

AVI321 / 311

Network Cameras

User's Manual

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

The image shown above may differ from the actual product appearance.

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.

Graphic Symbol Explanation

	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.

MPEG4 Licensing

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Version

Firmware: 1024-1001-1011-1001-B2
Video Viewer AP Software: 0050

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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 or 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 (AVI321 only)
- 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 MPEG-4 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

- AVI321

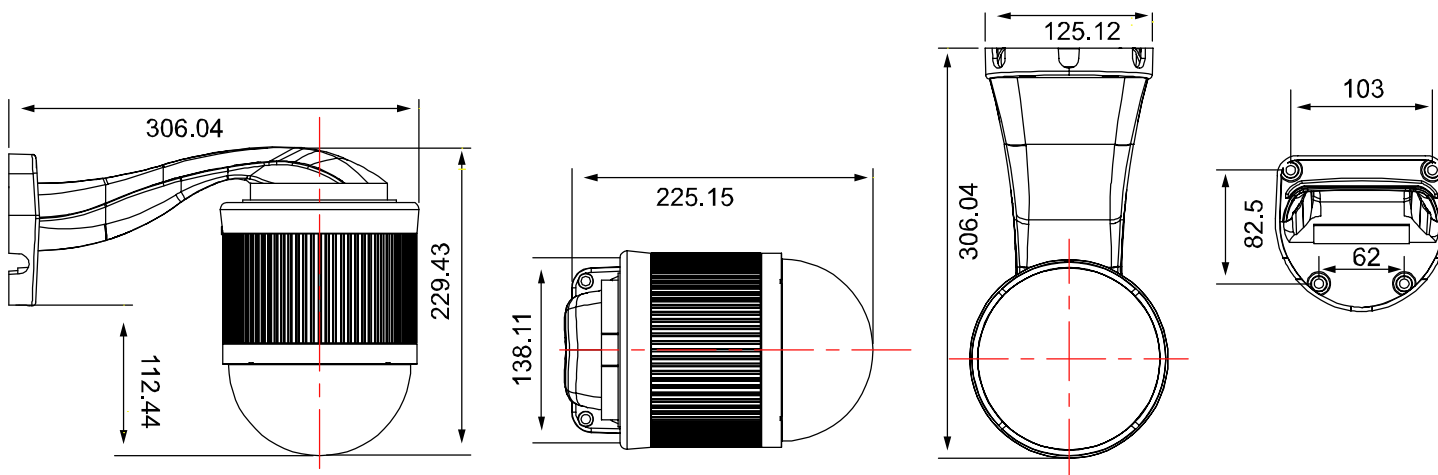
☉ In the camera package:	☉ In the bracket package (Optional) :
<input type="checkbox"/> 22X PTZ network camera	<input type="checkbox"/> Bracket
<input type="checkbox"/> CD-ROM disc for user manual	<input type="checkbox"/> Wall mounting screw * 4 
<input type="checkbox"/> CD-ROM disc for Video Viewer AP Software	<input type="checkbox"/> Wall plug * 4 
	<input type="checkbox"/> Cap * 1 
	<input type="checkbox"/> M6 Nylok screw * 6 
	<input type="checkbox"/> Spirit level * 1 
	<input type="checkbox"/> M4 screw * 1 

- AVI311

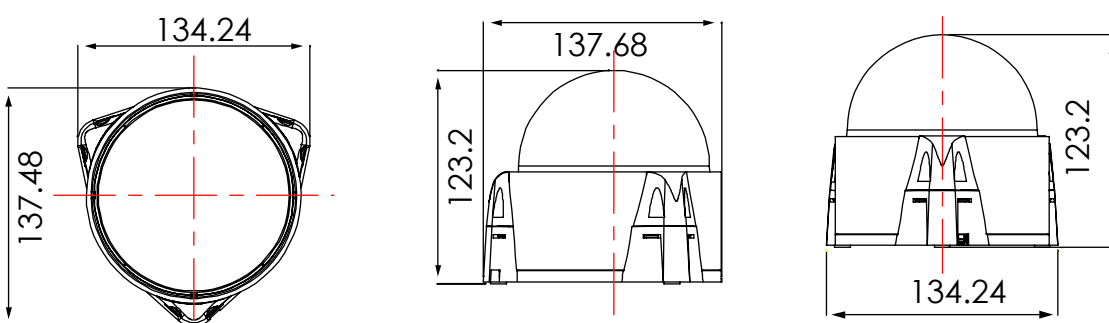
<input type="checkbox"/> 3X PTZ network camera	<input type="checkbox"/> Screw * 3 
<input type="checkbox"/> CD-ROM disc for user manual	<input type="checkbox"/> Wall Plug * 3 
<input type="checkbox"/> CD-ROM disc for Video Viewer AP Software	<input type="checkbox"/> Decoration Cover * 3 

Note: The DC12V 1A adapter, power cord and RJ45 network cable are not included with the sales package. Please prepare by yourself.

• **Dimensions of AVI321:**



• **Dimensions of AVI311:**



1.4 Specifications

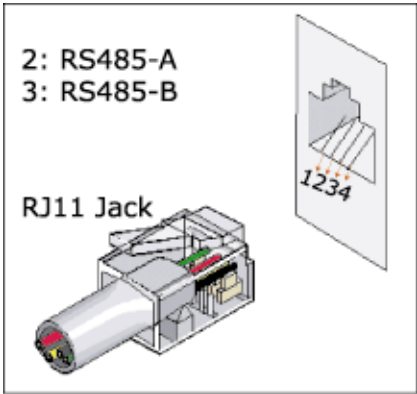
SPECIFICATIONS*	AVI321	AVI311
■ Network		
LAN Port	YES	
LAN Speed	10/100 Based-T Ethernet	
Supported Protocols	DDNS, PPPoE, DHCP, NTP, SNTP, TCP/IP, ICMP, SMTP, FTP, HTTP, RTP, RTSP	
Frame Rate	NTSC:30, PAL:25	
Number of Online Users	10	
Security	Multiple user access levels with password	
Web management 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	480 TVL	
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. CONNECTOR OVERVIEW

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.

3. INSTALLATION

3.1 Install the Hardware (For AVI321)

Before installation, you need the following items before installation:

- Bracket (supplied with the bracket sales package)
- The accessory packages supplied with the bracket sales package, including:
 - (1) Wall mounting screws
 - (2) Wall plugs
 - (3) Cap
 - (4) M6 Nylok screws
 - (5) Spirit level
 - (6) M4 screw
- Power Drill

STEP 1: Attach the camera-mounting base to the PTZ camera.

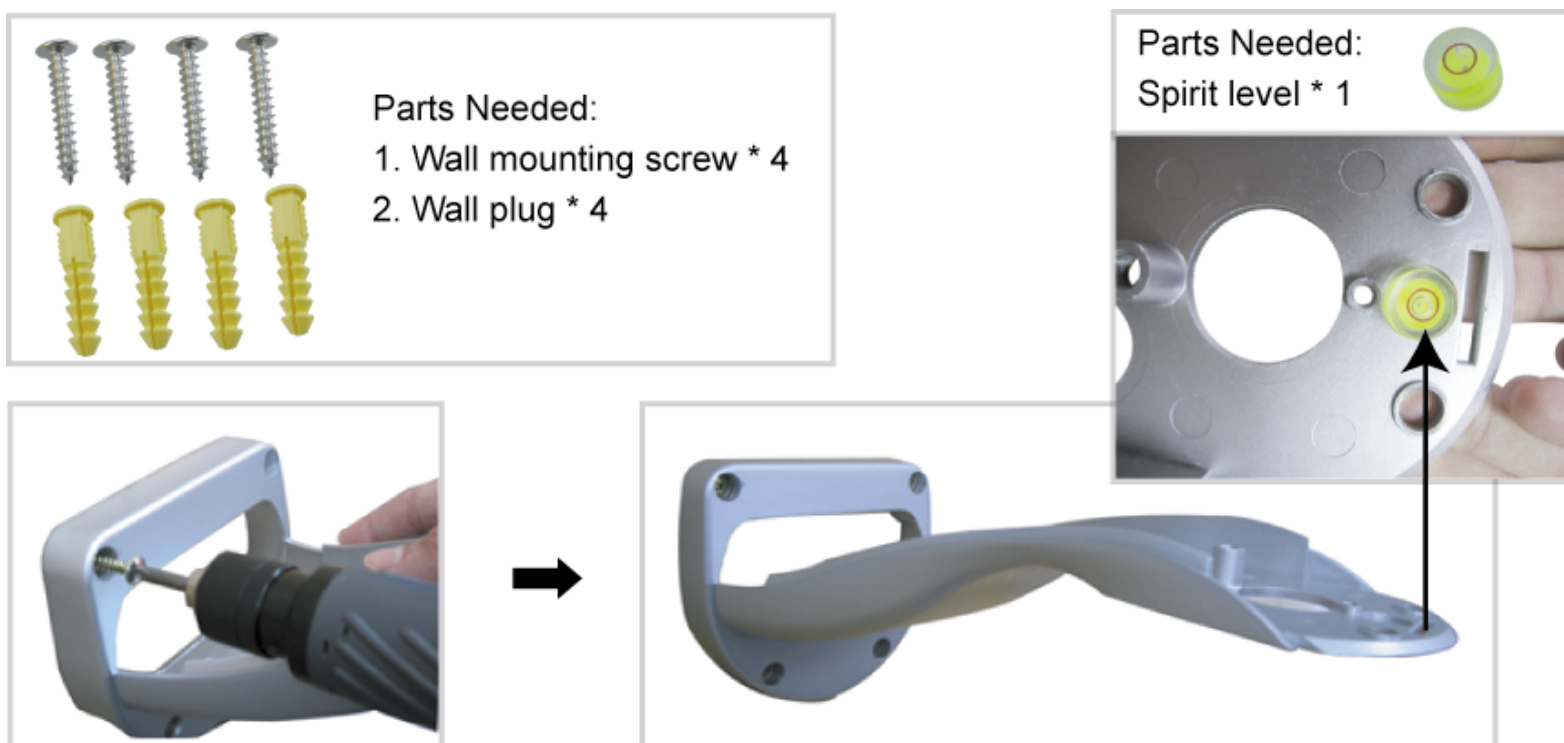
Put the all the camera connectors through the hole of the camera-mounting base. Align the breach of the camera-mounting base to the sticker label on the camera, and use two **M6 Nylok screws** to attach the camera-mounting base to the camera, as shown in the picture below.



