

***22X / 3X PTZ
Network Camera Series
User Manual***






Please read instructions thoroughly before operation and retain it for future reference.

IMPORTANT SAFEGUARD

	CAUTION	
	RISK OF ELECTRIC SHOCK	

CAUTION:

To reduce the risk of electric shock, do not expose this apparatus to rain or moisture. Only operate this apparatus from the type of power source indicated on the label. The company shall not be liable for any damages arising out of any improper use, even if we have been advised of the possibility of such damages.

	The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
	This exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.
	All lead-free products offered by the company comply with the requirements of the European law on the Restriction of Hazardous Substances (RoHS) directive, which means our manufacture processes and products are strictly "lead-free" and without the hazardous substances cited in the directive.
	The crossed-out wheeled bin mark symbolizes that within the European Union the product must be collected separately at the product end-of-life. This applies to your product and any peripherals marked with this symbol. Do not dispose of these products as unsorted municipal waste. Contact your local dealer for procedures for recycling this equipment.
	This apparatus is manufactured to comply with the radio interference requirements.

Disclaimer

We reserve the right to revise or remove any content in this manual at any time. We do not warrant or assume any legal liability or responsibility for the accuracy, completeness, or usefulness of this manual. The content of this manual is subject to change without notice. For the actual display and operation, please refer to your network camera in hand.

The product & company names mentioned herein may be the registered trademarks or tradenames of their respective owners.

MPEG4 Licensing

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Precautions

- Avoid the long-term activation for "Auto Tracking", "Auto Pan", and "Sequence" as it might accelerate the aging of the drive mechanism and optical lens. Three-month warranty applies only to certain parts related to these three functions.
- Do not shoot images that are extremely bright for a long time (For example, light sources, the sun, etc.).
- Don't use or store the camera in the following conditions: (1) Extremely hot or cold places (operating temperature $-10^{\circ}\text{C} \sim 40^{\circ}\text{C}$ ($= 14^{\circ}\text{F} \sim 104^{\circ}\text{F}$)) (2) Close to generators of powerful electromagnetic radiation such as radio or TV transmitters. (3) Where it is subject to fluorescent light reflections. (4) Where it is subject to unstable lighting (flickering, etc.) conditions. (5) Where it is subject to strong vibration. (6) Where it is near water or in contact with water.
- Installation should be made by qualified service personnel.

Version

Firmware: 1046-1003-1020-1001-B7

Video Viewer: 0099

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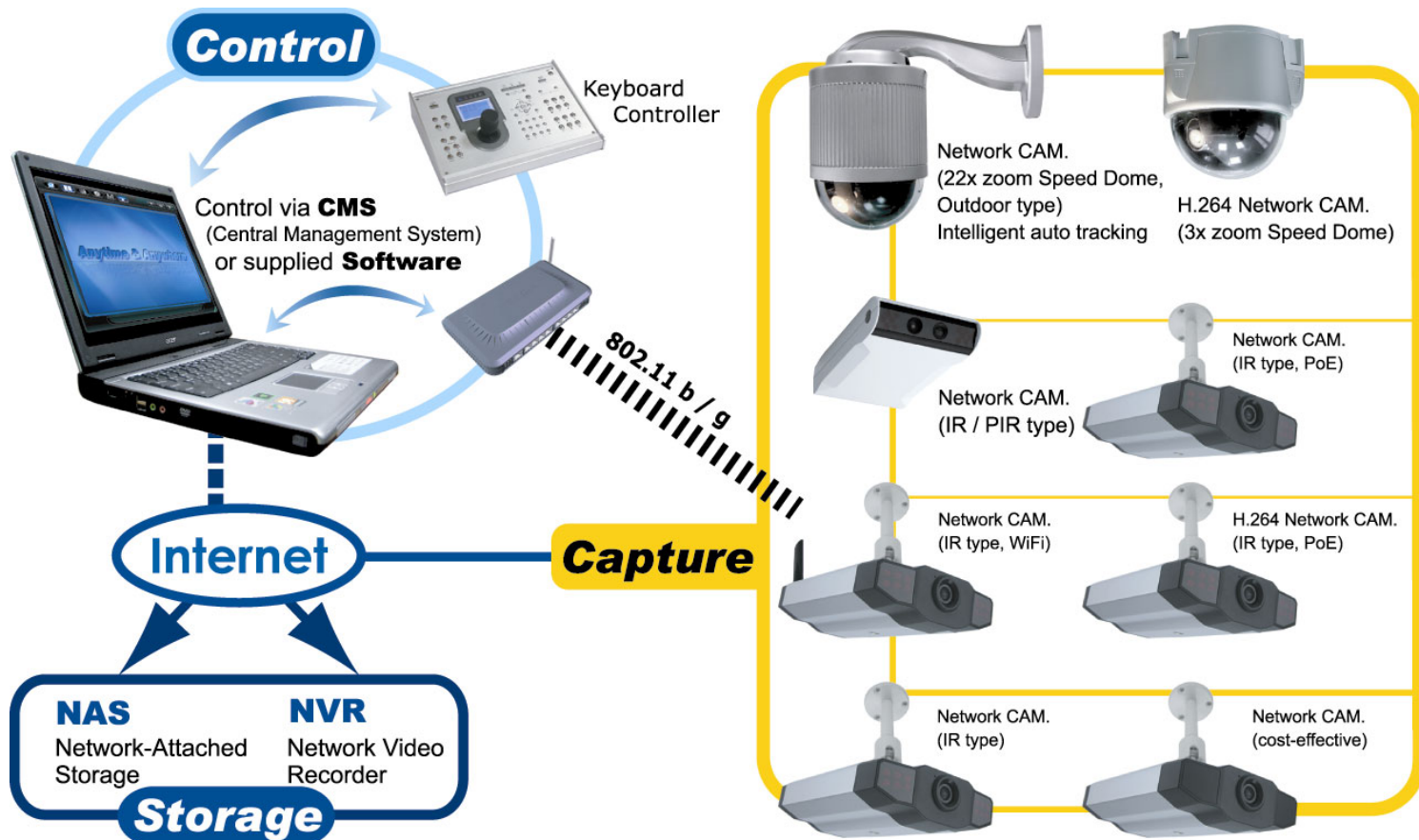
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1. PRODUCT OVERVIEW

1.1 Description

This PTZ network camera series is a high-performance device for use in professional and demanding surveillance situation. It supports multiple network protocols for MPEG4 / MJPEG live video transmission, and you can easily view, record and operate the camera via the supplied video viewer software or the web browser. Video surveillance over IP network infrastructure is available and easy from anywhere, at anytime.



1.2 Features



- Built-in 22x / 3x optical zoom lens with auto focus lens
- Intelligent auto tracking function to follow intruders (22X PTZ Network Camera)
- Area Zoom functions – Draw a square in the live view with your mouse and the PTZ network camera will zoom in the assigned area.
- Motion detection and alarm notification functions
- Real time MPEG4 or H.264 network transmission
- Low-latency video streaming for sharp and clear images
- Hybrid digital / analog video output
- Control network camera via Central Management System (CMS) software
- Excellent precision controllability using joystick or keyboard controller
- Support external microphone input
- Complete IP surveillance system, such as the Central Management System (CMS) software, Network-Attached Storage (NAS), Network Video Recorder (NVR), etc.




1.3 Package Contents

- 22X PTZ Network Camera

<p>☉ In the camera package:</p> <p><input type="checkbox"/> Speed dome camera <input type="checkbox"/> User Manual</p> <p><input type="checkbox"/> CD-ROM disc (including user manuals & CMS software "Video Viewer")</p>	
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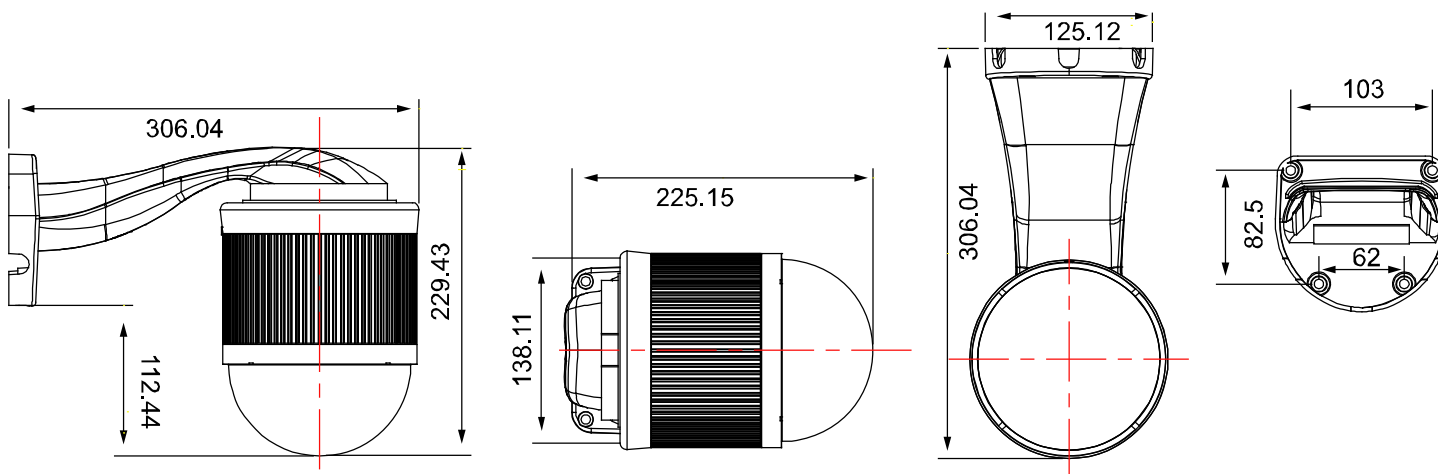
<p>☉ In the bracket package (Optional) :</p> <p><input type="checkbox"/> Wall mounting screws x 4 <input type="checkbox"/> Wall plugs x 4</p> <p><input type="checkbox"/> Cap x 1 <input type="checkbox"/> Bracket screw x 1</p> <p><input type="checkbox"/> M6 Nylok screws (short) x 2 <input type="checkbox"/> M6 Nylok screws (long) x 3</p> <p><input type="checkbox"/> M4 screw x 1 <input type="checkbox"/> Mounting base screw x 2</p> <p><input type="checkbox"/> Spirit level x 1 <input type="checkbox"/> Hex screw nuts x 3</p>	
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- 3X PTZ Network Camera

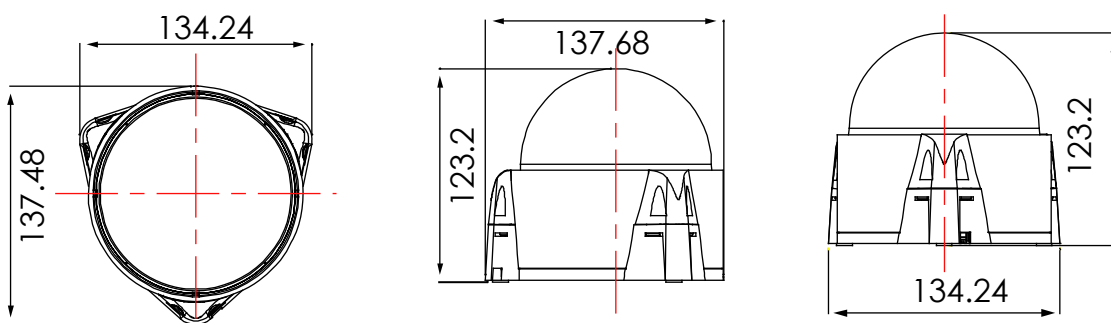
<p><input type="checkbox"/> 3X PTZ network camera</p> <p><input type="checkbox"/> CD-ROM disc for user manual & licensed software "Video Viewer"</p> <p><input type="checkbox"/> RJ45 network cable</p>	<p><input type="checkbox"/> Screw * 3 </p> <p><input type="checkbox"/> Wall Plug * 3 </p> <p><input type="checkbox"/> Decoration Cover * 3 </p>
---	--

Note: The DC12V 1A adapter & power cord are not included with the sales package. Please prepare by yourself.

- **Dimensions of 22X PTZ Network Camera:**



- **Dimensions of 3X PTZ Network Camera:**



1.4 Specifications

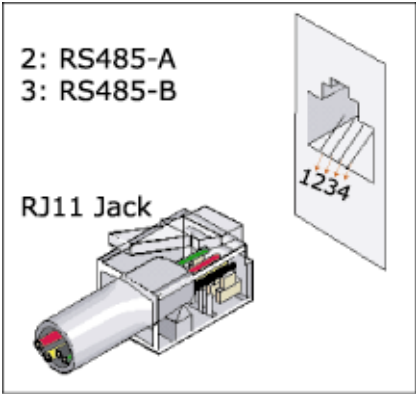
SPECIFICATIONS*	22X PTZ Network Camera	3X PTZ Network Camera
■ Network		
LAN Port	YES	
LAN Speed	10/100 Based-T Ethernet	
Supported Protocols	DDNS, PPPoE, DHCP, NTP, SNTP, TCP/IP, ICMP, SMTP, FTP, HTTP, RTP, RTSP	
Frame Rate	NTSC:30, PAL:25	
Number of Online Users	10	
Security	Multiple user access levels with password	
Web management software	YES (Control up to 16 network cameras simultaneously)	
■ Video / Audio		
Video Compression	MPEG4 / MJPEG	
Video Remote Control	YES	
Video Adjustment	Brightness, Contrast, Saturation and Hue	
Audio Compression	uLaw , 128kbps	
Audio Input	External Microphone Input	
■ Camera		
Image Sensor	1/4" Sony Color Super HAD CCD	1/3" Sony Color Super HAD CCD
Pixels	768(H)*494(V)<NTSC> / 752(H)*582(V)<PAL>	
Resolutions	High Resolution	
Lens	f3.9 ~ 85.9mm	f4.2 ~ 12.7mm
F-number	F1.6 (Wide) ~ 3.7 (Tele)	F2.6 (Wide) ~ 4.3 (Tele)
Viewing Angle	4° ~ 80°	26.7° ~ 80°
Pan Range	360°	
Tilt Range	90°	
Zoom	22X Optical Zoom (f3.9 ~ 85.9mm)	3X Optical Zoom (f4.2 ~ 12.7mm)
Max Speed	Pan 360°/s, Tilt 90°/s	Pan 27°/s, Tilt 18°/s
Shutter Speed	1 / 60 (1/50) to 1 / 100,000 sec.	
Min Illumination	1 Lux / F1.6	1.5 Lux / F2.6
Video Output	1.0 Vp-p. 75Ω	
BLC	On / Off	
White Balance	ATW	
Camera ID	0~255	
■ Others		
Remote Control	YES	
Motion Detection	YES	
Alarm and event Notification	Image upload over FTP and Email	
General I/O	Alarm in x1	
Power	12VDC, 1A	
Operating Temperature	0~40°C	
Humidity	85%	
Minimum Web Browsing Requirements	<ul style="list-style-type: none"> • Pentium 4 CPU 1.3 GHz or higher, or equivalent AMD • 256 MB RAM • AGP graphics card , Direct Draw, 32MB RAM • Windows XP, Windows 2000 Server, ME, 98, DirectX 9.0 or later • Internet Exploerer 6.x or later 	
Dimension (L x W x H)	145(D) x 184(H) mm	134(D) x 122(H)
Shipping Weight	NA	NA
Indoor / Outdoor Application	Outdoor	Indoor

* The specifications are subject to change without notice.

2. INSTALLATION

2.1 CONNECTOR OVERVIEW



CONNECTOR	DESCRIPTION
Power Connector	Connect the DC 12V adapter for power supply.
Video Output Connector	Connect to the video input connector of your monitor with a video cable (i.e. a RCA line with the BNC connector, or a coaxial line) for video output. * The video cable is not included with the sales package.
Audio Input Connector	Support the connection to an audio device, such as a microphone, for voice transmission of the local side.
RJ11 Connector 	Get a RJ11 line with the proper length to your connection. Different RJ11 line may have different line layout, so the connection might be different. If you cannot control the PTZ network camera after connection, please reverse the RJ11 line layout and try again.
RJ45 Jack Connector	Get a R45 network cable with the proper length to your connection. And connect the network camera to the network.

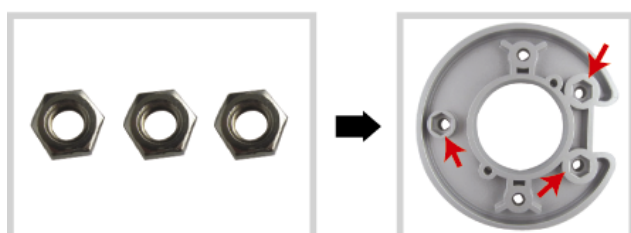
2.2 Install the Hardware (For 22X PTZ network camera)

Before installation, you need the following items before installation:

- Bracket & mounting base (supplied with the bracket sales package)
- The accessory packages supplied with the bracket sales package, including:

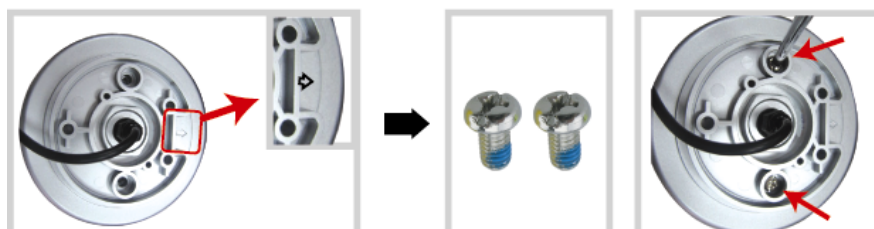
(1) Wall mounting screws x 4	(2) Wall plugs x 4
(3) Cap x 1	(4) Bracket screw x 1
(5) M6 Nylok screws (short) x 2	(6) M6 Nylok screws (long) x 3
(7) M4 screw x 1	(8) Mounting base screw x 2
(9) Spirit level x 1	(10) Hex screw nuts x 3
- Power Drill

STEP 1: Put hex screw nuts to the reserved holes on the camera-mounting base as indicated below.



