click this button, the program will send a test email. Users can check whether it was correctly sent or not. If sending fails, the program will show you the details of the failure.

Users have the option to choose the mail server according to their own needs.

The image shows a configuration window for email settings. The title is "E-mail". It includes fields for "Receiver:", "Attachment:" (with a dropdown menu showing "First Two Pictures"), and "Sender". There are two radio buttons: "Using System SMTP Server" (selected) and "Using User-defined SMTP Serv". Below these are fields for "Mail Send (SMTP) Server:", "Port:" (set to "25"), "Account:", "Password:", and "Verify Identity" (checked). At the bottom, there is a "Test" button and another empty input field.

FTP Uploading: when the alarm is triggered, the program will upload the snapshots to the FTP server.

Upload file: three options are available: picture only, video only, or both picture and video.

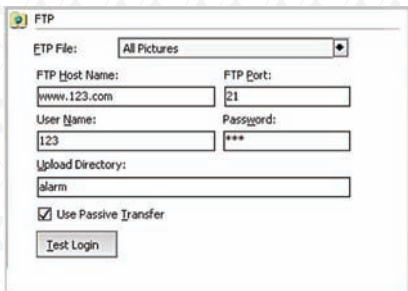
FTP host address: account information required to access the File Transfer Protocol host.

FTP port: the default is set to 21.

User name: the user name used in the FTP login window.

Password: the FTP password used in the login window.

Upload Directory: This is the path used for saving uploaded files. The program will create a folder using the time the alarm went off. The pictures and videos will be saved to this directory.



The screenshot shows a dialog box titled "FTP" with a yellow speech bubble icon. It contains the following fields and options:

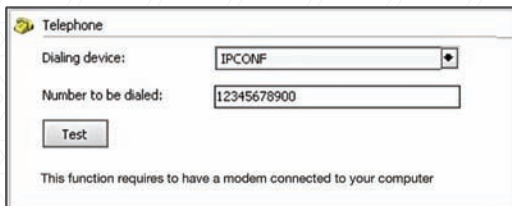
- FTP File: A dropdown menu set to "All Pictures".
- FTP Host Name: A text box containing "www.123.com".
- FTP Port: A text box containing "21".
- User Name: A text box containing "123".
- Password: A text box containing "***".
- Upload Directory: A text box containing "alarm".
- A checked checkbox labeled "Use Passive Transfer".
- A "Test Login" button.

Dialing: when the alarm is triggered, the program will dial the assigned telephone number automatically using the PC's modem. This service requires a modem to be installed on the PC which supports dialing functions.

Dialing device: choose the FTP modem from the list that supports the dialing feature.

Number to be dialed: the number which will be dialed once the alarm is triggered.

Test: Click **Test** to make sure this setting is functional.



The screenshot shows a dialog box titled "Telephone" with a yellow speech bubble icon. It contains the following fields and options:

- Dialing device: A dropdown menu set to "IPCONF".
- Number to be dialed: A text box containing "12345678900".
- A "Test" button.
- A note at the bottom: "This function requires to have a modem connected to your computer".

SMS modem: when an alarm is triggered, the program will send a Short Message Service transmission to the assigned phone through the modem.

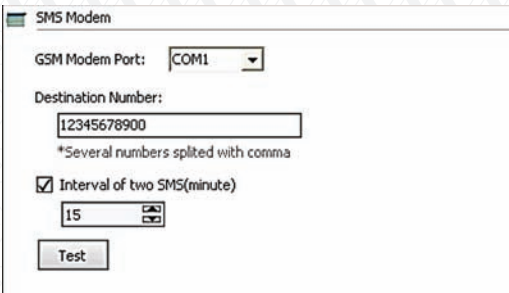
This service requires an SMS modem to be installed on the PC.

SMS modem port: the serial port number which is attributed to the SMS modem.

Receiving phone number: the enabled-SMS land line or mobile phone number which will receive the incoming message when the alarm is triggered.

SMS interval (in minutes): defines the time interval in minutes that the SMS alerts will go off while the alarm is active.

Test: click this button to test this service, the program will send a SMS to the assigned phone number.



The image shows a software window titled "SMS Modem". It contains the following fields and controls:

- GSM Modem Port:** A dropdown menu with "COM1" selected.
- Destination Number:** A text input field containing "12345678900". Below it is a note: "*Several numbers splited with comma".
- Interval of two SMS(minute):** A checkbox that is checked, followed by a spin box set to "15".
- Test:** A button at the bottom of the window.

Skype: when an alarm is triggered, the program will use Skype to send Skype messages, text messages, Skype calls and call a mobile phone.

This feature requires for Skype to be installed on your computer. When the alarm is triggered, the program will call or open the Skype interface, so that it can execute the actions mentioned above. If Skype is not running, the program will automatically start Skype. You can download Skype by going to

<http://www.skype.com>.

Send Skype Message: this option sends a text “message” to the designated Skype account.

Send SMS: this option sends a text “message” to the designated phone. Please note that this feature requires a Skype account balance. To know more about using Skype to send SMS, recharge information, etc., please visit the official Skype website.

Call: it places a call to the designated Skype account or to a designated phone number. Please note that the “**dial a designated telephone number**” feature requires a Skype account balance. To know more about using Skype to make calls, please visit the Skype official website.

Test: click **Test** to make sure this setting is functional.