STEP 2: Attach the bracket to the wall.

The bracket is composed of two parts: the upper part and the bottom part. Remove the upper part from the bottom part of the bracket. Use the four mounting screws and wall plugs to attach the bottom bracket to the wall, as shown in the picture below.

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 3: Attach the PTZ network camera to the bracket.

Turn the camera up side down, and put the power, video and RS485 data connectors through the hole of the bracket. Then, slightly secure the camera and the bracket with three M6 Nylok screws.



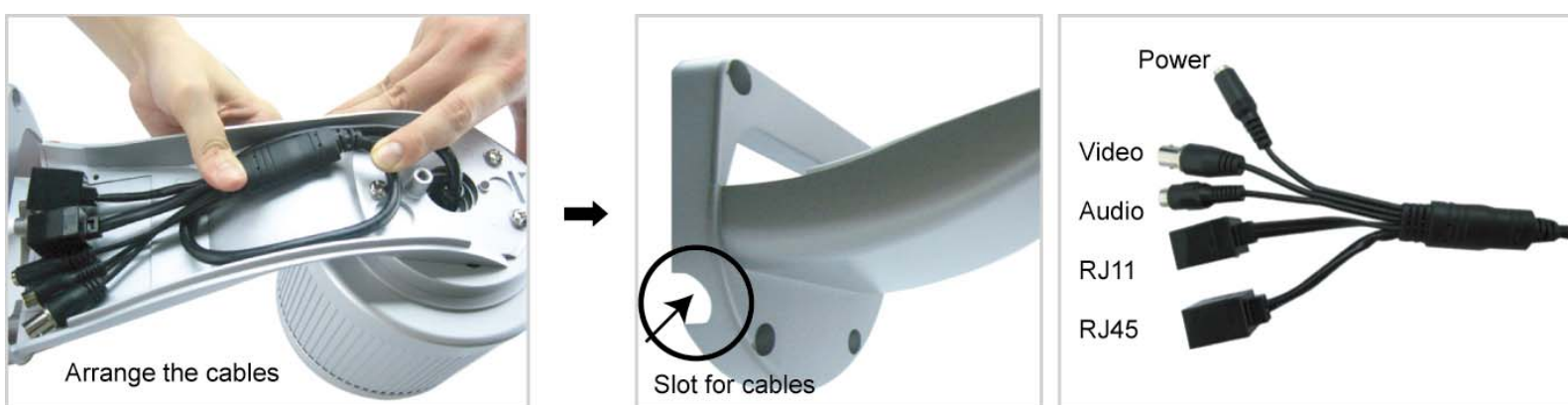
STEP 4: Check the surface is horizontal or not.

Use the **spirit level** to check the surface is horizontal or not, and adjust the tightness of the **M6 Nylok screws**. When you make sure the surface is horizontal, use the **M4 screw** to fix the camera and the bracket tightly.



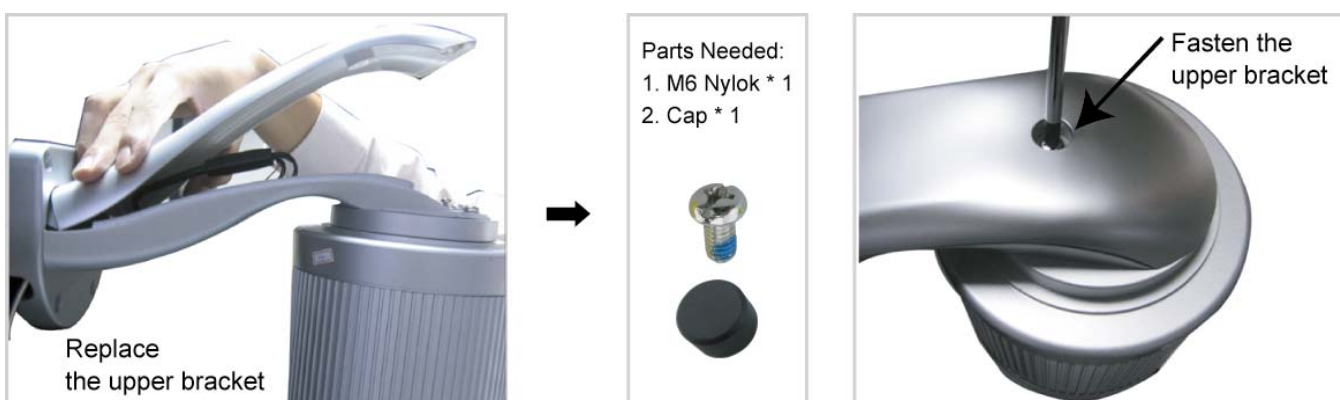
STEP 5: Connect the power, video, audio, RJ11, RJ45 connectors.

Arrange the cables in the proper position. Put the cables through the slot and connect the camera with the indicated power adapter, video cable, audio cable, RJ11 cable and RJ45 cable. After connection, use the insulation tape to cover the connected wires and arrange the cables in the proper position again.



STEP 4: Replace the upper part of the bracket and finish the installation.

Replace the upper part of the bracket and fasten the bracket with a **M6 Nylok screw**. Then use the **cap** supplied with the package to cover it and finish the installation.



3.2 Install the Hardware (For AVI311)

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 5 in “3.1 Install the Hardware (For AVI321)”.








3.3 Assign an IP address and Access the Camera

Step 1. Install the Software

Place the supplied Video Viewer AP software CD into your DVD- / CD-ROM drive. The installation process will automatically start. Follow the on-screen instructions to install the application programs. After installation, a “Video Viewer” shortcut icon will be shown on your PC desktop.

Step 2. Connect the network camera to the Internet access via a RJ-45 network cable.


Step 3. Search the available IP address to login



- a) Double-click  icon on your PC 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.
- b) Click  (Search) →  (Refresh) to search the available IP address(es). The found address(es) will be listed, and can be added into the address book by clicking  (Add into address book).
For details, please see  (Search) at page 11.
- c) Select the IP address you just added into the address book, and click  (Edit) to edit the settings.
- d) Double-click the IP address in the address book to login.

Note: For detailed network settings under different network types (Static IP / PPPOE / DHCP), please refer to “Network” at page 21 and “DDNS” at page 22.

- If you cannot search any available IP address, please follow the instructions below.

Step 4. Add the IP address and other network settings to login

- a) Double-click  icon on your PC 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.
- b) 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
- c) Click  (Address Book) →  (Add) button to key in the IP address, user name, password, and port number of the network camera you intend to connect.





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












- d) Double-click the IP address you just added into the address book to login.

4. VIDEO VIEWER BASIC OPERATION

4.1 The Live View Page

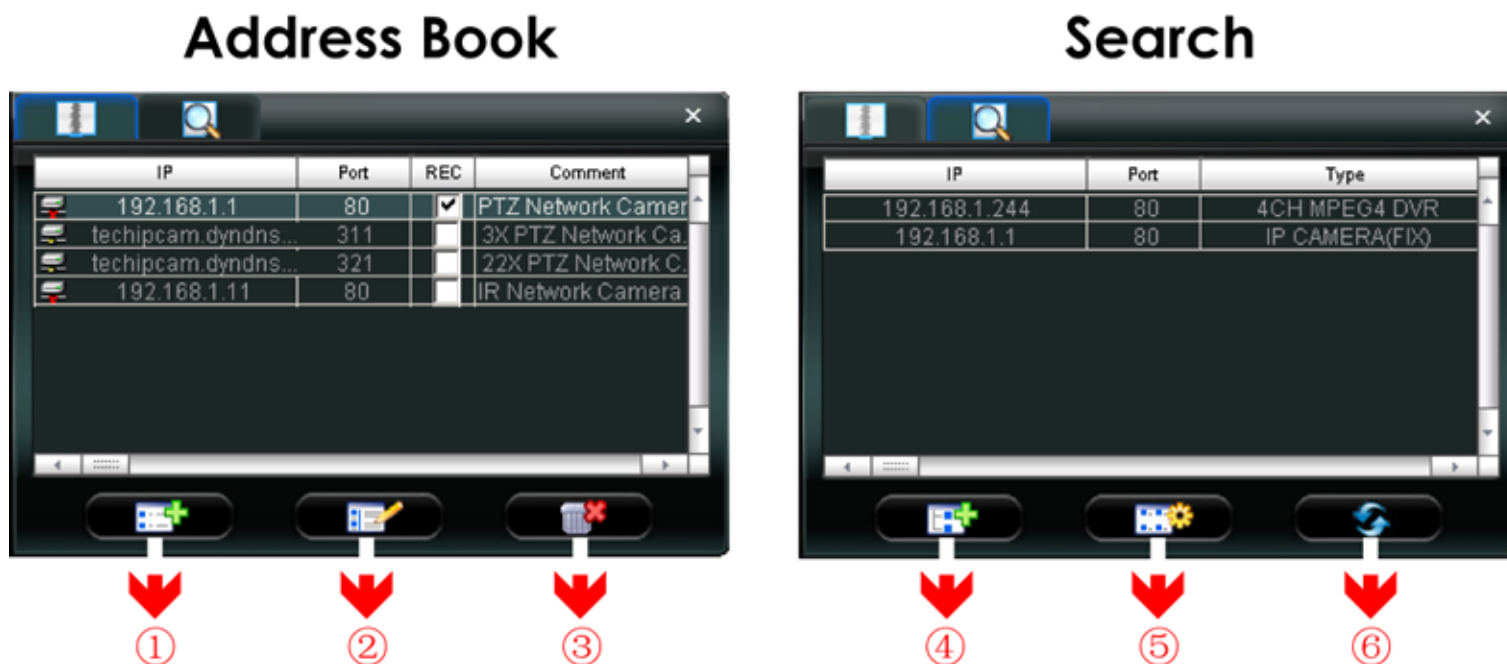
After setting up the network information, login user name and password, double-click  on the PC desktop to open and log into the Video Viewer control panel. You will see a screen similar to the following with 6 major sections:

<ul style="list-style-type: none"> • Connect to only one network camera • 1-cut display  	<ul style="list-style-type: none"> • Connect to multiple network cameras (ex. 4 cameras) • 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 (For example, “321”, “311”, “Play1” and “Digi”). The default camera title is “Camera1”. For detailed camera title setting, please refer to “General” at page 18. The software can control up to 16 network cameras simultaneously.
		Scale	Click to view the images in the full screen, 4-cut, 9-cut and 16-cut mode.
		Full Screen	Click to view the images in the full screen mode. To exit the full screen mode, press “Esc” key on the keyboard of the PC.
		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 “5.3 Record Setting” at page 16.
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.