- a). Find the camera-mounting base and the supplied three hex screw nuts in the bracket package.
- b). Find the reserved holes for hex screw nuts on the camera-mounting base, and push each nut into each reserved hole hardly.

STEP 2: Attach the camera-mounting base to the speed dome camera.



- a). Put all the cables through the hole of the camera-mounting base.
- b). Align the breach of the camera-mounting base with the arrow mark on the camera, and use two small M6 Nylok screws to fix the camera-mounting base to the camera.

STEP 3: Attach the bracket to the wall.

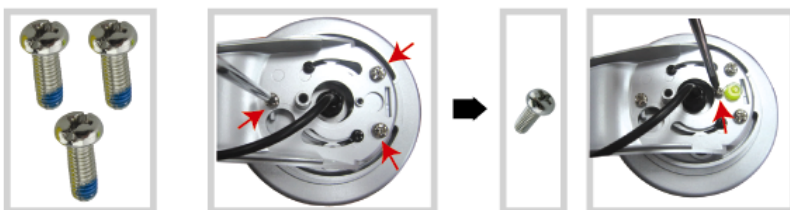


- a). The bracket is composed of two parts: the upper part and the bottom part. Remove the upper part by loosening the screw on it. Use the four mounting screws and wall plugs to attach the bottom part to the wall, as shown in the picture below.
- b). Use the spirit level supplied with the bracket package to check the surface is horizontal or not. If the surface is horizontal, the bubble will remain in the center circle of the spirit level.

STEP 4: Attach the camera to the bracket.

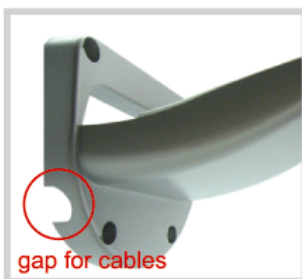


- a). Put the cables through the hole of the bracket.
- b). Attach the camera to the bracket with the two mounting base screws, and rotate the camera as indicated below. The camera will be hooked on the bracket.



- c). Slightly secure the camera and the bracket with the supplied three long M6 Nylok screws.
- d). Use the spirit level to check the surface is horizontal or not, and adjust the tightness of the three M6 Nylok screws.
- e). When you make sure the surface is horizontal, use the M4 screw supplied with the bracket package to fix the camera and the bracket tightly.

STEP 5: Connect the power, video, network & reset cables.



- a). Put the cables through the gap and connect the camera with the indicated power adapter, video cable, network cable.
- b). After connection, use the insulation tape to cover the connected wires and arrange the cables in the proper position again.

STEP 6: Replace the upper part of the bracket, and finish the installation.



- a). Place the upper part of the bracket back to the bottom part of the bracket, and fasten the bracket with the screw indicated above.
- b). Then use the cap supplied with the package to cover the screw hole and finish the installation.

2.3 Install the Hardware (For 3X PTZ network camera)

Before installation, you need the following items before installation:

- The accessory package which includes:
 - (1) Wall mounting screws
 - (2) Wall plugs
 - (3) Decoration covers
- Power Drill or screwdriver

STEP 1: Mount the camera to the ceiling.

Attach the camera to the ceiling, and fasten the camera with the supplied 3 screws.



STEP 2: Push the decoration covers to the camera to lock.

When the camera is mounted, find the supplied 3 decoration covers in the accessory package, and push them to the camera to lock as shown below.



STEP 3: Connect the power, video, audio, RJ11, RJ45 connectors.

Please refer to Step 4 in “2.2 Install the Hardware (For AVI322 / 321)”.

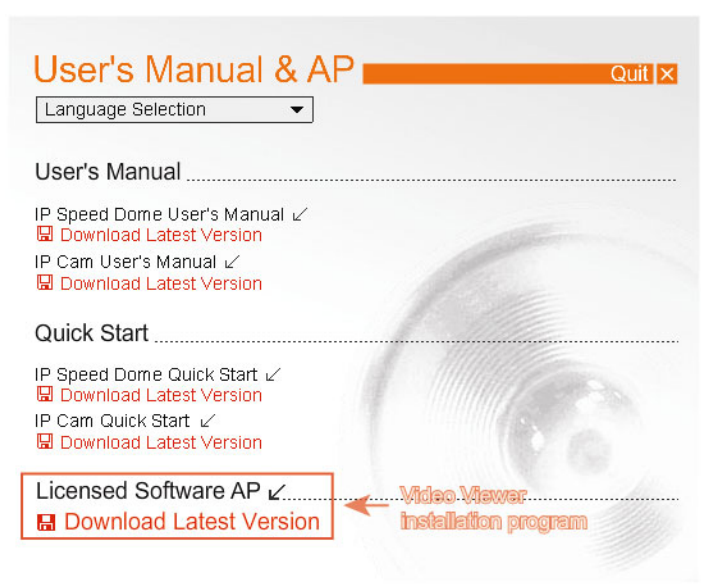
2.4 Log In and Access the Camera for the First Time

Before using the network camera, you need to make related network setting via the supplied software, “Video Viewer”, depending on the network type you’re using (Static IP / PPPOE / DHCP).


For network setting details, please refer to “APPENDIX 1 NETWORK SETTING” at page 32.

Step 1. Install the Software.

- a) Place the supplied CD into your CD-ROM or DVD-ROM drive. The program will be automatically run.




- b) Click “Licensed Software AP” to install Video Viewer, or click “Download Latest Version” under “Licensed Software AP” to download the latest version of Video Viewer from the Internet.

- c) Follow the on-screen instructions to finish the installation. When the installation is completed, a shortcut icon  will be placed on your PC desktop.



Step 2. Connect the network camera to your PC or laptop via a RJ-45 network cable.



Step 3. Enter the default IP address of the camera for login.

- a) Double-click  icon on your PC / laptop desktop to enter the Video Viewer control panel. By defaults, the “Address Book” panel will be displayed on the right side of the Video Viewer control panel.

The default network camera settings are as follows:

Item	Default Setting
IP Address	192.168.1.10
User Name	admin
Password	admin
Port Number	80


- b) Click  →  to key in the default IP address, user name, password, and port number of the network camera you intend to connect.
- c) Double-click the IP address you just added into the address book for login.





Step 4. Click  →  → “Network” to make related network setting depending on the network type you’re using (Static IP / PPPOE / DHCP).












For network setting details, please refer to “APPENDIX 1 NETWORK SETTING” at page 32.

3. VIDEO VIEWER BASIC OPERATION

3.1 The Live View Page

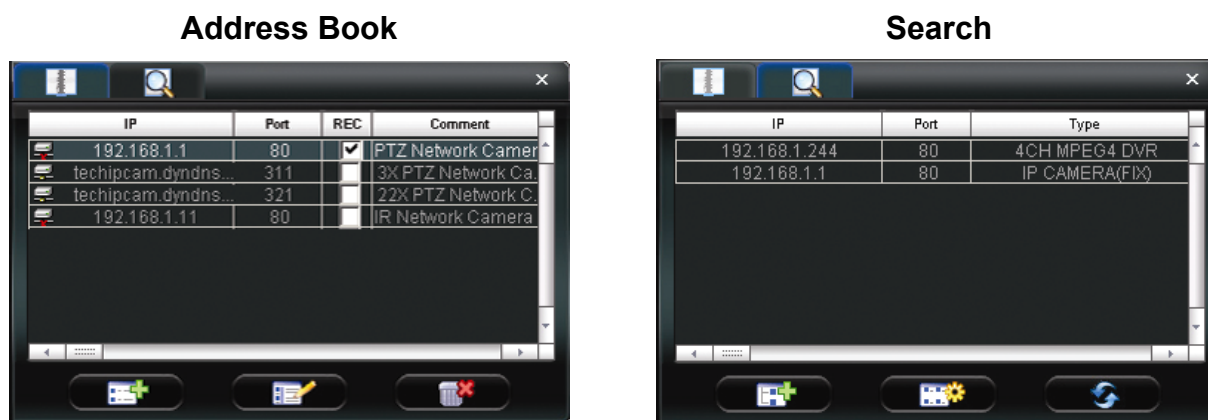
After setting up the network information, login user name and password, double-click “

<ul style="list-style-type: none"> Connect to only one network camera 	<ul style="list-style-type: none"> Connect to multiple network cameras (ex. 4 cameras)
<ul style="list-style-type: none"> 1-cut display  	<ul style="list-style-type: none"> 4-cut display 
	

NO.	Button	Function	Description
①		Image Display	To switch to another camera view if two or more network cameras are connected, click the corresponding blue tab. The camera title shown in the blue tab can be customized. The default camera title is “Camera1”.
		Expand All Views	To see all views in the image display area if you have many views and do not want to switch each view by clicking the blue tab described above, click to choose a proper split view (1-cut / 4-cut / 6-cut / 9-cut / 13-cut / 16-cut) which best suits your needs. The selected view will be indicated with a red frame around it.
		Original Size	Click to return to original size of the monitoring view.
		Close	Click to close the current image display view. If the image display view is closed, you will be logged out automatically.
		Close All	Click to close all the current image display view. If the image display view is closed, you will be logged out automatically.
②		Address Book	Click to show the predefined IP address(es). You can add, remove or search the IP address to login the network camera remotely.
③		Miscellaneous Control	Click to show the main operation functions: audio volume control, color setting, backup, record setting, server setting, upgrade, and find status log list.
④		Record	Click to start / stop the manual recording.
⑤		Snapshot	Click to take a snapshot of the current view. The snapshot will be saved in the path you specified in Record Setting.
⑥		Information	Click to show the current network connection details.
⑦		PTZ	Click to show the PTZ control functions: auto tracking, auto move, auto pan, zoom in, zoom out, focus near and focus far ...etc.

3.2 Address Book

This view is displayed when the Video Viewer is activated for you to login / out the network camera from the current address list, or search the available IP address as follows:


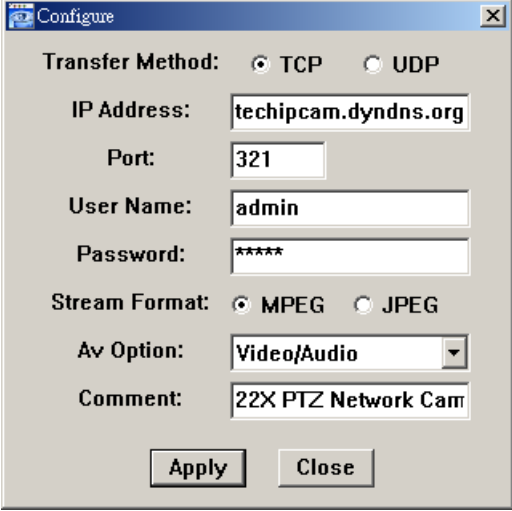




➤  (Address Book)

Click to view the pre-defined network camera access details.




To login, choose one IP address from the address list, and click the address twice; to logout, click the connected IP address twice.

You can also create new IP address information, or modify or remove the current IP address information.

Button	Function	Description
	Add	Click to directly add one IP address for login. Key in all the network camera access information needed, and click "Apply" and "Close" to add the selected address to the address book. 
	Edit	Select one current IP address from the address list, and click this button to edit the settings.
	Remove	Select one IP address from the address list, and click this button to delete it.
<input checked="" type="checkbox"/>	Record	Check this checkbox to enable the record settings. For details, please refer to the "4.2 Record Setting" at page 16. The default setting is unchecked.



➤  **(Search IP Address)**

Click to search and view the available IP address(es) for the network connection. You can choose one address to add into the address book, edit the details, or update the address list.

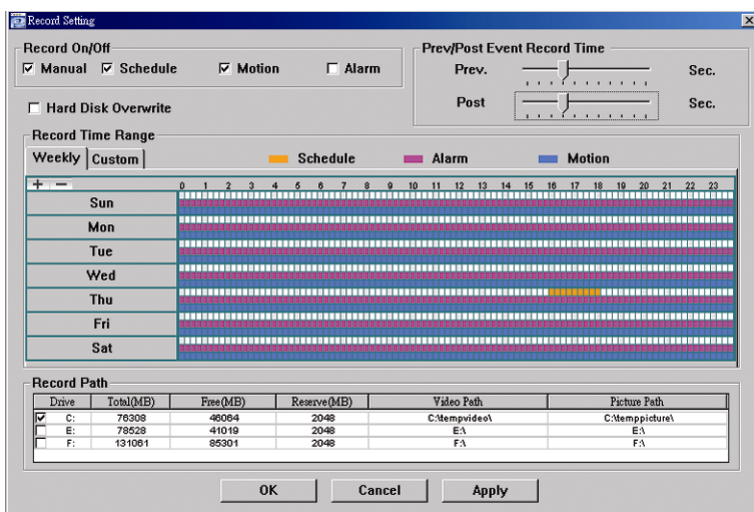
Button	Function	Description
	Add into address book	Select from the available IP address list, and click this button. Key in the network camera access information needed, and click “Apply” and “Close” to add the selected address to the address book.
	Setting	Select from the available IP address list, and click this button to edit the setting.
	Refresh	Click to update the available IP address list.

3.3 Manual Record 


1) Choose the record type and assign the record location

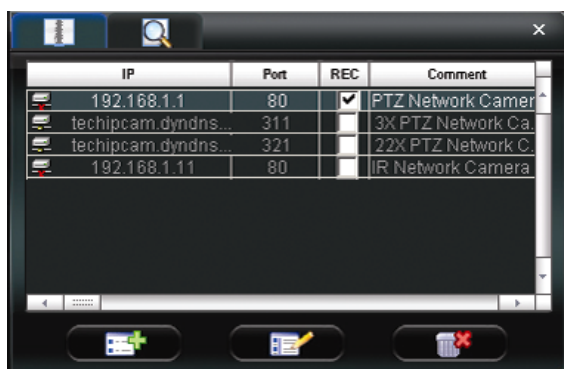
Click “” (Miscellaneous Control) → “” (Record Setting) to go to the “Record Setting” page. Check the record type(s) (Manual), and assign the location to save the recordings by double-clicking the “Video Path” cell.

Note: Make sure a record path is chosen, and the available disk capacity (Free (MB)) is larger than the reserved capacity (Reserve (MB)). The minimum reserved capacity is 2048MB.




2) Enable the record settings

Once the “Manual” checkbox is checked in the “Record On/Off” section, checked the “REC” box in the address book panel “” to enable the record settings.





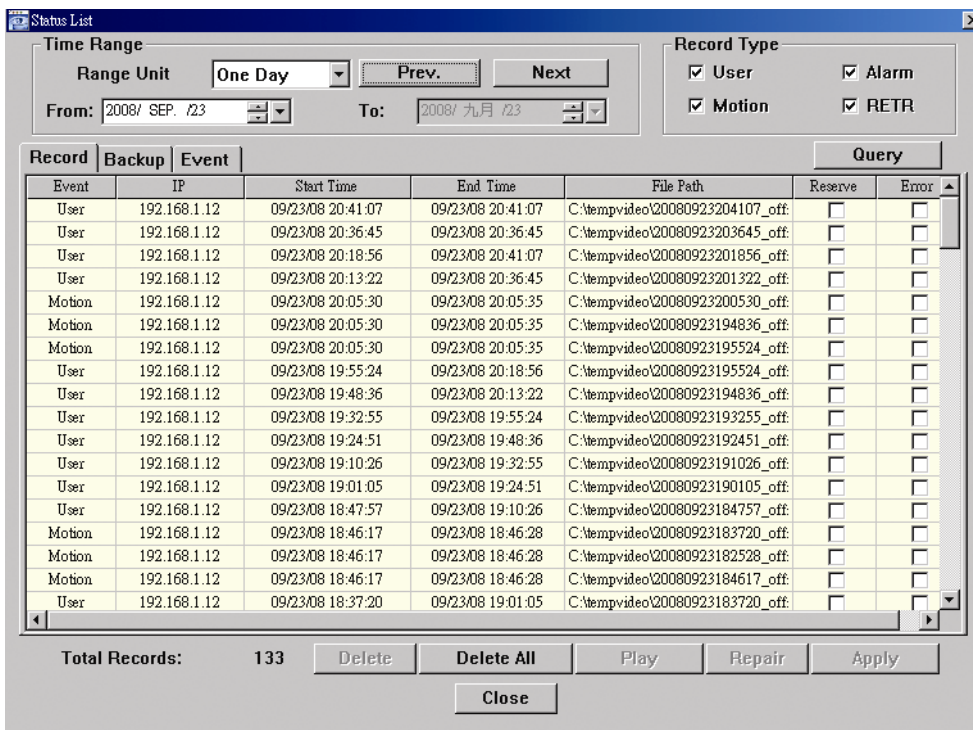
3) Click “” (Record) button to start manual recording

Click “” (Record) on the main control panel to start the manual recording immediately, and the recordings will be saved in the specified location. When the record function is started, a flashing indication icon will be shown at the bottom right corner of the image display view.

