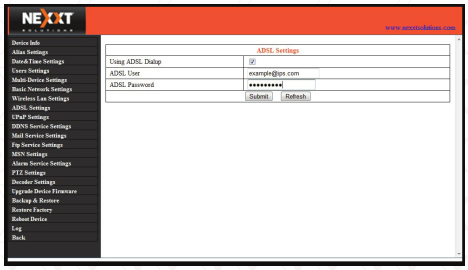
HTTP Port - In most cases, you can leave this value as 80; however, if your Internet Service Provider blocks this port, you may have to switch to another port number, such as 8005.

Wireless LAN Settings

Enter the wireless settings page of the Wireless Router to find out the SSID, Channel, Encryption and Authentication details. This product supports WEP and WAP security encryption methods.

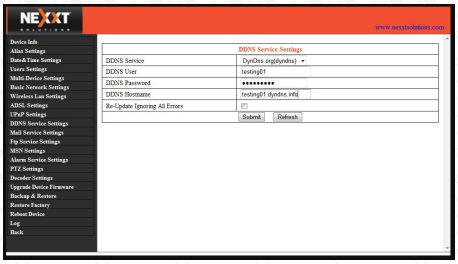
ADSL Settings

When connected to the Internet through ADSL, you can enter the ADSL username and password obtained directly from your ISP.



DDNS Service Settings
The system supports protocols from some DDNS providers such as dyndns.org. Fill in the following fields once the DDNS service has been setup.

User and Password: The User Name and Password used when applying for the domain name.
DDNS Host: The domain name.
DDNS or Proxy Server: If you access the DDNS host through a proxy, you should enter the Proxy IP here.
DDNS or Proxy Port: The Proxy Port.

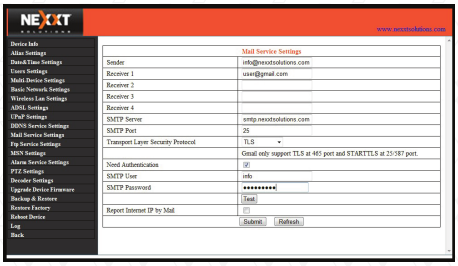


Mail Service Settings
Configure the email addresses that will receive and send mails after an alarm is triggered.

Sender - This device uses the sender mailbox to send mails.
Receiver – The account used to receive mails from the Sender. You can set up to 4 receiver mailboxes.
SMTP Server - The SMTP server for the sender mailbox.

Need Authentication - Check the box if the email needs authentication. If so, please enter the SMTP User Name & Password.

Mail test: Set the Mail parameters and click 'Submit' before attempting to send a test email.



There are 8 possible Mail Test errors:

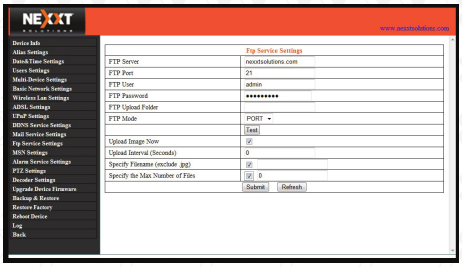
1. Cannot connect to the server.
2. Network Error. Please try later.
3. Server Error.
4. Incorrect username or password.
5. The Sender is denied by the server - The server needs to authenticate the user; check settings and try again.
6. The Receiver is denied by the server - Could be caused by the anti-spam privacy settings of the server.
7. The message is denied by the server - Could be caused by the anti-spam privacy settings of the server.
8. The server does not support the authentication mode used by the device.

Report Internet IP by Mail - Check the box so when the IP camera is powered on or the Internet IP address changes, an email will be

sent. (For example: XPY 320`s address is http://119.123.207.96:9002). Make sure the port is mapped to the router correctly by UPnP or Virtual Map function.

FTP Service Settings

Note: When under Alarm Service Settings the option “Upload Image on Alarm” is checked, the FTP Service takes effect.

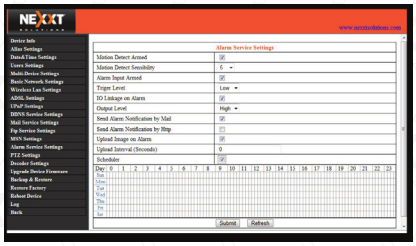


FTP Server - The FTP server address.
FTP port - The port usually is 21.
FTP Mode - Supports standard (PORT) mode and passive (PASV) mode.
Upload Image Now - Check the box to upload an image. When checked, you can input the upload interval time in seconds.
FTP Test - Set the FTP parameters and then click ‘Submit’ before testing the FTP settings.
If successful, the user will be prompted accordingly. Otherwise, an error message will be displayed.
There are 8 possible FTP test errors:
1. Cannot connect to the server - Please check FTP Server settings.
2. Network Error. Please try later.
3. Server Error.