4.2 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:


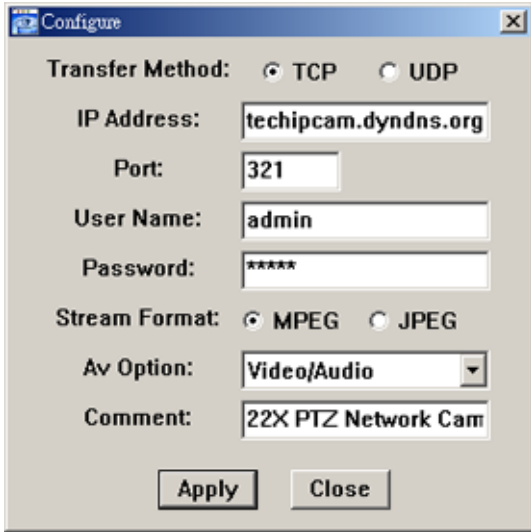




➤  **(Address Book)**

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.

NO.	Button	Function	Description
1		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. 
2		Edit	Select one current IP address from the address list, and click this button to edit the settings.
3		Remove	Select one IP address from the address list, and click this button to delete it.
4	<input checked="" type="checkbox"/>	Record	Check this checkbox to enable the record settings. For details, please refer to the "5.3 Record Setting" at page 16. The default setting is unchecked.



➤ (Search IP Address)

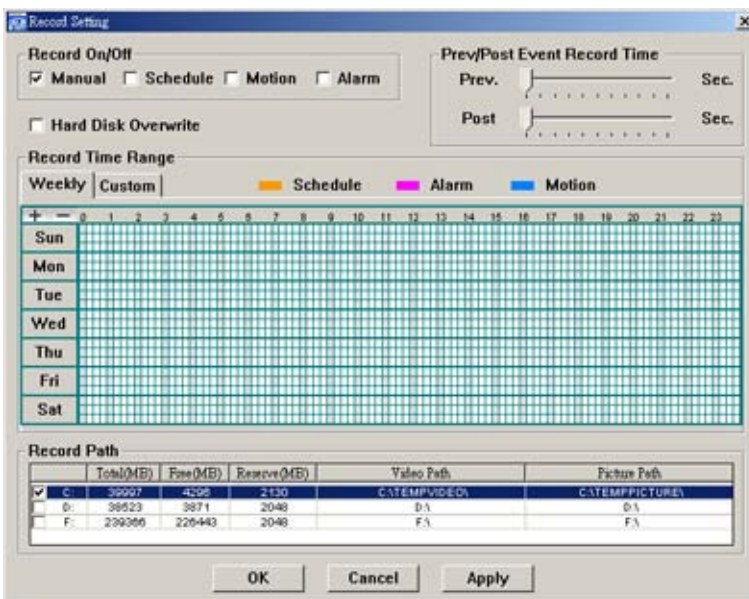
Click to search and view the available IP address(es) for the network connection. You can choose one address to add into the address book, edit the details, or update the address list.

NO.	Button	Function	Description
4		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.
5		Setting	Select from the available IP address list, and click this button to edit the setting.
6		Refresh	Click to update the available IP address list.


4.3 Manual Record

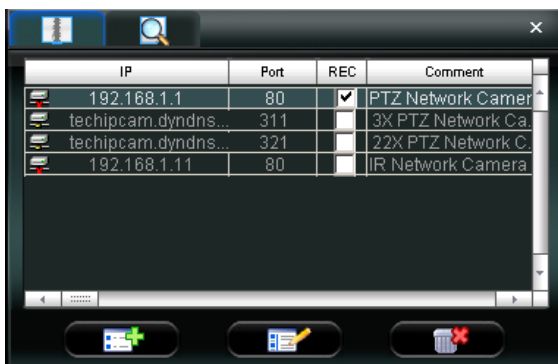
1) Choose the record type and assign the record location

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.




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.





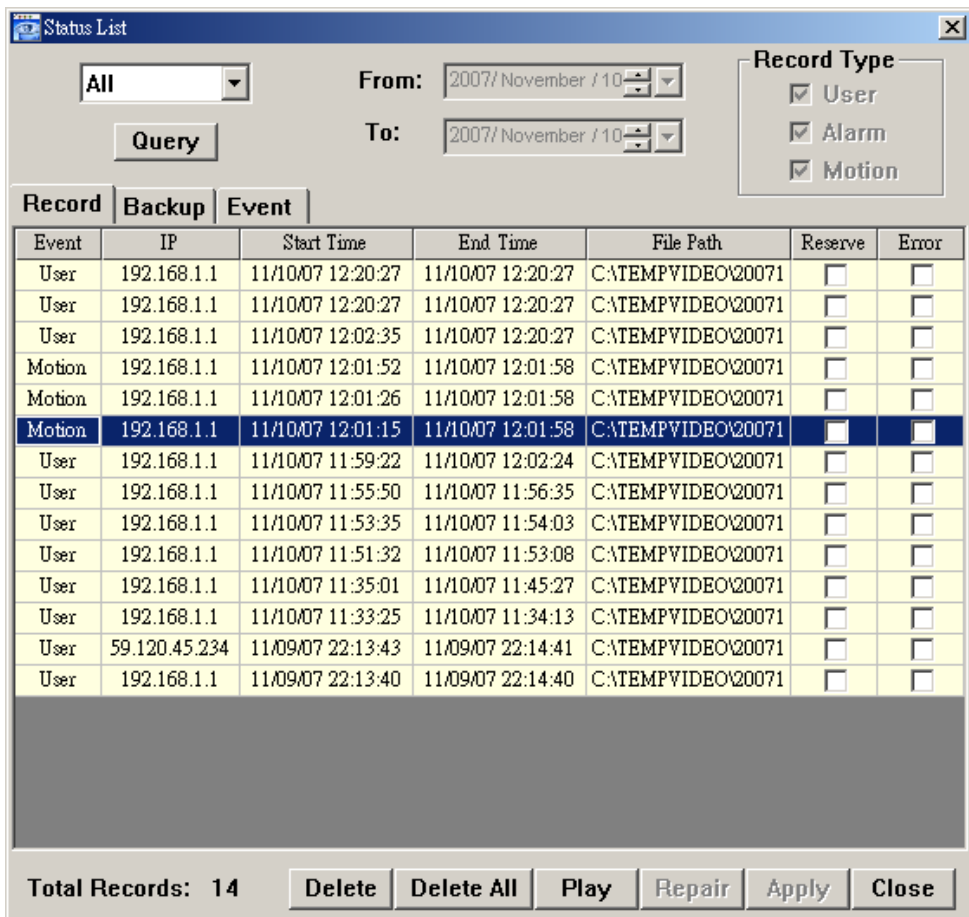
3) Click “” (Record) button to start manual recording

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 “5.3 Record Setting” at page 16, “Trigger” at page 20 and “Detection” at page 32.

4.4 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 “5.6 Status List” at page 34.





To immediately play a recording file, select a log from the list, and click “Play” button, 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 38.



4.5 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.

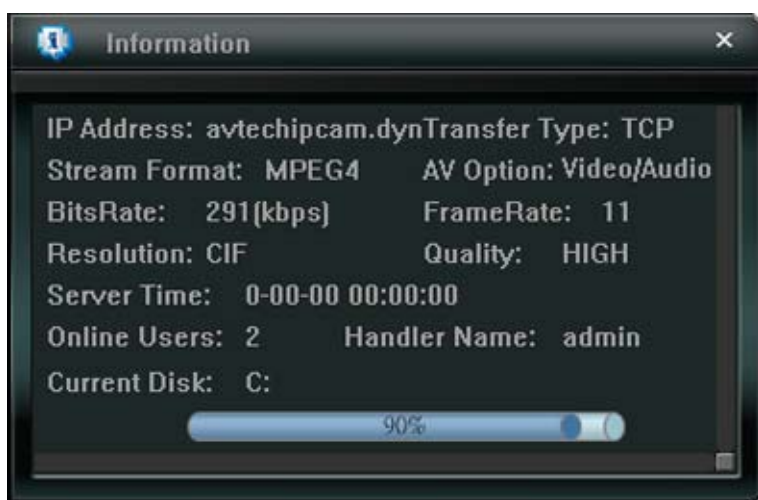
The snapshot will be saved in the path you specified in “” (Record Setting). For snapshot path setting, please refer to “5.3 Record Setting” at page 16.



4.6 Information

Click this button to show the current network connection details:

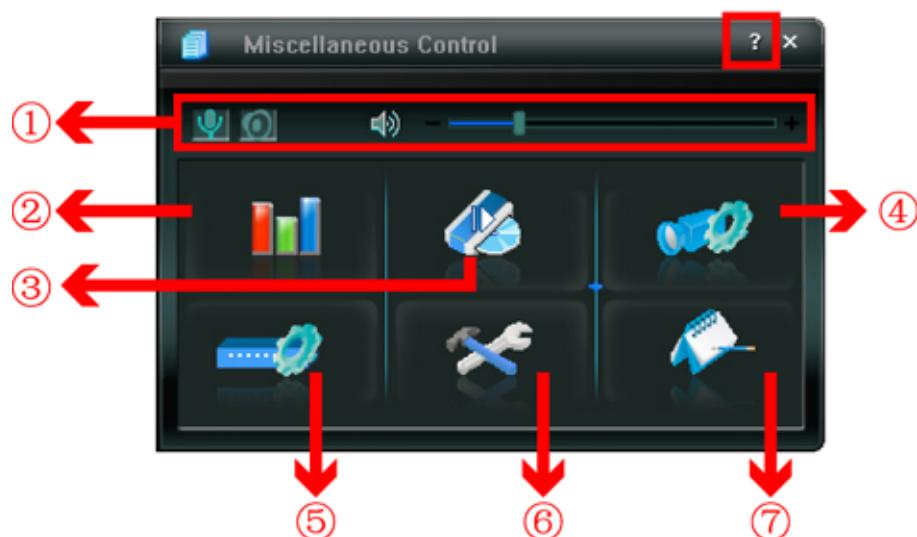
- | | |
|------------------|---------------------------|
| 1) IP Address | 7) Quality |
| 2) Transfer Type | 8) Resolution |
| 3) Stream Format | 9) Server Time |
| 4) AV Option | 10) Online Users |
| 5) Bits Rate | 11) Current Disk Capacity |
| 6) Frame Rate | |












5. VIDEO VIEWER MISCELLANEOUS CONTROL PANEL

Click “” (Miscellaneous Control) on the Video Viewer control panel, and 7 functions are available as follows:



Click the button  to show the software version






Click the button  to show the current version of the video viewer.