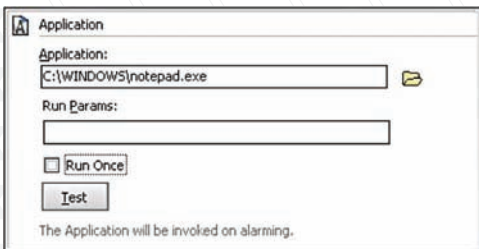
The image shows a screenshot of the Skype configuration dialog box. It has a title bar with the Skype logo and the word "Skype". The dialog contains three checked options: "Send Skype Message", "Send SMS", and "Call". Each option has a corresponding input field: "Receiver:" with the value "demoskype", "Mobile Phone:" with the value "13074665857", and "Skype/Mobile Phone:" with the value "13074665857". The "Message:" field contains the text "\$\$DevName\$\$ is alarming" and has a small icon of a person with a speech bubble. At the bottom left is a "Test" button, and at the bottom center is the text "Need to install Skype".

Application: when the alarm is triggered, the program will execute the selected program.

Program: it defines the path for the .exe file belonging to the selected program.

Run parameter: the run parameter values should be entered in this box.

Run once: this option will execute the command only when the alarm goes off for the first time, with no further action after that.



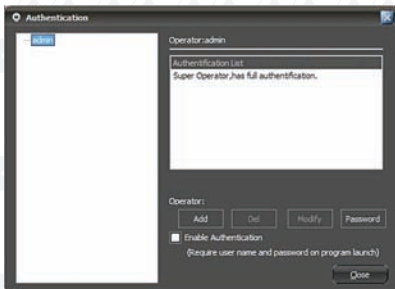
URL Link: when the alarm is triggered, the program will open the assigned URL. Usually, this is used to inform other systems about the alert.



IP Camera Super Client

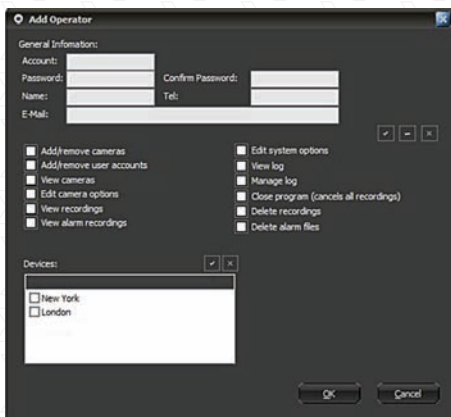
User Account Administration

The Client supports a multi-level management system, whereby different users are granted specific privileges and passwords for controlled access. This function is not enabled by default. Please click the Setup menu button on the lower right side of the dialog window and choose User Account Setup to continue.

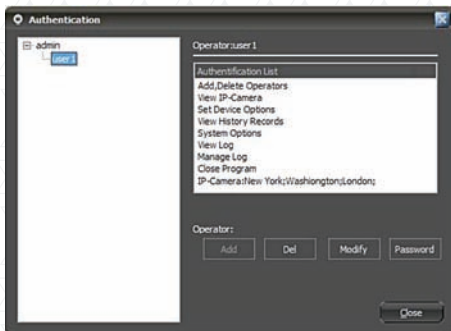


When this feature is enabled, the program will always request authentication from users. By default, the admin account enjoys full administrator privileges. This account can never be deleted; however, its password can be changed.

Add operator: click the **Add** button and the dialogue box below will appear.



Once you type in the account information and assign the corresponding permissions, click **OK** to save it. Privileges to add or remove accounts mean that the account operator can include or delete its dependant users. This takes effect only after logging in with this account.



Delete: the currently selected operator will be erased.

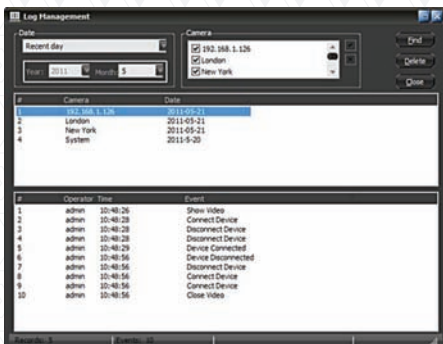
Modify authority: it changes the permission level assigned to this operator.

Change password: it allows the user to modify the existing password.

IP Camera Super Client

Log manager

The client software has log management function. It will keep records of user operation and device connection information. Click the Setup menu button on the bottom right corner of the dialog box, and then choose Log Management to open the window.



After selecting the desired device and date, click the **Find** button.

IP Camera Super Client

Records publisher

Users can remotely view videos and alarm logs using the records publishing tool from the client.

Click the Setup menu on the bottom right corner of the dialog box, and choose **Record History Web Publisher**. The following window will be displayed, as shown below.

By default, this function is not enabled. You must first select the **Enable History Publisher** option and click the **Apply** button to enable this feature. The LAN IP address will be displayed at this point. Users can directly view records in the LAN if the PC has a fixed IP address. Records can also be accessed by entering the IP address and adding the port number. If using a dynamic IP, then the DDNS feature must be active to be able to view this information remotely. This tool should allow users to register a DDNS account for free. The account name needs to be longer than 5 characters. Click on the **free account registration** option. The DDNS registration box will appear, as shown below. Fill the form and click the **Submit** button to save your settings. Once completed, it will exhibit the remote access URL. Please note that port forwarding needs to be set up directly on your router.