4. Incorrect username or password - Check the username and password.
5. Cannot access the folder - Ensure the folder exists and your account is authorized.
6. Error in PASV mode - Ensure the server supports PASV mode.
7. Error in PORT mode - PASV mode should be selected if the device is behind a NAT.
8. Cannot upload file - Ensure your account is authorized.

Alarm Service Settings (Motion Detection)
Enter the Alarm Service Settings page to configure the Motion Detection function. When motion detection is enabled, the camera can be triggered to send email alerts and upload images. In the camera monitoring page, the green icons will turn to red and you will hear an alert sound if motion is detected.

Note: The default path for saving recorded files is C:\Documents and Settings\All Users\Documents.



Motion Detection Sensitivity - Sensitivity can be determined in a scale from 1 to 10, 1 being the

setting with the highest motion detection sensitivity, while 10 represents the lowest sensitivity available you can preset.

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.

REC on schedule and save to PC - Enable this function for automatic recording to start on the scheduled time for several seconds, and save the video in the PC when an alarm has been triggered.

ACCESSING THE IP CAMERA

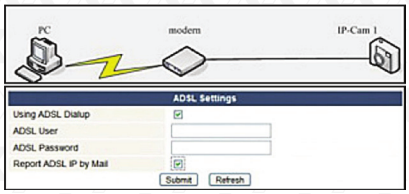
Using the WiFi capability

To use the wireless feature of the IP Camera, a wireless router is required. Follow the instructions below to get started after the camera has been mounted properly.

1. Use the Network cable to connect the IP Camera to the LAN.
2. Enter IP Camera Tool to search for the camera.
3. When IP address of the camera is listed in the Result Field of the IP Camera Tool, it means the basic configuration is completed.
4. Set the security settings in Internet Explorer on the PC when you view it for the first time.
5. Log in to the web browser of the IP camera.
6. Now you can use the IP Camera as a Visitor, Operator or Administration in the LAN.

7. Open the wireless router setup page and enter the SSID, Channel, Security Method (NONE, WEP), Authentication Type and Encryption. NOTE: This product supports WEP and WAP security encryption methods.
8. Click “Submit” to reboot the device.
9. Wait at least 30 seconds, then unplug the ethernet cable followed by the power supply. Power on the camera once again, making sure only the power supply is connected. After 30 seconds, if the LED blinks, it indicates the IP camera has started working on WiFi mode.

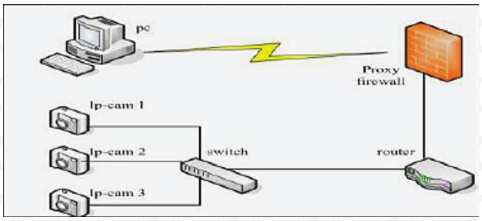
Connect to the Internet through ADSL directly



1. Use the Network cable to connect the IP Camera to PC.
2. Enter IP Camera Tool to search for the camera.
3. Log in to the IP camera web browser page as an Administrator.
4. Enter the ADSL Settings page to input ADSL User Name and password.
5. Enter DDNS Settings Page and enable the DDNS service. Next, click ‘Submit’ to reboot the camera.
6. By connecting the IP Camera to the ADSL directly, you can access the Camera through the

Internet using the domain name.
NOTE: Choose the option 'Report ADSL IP by Mail', for the ADSL IP address to be sent via email.

Connect to the Internet using a router
Follow the steps below to use a router to access the Internet by shared ADSL. If a router is set for dial-up Internet access, setting an ADSL dial-up account and password on the IP Camera is not required.



1. Use the Network cable to connect the IP Camera to the LAN.
2. Open the IP Camera Tool in order to search for the camera.
3. Log in to the IP camera web browser page as an Administrator.
4. Enter the DDNS Settings Page to enable the DDNS service. Next, click 'Submit' to reboot the camera.
5. **Now** access the Camera directly through the Internet using the domain name.