Note: For detailed schedule record setting, motion-triggered and alarm-triggered recording, please refer to “4.2 Record Setting” at page 16 & “Trigger” at page 20.

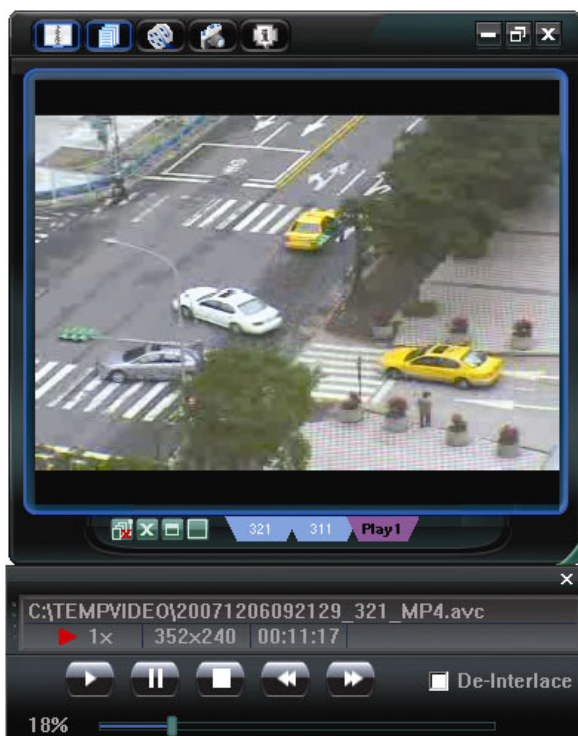
3.4 Playback

To play a recording, click “” (Miscellaneous Control) → “” (Status List), and select the “Record” tab. A list of all the recordings will be shown by defaults, and you can also sort out the logs you want to speed up the search time. For details, please see “4.5 Status List” at page 30.





To immediately play a recording file, select a log from the list, and click “Play”, or double-click the selected log. Then, the playback control panel will be shown at the bottom of the main control panel similar to the following.

For the playback control panel details, please see “Playback Screen” at page 30.



3.5 Snapshot

To take a snapshot of the current view, click “” (Snapshot) on the main control panel. Once the current view is captured, you’ll see an icon “” shown at the bottom right corner of the image display view.

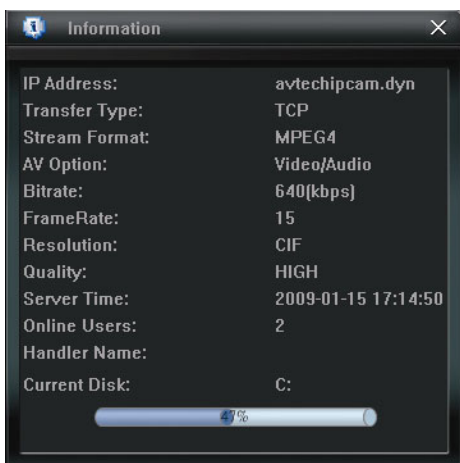
The snapshot will be saved in the path you specified in “” (Record Setting). For snapshot path setting, please refer to “4.2 Record Setting” at page 16.



3.6 Information

Click this button to show the current network connection details:







- | | |
|------------------|---------------------------|
| 1) IP Address | 7) Resolution |
| 2) Transfer Type | 8) Quality |
| 3) Stream Format | 9) Server Time |
| 4) AV Option | 10) Online Users |
| 5) Bits Rate | 11) Current Disk Capacity |
| 6) Frame Rate | |






3.7 PTZ Control

Click this button to enter the PTZ control panel:




Icon	Function	Description
	Go to preset points	Click the preset point from 1 to 16 to move the camera to the specific location you defined in the camera preset page. You can define up to 16 preset points for this network camera. For the buttons without assigning a preset point, it will be grayed out.
	Auto Mode	Click to activate the auto mode of the network camera.
	Auto Tracking	Click to activate the auto tracking of the network camera.
	Focus	Click to adjust the focus of the network camera.
	Zoom	Click to adjust the zoom ratio of the network camera.
	Max Zoom	Click to zoom in / zoom out the network camera to the maximum ratio.

Icon	Function	Description
	Turbo off / on	Speed up the menu selection from 1 to 10. Ex: If the value of the turbo step is set to 5, one mouse-click will function as 5 mouse-clicks when you click the arrow keys. <i>Note: To use this function, you need to set it in the camera setting page first.</i>
	Arrow keys	Click one of them to move the camera to the direction you want.
	Auto Move off / on	Click to enable the auto move function. It allows the camera to move to the direction where your cursor stays.









4. VIDEO VIEWER MISCELLANEOUS CONTROL PANEL

Note: For the actual display and operation, please refer to your network camera in hand. The display and operation shown here is for reference only.



Click “” (Miscellaneous Control) on the Video Viewer control panel to use the following functions:

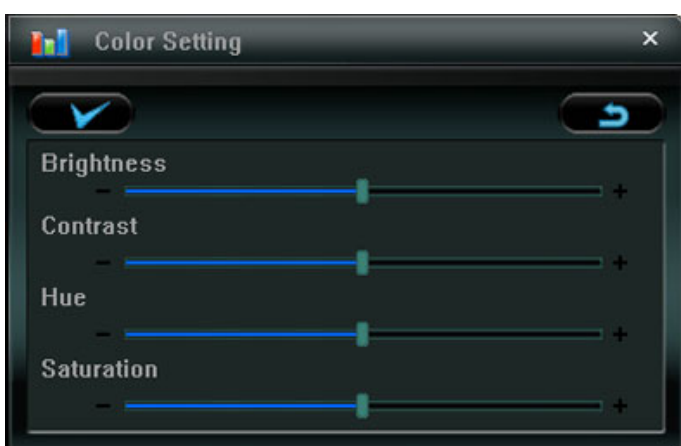
Click the button  to show the software version






Button	Function	Description
	Audio On / Off	Click this button to turn on / off the audio function of the network camera.
	Audio Volume Control	To adjust the volume of the audio, press and drag the volume slider.
	Color Setting	Click this button to adjust the brightness / contrast / hue / saturation for the selected network camera. For details, please see “4.1 Color Setting” at page 15.
	Backup	This function is not available for network cameras.
	Record Setting	Click this button to go to the detailed record setting. For details, please refer to “4.2 Record Setting” at page 16 for details.
	Server Setting	Click this button to go into the detailed server setting. For details, please refer to “4.3 Server Setting” at page 16 for details.
	Tools	Click this button to update the firmware version of your network camera. For details, please refer to “4.4 Tools” at page 28 for details.
	Status List	Click this button to view all the record list and login/logout event list, search the desired log list(s) by date, or playback the recording of the selected log list. For details, please refer to “4.5 Status List” at page 29.

4.1 Color Setting



In the live view page, choose the desired network camera from the image display tab. Click “” → “” to go into the “Color Setting” page, and you can adjust the brightness / contrast / hue / saturation for the selected network camera.

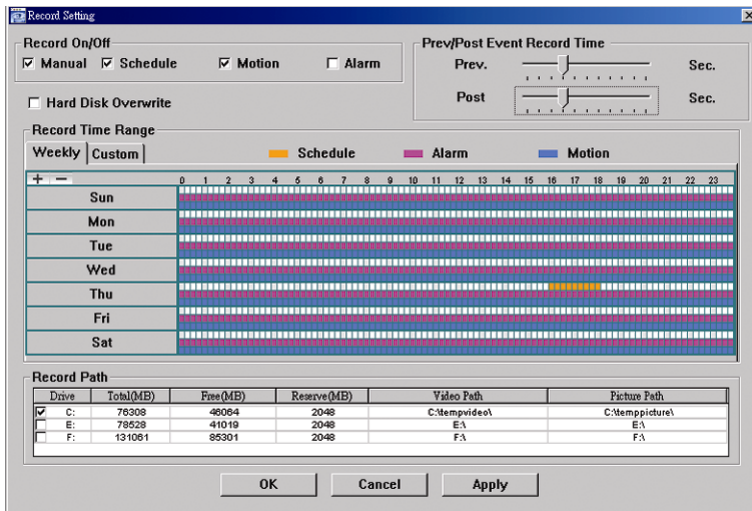



Click “” (Set) to apply the change to the network camera. Click “” (Default) and click “” (Set) to return to the default color settings.

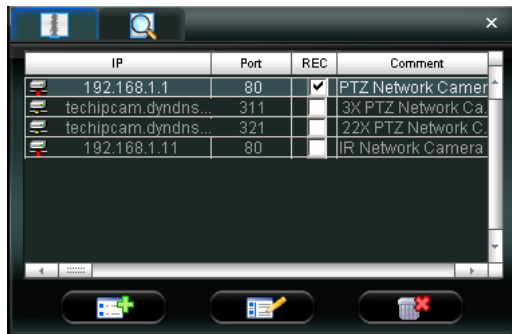
Note: You need to be a supervisor to operate this function. For details, please see “Account” at page 18.

4.2 Record Setting

Click “” → “” to go into the “Record Setting” page, and you can set which type of the recording is enabled (Manual / Schedule / Motion / Alarm), and where the recorded data / snapshots are saved.



Note: Once all the record settings are finished, check the “REC” checkbox () in the address book panel to enable the record setting.



Please refer to “Address Book” at page 10.

Record On/Off

In this section, you can select which type of the recording will be enabled. There are four options: Manual / Schedule / Motion / Alarm.

Prev / Post Event Record Time

In this section, you can set the pre- / post-event record time from 0 ~ 10 seconds by pressing and dragging the slider.

Hard Disk Overwrite

Check this checkbox to overwrite from the oldest recorded data when the HDD is full.

Record Time Range

There are two options available for you to set the recording time: Weekly & Custom.

◆ Weekly

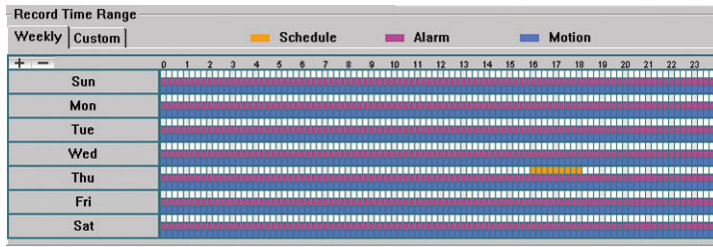
Choose the time box(es) within which you want to enable the recording. The time scale is from 0 ~ 24 hours per day, and there are three time lines for each weekday, representing three different recording types.

When you select the time box(es), you may see the color orange, pink or blue:

orange => the 1st line, schedule record

pink => the 2nd line, alarm record

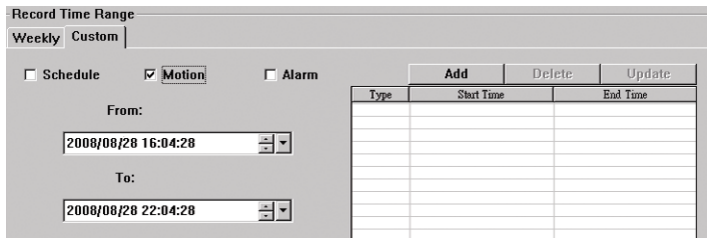
blue => the 3rd line, motion record



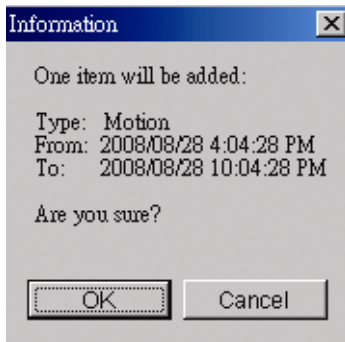
Tip: To set schedule record, alarm record and motion record all at once for the whole week, press “+” button.
To clear all record time settings, press “-” button.

◆ Custom

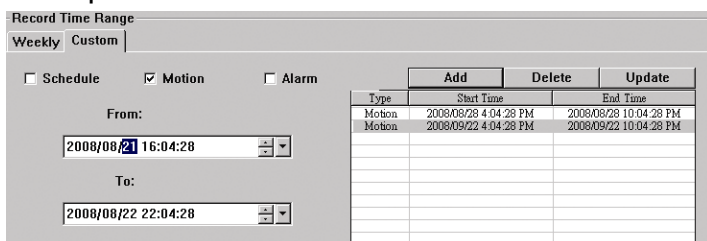
To specify the more specific time for recording, click “Custom”.



- a). Select the desired record type(s) (Schedule / Motion / Alarm), and set the start & end date and time.
- b). Press “Add”, and a pop-up window will appear and ask you to confirm your setting. Click “OK” to add the record setting, or “Cancel” to discard the setting.



- c). After adding the record setting, you will see the item(s) you added in the custom record list.
To delete a certain item, choose the item you want to delete, and click “Delete”.
To modify a certain item, choose the item you want to modify, change the start time and end time, and click “Update”.



Record Path

Select and check the location for saving the recorded video and snapshot pictures.

To change the saving path for the recorded video clips or snapshots, check the drive you want, click the cell of “Video Path” or “Picture Path” twice, and select a new path for saving the video clips or snapshots.



Drive	Total(MB)	Free(MB)	Reserve(MB)	Video Path	Picture Path
<input checked="" type="checkbox"/> C:	29996	15608	2048	C:\tempvideo\	C:\temppicture\
<input type="checkbox"/> D:	78528	31071	2048	D:\	D:\
<input type="checkbox"/> E:	46312	45725	2048	E:\	E:\
<input type="checkbox"/> G:	76316	24154	2048	G:\	G:\

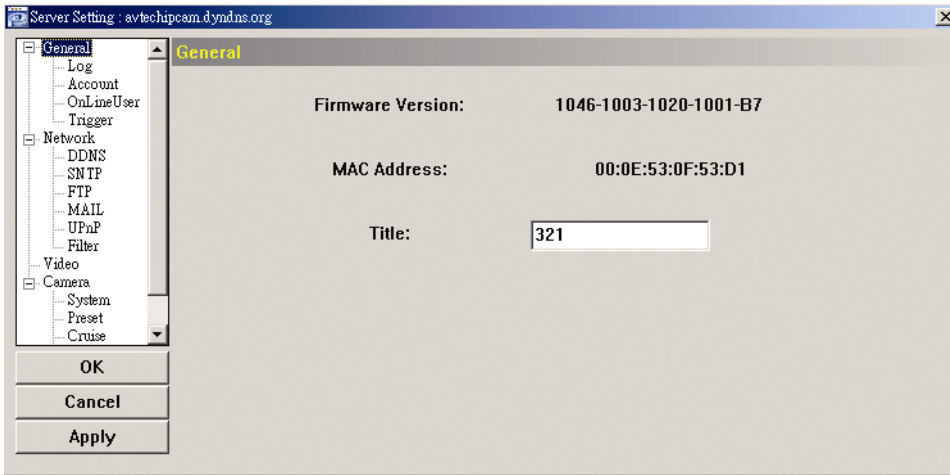
4.3 Server Setting

Click “” → “” to go into the “Server Setting” page, and you can view, set or modify all the network camera setting. All the changes you make here will be applied to the connected network camera.

Note: You need to be a supervisor to operate this function. For details, please see “Account” at page 18.



General

Click “” → “” → “General” to go into the “General” page. In “General” page, you will see the following items:

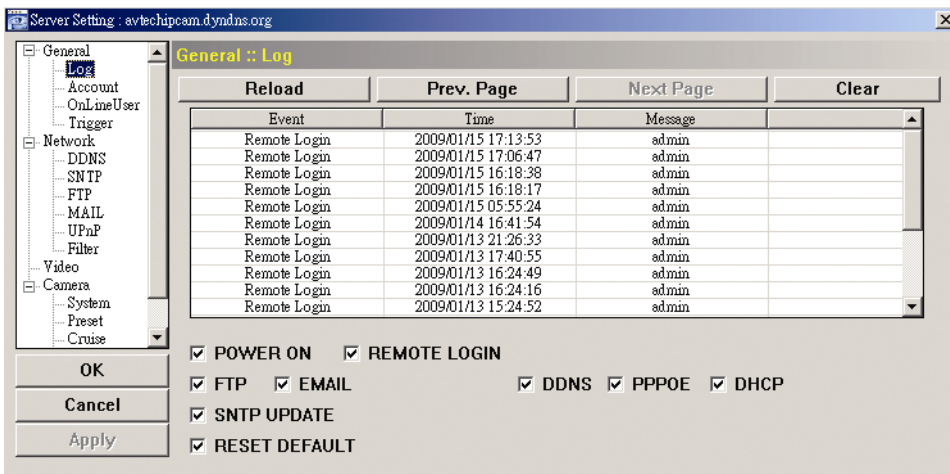


Item	Description
Firmware Version	Display the current firmware version of the network camera.
MAC Address	Display the MAC address of the network camera.
Title	Provide a title for the network camera. Only 15 characters are allowed.