NO.	Button	Function	Description
①	 / 	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.
②		Color Setting	Click this button to adjust the brightness / contrast / hue / saturation for the selected network camera. For details, please see “5.1 Color Setting” at page 15.
③		Backup (For DVR only)	The network cameras don't support network backup function. This function is available when the Video Viewer is connected to a DVR. You can log into the connected DVR via this software and remotely backup the video data saved in the DVR. For details, please see “5.2 Backup” at page 15.
④		Record Setting	Click this button to go to the detailed record setting. For details, please refer to “5.3 Record Setting” at page 16 for details.
⑤		Server Setting	Click this button to go into the detailed server setting. For details, please refer to “5.4 Server Setting” at page 16 for details.
⑥		Tools	Click this button to update the firmware version of your network camera. For details, please refer to “5.5 Tools” at page 32 for details.
⑦		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 “5.6 Status List” at page 34 .

5.1 Color Setting



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



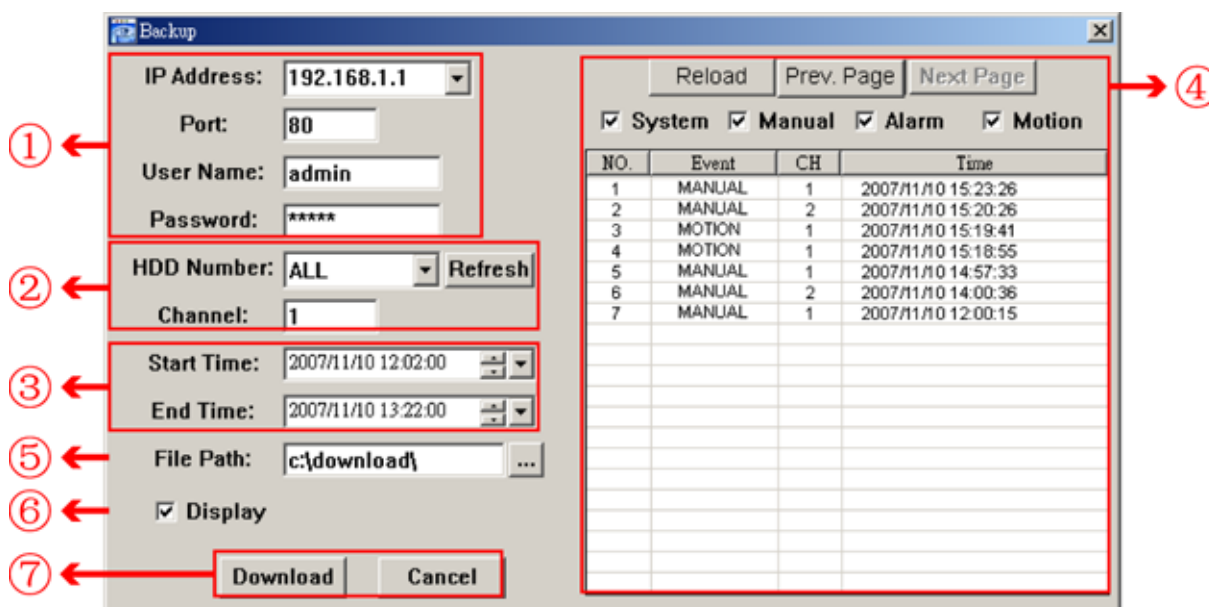
Click  (Set) to apply the change to the selected network camera. Click  (Default) and click  (Set) to return to the default color settings.

Note: You need to be a supervisor to operate this function. For details, please see “Account” at page 19.

5.2 Backup (For DVR only)

The network cameras don't have network backup function. This function is available when the Video Viewer is connected to a DVR. You can log into the connected DVR via this software and remotely backup the video data saved in the DVR. Click  (Miscellaneous Control) →  (Backup) to go into the “Backup” page, and you can select a specific time range or event to make a video backup of the recorded files saved in the DVR.

Note: You need to be a supervisor to operate this function. For details, please see “Account” at page 19.

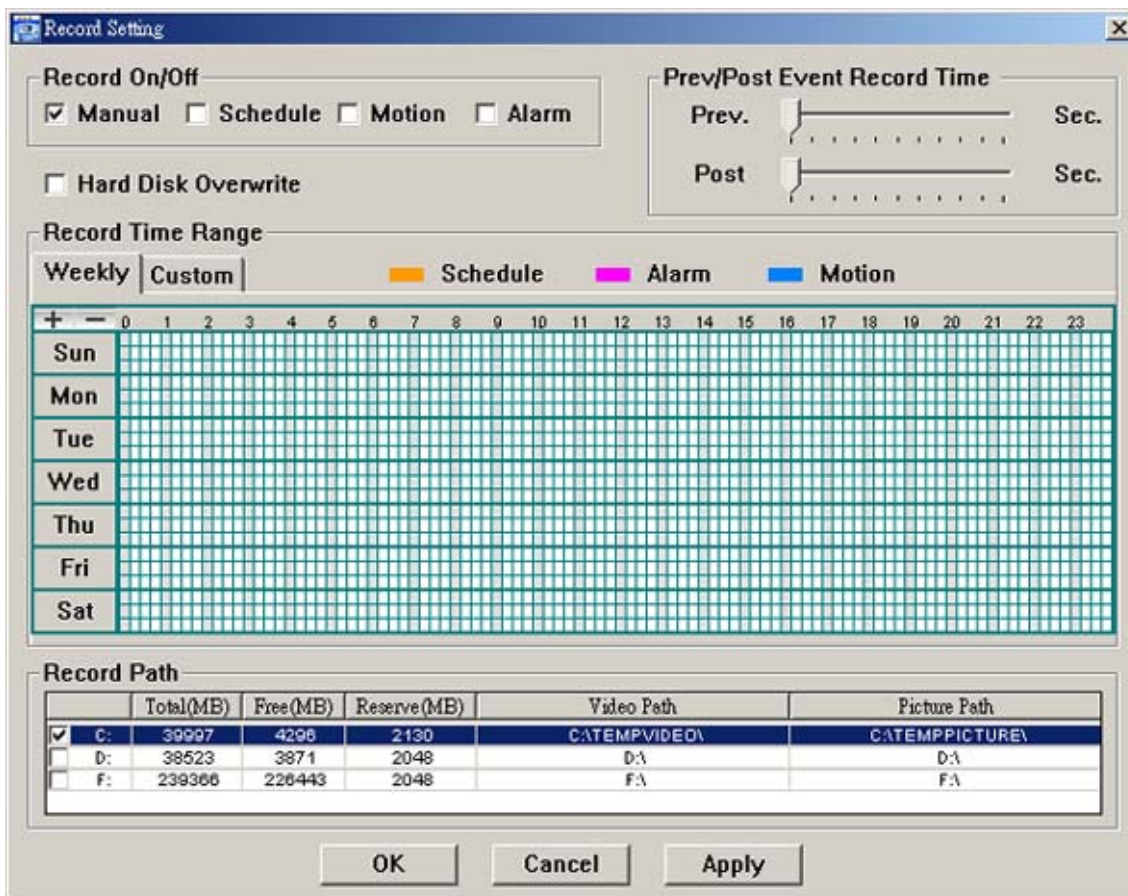


NO.	Function	Description
①	IP Address / Port / User Name / Password	Select the IP address of the desired network camera from the drop-down list and check if the network information is correct.
②	HDD Number / Channel	Specify the hard disk (HDD Number) and channel number (Channel) within which have the video data you need.
③	Filter the recorded video by time	Specify the time range within which has the video data you want in the “Start Time” and “End Time” columns.
④	Filter the recorded video by event	Select an event type from the event list. This list shows all logs in the specified network storage device from the latest to the earliest.

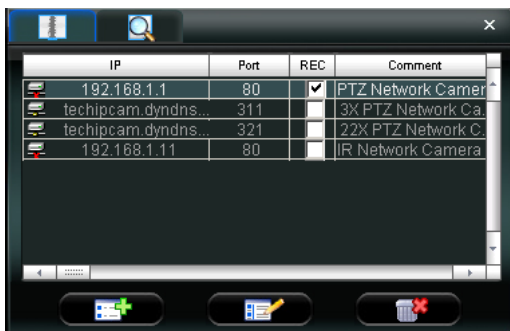
NO.	Function	Description
		<ul style="list-style-type: none"> To quickly find the events you need, check or uncheck the event type "System" / "Manual" / "Alarm" / "Motion", and select the log you want. To view the earlier or later logs that are not shown in the current page, click "Prev. Page" or "Next Page". To refresh the event list, click "Reload".
⑤	File Path	Assign the location where the backup files are saved.
⑥	Display	<p>To view the backup images simultaneously when the download process is in progress, select the checkbox "Display". You will see the backup images while the images are being downloaded to the PC or notebook.</p> <p>To simply backup images without previewing, deselect the checkbox "Display". You will only see a message box indicating the total time needed, the current status and the saving location.</p>
⑦	Download / Cancel	Click "Download" to start or "Cancel" to discard the video backup.