The image shows a 'DDNS Account Registration' window with the following fields and options:

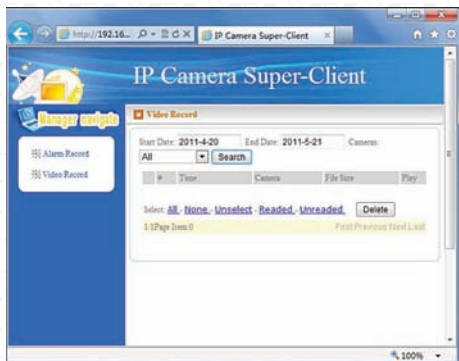
- Account: [Text Input] (Must)
- Password: [Text Input]
- Password Confirm: [Text Input]
- Your Name: [Text Input] (Must)
- Sex: Male Female
- Email: [Text Input] (Must)

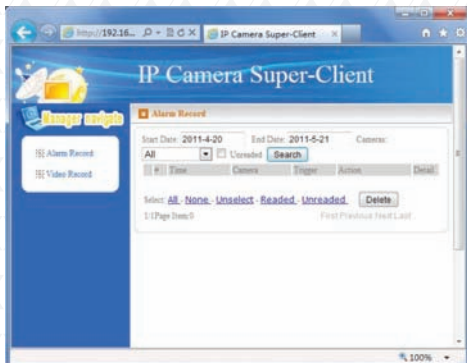
Buttons: Submit, Close

Users can set a password for controlled access permissions.

The Web server port is the port provided for remote visit. Normally, this value does not need to be changed, but if that port is being occupied by other devices, users can assign a different port number within the 1 ~ 65535 range.

When entering the URL in IE address box, a page like the one below this will be displayed.

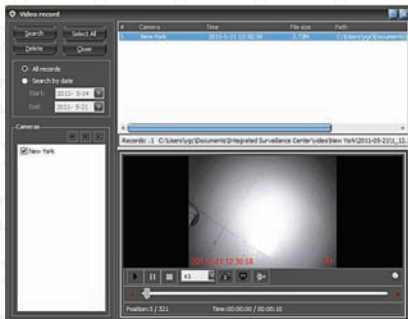




A list containing all the devices with recorded video files will appear. Next, click on any specific device, and a list of recordings identified with the date will be displayed at this stage.

When the operator chooses a certain date, the page below will pop up on the screen.

The list contains the files recorded that day. When you click on a specific file, it will play the video.



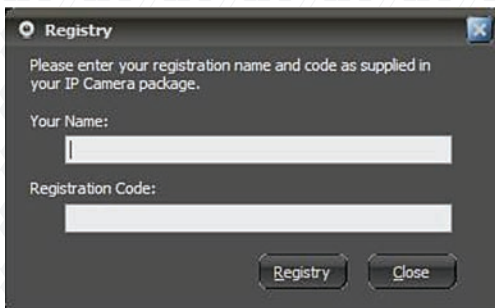
During playback, the user can rewind or forward the video, take a snapshot or invert the recorded images. The process to remotely access alarm records is the same as with video records.

IP Camera Super Client

Registration


Go to the **Setup** menu and select **Registration**. Enter the registration name and code, and click **Register** to complete the process.

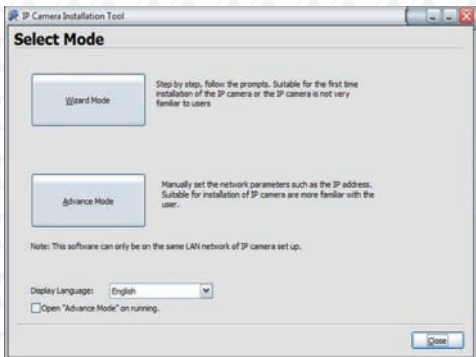
The registration name and code can be found on the supplied CD-ROM.



Web browser

When the IP camera is connected to the LAN through the router, you can operate the IP camera via the PC.

Once the supplied software has been successfully installed, you will also find the IP Camera Wizard icon  on your desktop. Double-click on this wizard, and the following interface will appear:



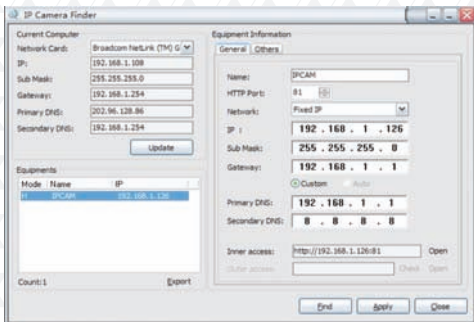
Wizard mode: this is for first time installation of the IP camera or if the IP camera is not very familiar to the user. This is a step-by-step process for successfully detecting and installing the IP camera.

Advanced mode: this is to be used to manually set network parameters, such as the IP address. This is suitable for users who are familiar with the installation of the IP camera.

You can choose to **open advance mode automatically** by clicking the corresponding option in the bottom section of the dialog box.

You can choose the preferred language by opening the **"Display Language"** drop-down menu.

The following interface is displayed when clicking on the **Advanced Mode** menu.



If network cable and power supply are correctly connected, the device type, name and IP address will be shown in the device list. (Otherwise, please confirm whether the power supply and network cable are functional).

In the interface above, the configuration information of the current computer is listed on the left side; the network configuration information of the selected camera is listed on the right side. The default IP address in this example is 192.168.1.126, and the HTTP port is 81.

Inner Access refers to the LAN access address.

Outer Access refers to the WAN access address.

Tip: Port forwarding setting is necessary for outer access, please refer to the router port forwarding section of the manual.

Device information exhibits the IP camera basic parameters.

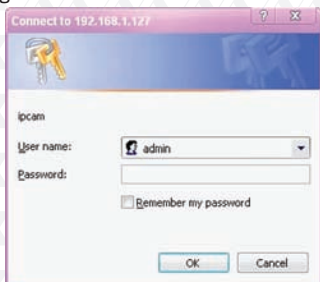
2. When the current computer has a fixed IP (namely non-DHCP IP), and the IP camera is used

for the first time, please click **Update**, so that IP address of the IP camera, gateway and DNS can be synchronous with the PC.