Log

Click “” → “” → “General” → “Log” to go into the “Log” page. In the “Log” page, you can check one, some or all log types (as shown in the picture) for the network camera to see different log records.

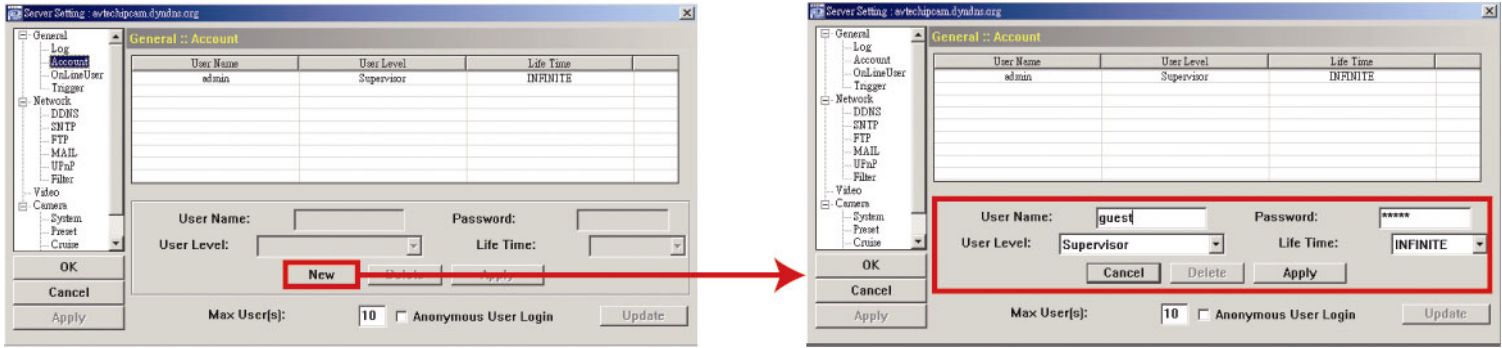
- To refresh the logs, click “Reload”.
- To view the earlier or later logs that are not shown in the current page, click “Prev. Page” or “Next Page”.
- To clear all the logs, click “Clean”.



Account

Click “” → “” → “General” → “Account” to go into the “Account” page. In the “Account” page, you can create a new account for login, or delete or modify the existing account setting.



To add an account, click “New”, and set the “User Name”, “Password”, “User Level” and “Life Time”. Then, click “Apply” to save your setting and create a new account.

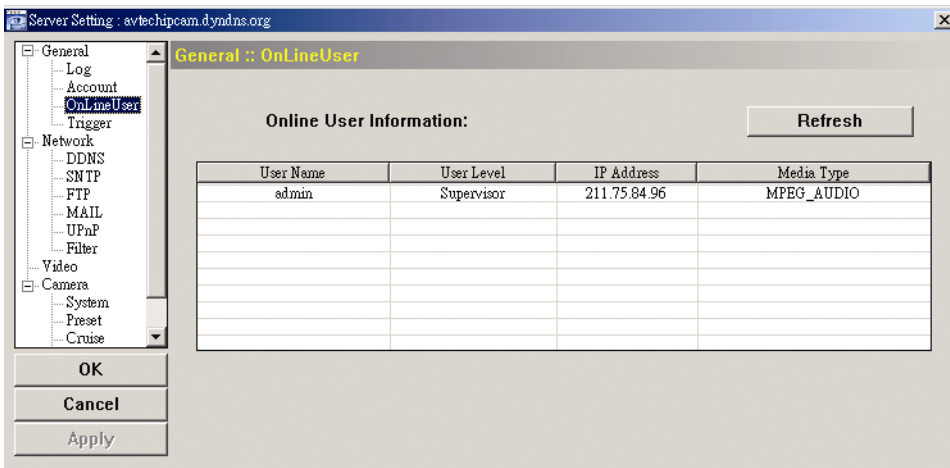


- To modify an existing account, select the account you want, change the setting, and click “Apply”.
- To remove an existing account, select the account you want, and click “Delete”.
- To save your changes, click “Apply”.



Column	Description																																																																						
User Name	Set a user name that will be used for remote login. The user name allows up to 31 characters.																																																																						
Password	Set the password that will be used for remote login. The password allows up to 31 characters.																																																																						
User Level	<p>Set the security level of an account to give the permission to control different Video Viewer functions. There are four user levels: “Supervisor”, “Power User”, “Normal User” and “Guest”.</p> <p>For the functions each user level is allowed to access, please see the information below:</p> <table border="1"> <thead> <tr> <th></th> <th>Supervisor</th> <th>Power User</th> <th>Normal User</th> <th>Guest</th> </tr> </thead> <tbody> <tr> <td>Address Book</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> </tr> <tr> <td>Miscellaneous Control</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Color Setting</td> <td>●</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>Backup</td> <td>●</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>Record Setting</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> </tr> <tr> <td>Server Setting</td> <td>●</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>Tools Update Server</td> <td>●</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>Language</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Status List</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> </tr> <tr> <td>Record</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> </tr> <tr> <td>Snapshot</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> </tr> <tr> <td>Information</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> </tr> <tr> <td>PTZ Control</td> <td>●</td> <td>●</td> <td>●</td> <td>X</td> </tr> </tbody> </table>		Supervisor	Power User	Normal User	Guest	Address Book	●	●	●	●	Miscellaneous Control					Color Setting	●	X	X	X	Backup	●	X	X	X	Record Setting	●	●	●	●	Server Setting	●	X	X	X	Tools Update Server	●	X	X	X	Language					Status List	●	●	●	●	Record	●	●	●	●	Snapshot	●	●	●	●	Information	●	●	●	●	PTZ Control	●	●	●	X
	Supervisor	Power User	Normal User	Guest																																																																			
Address Book	●	●	●	●																																																																			
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Backup	●	X	X	X																																																																			
Record Setting	●	●	●	●																																																																			
Server Setting	●	X	X	X																																																																			
Tools Update Server	●	X	X	X																																																																			
Language																																																																							
Status List	●	●	●	●																																																																			
Record	●	●	●	●																																																																			
Snapshot	●	●	●	●																																																																			
Information	●	●	●	●																																																																			
PTZ Control	●	●	●	X																																																																			
Life Time	Select how long this account is allowed to stay online (1 MIN / 5 MIN / 10 MIN / 1 HOUR / 1 DAY / INFINITE)																																																																						
Max User(s)	Allow maximum 10 online users simultaneously																																																																						

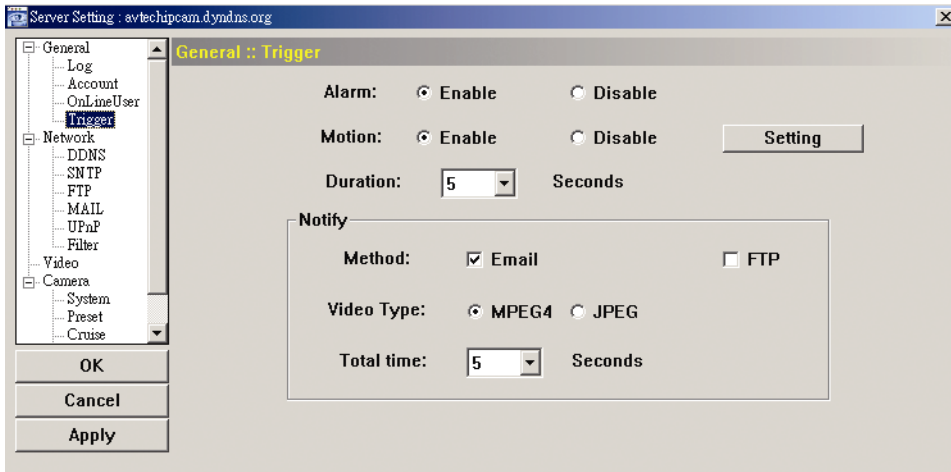
Online User

Click “” → “” → “General” → “OnLineUser”, and you can check all the online user information. To update the user information, click “Refresh”.



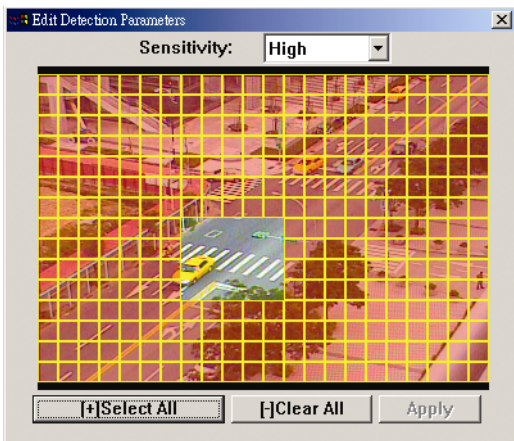
Trigger

Click “” → “” → “General” → “Trigger” to enter this page. In this page, you can setup the motion- or alarm-triggered setting and notification function.



◆ Trigger Setting

In this section, you can select to enable the alarm or motion detection function.

Item	Description
Alarm	Select to enable or disable the alarm function.
Motion	Select to enable or disable the motion detection function.
	<p>• Motion Detection Area Setting</p> <p>When “Enable” is selected, click “Setting” to enter the motion detection area setting page as follows:</p> <div style="border: 1px dashed gray; padding: 5px;">  </div> <p>Sensitivity: Set the detection sensitivity (High / Normal / Low).</p> <p>Area Setting: Set the motion detection area by selecting the area grids with your mouse. Pink grids represent the area that is not being detected while the transparent grids are the area under detection. You can set multiple areas under detection. Click “-” (Clear All) to set the whole area undetected. Click “+” (Select All) to set the whole area under detection.</p>
Duration	Set the duration time for motion-triggered recording (5 / 10 / 20 / 40 seconds).

◆ Notification Setting

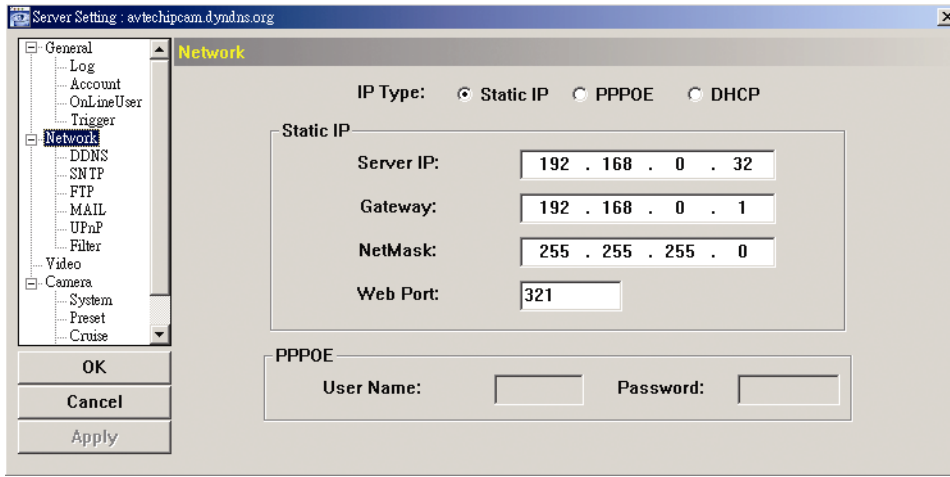
In this section, you can select to enable E-mail and/or FTP notification when an alarm or a motion happened.

Item	Description
Method	<p>• Email Notification</p> <p>If the E-mail notification function is activated, the network camera will upload the captured video clip to the assigned E-mail address(s) once motion-triggered or alarm-triggered recording happened.</p> <p>• FTP Notification</p> <p>If the FTP notification function is activated, the network camera will upload the captured video clip to the specified FTP site once motion-trigger or alarm-trigger recording happened.</p>
Video Type	Select the file type of the notification files: MPEG4 (video) / JPEG (image).
Total	Set the record time of the notification video clip (1 ~ 5 seconds).

Network

Click “” → “” → “Network” to go into the “Network” page. In “Network” page, you can set the network

configuration of the network camera.



Select the network type you will be using for the network camera connection. There are 3 network connection types: Static IP, PPPoE and DHCP. For details, please refer to “APPENDIX 1 NETWORK SETTING” at page 32.

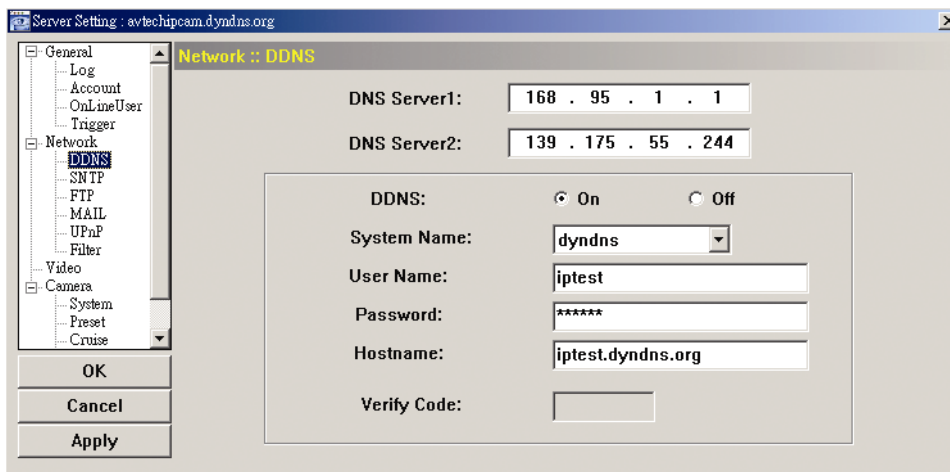
Note: PPPoE and DHCP network connection types are required to apply the DDNS service to get a “Hostname” to correspond to a dynamic IP address. For details, please refer to “APPENDIX 1 NETWORK SETTING” at page 32.

Function	Description
Web Port	Typically, the default TCP port used by HTTP is 80. However, in some cases, it is better to change this port number for added flexibility or security. The valid web port number ranges from 1 to 9999.
Static IP	Computers are communicated and recognized by their own unique IP addresses over the Internet. “Static IP” provided by your ISP (Internet Service Provider) means the IP address of the computer is fixed. Key in the server IP address, gateway and network information provided by your ISP provider to configure a static IP network connection.
PPPOE	PPPOE stands for Point-to-Point Protocol over Ethernet. Users can easily have the Internet service as long as they’re ready for the following things: 1) Insert an Ethernet card into the PC. 2) Obtain the ADSL service via any ISP. 3) Obtain and install the PPPOE software CD. When everything is ready, choose the “PPPOE” IP type, and key in the user name and password provided by your ISP. Then, select “Network” → “DDNS” to set DDNS settings.
DHCP	This DHCP function needs to be supported by a router or cable modem network with the DHCP service. Choose the “DHCP” IP type, and select “Network” → “DDNS” to set DDNS settings.

DDNS

You need to apply a DDNS account before setting PPPoE or DHCP connection. DDNS is a service for transforming the dynamic IP corresponding to a specific “host name”. Go to a website which provide free DDNS services and apply a host name. For details, please refer to “APPENDIX 1 NETWORK SETTING” at page 32.

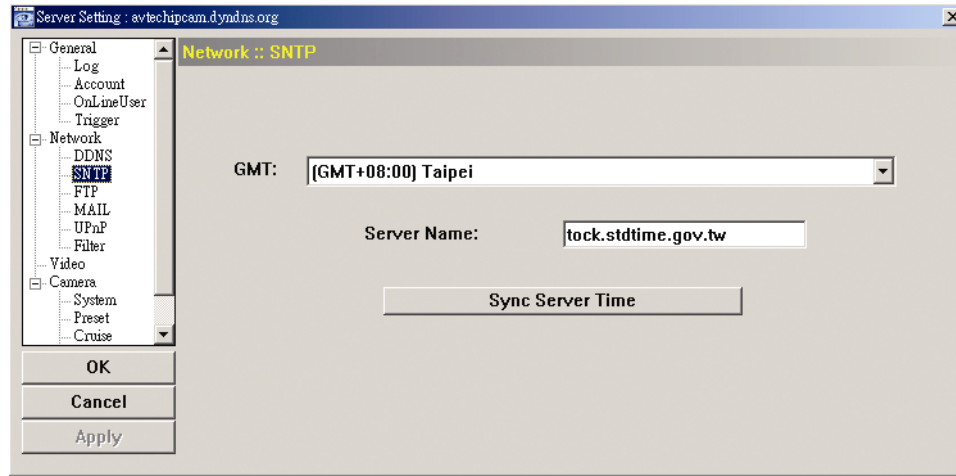
Click “” → “” → “Network” → “DDNS” to enter.