5.3 Record Setting

Click "Miscellaneous Control" → "Record Setting" 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, please checked 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 4 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

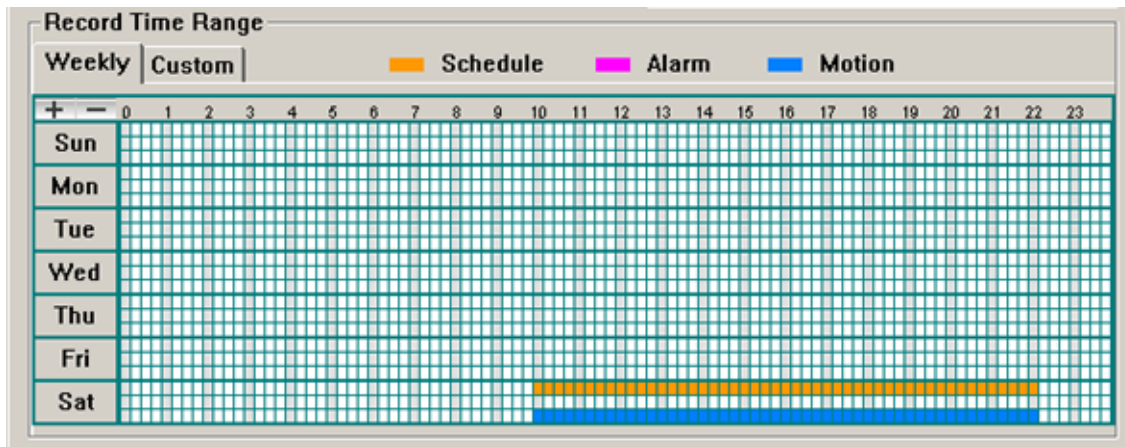
Choose the time box(es) within which you want to enable the recording. The time scale is from 0 ~ 24 hours per day, and there are 3 time lines for each weekday, representing 3 different recording types.

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

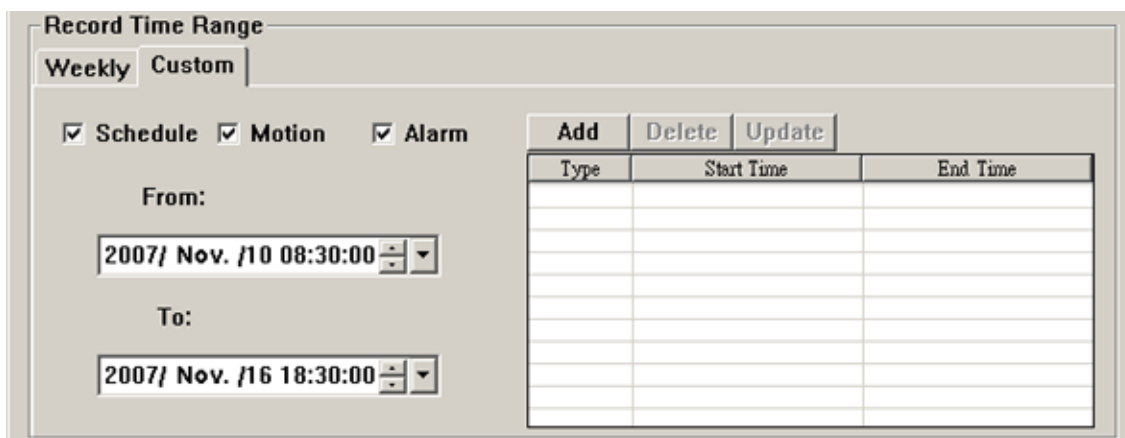
blue => the 3rd line, motion record



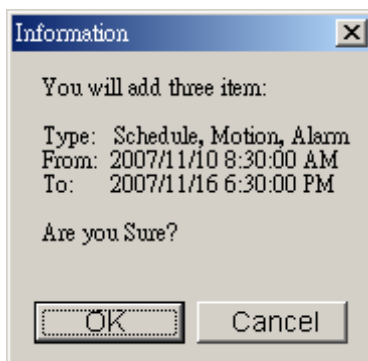
Tip: To set schedule record, alarm record and motion record all at once for the whole week, press “+” button. To clear all record time settings, press “-” button.

◆ Custom

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



- Select the desired record type(s) (Schedule / Motion / Alarm), and set the start & end date and time.
- 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.



- 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 view 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.

	Total(MB)	Free(MB)	Reserve(MB)	Video Path	Picture Path
<input checked="" type="checkbox"/> C:	39997	4296	2130	C:\TEMP\VIDEO\	C:\TEMP\PICTURE\
<input type="checkbox"/> D:	38523	3871	2048	D:\	D:\
<input type="checkbox"/> F:	239366	228443	2048	F:\	F:\

5.4 Server Setting

Click (Miscellaneous Control) → (Server Setting) 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 19.

General

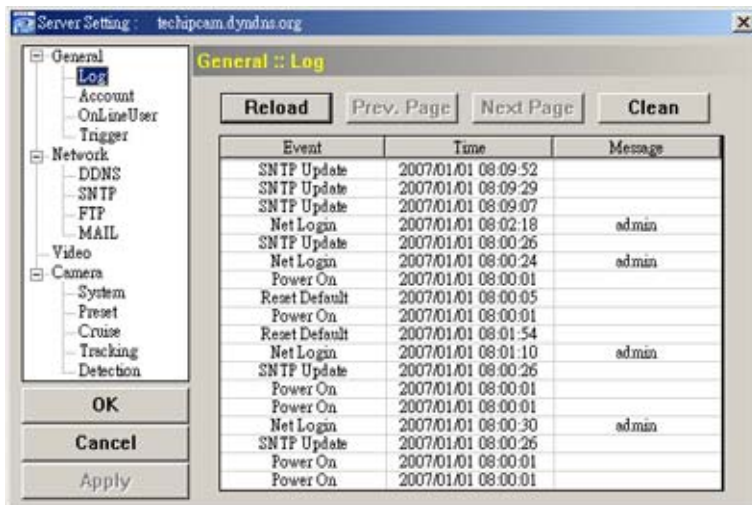
Click (Miscellaneous Control) → (Server Setting) → “General” to go into the “General” page. In “General” page, you will see the following items:

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. The default camera title is “Camera1”.



Log

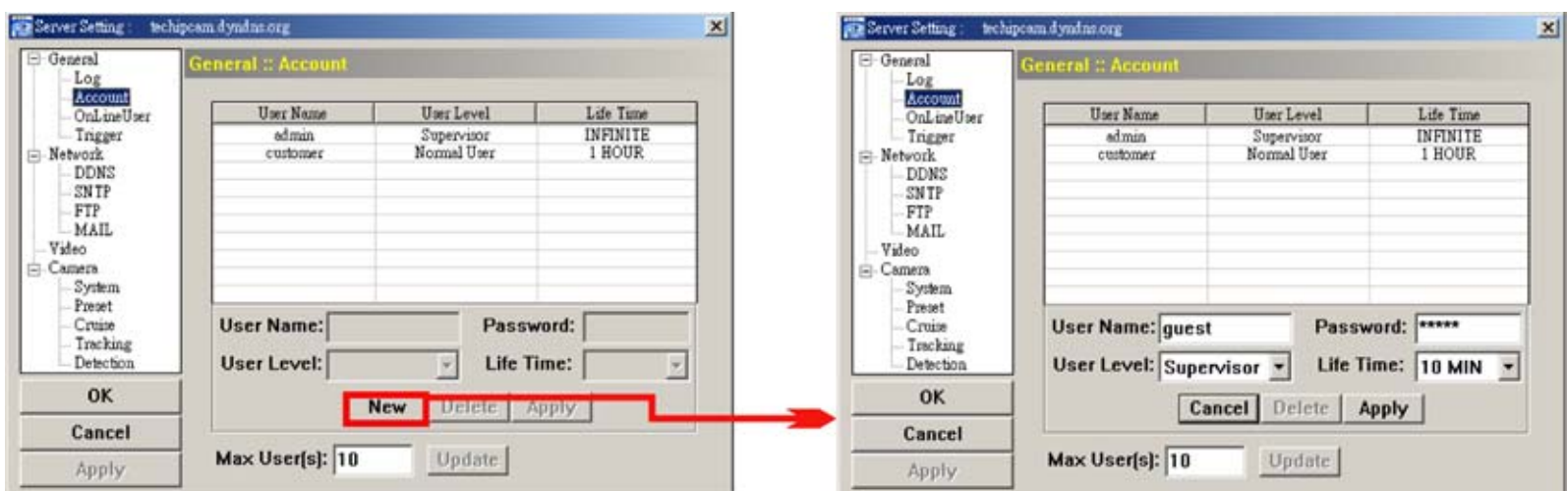
Click “” (Miscellaneous Control) → “” (Server Setting) → “General” → “Log” to go into the “Log” page. In the “Log” page, you can see all the logs for the network camera, such as “Power On”, “Reset Default”, “Net Login” and “SNTP Update” ... etc.

- 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 “” (Miscellaneous Control) → “” (Server Setting) → “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.





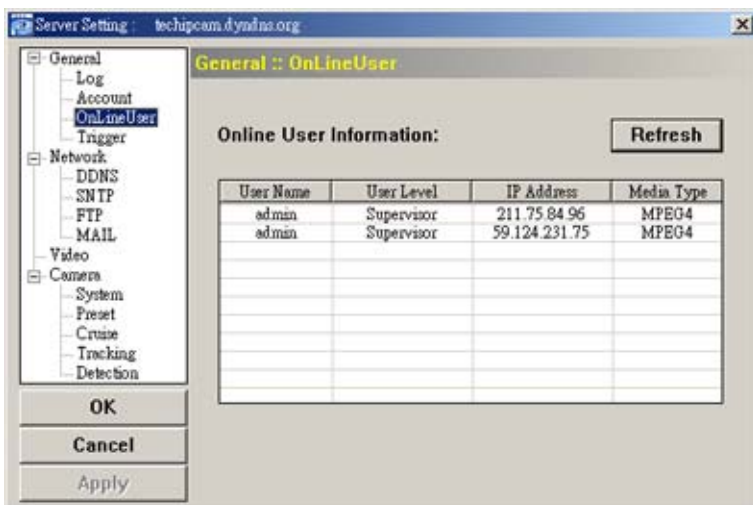
- To modify an existing account, select the account you want, change the setting, and click “Apply”.
- To remove an existing account, select the account you want, and click “Delete”.
- To save your changes, click “Apply”.

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	Set the security level of an account to give the permission to control different Video Viewer functions. There are 4 user levels: “Supervisor”, “Power User”, “Normal User” and “Guest”.