3. If it is necessary to manually modify the contents including camera name, HTTP port, IP address, submask, gateway, primary DNS server, secondary DNS server and so on, you must click **apply** after changes are made, and then click **OK** for access validation after entering the username and password of the IP camera in the pop-up dialog box.

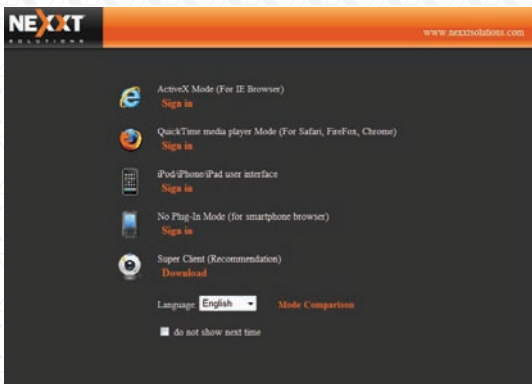
System Login

Open the Web page. You can open it directly by clicking the **Inner Access** or **Outer Access** on the **IP Camera Finder**, followed by the **Open** button located in the same dialog box. You can also directly input the corresponding address of the inner and outer access into the address bar of the web page, as the address shown in the picture above <http://192.168.1.126:81> (LAN); and <http://aodn.ipcam.so> (WAN). If the IP camera has been connected with the external network, the log-in interface below will appear when you open the web page through the LAN or the external network:



Input the authorized user name and password. The default user name of the camera is **admin**, and the password is left blank.

After successful authentication, the following page will be shown:



When you visit the IP camera for the first time, it will make you choose the corresponding language automatically according to the language version of the current web browser; other languages can also be selected.

Active X mode: this module offer users the most functionality and the best effects. Accessible via Internet Explorer, this module provides the best performance for local video and two-way audio talk-back, and it can be ran only after the Active X plug-in has been installed.

QuickTime media player mode: this mode applies

the QuickTime media player interface for FireFox, Safari, and Google web browser.

iPod/iPhone/iPad user interface: this mode is designed specifically for Apple mobile devices, such as iPod, iPhone, and iPad. This can only be used for monitoring, because it does not have the capability for setting up the IP camera.

No Plug-In mode: this mode is mainly used for most smart phones.

Integrated Surveillance Center: this directs you to install and use the IP Super Client software.

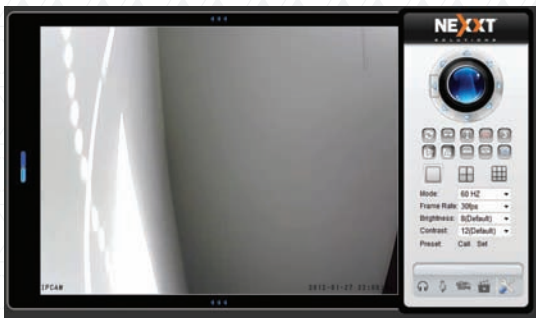
Do not show next time: after clicking this option, the selected page will not be displayed again when you visit the IP camera from that point forward.

Note:

1. The default User Name of the camera is admin, and the password is left blank.
2. Language selection no longer displays once selected, since it is saved in the local temporary files of the web page browser. However, when history files are deleted in the web browser, that information will be lost.

Operation


The Internet Explorer (IE) mode contains all the functions of the IP camera. The picture below is the video monitoring main interface. If this is the first time you visit the page, you will be required to install the ActiveX plug-in. Click to download, then click refresh after the download and installation process is complete.



After logging into the device, the monitoring image will be displayed on the left side of the screen. The panel where users can implement the basic parameters to operate the device will be shown on the right side of the frame.

Pan/Tilt




Direction control arrows  : click the arrow keys to aim the lens in the direction you wish to look.

 The camera returns to the center after rotating one full circle.

 Horizontal patrol  : Vertical patrol

 Horizontal mirror image  Vertical mirror image.

 Switch alarm input on  Switch alarm input off

   Single screen, four screen, nine screen display.

Mode: this value is set according to the frequency of the fluorescent light. If the frequency does not match the frequency of the light, markings will be seen across the screen.

Frame rate: the maximum video frame rate is 25fps. If the network broadband is low, you can choose a lower frame rate.

Brightness and contrast ratio: use it to adjust the brightness and contrast ratio of the screen.

Preset position call: when clicked, it will show a preset position list. The preset position is recalled when clicking any number from that list.

Preset position setting: first, reset the IP camera to its fixed position, click **call** next, and then choose any available number to store the currently selected position.



:monitor, this is used to enable the audio stream from the camera.



:Talk back, this is used to remotely speak and listen to people by the camera. Live audio can be recorded as well.



:Click this icon to begin video recording and save it to your local hard disk or SD card.




:Click this icon to take a snapshot image.

This button provides users a fast way to capture a single image of the video from the camera.



This button opens the device interface.

IP CAMERA SETTINGS

Click the device button  located on the right hand corner of the control panel, to enter into the device interface.

Camera Information

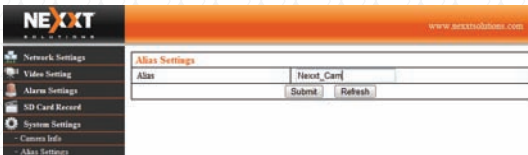
It displays the device ID, firmware, embedded Web UI version, SD card size, IP address along with other basic information pertaining to the camera.