SNTP

SNTP (Simple Network Time Protocol) is for time setting. Click “” → “” → “Network” → “SNTP” to go

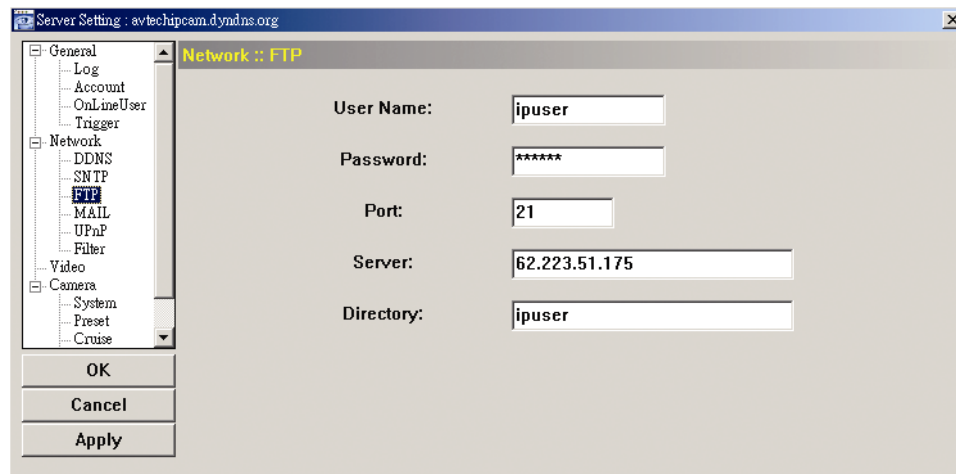
into the "SNTP" page.



Function	Description
GMT (Greenwich Mean Time)	Once users choose the time zone, the network camera will adjust the local area time of the system automatically.
Server Name	Users can simply use the default SNTP server (For example, time.stdtime.gov.tw).
Sync Server Time	Click and the network camera will synchronize the time with the network time.

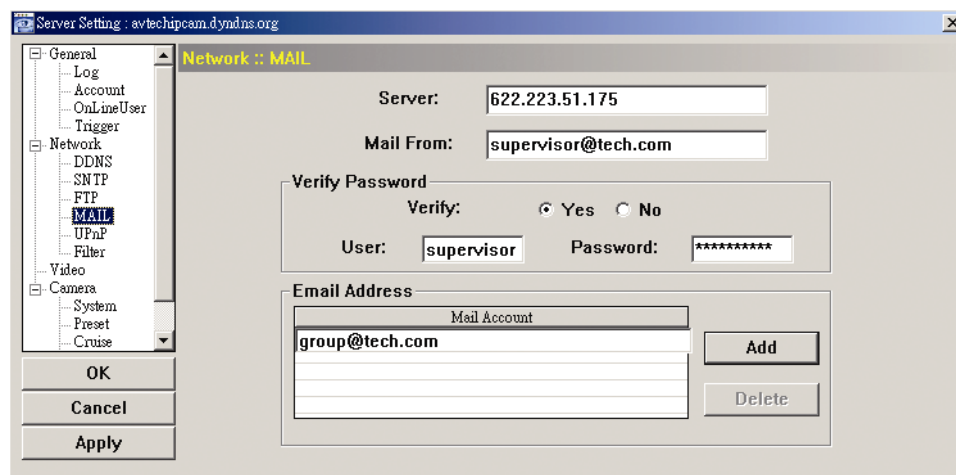
FTP

Click "Server Setting" → "Network" → "FTP" to go into the "FTP" page. Enter the detailed FTP information and press "Apply" to confirm. The information you set here will be applied when the function of FTP notification is enabled in the "Trigger" menu.



MAIL

Click "Server Setting" → "Network" → "MAIL" to go into the "MAIL" page. Enter the detailed E-mail information and press "Apply" to confirm. The information you set here will be applied when the function of E-mail notification is enabled in the "Trigger" menu.



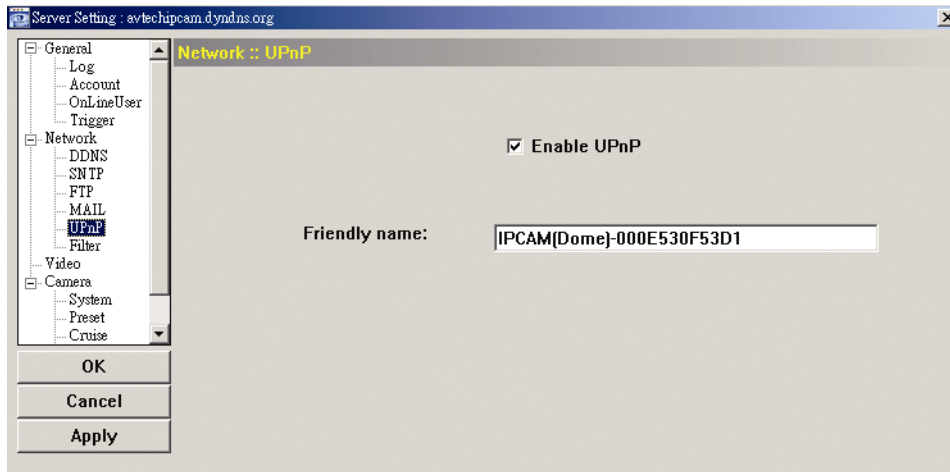
Function	Description
Server	Enter the SMTP server address provided from your e-mail system supplier.
Mail From	Enter the entire mail address to ensure E-mails will not be blocked by SMTP.

Function	Description
Verify Password	Some mail servers are required to verify the password. Please enter the “user name” and “password”.
Email Address	Add the E-mail address(s) of the assigned recipient(s).

UPnP

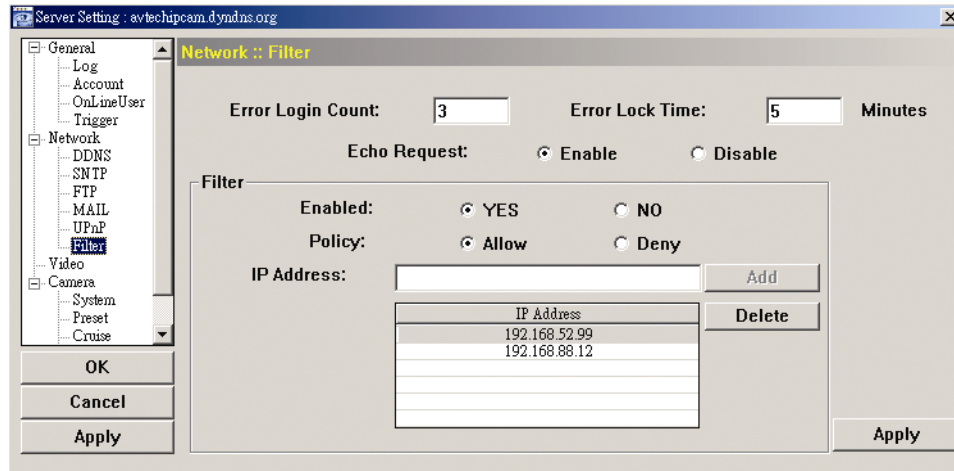
Click “” → “” → “Network” → “UPnP” to go into the “UPnP” page. Check “Enable UPnP” to allow the network camera to be detected among devices within the same network area.

Note: “UPnP” stands for “Universal Plug and Play”, which allows devices to connect seamlessly in the home and corporate environments and simplify installation of computer components.



Filter

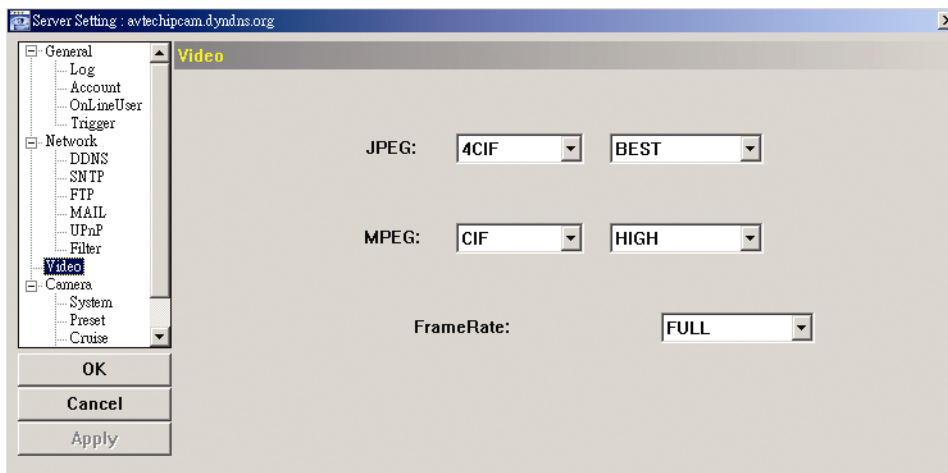
Click “” → “” → “Network” → “Filter” to go into the “Filter” page. In this page, you can choose to permit or block the IP address(es) which can access this connected network camera.



Function	Description
Error Login Count	Set the maximum count for login failure. When the maximum count is reached, the IP address trying to access the network camera will be locked.
Error Lock Time	Set the lock time in minutes when the maximum count of error login for an IP address is reached.
Echo Request	Select “Enable” to allow other users to use the ping command to detect the IP address of your network camera, or “Disable” to deny the ping command request.
Filter	Choose to enable (YES) or disable (NO) the filter function.
	If “YES” is chosen, choose you want to permit (Allow) or block (Deny) the IP address list below.
	<ul style="list-style-type: none"> To add an item to the IP address list, key in the IP address in “IP Address”, and click “Add”. To remove an existing item in the IP address list, click the item you want to remove, and click “Delete”.
Apply	Click “Apply” on the bottom right corner when any change is made in this menu, or the change will not be recorded in the system.



Video

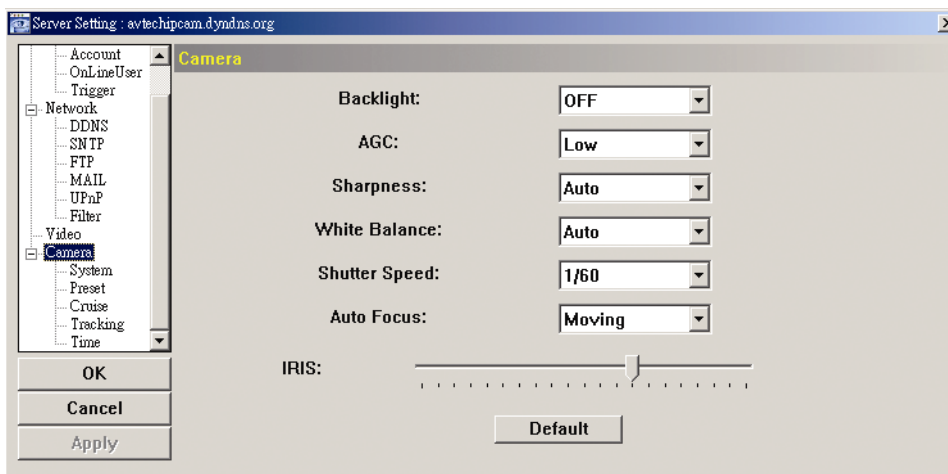
Click “” → “” → “Video” to go into the “Video” page.



Item	Description
JPEG / MPEG	Select the image resolution and quality. Image Resolution: CIF / 4CIF Image Quality: BEST / HIGH / NORMAL / LOW
Frame Rate	The frame rate allowed to each viewer can be adjusted to adapt to the bandwidth on the network. Set the desired image frequency to the maximum (FULL) or to a specified frame rate (1/2; 1/3; 1/4; 1/5; 1/10; 1/15; 1/20; 1/25; 1/30). The actual frame rate depends on the actual network connection, and may be lower than the specified one.

Camera

Click “” → “” → “Camera” to go into the “Camera” page and access the following functions. Find the camera settings that best suit your image needs by testing.

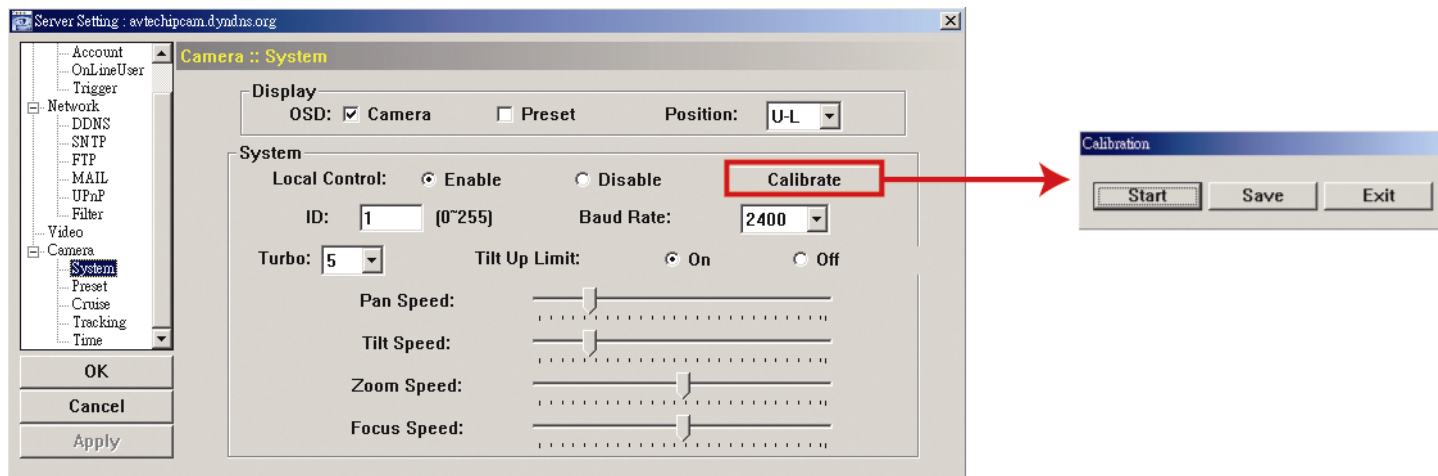


Function	Description
Backlight	Enabling backlight compensation makes the subject clearer if the image background is too bright, or if the subject is too dark.
AGC	Auto Gain Control is a function that can adjust the amplitude of the signal input according to the light conditions. There are four options: “Low”, “Medium”, “High” and “Off”). <u>Low:</u> When the light condition is too bright, you can select “Low” for lower sensitivity. <u>Medium:</u> When the light condition is normal, you can select “Medium” for normal sensitivity. <u>High:</u> When the light condition is too dark, you can select “High” for higher sensitivity. <u>Off:</u> Disable the auto gain control function. P.S. The higher the sensitivity is, the more the signal noise will be.
Sharpness	Sharpness is a function that can enhances image detail by increasing the aperture gain of the camera and sharpening the edges in the images. There are four options: “Auto”, “Low”, “Medium” and “High”). <u>Auto:</u> The camera automatically maintains a normal sharpness level. <u>Low / Medium / High:</u> The sharpness of the image can be set manually by choosing different sharpness level.

Function	Description
White Balance	<p>White Balance is a function that processes the viewed image to retain color balance over a color temperature range.</p> <p>According to different color temperature and installation place, choose different white balance mode (“Auto”, “Indoor 1”, “Indoor 2”, “Sun” and “Cloudy”).</p> <p><u>Auto</u>: Balance the color automatically depending on the different color temperature.</p> <p><u>Indoor 1 / Indoor 2 / Sun / Cloudy</u>: According to different color temperature and installation place, choose different white balance mode.</p> <p>P.S. The color temperature of the “Indoor 1” mode is about 9000K. The color temperature of the “Indoor 2” mode is about 3000K. The color temperature of the “Sun” mode is about 5500K. The color temperature of the “Cloudy” mode is about 7000K.</p>
Shutter Speed	<p>Shutter Speed is a function that can adjust the duration of the electronic shutter to produce optimum image quality.</p> <p>A slower shutter speed in dark conditions will help to produce a brighter image, but will produce fewer frames per second, which may cause images to be blurry during motion.</p> <p>The options are as follows: 1/60, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000, 1/100000</p>
AutoFocus	<p>There are three types of auto focus mode: “Always”, “Moving” and “Zooming”.</p> <p><u>Always</u>: Automatically adjusts the image focus.</p> <p><u>Moving</u>: Adjusts the image focus only when the PTZ camera is under the movement of panning/tilting.</p> <p><u>Zooming</u>: Adjusts the image focus only when the PTZ camera is under the movement of zooming.</p>
IRIS	<p>IRIS level is used to adjust the amount of light reaching the image sensor for best image results.</p> <p>By pressing and dragging the slider, you can increase the value to brighten the image or decrease the value to darken the image (50 ~ 250, default value is 162).</p>
Default	Click to restore all settings to default.

System



Click “” → “” → “Camera” → “System” to go into the “System” page and access the following functions.