Column	Description																																																												
	For the functions each user level is allowed to access, please see the information below:																																																												
	<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</td> <td>●</td> <td>X</td> <td>X</td> <td>X</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> </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	●	X	X	X	Status List	●	●	●	●	Record	●	●	●	●	Snapshot	●	●	●	●	Information	●	●	●	●
	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	●	X	X	X																																																									
Status List	●	●	●	●																																																									
Record	●	●	●	●																																																									
Snapshot	●	●	●	●																																																									
Information	●	●	●	●																																																									
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																																																												

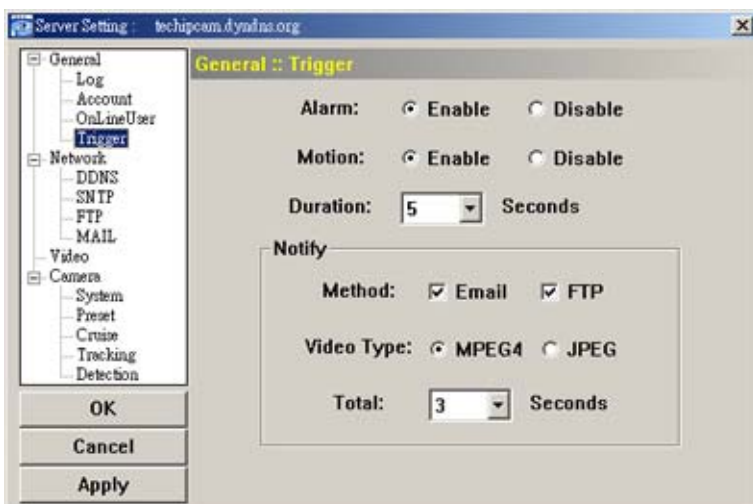
Online User

Click “” (Miscellaneous Control) → “” (Server Setting) → “General” → “OnLineUser”, and you can check all the online user information. To update the user information, click “Refresh”.



Trigger

Click “” (Miscellaneous Control) → “” (Server Setting) → “General” → “Trigger” to enter this page. In this page, you can setup the motion or alarm trigger and notification function.



◆ Motion Trigger:

In this section, you can select to enable the function of motion trigger. Before this function is enabled, you need to set the motion detection area first. For motion detection area setting, please refer to “Detection” at page 32.


Item	Description
Motion	In this section, you can select to enable the function of motion trigger.
Duration	Set the duration time of the motion trigger recording (5 / 10 / 20 / 40 seconds).

◆ Alarm Trigger:



In this section, you can select to enable the function of alarm trigger.

◆ Notify

In this section, you can select to enable the function of E-mail and/or FTP notification.

Item	Description
Method	<ul style="list-style-type: none"> • Email Notification: 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-trigger or alarm-trigger recording happened. • FTP Notification: 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.
Video Type	Display the video type of the notification files. The video type will vary according to the setting of “Stream Format” in the “  ” (Address Book) page.
Total	Set the record time of the notification video clip (1 ~ 5 seconds).

Network

Click “” (Miscellaneous Control) → “” (Server Setting) → “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.



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. Please refer to “DDNS” section for details.

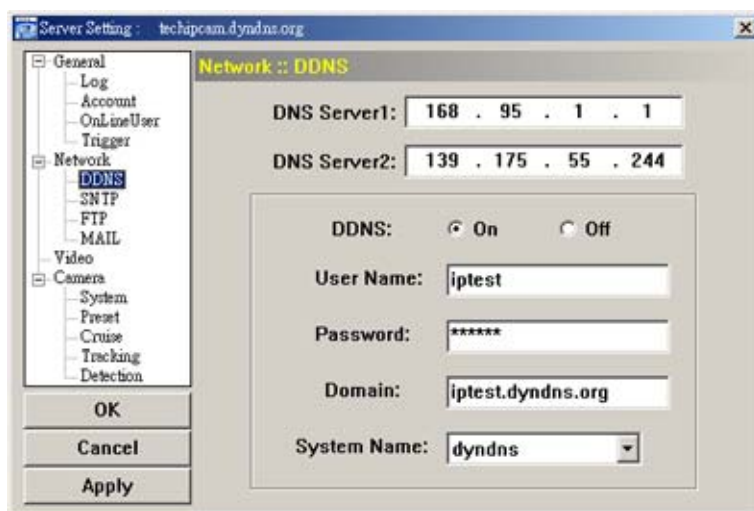
Function	Description
Web Port	Typically, the default TCP port used by HTTP is 80. However, in some cases, it is better to change this port number for added flexibility or security. The valid web port number ranges from 1 to 9999.
Static IP	Computers are communicated and recognized by their own unique 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.

Function	Description
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. For detailed DDNS settings, please refer to "DDNS" section.
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. For detailed DDNS settings, please refer to "DDNS" section.

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.

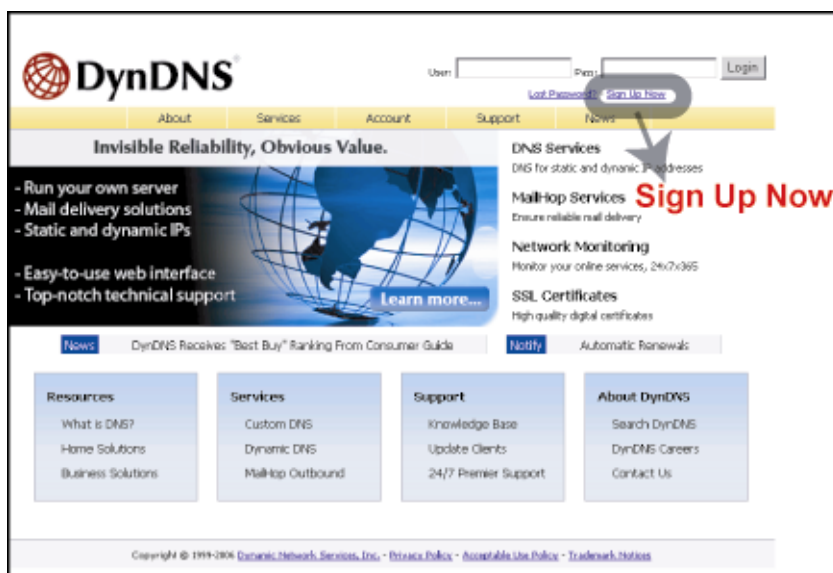
Click  (Miscellaneous Control) →  (Server Setting) → "Network" → "DDNS" to enter.



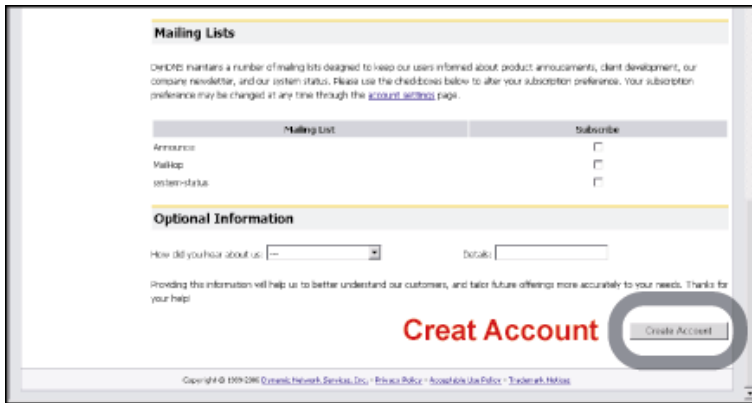
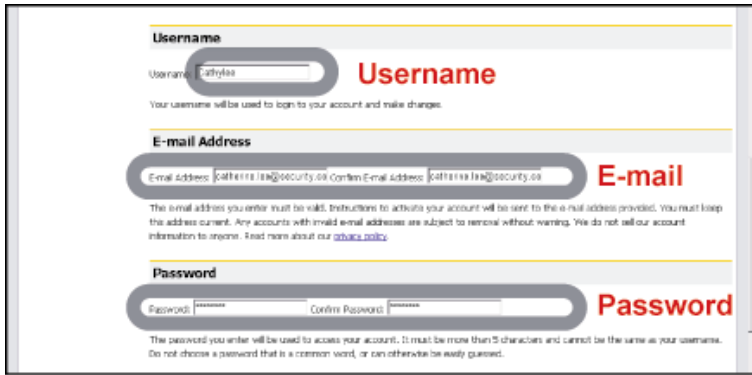
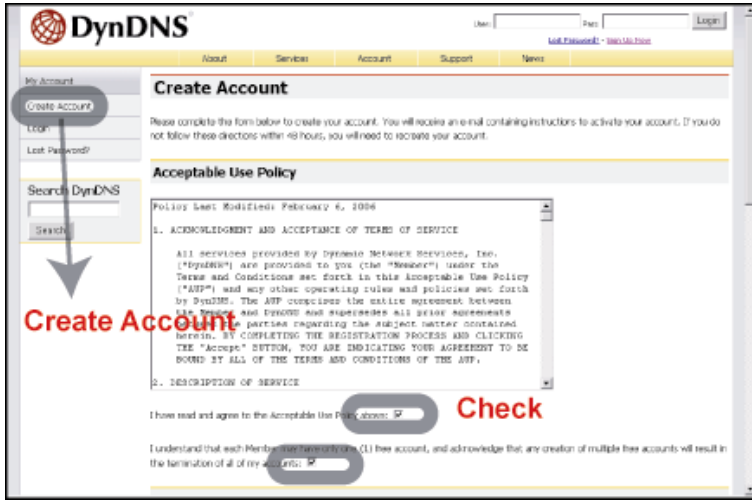
◆ DDNS Apply:

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 "Hostname". Please refer to the steps below.

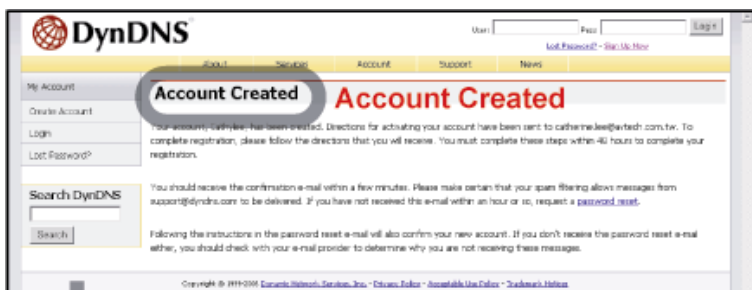
- Go to a website which provides free DDNS services and apply a "Hostname".
For example, go to <http://www.dyndns.com>.