Camera Info	
Camera ID	00-ah-ab-00-0b-04
Firmware Version	0.1.0.2.79
Web UI Version	v02.1.0.33
Alarm	IPCAM
Alarm Status	None
Factory DDNS Status	Success
UPnP Status	UPnP Success
Host IP Address	192.168.0.105
SD card size	0GB
SD card free size	0GB
<small>Insertion or removal of SD card, you need to re-plug the camera's power.</small>	
Language	English ▾
<input type="checkbox"/> do not show the first page	
<input type="button" value="Refresh"/>	

Alias Settings

The name assigned to the device that is used for displaying it in the IP camera finder, web page title and multi-camera viewing.



Alias Settings	
Alias	Nextt_Cam
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

Date & Time Settings

It's used for the internal time of the IP camera. The

Nextx Solutions - Integrated Wireless IP Camera with IR Cut-Off Filter device uses this time as the naming scheme for the saved recorded files on the PC or SD card.

The screenshot shows the NEXXT web interface with a sidebar menu on the left containing: Network Settings, Video Setting, Alarm Settings, SD Card Record, System Settings, Camera Info, Alarm Settings, and Date&Time Settings. The main content area is titled "Date&Time Settings" and contains a table with the following fields:

Date&Time Settings	
Clock Time	Friday, January 27, 2012 9:04:17 AM
Clock Timezone	(GMT -05:00) Eastern Standard(USA and Canada), Lima ▾
	<input type="button" value="Sync with PC Time"/>
Sync with NTP Server	<input checked="" type="checkbox"/>
Ntp Server	time.nist.gov ▾
	<input type="button" value="Submit"/> <input type="button" value="Refresh"/>

If you synchronize time with the NTP server, please make sure the IP camera's gateway and DNS server parameter are valid and correct.

Users Settings

Set the IP camera's access accounts and passwords. The system allows the configuration of up to eight user accounts.

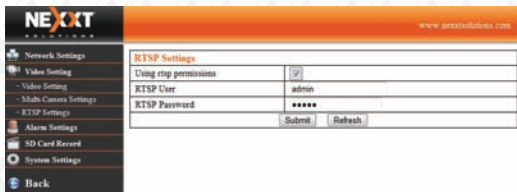
The screenshot shows the NEXXT web interface with a sidebar menu on the left containing: Network Settings, Video Setting, Alarm Settings, SD Card Record, System Settings, Camera Info, Alarm Settings, Date&Time Settings, Users Settings, PTZ Settings, Log, and Maintenance. The main content area is titled "Users Settings" and contains a table with the following fields:

User	Password	Group
admin	*****	Administrator ▾
operator	*****	Operator ▾
visitor	*****	Visitor ▾
		▾
		▾
		▾
		▾
		▾

1 Administrator account has all privileges.
2 Operator account can watch the video, play back SD video, control the PTZ, adjust the video parameters, can not set the parameters.
3 Visitor account can watch the video account, can not set the parameters, can not control PTZ, can not change the video parameters, can not play back SD video.

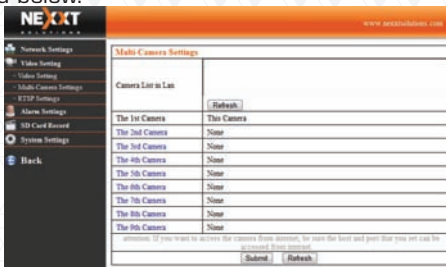
RTSP settings

Define the RTSP access. If you use RTSP for accessing the IP camera, you will be required to input a user name and password for authentication and access control privileges.



Multi-Camera Settings

When you access the current IP camera, you can also watch additional devices using the same interface. The interface to add other cameras is illustrated below.



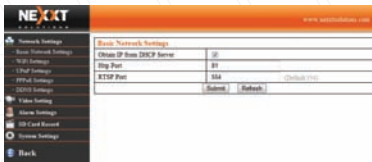
First click on the rows you want to add, e.g. the 2nd. Click the 2nd camera, then input the camera's IP address and other information in the corresponding form, as shown below:

The 1st Camera	This Camera
The 2nd Camera	None
Alias	Nexot_office
Host	192.168.0.254
Http Port	81
User	admin
Password	*****
	<input type="button" value="Add"/> <input type="button" value="Remove"/>
The 3rd Camera	None

When you finish filling out all the information, click the **add** button below to save all these configuration values in the camera. **Note:** multi-camera view is currently supported only by IE.

Basic Network Settings

Use this menu to set the IP camera's IP Address, subnet mask address, gateway, DNS server, HTTP port, and RTSP port if settings are not being acquired through a DHCP server. Otherwise, enable "**Obtain IP from DHCP Server**" option as seen below:



The screenshot shows the 'Basic Network Settings' page of a Nexxt camera. On the left is a navigation menu with options: Network Settings, Basic Network Settings, WiFi Settings, LAN Settings, IP Filter Settings, DDNS Settings, Video Settings, Alarm Settings, SD Card Record, System Settings, and Back. The main content area is titled 'Basic Network Settings' and contains a form with the following fields:

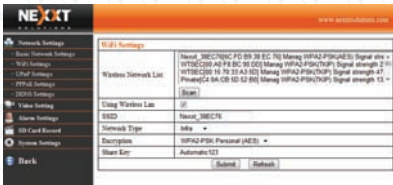
Basic Network Settings	
Obtain IP from DHCP Server	<input type="checkbox"/>
Http Port	81
RTSP Port	554 (Default: 554)
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

Wireless LAN (Wi-Fi) Settings

The following image exhibits the wireless connection device. There are five kinds of security modes: WEP, WPA-PSK and WPA2-PSK. When accessing the Internet wirelessly, the camera's SSID must be the same as the wireless AP device's number.