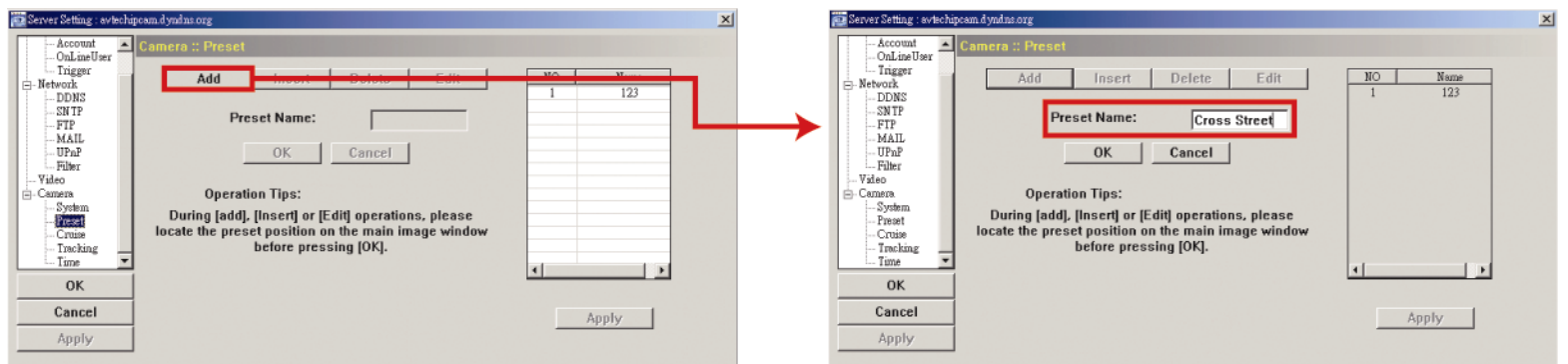


Function	Description
Display	<p>Check to display the camera title and preset point title, and choose the display position.</p> <p><u>Camera</u>: Check this checkbox to display the customized camera title that you set in the “General” page.</p> <p><u>Preset</u>: Check this checkbox to display the customized preset point title that you set in the “Preset” page.</p> <p><u>Position</u>: Choose the display position (Upper Left (U-L) / Upper Right (U-R) / Bottom Left (D-L) / Bottom Right (D-R)) from the drop-down list.</p>
Local Control	Check the checkbox to enable or disable the local control of the network camera.
Calibrate	This function is only used when the camera is not focused at the wide (1x) mode after installation. Click this button and choose “Start” to start calibration function. Once the focus is clear, press “Storage” to save the setting or press “Exit” to quit.
ID	Set the camera ID number (0 ~ 255) that used for identification.
Baud Rate	Set the baud rate of the camera to the same baud rate as the connected control device, for example, the keyboard controller.

Function	Description
Turbo	To speed up the camera control in the PTZ control panel of the video viewer, you can choose the turbo steps (1 ~ 10). The TURBO function can be activated in the PTZ control panel of the video viewer. Ex: If you activate TURBO function and set the value of the turbo step as 3, one mouse-click will function as clicking 3 times when you click one of the following buttons: Zoom In / Zoom Out / Focus Near / Focus Far / Max Zoom In / Max Zoom Out / Direction Navigation Buttons.
Tilt Upper Limit	Check to activate the tilt upper limit function or not (On / Off). Then this function is on, the camera tilt movement will be limited to a certain angle to avoid
Pan Speed	By pressing and dragging the slider, you can increase the value to accelerate the pan speed or decrease the value to slower the pan speed (1 ~ 255, default value is 29).
Tilt Speed	By pressing and dragging the slider, you can increase the value to accelerate the tilt speed or decrease the value to slower the tilt speed (1 ~ 255, default value is 29).
Zoom Speed	By pressing and dragging the slider, you can increase the value to accelerate the zoom speed or decrease the value to slower the zoom speed (1 ~ 255, default value is 129).
Focus Speed	By pressing and dragging the slider, you can increase the value to accelerate the focus speed or decrease the value to slower the focus speed (1 ~ 255, default value is 129).

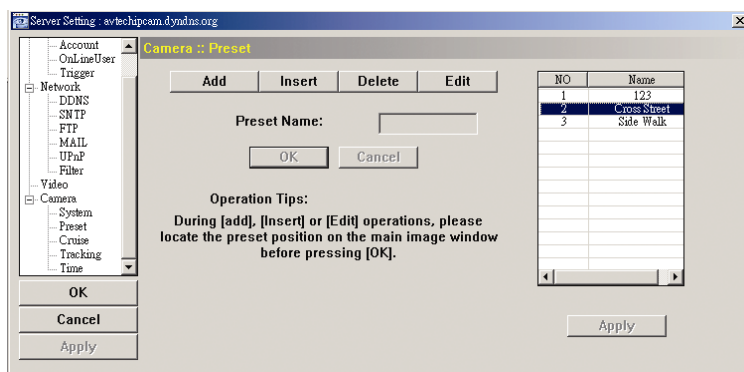
Preset

Click  →  → “Camera” → “Preset” to go into the “Preset” page and access the following functions.
A preset position is a pre-defined camera view than can be used to quickly move the camera to a specific location.



Function	Description
Add	Move the camera lens position (pan and tilt) and set the zoom ratio as needed, and click “Add” to assign the preset name of the preset point. After setup, click “OK” to confirm the setting. A new preset point item will be added in the list on the right.
Insert	Click one preset point item in the list. The inserted preset point item will be added before the item you click in the list. Then, move the camera lens position (pan and tilt) and set the zoom ratio as needed, and click “Insert” to assign the preset name of the preset point. After setup, click “OK” to confirm the setting.
Delete	Click one preset point item in the list. Then, click “Delete” to delete the selected preset point.
Edit	Click one preset point item in the list, and click “Edit” to modify the camera lens position (pan and tilt), zoom ratio and preset point name. After modification, click “OK” to confirm the setting.



Example for the preset point operation



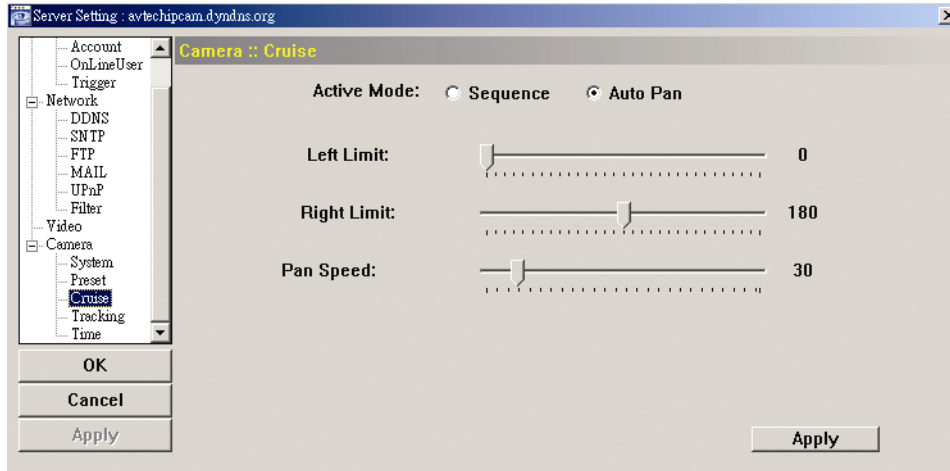
Three preset points are set.

In the control panel, three preset point buttons will be enabled. Click one of them to move the camera to the pre-defined position.

Cruise

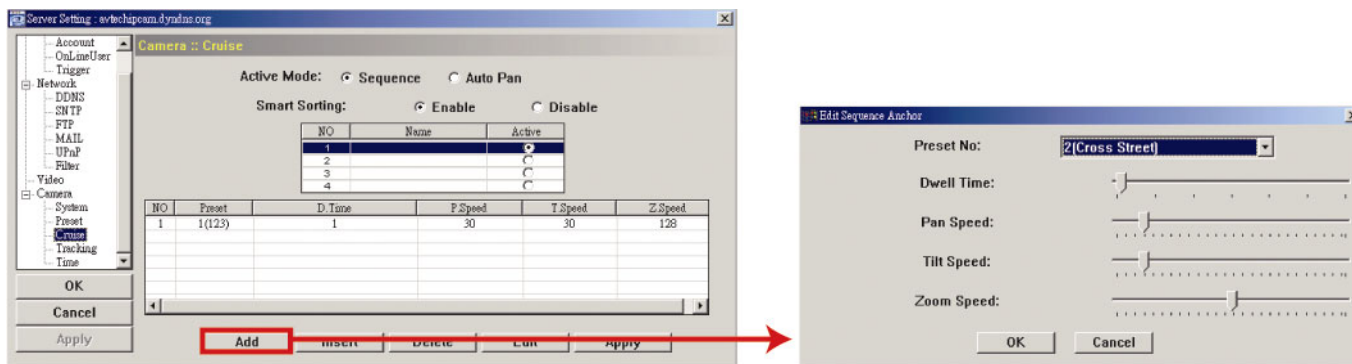
Click “” → “” → “Camera” → “Cruise” to go into the “Cruise” page and access the following functions.
In this page, you can set the auto pan and sequence mode.

◆ Auto Pan (Check the “Auto Pan” checkbox)



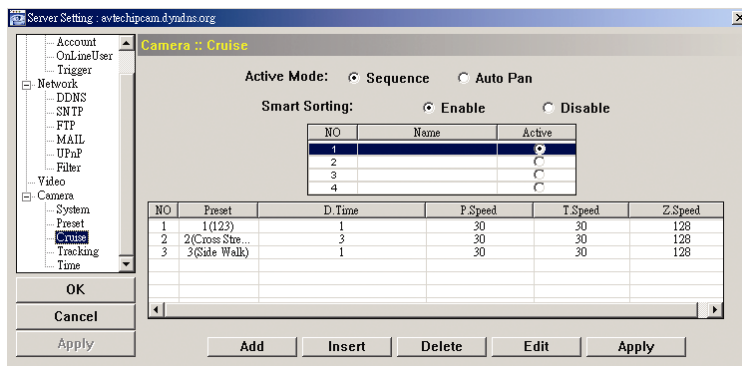
Function	Description
Left Limit / Right Limit	By clicking and dragging the slider, set the left / right end of surveillance area from 0° ~ 360°. The current value is displayed on the right.
Pan Speed	By clicking and dragging the slider, set the speed from 1 ~ 255. The current value is displayed on the right.

◆ Sequence (Check the “Sequence” checkbox)



Function	Description
Add	Click “Add” to enter the sequence anchor edit page and arrange the sequence of the preset points. In this page, select the preset point from the drop-down list of “Preset No”. By clicking and dragging the slider, set the dwell time, pan speed, tilt speed and zoom speed of the PTZ network camera. After setup, click “OK” to confirm.
Apply	After setup, click “Apply” on the bottom right to confirm.



Example for the cruise function operation

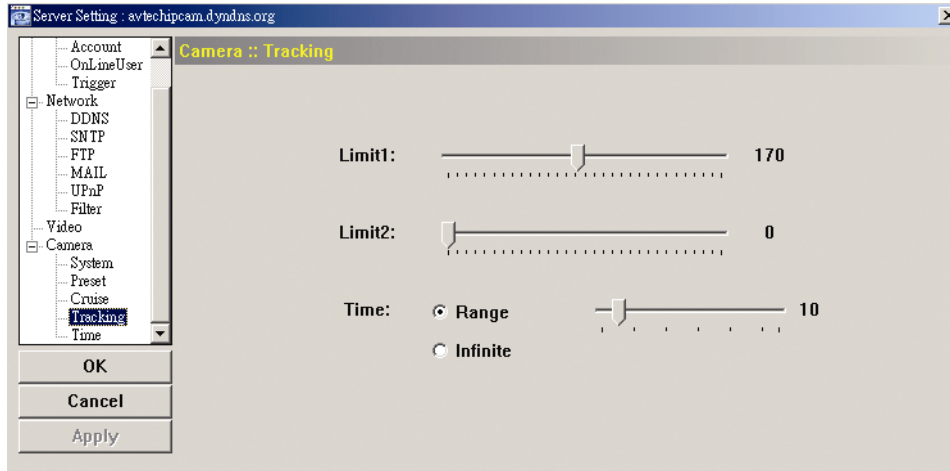


The sequence including three preset points is set.

In the control panel, click “AUTO” to activate the cruising function. The camera will move to the three preset points accordingly in a cycle.



Tracking

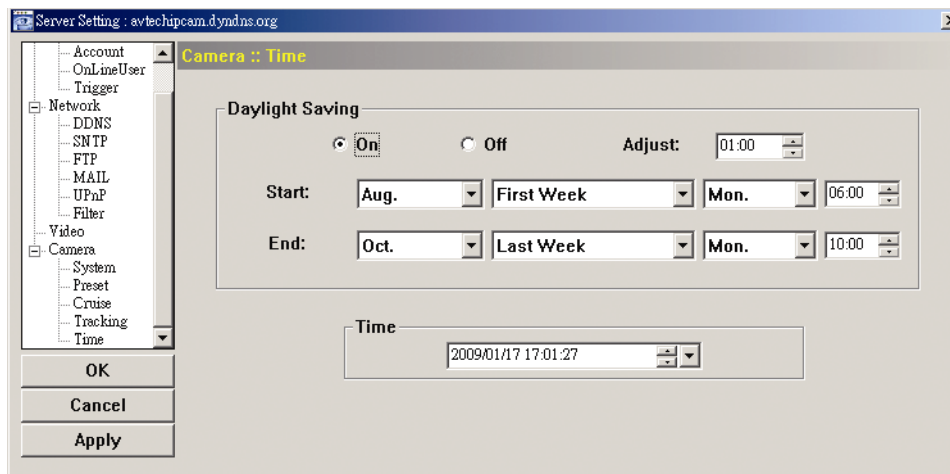
Click “” → “” → “Camera” → “Tracking” to go into the “Tracking” page and access the following functions. In this page, you can set the surveillance area for auto tracking, and the tracking timeout. When the locked target is out of the pre-defined surveillance area or stops moving for a pre-defined period of time, the camera returns to the point it originally monitors.



Function	Description
Limit 1	When the locked target moves out of the surveillance area, the camera returns to the point it originally monitors after the preset tracking timeout. By clicking and dragging the slider, set the left end of the surveillance area from 0° ~ 360°.
Limit 2	When the locked target moves out of the surveillance area, the camera returns to the point it originally monitors after the preset tracking timeout. By clicking and dragging the slider, set the right end of the surveillance area from 0° ~ 360°.
Time	When the locked target stops moving longer than the pre-defined tracking timeout, the camera returns to the point it originally monitors after the preset tracking timeout. By clicking and dragging the slider, set pre-defined tracking timeout of the camera from 5 ~ 60 seconds, or you can choose to have no time limit (Infinite).



Time

Click “” → “” → “Camera” → “Time” to go into the “Time” page and access the following functions:



Function	Description
Daylight Saving	Specify whether to use daylight saving time (ON / OFF). If this function is enabled, set the time period (START / END), and adjust the daylight saving time in hours (ADJUST).
Time	Set the current time.

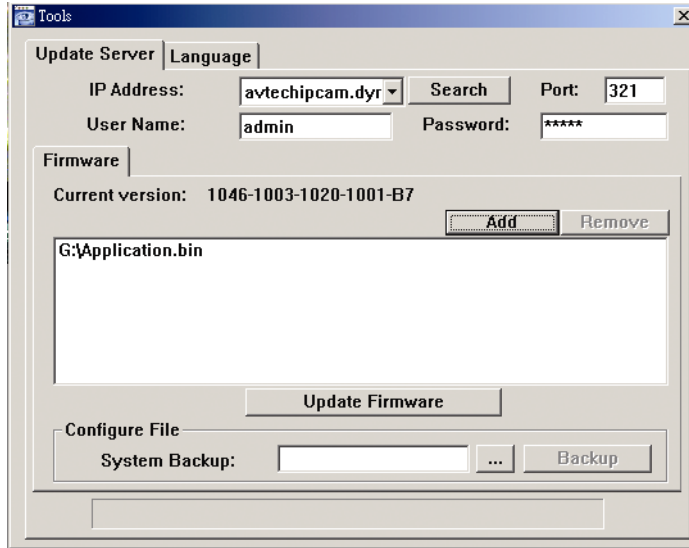
4.4 Tools


Click “” → “” to go into the “Tools” page.

Update Server

In this page, you can upgrade the firmware of your network camera.

Note: You need to be a supervisor to operate this function. For details, please see "Account" at page 18.



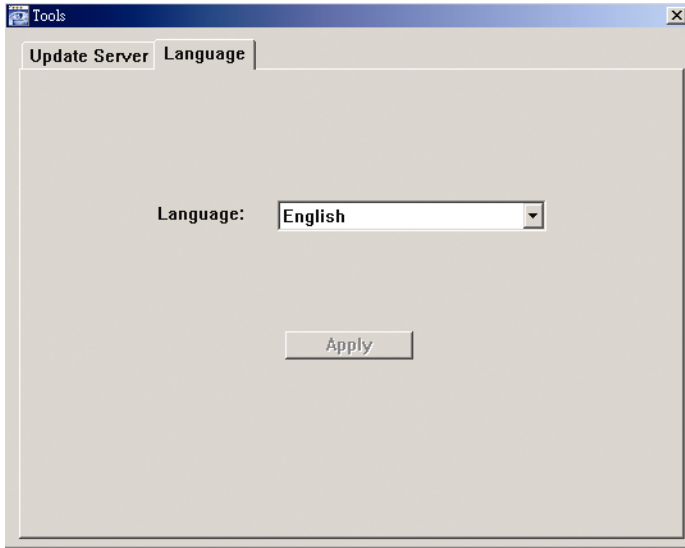
Function	Description
Update Server	Select the IP address of the network camera. Make sure the network settings of the selected network camera are correct.
Current Version	In the "Firmware" section, you will see the current firmware version. For example, 1046-1003-1020-1001-B7
Add	To upgrade the firmware version of your network camera, click "Add" to locate and select the firmware files.
Update Firmware	To start upgrading the firmware of the camera, click "Update Firmware" to start the upgrade process. After upgraded, you will see a message shown on the screen: "Update Firmware Succeeded! Don't plug off power, the machine will reboot automatically!"  Wait till the camera reboots, and you can start to use the camera.
System Backup	If you want to backup your system before upgrading the firmware version, in the "Configure File" section, click "..." to specify the location for saving system backup, and click "Backup" to start the backup process.