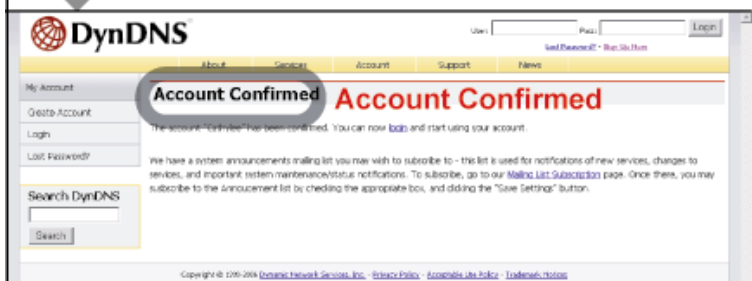
- Enter all the information necessary for signing up an account according to the website instructions.



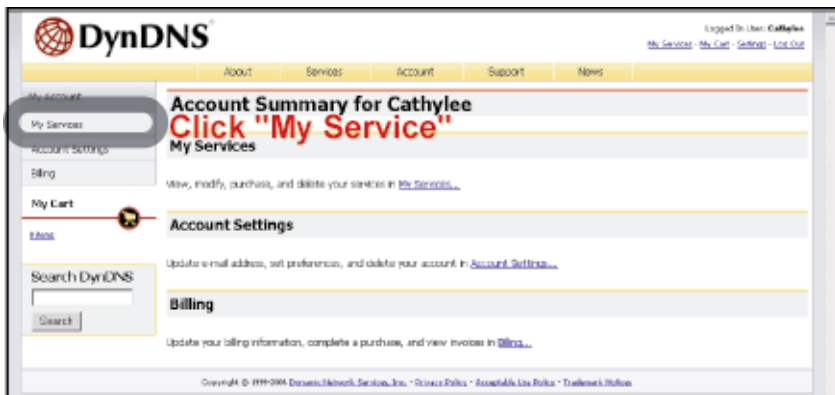
- Then, you will see the screen “Account Created”, and DynDNS will email the instructions to your specified E-mail address for enabling your account. You must complete the procedure according to the instructions in the mail. That is to must visit the confirmation address within 48 hours of the time that the e-mail was sent to complete the account creation process. Then, you will see “Account Confirmed”. Your account is created successfully now.



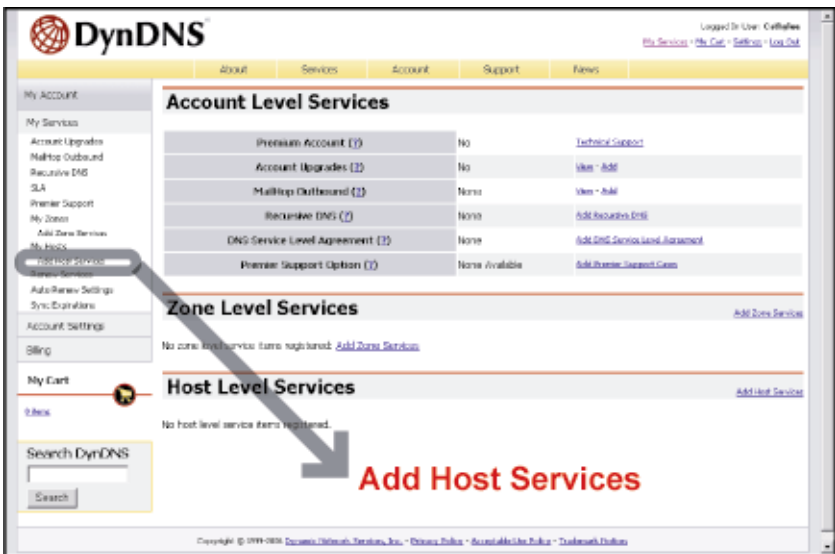
After complete the procedure according to the instructions in the confirmation mail



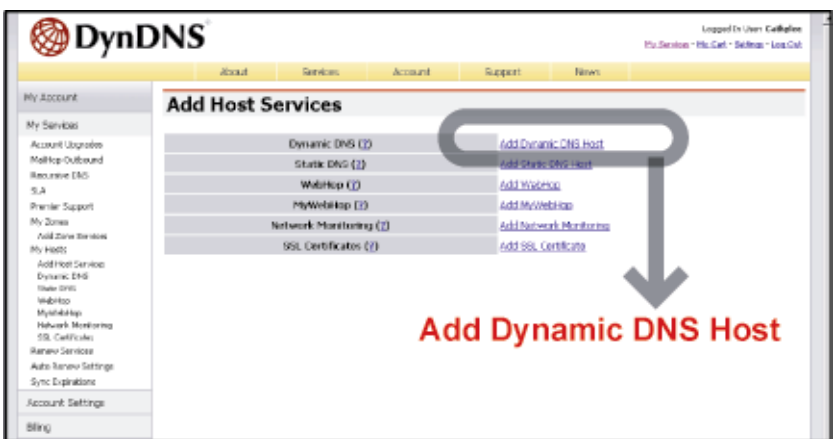
- Log in with your account information and click "My Service".



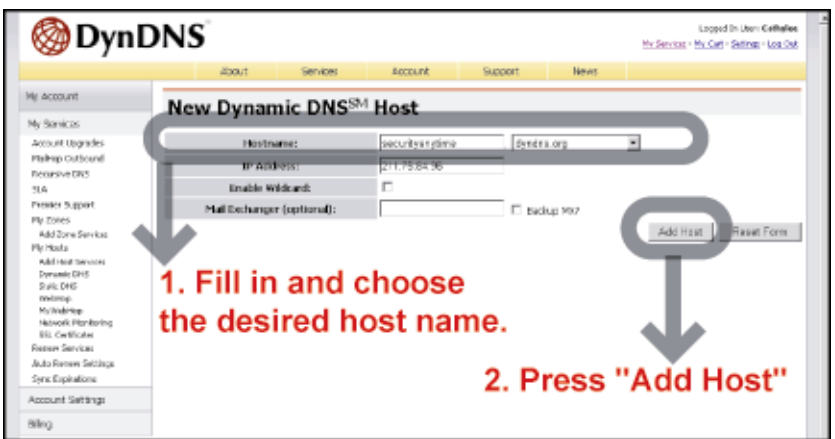
- Click "Add Host Services".



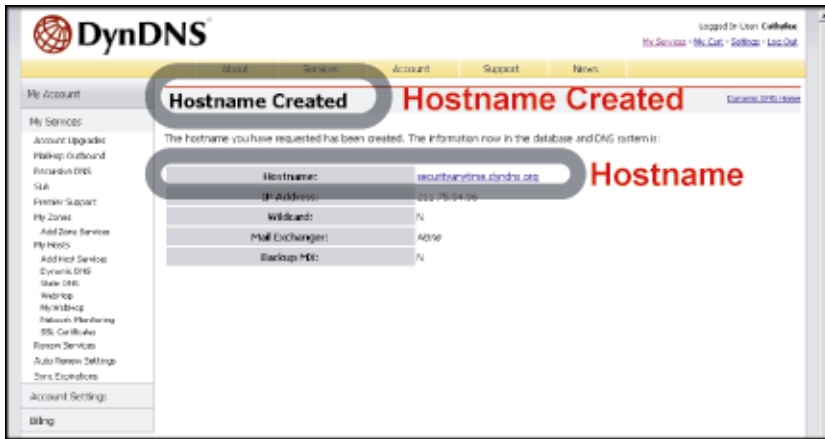
- Click "Add Dynamic DNS Host".



- Fill in and choose the desired host name.



- The host name is created. You will be connected to the corresponding IP address whenever you enter this hostname.



SNTP

SNTP (Simple Network Time Protocol) is for time setting. Click “” (Miscellaneous Control) → “” (Server Setting) → “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	The network camera will synchronize the time with the network time.

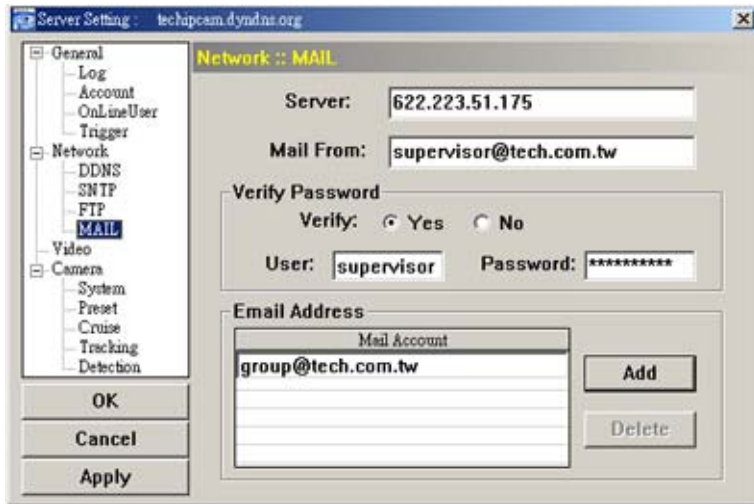
FTP

Click “” (Miscellaneous Control) → “” (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 “” (Miscellaneous Control) → “” (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.

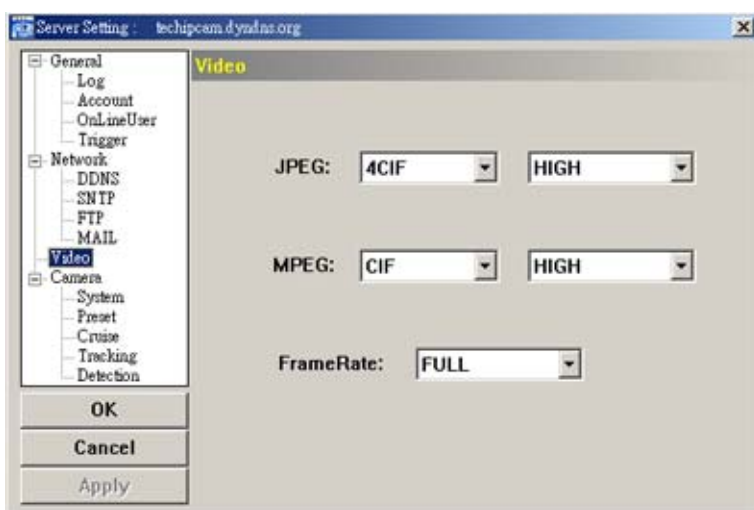


Function	Description
Server	Enter the SMTP server address provided from your e-mail system supplier.
Mail From	Enter the entire mail address to ensure E-mails will not be blocked by SMTP.
Verify Password	Some mail servers are required to verify the password. Please enter the “user name” and “password”.
Email Address	Add the E-mail address(s) of the assigned recipient(s).