Static IP address users
Static IP address users do not need to use DDNS for remote access. When the settings of the IP camera in LAN mode are complete, you can access

the Camera directly through the Internet using the WAN IP.

Two methods are available to obtain the WAN IP address.

1: Obtain the WAN IP from a Website
You can discover this easily by turning on a computer using the same connection as the IP camera and entering this address: http://www.whatismyip.com.The page at this address will show you the current WAN IP.

2: Obtain the WAN IP address from the router
1. Obtain the IP address of the router (LAN Gateway address), User Name and Password for logging into the router.
2. Enter the LAN IP address of the router (ie:192.168.1.1) in the address bar of your PC browser to log on to the router.
3. Open the Status page to find out the WAN address of the router. In this example, the address is 116.25.51.115.

Accessing the IP Camera over the Internet
Users can access the IP Camera from the Internet. Enter the WAN IP address and port number into the browser. For example, http://116.25.51.115:85.

Note: Make sure Port mapping is successful. Port mapping can be configured in two ways:

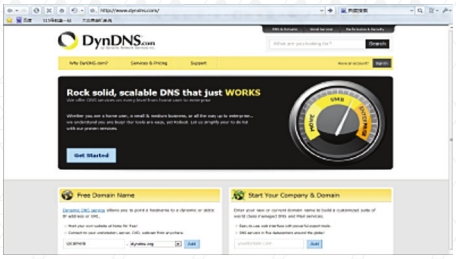
• Enter the setting page of the router which the IP camera connects with to enable the UPNP function. To do so, open the the IP camera “Upnp Settings” dialog box, and make sure the status for “Upnp is successful”.

• If your router has the Virtual Map function, enter the router settings page, add the IP camera’s IP address and port number to the Virtual map list.

How to use DDNS

When using ADSL, the IP Camera will connect to the Internet through ADSL automatically. For each ADSL reconnection, your Internet Service Provider will re-assign a new IP address for the IP Camera to facilitate the access. DDNS (Dynamic Domain Name Server) can map the dynamic IP address of an IP Camera to a fixed domain name. Therefore, we can access the IP Camera by the fixed domain name whether the IP address changes or not. The IP address is not necessary when using the DDNS via the domain name to find your network.

1. Go to the website that provides free domain names, such as http://www.dyndns.com. Register to apply for a free domain name.



2. Enter DDNS Settings Page to enable the DDNS service, and click 'Submit' to reboot the camera.
3. Re-log in to the Camera web browser as Administrator and enter the "DDNS Service Settings" page to check if the DDNS Status has been successfully changed to DynDNS.
4. Enter the '**UPnP Settings**' page, the UPnP Status should be 'Successful UPnP Session'. If not, you may enter the "**Basic Network Settings**" page to change the Http Port. Then click "SUBMIT" and reboot device.
5. Re-log in to the Camera homepage to check and make sure the DDNS Status and UPnP Status have been successfully configured.
6. You only need to enter the domain name (Domain name+Port number http://ipcam.domain.net:81) in the IE address bar, and the browser will visit the IP Camera. Wait for several minutes and the IP Camera will access the Internet automatically.

Another way the user can access the IP camera from a WAN is by using the DDNS domain name. If the gateway settings and DDNS settings have been completed, enter the DDNS dynamic domain name

(for example,http://ipcam.vicp.net, do not add www.) in the address bar of IE to access the IP Camera. If multiple IP Cameras are connected to the same router, enter DDNS dynamic domain with the port number (for example, http://ipcam.vicp.net:85) in the address bar of IE to access different IP cameras.

Accessing the IP Camera from your mobile phone

Compatibility with mobile phones using 3G technology (iPhone, Android, Blackberry, and PDAs) enables you to view real-time videos over the internet using a standard browser.

An IP camera can send a snapshot picture to an email account accessible via a cell phone. Cell phone surveillance also allows the user to adjust camera settings and video resolution for a mobile feed where video could then be accessible on a cell phone. There are applications that allow for advanced PT control at your fingertips, access to multiple cameras from different locations and even remote video playback.

Follow the steps below to gain access to the IP Camera from your mobile phone:

1. Go to mobile internet browser
2. Enter http://the external IP address of your IP Camera: port number.
3. Demo example: http://y-cam.dtns.net:8152.
4. This will bring up the authentication window to enter your user security settings.
5. Next, a window with 3 different options will pop up.
6. Select the best option based on the web browser supported by your particular phone.
7. Click on 'Live Video' to see real time video footage captured by the camera.