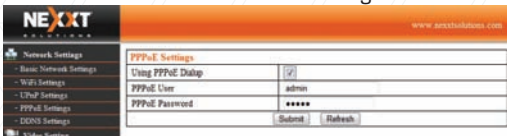
If the wireless router is currently running, first connect the network cable to the IP camera and open the camera's page through the computer via the web browser; then enter the device's interface under wireless LAN (Wi-Fi) settings. Click the **Scan** button; the camera will start looking for radio signals. After the search is completed, choose the wireless router which is needed to connect. If authority verification has been set, input the login password, followed by the "**submit**" button to save

your settings. Since the camera will restart at this time, the network cable must be unplugged. After rebooting, you can access the camera again using the correct device.



PPPoE Settings

This is used to set up the Point-to-Point Protocol over Ethernet (**PPPoE**) parameters. If utilizing this service, please make sure your modem is connected to the computer and that the correct user name and password have been entered, as seen below under the PPPoE settings screen:



UPnP Settings

When the UPnP function is enabled, port forwarding on the router can be setup.

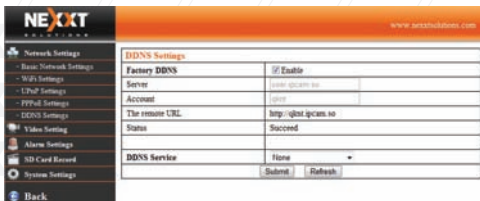


DDNS Service Settings

If you want to remotely access an IP camera that does not have a static external IP address, by

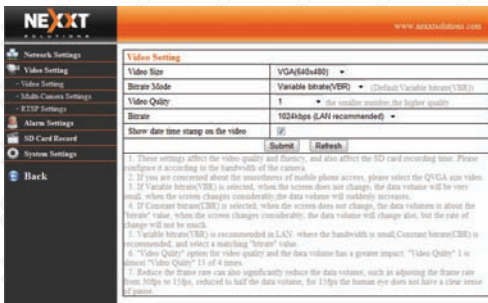
means of dial-up Internet for instance, you can use the camera's own DDNS. The IP camera supports two DDNS methods, one is provided by the factory, while the second one is generated by a third party's DDNS system, like DynDns.

When choosing the DDNS assigned by the factory, users can directly apply such parameters without further configuration needed. On the other hand, users can use the third party's DDNS configuration, choose the corresponding service and fill in the account information as prompted.



Video Setting

This is used to set the IP camera's picture size, rate mode, picture quality and bit rate.



When users check “**show date timestamp on video**”, a timestamp will be added in the bottom right corner of recorded footage.

Mail Service Settings

The mail service is mainly used to send email notifications in case an alarm is triggered. The user can set the program to send an email every time the alarm goes off.

Sender: the mailbox belonging to the sender

Receiver 1, 2, 3, 4: recipients' email addresses

SMTP server: this is the outgoing mail server address. It might be used to scan specific parameter values.

SMTP port: this is the outgoing mail server port; usually this is set to 25.

Need Authentication: determines if authorization is needed to send emails. Common communications are required to authenticate. You need to fill in the mail's login account and password accordingly.

Test: when you click this button, the IP camera will send a test e-mail and verify if it was sent.

Note: make sure the DNS server and gateway configuration under basic network settings have been done correctly.

Mail Settings	
Sender	cam@nexttsolutions.com
Receiver 1	info@nexttsolutions.com
Receiver 2	
Receiver 3	
Receiver 4	
SMTP Server	mail.nexttsolutions.com
SMTP Port	25 (Default:25)
Transport Layer Security Protocol	None
Need Authentication	<input checked="" type="checkbox"/>
SMTP User	admin
SMTP Password	*****
Report Internet IP by Mail	<input type="checkbox"/>

FTP Service Settings

The FTP server is mainly used for uploading live pictures in case an alarm is triggered.

FTP server: the address of the FTP server.

FTP port: the port used for the FTP server. Usually, this is set to 21.

FTP user and password: the user name and password of the FTP site.

FTP upload folder: pictures are saved in the subdirectory of the FTP server.

FTP mode: it must be selected according to the mode the FTP server supports. When the IP camera is behind the router, it will normally run on passive mode.

FTP Settings	
FTP Server	
FTP Port	21 (Default:21)
FTP User	
FTP Password	
FTP Upload Folder	/
FTP Mode	PORT Mode

Alarm Service Settings

This is used to set the alarm functions on the camera. The XP 330 supports motion detection and external alarm inputs. Motion detection means that the IP camera will sense movement and immediately it will trigger an alarm to alert about such an event. Sensitivity can be determined in a scale from 1 to 10, 1 being the setting with the highest sensitivity, while 10 represents the lowest level of motion sensitivity you can preset.

Alarm actions include presets, alarm output, mail notifications, and FTP uploading of pictures.

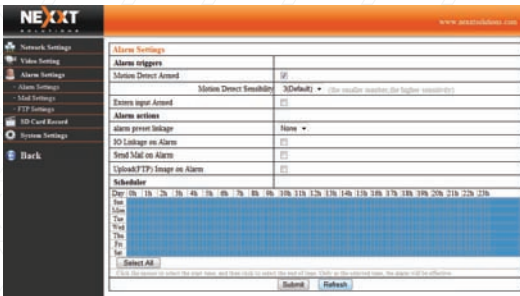
Input pins - The input pins can be used for a one-way external sensor input. For example, you can connect a Passive Infrared Sensor (PIR) to it for motion detection. When an external sensor is triggered, the IP camera can be programmed to send an email with an image snapshot or control the internal relay output. If you link an external alarm with Pin 3 and Pin 4, and check the box of the alarm input, the external alarm will be enabled (this only applies to the models that have this feature available).