Note: The network setting of the camera might restore to default values after upgrade. If this is true, please set the network information again.


Language

This software is available in English / Chinese / French / German / Portuguese / Spanish / Japanese.

Select a language from the drop-down list, and press "Apply". You will be prompted to restart the application for this change to take effect.

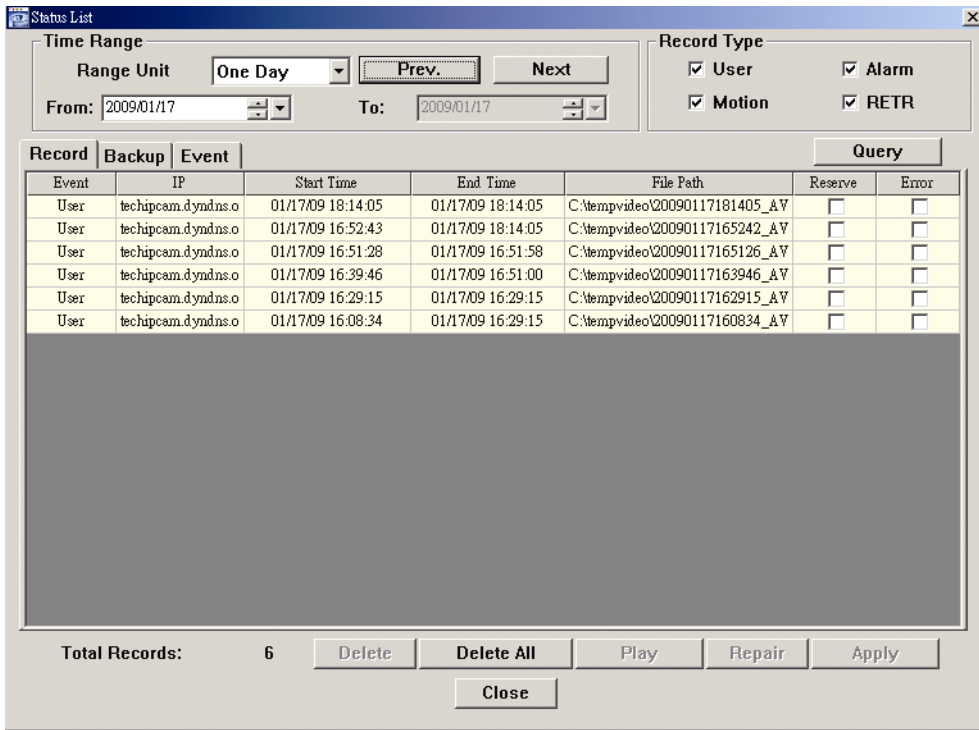


4.5 Status List

Click  to view all the event and record logs, or search for the specific log(s) by date or by record type.

There are three types of logs: Record, Backup and Event. To playback the recorded data for a specific record or backup log, select the log, and double-click to start the video playback.

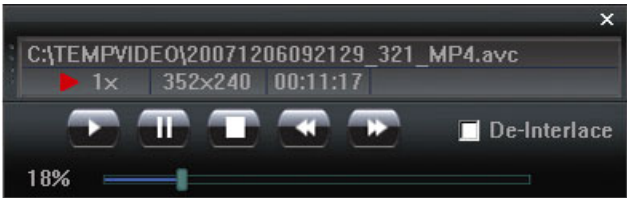
For detailed playback operation, please refer to “Playback Screen” at page 30.








Function	Description
Time Range	To find the specific logs, set the time range (From / To), and the range unit here.
Record Type	Select the record type you want to search (User / Alarm / Motion / RETR).
Query	Click to start sorting the logs specified.
Delete / Delete All	Click “Delete” to remove the selected log(s), or click “Delete All” to clear the current log list. Tip: To select more logs all at once, press and hold the “Ctrl” key on your keyboard, and click to select the logs you want to remove.
Play	Click to play the selected record log. The playback panel will be shown for your further operation.
Repair	Click to fix the log with errors.
Close	Click “Close” to quit this window.

Playback Screen

When you select and play the recorded data for a specific log, you will immediately go into the playback mode, and the following playback panel appears.



Function	Description
Playback / Download Info Display	This area shows the detailed playback / download information, such as the file name, record date and time, and the speed, etc.
Playback Progress Bar	This area shows the playback progress and the progress percentage.
Playback Operation	<p>This area is enabled only when the playback is started.</p> <p>  (Rewind) /  (Forward) /  (Stop) /  (Pause) /  (Play) </p> <p>Rewind / Forward Click once to get 2X fast rewind / forward, twice to get 4X, three times to get 8X, and four times to get 16X the highest.</p>
De-Interlace	Click to reduce the vibration of the paused picture.

APPENDIX 1 NETWORK SETTING

A1.1 Connecting via LAN

Build a local area network by connecting the network camera and PC or laptop with a RJ45 cable.

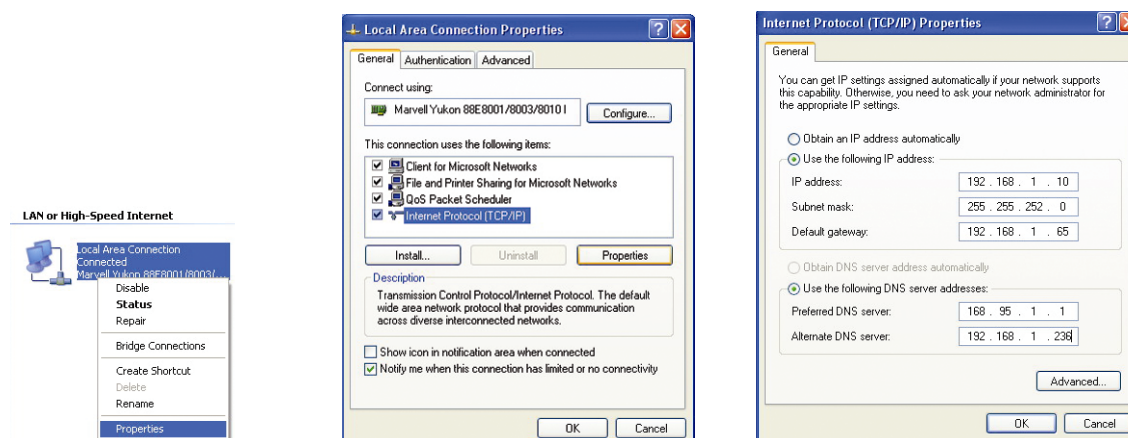
Step1: Connect your PC / notebook to your camera with a RJ45 cable.

Step2: From your PC, click “Start” → “Control Panel” → “Network Connection”.

Step3: Right-click “LAN or High-Speed Internet”, and select “Properties” (Figure 1).

Step4: In “General”, select “Internet Protocol (TCP/IP)” → “Properties” (Figure 2) to set the IP address of your PC / notebook as 192.168.1.XX (1~255 except 10) (Figure 3).



Step5: Click “OK” to apply.



<Figure 1>

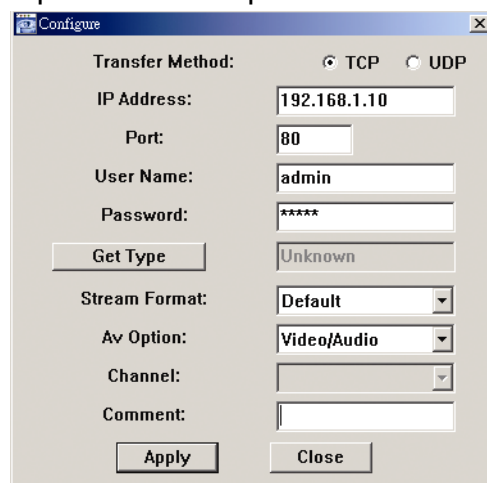
<Figure 2>


<Figure 3>

Step6: Double click  on the desktop to enter the “Video Viewer” screen. The interface of IP address book will be shown. Click the “Search” button  to search for the available IP addresses. After a while, the searched items will be listed.

Step7: Double click the target IP address, and a dialog box will be shown as follows.

Input the default password: admin (The same as the “User Name”), and set the “Stream Format”. Then click “Apply”.



Step8: Now this IP address will be added into the address book. Double click it to access the camera, and click  to open the “Miscellaneous Control” panel.

Step9: Click  → “Network”, and you will see 3 network types: Static IP / PPPOE / DHCP.

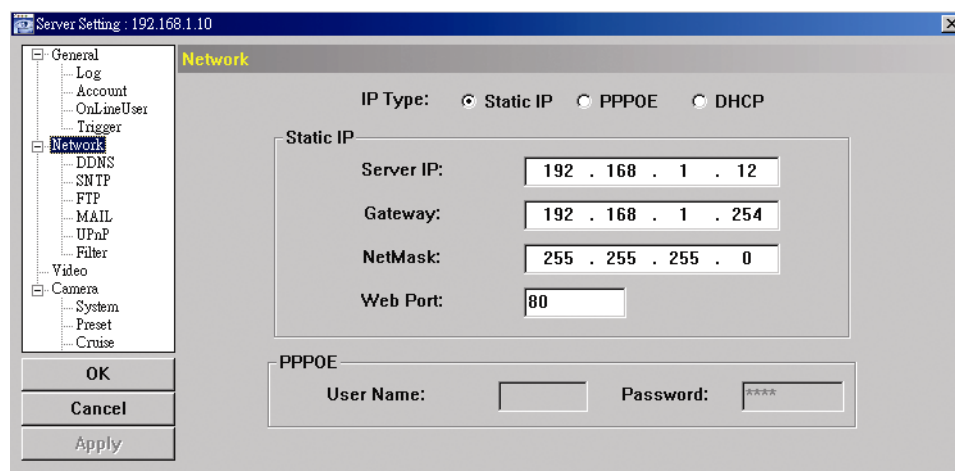
If you have a static IP address obtained from the local ISP, you can set the “IP Type” as “Static IP”. Otherwise, apply for a DDNS account to appoint a fixed domain name for the dynamic IP address, and then set the “IP Type” as PPPOE or DHCP.

A1.2 Static IP

Step1: Set the “IP Type” as “Static IP”.

Step2: Enter "Server IP", "Gateway", "Net Mask" and "Web Port" (1~9999) information obtained from your ISP. Then, click "Apply" to confirm.

Note: Please make sure you have applied for a static public IP address from the local ISP before using this function.



Step3: Connect your network camera to the Internet via a network device (hub or switch). Your camera will log into the Internet automatically via the IP address you just entered, and you can use this IP address to visit your camera remotely.

A1.3 DDNS Account

For PPPOE or DHCP, you can key in the domain name which points to the IP address of your network camera for login. However, you need to apply for a DDNS account first.

Step1: Go to <http://www.dyndns.com> and sign up a DDNS account.

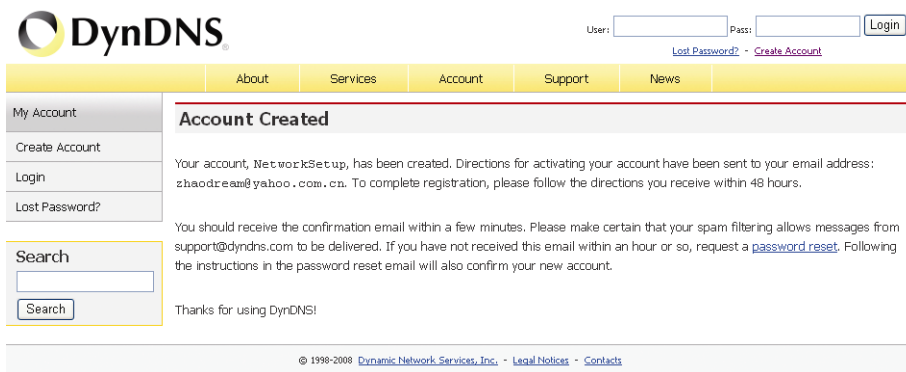


Step2: Enter all the information necessary for signing up an account according to the website instructions.

- Key in a user name for login. This name is not the same as the domain name.
- Key in your E-mail address and input it again to confirm.
- Set the password and input it again to confirm.

Then, click "Create Account".

Step3: You will see the screen "Account Created", and Dyndns site will email the instructions to your specified E-mail address. Please read this email within 48 hours and complete the procedure to activate your account according to the instructions in the email.



DynDNS User: Pass:
[Lost Password?](#) - [Create Account](#)

Account Created

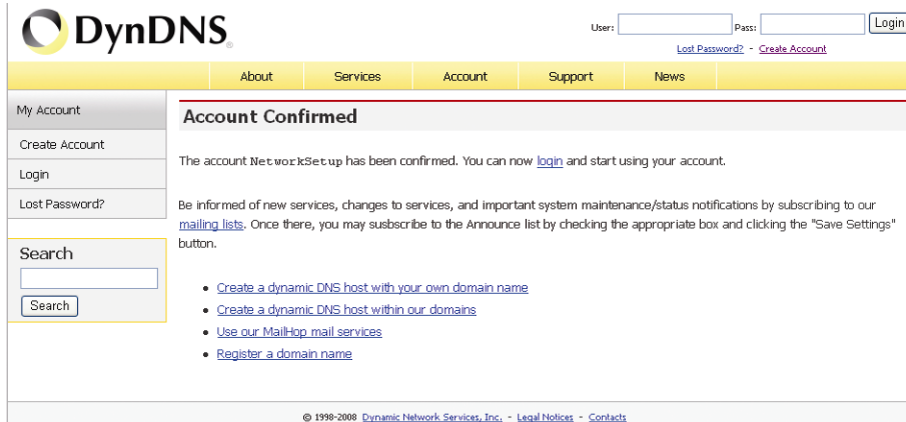
Your account, NetworkSetup, has been created. Directions for activating your account have been sent to your email address: zhaodream@yahoo.com.cn. To complete registration, please follow the directions you receive within 48 hours.

You should receive the confirmation email within a few minutes. Please make certain that your spam filtering allows messages from support@dyndns.com to be delivered. If you have not received this email within an hour or so, request a [password reset](#). Following the instructions in the password reset email will also confirm your new account.

Thanks for using DynDNS!

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Step4: Go to the hyperlink in the email, and you will see “Account Confirmed”. Your account is created successfully now. Input the user name and password you preset before to log in.



DynDNS User: Pass:
[Lost Password?](#) - [Create Account](#)

Account Confirmed

The account NetworkSetup has been confirmed. You can now [login](#) and start using your account.

Be informed of new services, changes to services, and important system maintenance/status notifications by subscribing to our [mailing lists](#). Once there, you may subscribe to the Announce list by checking the appropriate box and clicking the “Save Settings” button.

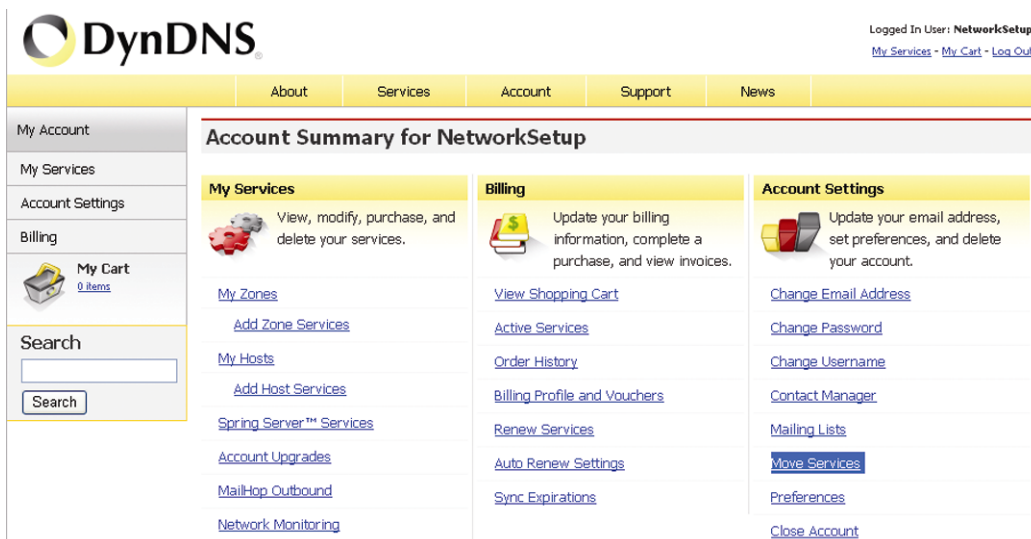
- [Create a dynamic DNS host with your own domain name](#)
- [Create a dynamic DNS host within our domains](#)
- [Use our MailHop mail services](#)
- [Register a domain name](#)

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Step5: Click “Add Host Services”.