Frequently Asked Questions

Note: Please check network connections first to troubleshoot any potential problems. Check if any LED on the network, server, hub, exchange or network card is showing signs of malfunction. In case of abnormal operation, verify that all connections on the network have been done correctly.

In addition, you can see the list of problems below, as it contains the solution to the most common problems encountered while setting up the camera:

What do I do if I have forgotten the administrator User Name and/or password?
To reset the administrator User Name and password, press and hold down the RESET button for 5 seconds. Release the power button and the User Name and password will be reset back to their factory default configuration.
Default administrator User Name: admin
Default administrator password: no password

IP Address configuration
Check whether the IP address of the IP Camera server shares the same subnet as your work station: Click My Computer > Control Panel > Network & Dial-up Connections > LAN > Attributes >Internet Protocols (TCP/IP), and check the IP Address and Subnet Mask. Make sure they are in the same subnet when configuring the camera's IP address manually if you are unable to access IP Camera via a web browser.

Network Configuration

Double check to ensure that your HTTP server software is configured and running properly. If you are running any firewall software, make sure it is allowing inbound connections to port 80. Also, if you happen to be using a cable/DSL router, verify that you have set up the port forwarding feature properly (consult your router's documentation for more information).

If none of these seem to be the problem, it is also possible that your ISP is blocking inbound connections to port 80 - many ISPs have done this because of internet worms, such as Code Red. If this is the case, you will have to setup your HTTP server on an alternate port (such as 8080).

Picture Problems

Video streaming is transmitted by the ActiveX controller. If the ActiveX controller is not installed correctly, no video image will be seen.

There are two ways to solve this problem:

1. Install the '**IP Camera Tool**'. ActiveX controller will be installed simultaneously (recommended).
2. Download ActiveX controller and set the Security Properties of IE on the PC when you view it for the first time: Go to Tools > Internet Properties > Security > Custom Level > ActiveX control and Plug-ins. All 3 options need to be set to 'Enable'.
- Enable: Download unsigned ActiveX controls.
- Enable: Initialize and script ActiveX controls not marked as safe.
- Enable: Run ActiveX controls and plug-ins.

Problems with network bandwidth
The image frame rate depends on the following factors:
1. Network bandwidth.
2. PC performance, network environment and display preference setting (brightness, theme, etc).
3. The number of visitors (too many visitors will slow down the image frame rate).
4. Choice of switch or hub (use a switch for multiple IP cameras rather than a hub).

Pop up appears saying
'Fail to connect to the device'
This prompt will only appear when using multiple cameras. Enter the Multi-Device Settings page (log in as an Administrator) to check whether the Device settings are correct.

When one of the multiple cameras disconnects, the icon ❍ changes color to yellow and the pop-up prompt "Failed to connect to the device" is displayed.

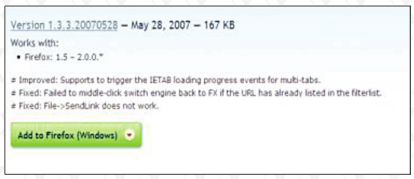
Can't access the IP camera on the internet?
There could be a number of reasons:
1. ActiveX controller is not installed correctly.
2. The port IP camera being used is blocked by Firewall or an anti-virus software. Use a different port number and try again.
3. Port mapping failed. There are two ways available for configuring port mapping:

Open the setting page of the router which the IP camera connects with to allow the UPNP function.

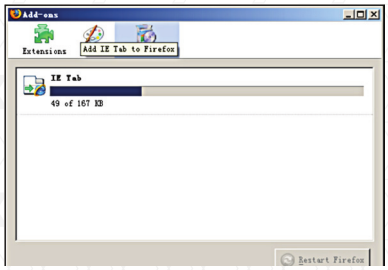
Go to the IP camera's '**UPnP Settings**' to enable UPnP, making sure the '**UPnP**" configuration is successful.
If your router has the Virtual Map function, enter the router setting page, and add the IP camera's IP address and port number to the Virtual map list.

Problems with using the Firefox browser - monitoring pages are not displayed normally
Due to security issues, the Firefox browser does not support ActiveX controls, but it provides a plug-in named IE-Tab which enables Firefox to support ActiveX controls. Using the Firefox browser, you can access the website as follows: https://addons.mozilla.org/en-US/firefox/addon/1419.