Send Mail on Alarm - Sends picture & mail information to the set email address after the alarm is triggered.

Upload Image on Alarm - Enable this function to upload an image after the alarm is triggered.

Scheduler - You can set the time range for the motion alarm to be triggered. Schedules can be set

up on a weekly basis, within a 24 hour-time frame. By selecting the scheduler you will be enabling the alarm.



SD Card Record

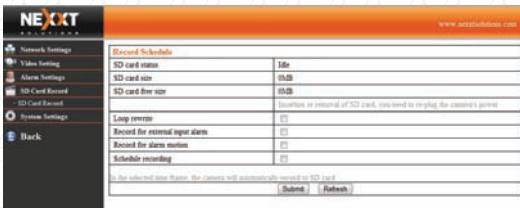
This is used to set certain parameters of the SD card recording.

Loop rewrite: overwrites old content.

Record for external input alarm: begins recording when the alarm is triggered from an external input device.

Motion activated recording: starts recording when the alarm is triggered by motion.

Schedule recording: begins recording at a given time period.



PT settings

This is used to set the pan and tilt parameters and the signaling lamp. When this light is enabled, the green LED of camera's head will flash.

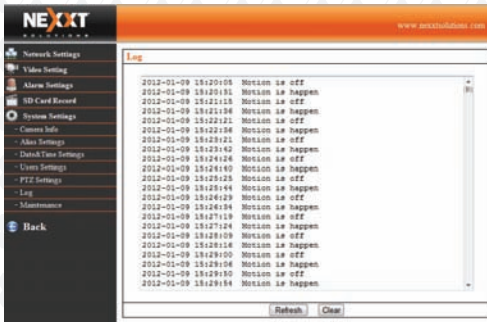
When the IP camera is powered on, it will rotate by itself and stop at the center. Every time the IP camera restarts, it will turn to its center position automatically. Rotation towards the center is mainly used for positioning.

Cruising speed: the rotation speed of camera's horizontal and upright patrolling. Rotational speed such as upward speed, downward speed, leftward speed and rightward speed is controlled by the "Rotational speed manual" option.

PTZ Settings	
Enable preset	<input checked="" type="checkbox"/>
Start to the specified preset on starting	None ▾
Go center on boot	<input checked="" type="checkbox"/>
Cruising speed automatic	5 ▾ (Default: 5)
Rotational speed manual	5 ▾ (Default: 5)
Signal lamp	Enable ▾
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

Log

The log keeps a record of the IP camera operation status and information.



MOBILE ACCESS

To begin with, the mobile phone you must have internet access and be connected to the wireless LAN if attempting to login internally. If attempting to access externally, you must ensure to type in the correct DDNS address on the web browser or have FTP forwarding function enabled in the router in order to login via the camera's IP address.

Smart phone access

Smartphones are mobile phones that run on an operating system, such as Windows Mobile, Android, MacOS, and Symbian. This powerful capability allows the web page browser of such phones to support JavaScript, making it possible for them to view the live images captured by the camera. Internet access on your cell phone is required for this feature to work.

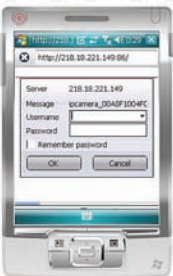
Use the browser on the phone to enter the address of the IP camera, e.g. <http://demo.ipcam>. so ("demo" is the Serial No. Each device has only one Serial No).

Next, taking the Opera mini 4 Version on Windows Mobile as an example, we are going to present the whole procedure.

1. Enter access address <http://demo.ipcam.so> in the browser address bar; the following interface will appear:



2. Once you input the Username and Password of the camera, the following interface will pop up. There are four login options. Click the third Sign-in option and use either the Mobile Phone mode, or “No Plug-In Mode (for the smartphone browser)”:



Language is used to select the display language.

Do not show next time: If this option is selected, this interface will not appear when you log in the next time. Instead, it will skip it and directly lead you to the monitoring page.

Monitoring page description:



Function of monitoring page keys:

Update: it is used to refresh the page. If the monitor picture freezes, you may press this key to update the contents of the page.

Up, down, left, and right: they are used to control the direction of the IP camera. This only applies to the P/T camera models.

Stop: stops the camera's pan and tilt movement.

MISCELLANEOUS SETTINGS

Port Forwarding Settings in Router

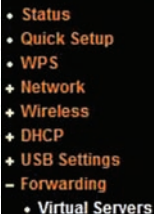
When accessing the IP Camera remotely or externally, the port forwarding feature must be activated in the router. Port forwarding is also called port mapping or virtual server. Different brand routers have different names, but the operation is basically the same.

Let's take our **Nextt Solutions Acrux 300** router's

port forwarding setup for illustration (we recommend to use our Nexxt Solutions routers for best results).

For illustrative purposes, the router's default access address is 192.168.0.1, the IP camera's access address is 192.168.0.100, and the default access port is 81.

1. First log in to the router's web administration interface (type 192.168.0.1 on your web browser).
2. Click on **Forwarding** on the left column or on the "+" (plus sign) in front.