- Input a meaningful host name.
- Choose a domain name.

Then, click “Create Host”. You have completed the DDNS application now.



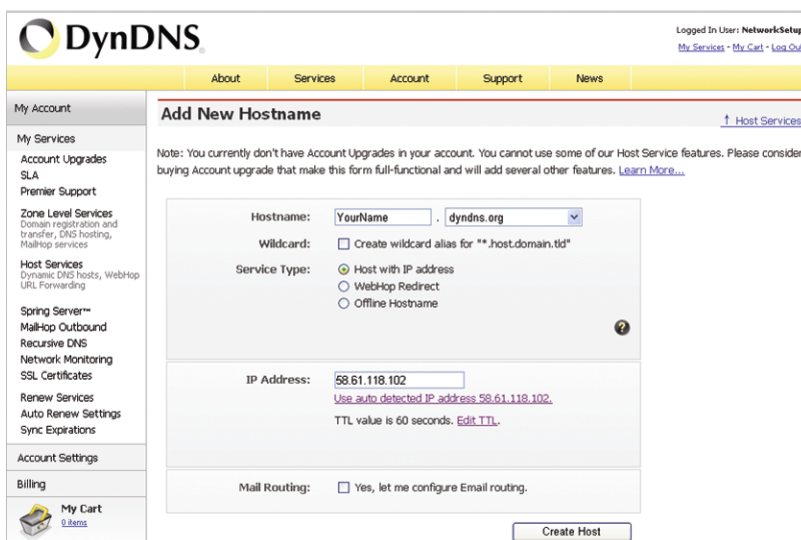
DynDNS Logged In User: NetworkSetup
[My Services](#) - [My Cart](#) - [Log Out](#)

Account Summary for NetworkSetup

My Services
 View, modify, purchase, and delete your services.
[My Zones](#)
[Add Zone Services](#)
[My Hosts](#)
[Add Host Services](#)
[Spring Server™ Services](#)
[Account Upgrades](#)
[MailHop Outbound](#)
[Network Monitoring](#)

Billing
 Update your billing information, complete a purchase, and view invoices.
[View Shopping Cart](#)
[Active Services](#)
[Order History](#)
[Billing Profile and Vouchers](#)
[Renew Services](#)
[Auto Renew Settings](#)
[Sync Expirations](#)

Account Settings
 Update your email address, set preferences, and delete your account.
[Change Email Address](#)
[Change Password](#)
[Change Username](#)
[Contact Manager](#)
[Mailing Lists](#)
[Move Services](#)
[Preferences](#)
[Close Account](#)



DynDNS Logged In User: NetworkSetup
[My Services](#) - [My Cart](#) - [Log Out](#)

Add New Hostname [↑ Host Services](#)

Note: You currently don't have Account Upgrades in your account. You cannot use some of our Host Service features. Please consider buying Account upgrade that make this form full-functional and will add several other features. [Learn More...](#)

Hostname: .

Wildcard: Create wildcard alias for *.host.domain.tld

Service Type:
 Host with IP address
 WebHop Redirect
 Offline Hostname

IP Address:
 Use auto detected IP address 58.61.118.102.
 TTL value is 60 seconds. [Edit TTL](#).

Mail Routing: Yes, let me configure Email routing.

A1.4 PPPOE

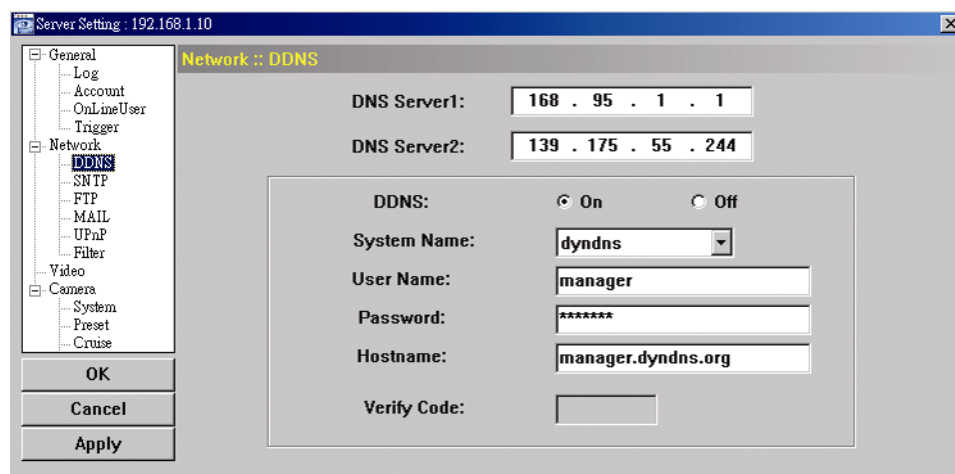
Step1: After you finish applying and setting DDNS, set “IP Type” as “PPPOE”, and key in the user name and password from your ISP. Click “Apply” to confirm.

Step2: Connect your network camera to ADSL modem, and your camera will be connected to the Internet with PPPOE

setting and enable the DDNS function.

Step3: Select “Network” → “DDNS” for further setup, and click “Apply” to complete the setting.

Function	Description
DDNS	Choose “On”.
User Name	Key in your DDNS account.
Password	Key in your DDNS password.
Domain	Key in the domain name your just created on www.dyndns.com (E.g.: hostname.dyndns.org)
System Name	Choose the DDNS server where you created domain name.



Note: You may need wait for 20~30 minutes for enabling DDNS connection depending on the process time of the DDNS website.

Step4: When the DDNS connection is enabled, you can use the domain name to connect to your camera.

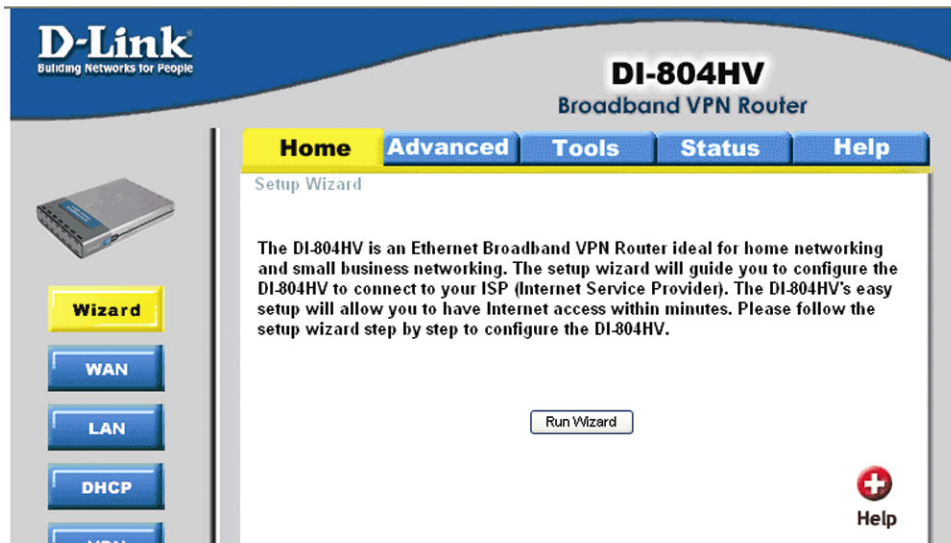
Open the video viewer, and key in the domain name, default user name and password to access the camera remotely.



A1.5 DHCP

Get a router and connect it to the Internet via your PC or laptop (with Static IP or PPPOE setting). There are different setting methods for different routers. Now take D-Link DI-707P for example.

Step1: Log into the router, <http://192.168.0.1>. The default user name and password are both “admin”.



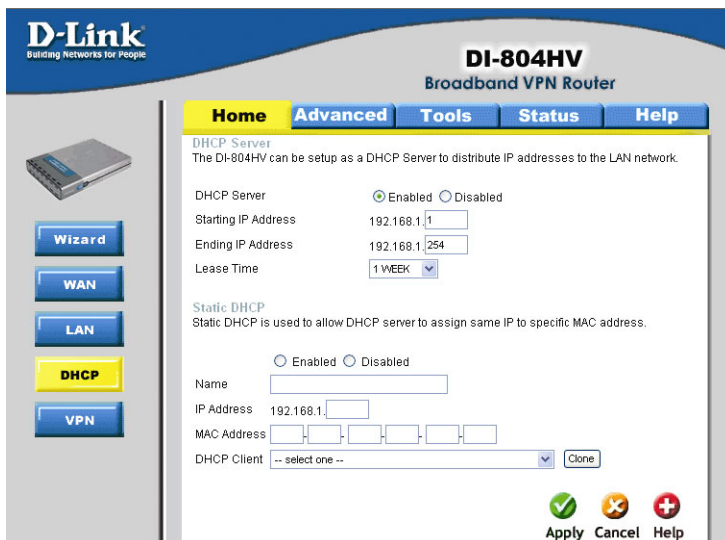
Step2: Click “WAN” to go to “WAN” page for the network setting.

- Select PPPOE and key in the user name / password.



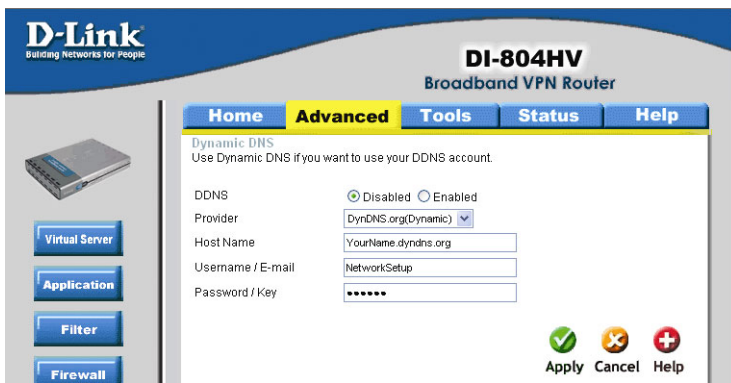
Step3: Click “DHCP” to go to “DHCP” page to enable DHCP.

- Enable DHCP and set the IP address range and the lease time.
- Click “Apply”.



Step4: Click “WAN” again to go to “WAN” page, and select “Advanced” → “DDNS”.

- Set DDNS as “Enabled”.
- Set “Provider” as “DynDNS” from the drop-down menu.
- Key in the “Host Name”, “User Name” and “Password”.
- Click “Apply” to save the setting.

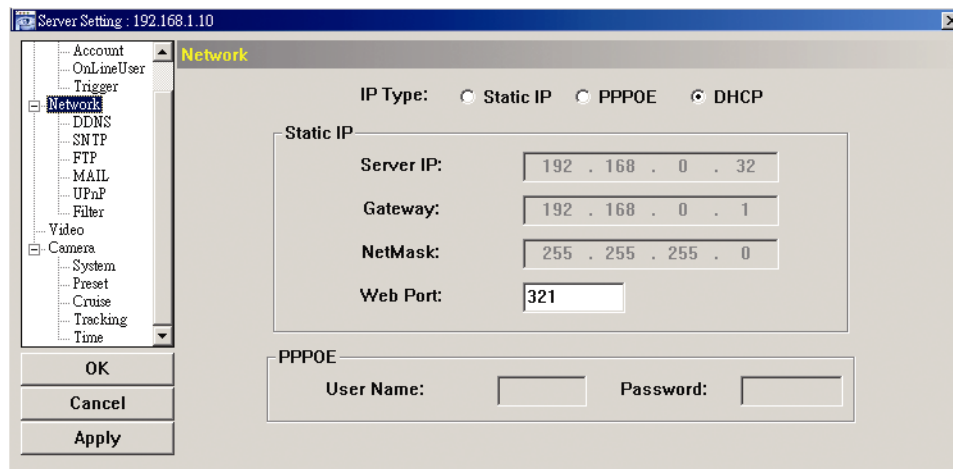


Step5: Go to “Network”. Set “IP Type” as DHCP, and set the port number from 1 to 9999 (except 80) so that the router can send the packets to the specified IP address.

Click “Apply” to confirm.

Step6: Connect your network camera to your router, and your camera will automatically detect DHCP and get an IP address.

Then, open “Video Viewer”, and Click “” → “” → “Network” to go into the “Network” page.



Step7: Go to the WAN page of the router via your PC or laptop, and select “Advanced” tag to change the port number of the IP address into the same number you just entered in the video viewer.

The port number for “Private Port” and “Public Port” must be the same.

Step8: Click “Apply”, and you will see one item is added into the setting list.

Step9: Open the Video Viewer, and enter the domain name, user name / password (admin / admin by default), and the new port number.

You can start the remote surveillance now.

APPENDIX 2 REMOTE OPERATION VIA WEB BROWSER AND QUICKTIME PLAYER

Users can also access the network camera via Internet Explorer / Mozilla Firefox and QuickTime player.

A2.1 Internet Explorer / Mozilla Firefox

Note: The supported PC operation systems are Windows Vista / XP / 2000, and Apple Mac.



Step 1: Key in the IP address used by your network camera in the URL address box, such as 60.121.46.236, and press “Enter”. You will be prompted to enter the user name and password to access the camera.

If the port number your camera used is NOT 80, you need to key in the port number additionally. The format is **http://ipaddress:portnum**. For example, for the IP address 60.121.46.236 and port No. 888, please key in “http://60.121.46.236:888” into the URL address box, and press “Enter”.

Step 2: Enter the user name and password, the same as the ones used for Video Viewer login, and click “OK”. You will see a similar screen as the following when the login information is correct.



Icon	Function	Description
	Home	Click to return to the image display page when you're in the configuration page.
	Configuration	Click to go to the detailed camera setting. For details, please refer to “4. VIDEO VIEWER MISCELLANEOUS CONTROL PANEL” at page 15.
	Turbo off / on	Speed up the menu selection from 1 to 10. Ex: If the value of the turbo step is set to 5, one mouse-click will function as 5 mouse-clicks when you click the arrow keys. <i>Note: To use this function, you need to set it in the camera setting page first.</i>
	Arrow keys	Click one of them to move the camera to the direction you want..
	Goto Preset	Click the preset point from 1 to 16 to move the camera to the specific location you defined in the camera preset page. You can define up to 16 preset points for this network camera. Or, you can select from the “Goto Preset” drop-down list if you want to choose by the preset point name you defined in the camera preset page.
	Focus	Click to adjust the focus of the network camera.
	Zoom	Click to adjust the zoom radio of the network camera.
	Max Zoom	Click to zoom in / zoom out the network camera to the maximum radio.
	Auto Mode	Click to activate the auto mode of the network camera.
	Auto Tracking	Click to activate the auto tracking of the network camera.
	Auto Move off / on	Click to enable the auto move function. It allows the camera to move to the direction where your cursor stays.
	Snapshot	Click to take a snapshot for the current view, and open another browser window to display the captured image.

Icon	Function	Description
	Flip off / on	Click to turn the live image up side down.
N/A	Web Transmission	MPEG4 / M-JPEG / QuickTime QuickTime is Apple Inc.'s multimedia software. You need to have QuickTime installed in you operation system first. When "QuickTime" is selected, you will be promoted to enter the user name and password to access the server of the camera.
N/A	Change Quality	BEST / HIGH / NORMAL / BASIC Click to change the image quality.
N/A	Change Resolution	4 CIF / CIF Click to change the image resolution (4CIF: 704*480 / CIF: 352*240)
	Audio off / on	Click to turn on the audio transmission function when the camera is connected to an audio source, such as a microphone.

A2.2 QuickTime Player

Note: QuickTime is Apple's multimedia software. You need to have QuickTime installed in you operation system first, and you can access the network camera to see the live view.

If you have installed QuickTime, please skip Step 1.

Note: The latest version of QuickTime is V6.4 at the time this manual goes to press, and the supported operation systems are Windows Vista / XP / 2000, and Apple Mac.

Step 1: Go to Apple's official website to download QuickTime. The website address is as follows:

<http://www.apple.com/quicktime/win.html>

- Click "Free Download" to go into the download page, and select to download the free player.
- Leave your Email address, and click "Free Download Now" to download the latest QuickTime version.
- When the download is completed, execute the "QuickTimeInstaller.exe" file, and follow the on-screen instructions to finish the installation procedure.

Step 2: Open your QuickTime player. Select "File" → "Open URL in New Player...", and key in the URL address.

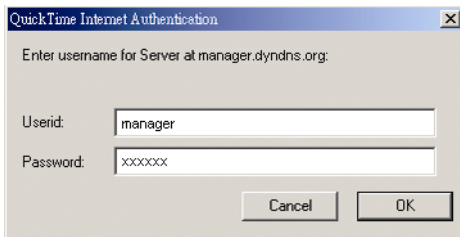


The URL format is **rtsp://ipaddress:portnumber/live/mpeg4**. If the port number is 80, users don't need to key in the port number. For example, **rtsp://192.168.1.10/live/mpeg4**.



Step 3: A pop-up window will appear and prompt you to enter the authentication information. Key in the user name and password for accessing your camera. The user name and password are the same as the ones you use to log into the AP.

If the information is correct, press "OK" to go on. If not, press "Cancel" to quit the accessing.



Step 4: When the login is successful, you will see a similar screen as the following.