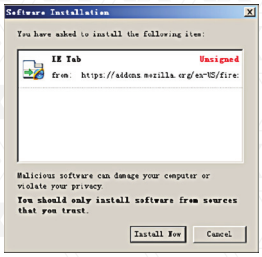
On the download page, select the right version for your browser, download it, and start installing the plug in. The installation steps for the Firefox browser (version 2.0.0.18) plug-in are detailed as follows:
1. Select the right version, as shown in the figure below.



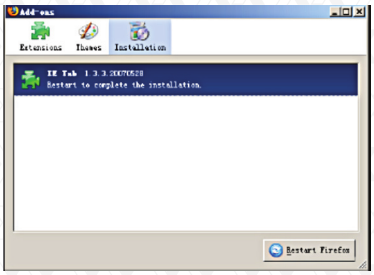
2. Click '**Add to Firefox** (in Windows)' to start the download.



3. Wait for the download to complete. A dialog box will pop-up as shown as in the chart below.

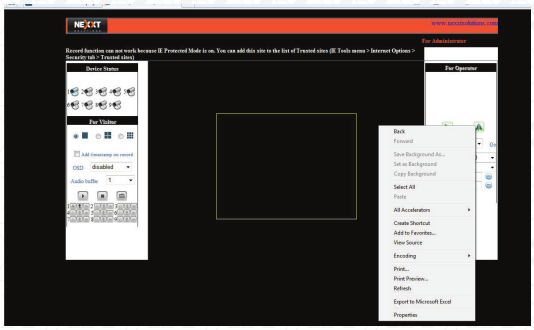


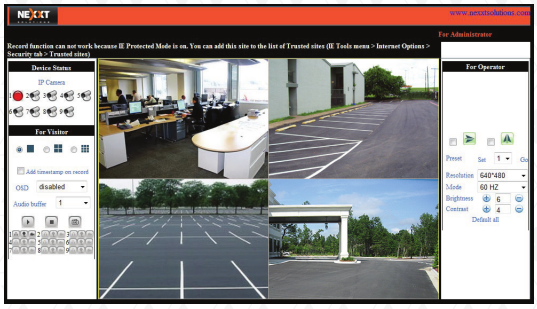
4. Click the '**Install Now**' button to start installation.



5. When installation is complete, click '**Restart Firefox**' to initialize the browser.

6. Log in to your device and locate the monitoring page, right click on the web browser page and click the new menu item named '**View page in IE-Tab**' to log in to the IP camera again.





Default Parameters

Default network parameters

IP address:	Automatically obtained
Subnet mask:	255.255.255.0
Gateway:	Automatically obtained
DHCP:	Disabled
DDNS:	Disabled

Username and password

Default Administrator User Name: admin

Default Administrator Password: no password

SPECIFICATIONS

Specifications \ Model		AILP324U1
Camera	Image sensor	1/4 color CMOS
	Lens	4 mm
	Infrared LED	10 pcs
	Pixels	300,000
	Night vision range	15 m
	AWS/AGC/AES	Auto
	Compression format	MJPEG
	Minimum illumination	0.1 Lux
Audio	Audio	2 way audio
	Input	Built-in microphone
	Output	Built-in speaker
Video	Image format	PAL/NTSC
	Max. frame rate	25 fps
	Resolution	Resolution 640×480 (VGA), 320×240 (QVGA)
Pan/Tilt	PT angle	Horizontal up to 265°, vertical up to 100°
	Horizontal speed	0 - 16 °/s
	Vertical speed	0 - 16 °/s
Network	Network interface	RJ-45 (10BASE-T/100BASE-TX)
	Supported protocols	TCP/UDP/IP/ARP/ICMP/DHCP/DNS/HTTP/FTP/SMTP/NTP/PPPOE/UPNP/DDNS
	Wi-Fi	IEE802.1 b/g
Alarm	Motion detection	Motion detection and video recording to local storage
	Alarm events	Notification via email, FTP - Video recording to local storage
	Periodic sending	Send pictures to Email/FTP within the time specified
General	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, Android, Windows mobile phone, Iphone and other smart cellular phones
	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	20- 80% RH
	Storage humidity	20- 95% RH
	Gross weight	600 g (including accessories)
	Certifications	CE; FCC; RoHS
	Warranty	Limited one year warranty