3. After clicking **Virtual Servers** in the unfolded menu, select **Add New** on the right hand side.

4. Under **Service Port** and **Internal Port** field, input the incoming port for the IP camera (in this example, it will be **81**). In the **IP Address** field, type the camera's IP address (in this example, it will be **192.168.0.100**). Under the Protocol drop-down menu, you have the option to set it to **UDP**, **TCP**, or **ALL**. We recommend setting it to **ALL**, but you can set the option that best fits your configuration. Next, from the drop down menu, set the **Status** to **Enabled** in order to activate this feature. Leave the Common Service Port unchanged unless your Service Port number was changed from the default, which is 81. Lastly, click **Save** to store the newly applied settings.

The screenshot shows the 'Add or Modify a Virtual Server Entry' configuration page in the Nextt Solutions web interface. The page features a sidebar menu on the left with the following items: Status, Quick Setup, WPS, Network, Wireless, DHCP, USB Settings, Forwarding, Virtual Servers, Port Trapping, DMZ, UPnP, and Security. The main configuration area contains the following fields:

- Service Port: 81 (00-XX or XX)
- Internal Port: 81 (XX, Only valid for single Service Port or leave it blank)
- IP Address: 192.168.0.100
- Protocol: ALL
- Status: Enabled
- Common Service Port: -Select One-

At the bottom of the configuration area, there are two buttons: 'Save' and 'Back'. The 'Save' button is highlighted with a red rectangular box.

The following picture illustrates the successful enablement of Port Forwarding. You can now access your camera externally utilizing the IP address.



Common router default access addresses:

1. Nextt Solutions router's default access address is 192.168.0.1
2. DLINK router's default access address is 192.168.0.1
3. Linksys router's default access address is 192.168.1.1
4. 3com router's default access address is 192.168.2.1
5. Microsoft router's default access address is 192.168.2.1
6. Netgear router's default access address is 192.168.1.1
7. Asus router's default access address is 192.168.1.1

Frequently-Asked Questions

Question: Why can't the camera be found when searching?

Answer:

1. First check if the IP camera and the computer are in the same LAN network.
2. Ethernet cable and/or power connection can also cause issues (under normal conditions, the power LED (yellow) is always lit while the network LED (green) is continuously flashing.)

3. If a firewall is installed in your network or computer, ensure this is not blocking inbound connections to the camera and/or port.

Question: Does the 330 series allow users to browse dynamic video through a mobile phone?

Answer: Yes, it does. The 330 series allows for dynamic video viewing through most smart mobile phones.

Question: How can you set the IP camera and PC into the same segment within the LAN?

Answer: After finding the camera with the search bar, click the Automatic Setting button.

Question: Why can't the mobile phone access the IP camera?

Answer:

1. Make sure whether the mobile phone has internet access or not, and check that the IP address or DDNS server was entered correctly on the mobile phone's web browser. .
2. Ensure that the IP camera can be accessed through the Internet via your PC.
3. If accessing the camera internally, verify that your mobile phone is connected to the same LAN.

SPECIFICATIONS

Specifications	Model	AILPT324U5
Camera	Image sensor	1/4 color CMOS
	Lens	4 mm
	Infrared LED	10 pcs
	Pixels	300,000
	Filter	infrared cut-off filter (ICR) to ensure lifelike daytime color and sensitive night time performance
	Night vision range	15 m
	AWS/AGC/AES exposure	Auto
	Compression format	Supports H264 and M'JPEG dual compression
Audio	Minimum illumination	0.1 Lux
	Audio	2-way audio
	Input	Built in microphone
Video	Output	Built-in speaker
	Image format	PAL/NTSC
	Max. frame rate	25 fps
Pan/Tilt	Resolution	Resolution 640x480 (VGA), 320x240 (QVGA)
	Built in PT	Supports 15 preset positions
	PT angle	Horizontal up to 325°, vertical up to 100°
	Horizontal speed	0 - 16 °/s
Network	Vertical speed	0 - 16 °/s
	Network interface	RJ-45 (10BASE-T/100BASE-TX)
	Supported protocols	TCP/IP, HTTP, TCP, ICMP, UDP, ARP, IGMP, SMTP, FTP, DHCP, DNS, DDNS, NTP, UPnP, RTSP, PPPOE
Alarm	Wi-Fi	IEEE802.11 b/g
	Alarm port	Input and output ports to connect external alarm devices
	Motion detection	Motion detection and video recording to local storage
	Alarm events	Notification via SD card, email, FTP Video recording to local storage and SD storage card
General	Periodic sending	Send pictures and video to SD storage card, email/FTP within the time specified
	User authentication	User/password, administrator/operator/general user
	Web browser	IE 6.0 or above version, Mozilla Firefox, Safari, Opera, Chrome, etc.
	Simultaneous viewers	10 viewers@320x240 4 viewers@640x480
	Mobile compatibility	Supports Nokia, Symbian, Android, iPhone, Windows mobile phone, and other smart cellular phones with Java MIDP 2.0
	Power	DC 5V 1.5 A
	Power consumption	4W/6W (Infrared off/on)
	Operating temperature	-10 to +55 °C
	Storage temperature	-20 to +60 °C
	Operating humidity	10- 80% RH
	Storage humidity	10- 95%RH
	Gross weight	600 g (including accessories)
Certifications	CE; FCC; RoHS	
Warranty	Limited one year warranty	

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on the user is encouraged to try to correct the interference by one or

more of the following measures:

- 1.Reorient or relocate the receiving antenna.
- 2.Increase the separation between the equipment and receiver.
- 3.Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4.Consult the dealer or an experienced radio/TV technician for help

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be located or operating in conjunction with any other antenna or transmitter.

To comply with FCC RF exposure compliance requirements, this grant is applicable to only mobile configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.”