Note: Users can assign up to 4 mail accounts for E-mail notification.



Video

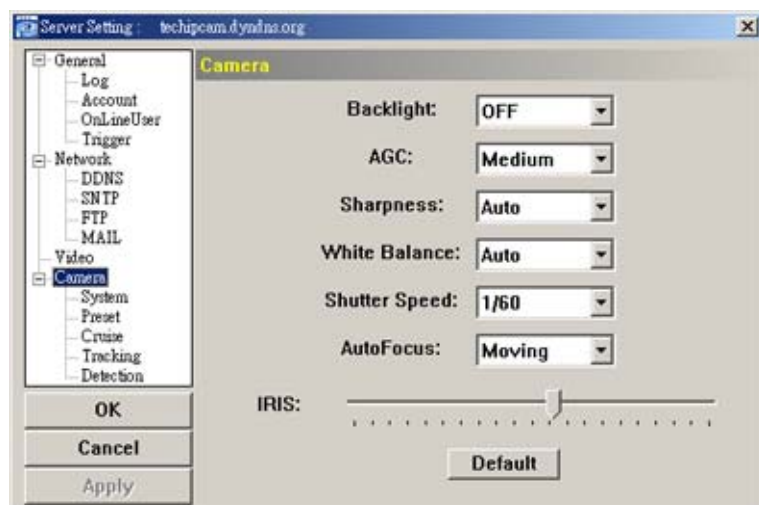
Click “” (Miscellaneous Control) → “” (Server Setting) → “Video” to go into the “Video” page.



Item	Description
System Type	Select the system type of the connected network camera.
MPEG	Image Resolution: VGA (640 × 480) / QVGA (320 × 240) Image Quality: BEST / HIGH / NORMAL / LOW
Stream Format	Select the stream format of the network transmission (MPEG-4 / Motion JPEG).
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 (HALF / ONE THIRD / QUARTER / ONE FIFTH / ONE TENTH / ONE FIFTEENTH). The actual frame rate depends on the actual network connection, and may be lower than the specified one.



Camera

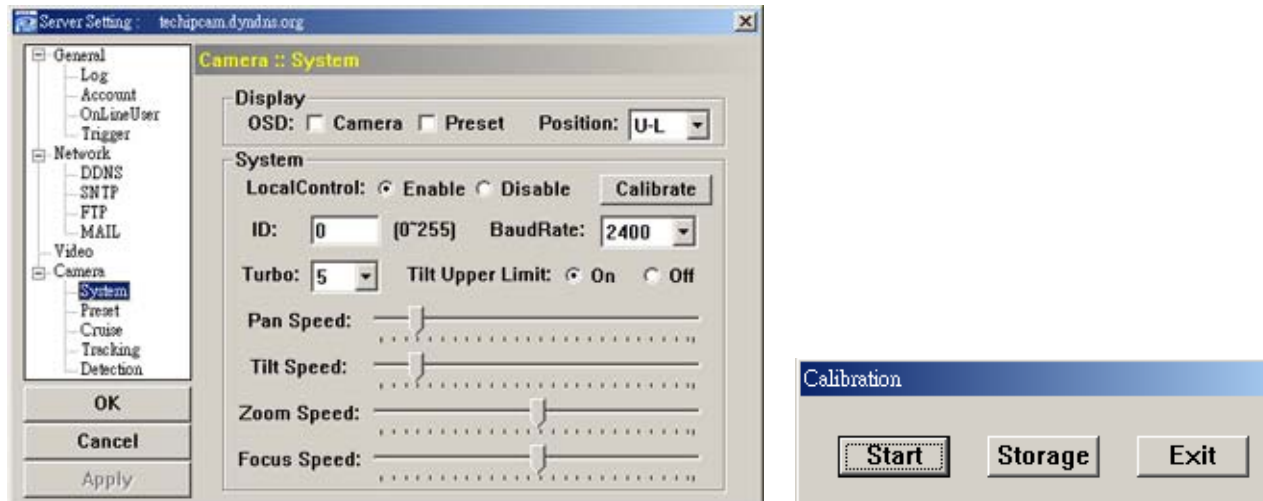
Click “” (Miscellaneous Control) → “” (Server Setting) → “Camera” to go into the “Camera” page and access the following functions. Find the camera settings that best suit your image needs by testing.



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	<p>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”).</p> <p><u>Low:</u> When the light condition is too bright, you can select “Low” for lower sensitivity.</p> <p><u>Medium:</u> When the light condition is normal, you can select “Medium” for normal sensitivity.</p> <p><u>High:</u> When the light condition is too dark, you can select “High” for higher sensitivity.</p> <p><u>Off:</u> Disable the auto gain control function.</p> <p>P.S. The higher the sensitivity is, the more the signal noise will be.</p>
Sharpness	<p>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”).</p> <p><u>Auto:</u> The camera automatically maintains a normal sharpness level.</p> <p><u>Low / Medium / High:</u> The sharpness of the image can be set manually by choosing different sharpness level.</p>
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>
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>
Apply	After setup, click “Apply” to confirm.



System

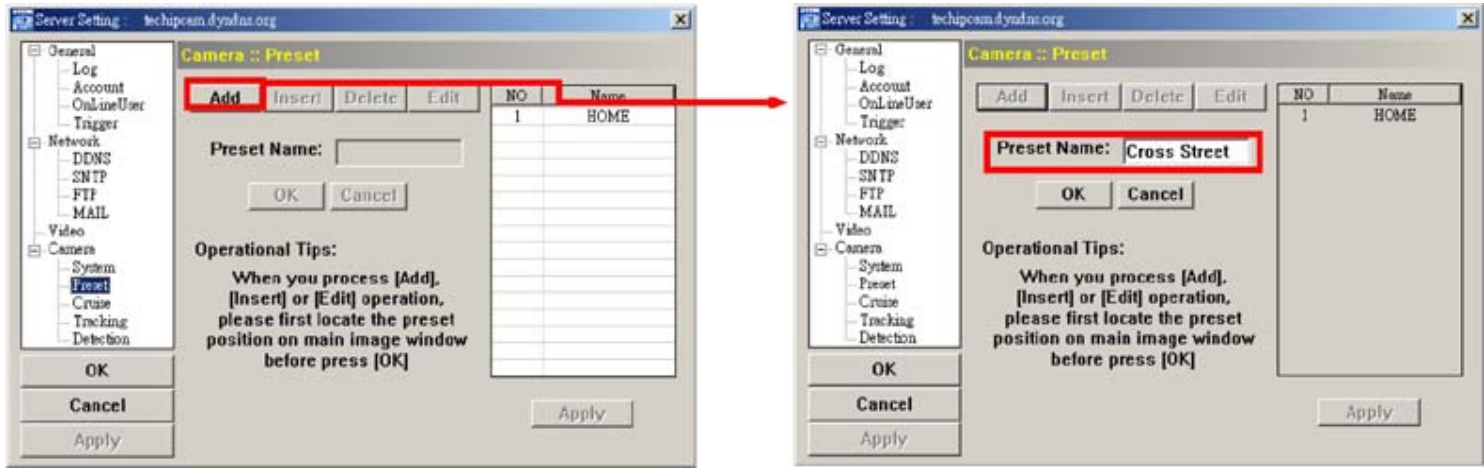
Click “” (Miscellaneous Control) → “” (Server Setting) → “Camera” → “System” to go into the “System” page and access the following functions.



Function	Description
Display	Check to display the camera title, preset point title or not. And choose the display position. <u>Camera</u> : Check this checkbox to display the customized camera title that you setup in the “General” page. <u>Preset</u> : Check this checkbox to display the customized preset point title that you setup in the “Preset” page. <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.
LocalControl	Check the checkbox to enable or disable the local control of the network camera.
Calibrate	This function button is only used when the camera is not focused at the wide (1x) mode after installation. Press 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.
Turbo	To speed up the camera control in the PTZ control panel of the video viewer software AP, you can choose the turbo steps (1 ~ 10). The TURBO function can be activated in the PTZ control panel of the video viewer software AP. 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 press 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).
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).
Apply	After setup, click “Apply” to confirm.

Preset

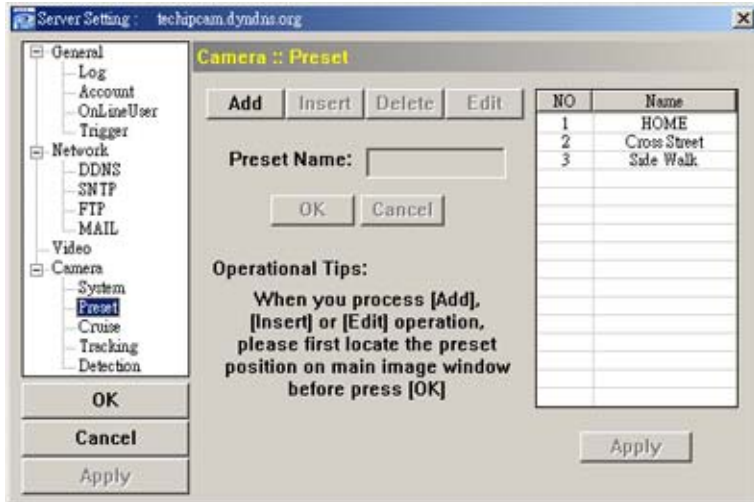
Click “” (Miscellaneous Control) → “” (Server Setting) → “Camera” → “Preset” to go into the “Preset” page and access the following functions. A preset position is a pre-defined camera view than can be used to quickly move the camera to a specific location.





Function	Description
Add	Specify the camera position (pan and tilt) and the lens zoom setting in the live view of the video viewer. Then press "Add" button to assign the preset name of the preset point. After setup, press "OK" to confirm the setting.
Insert	Specify the camera position (pan and tilt) and the lens zoom setting in the live view of the video viewer. Then press "Insert" button to assign the preset name of the preset point. After setup, press "OK" to confirm the setting.
Delete	Press "Delete" button to delete the selected preset point.
Edit	Select the preset point and press "Edit" button to modify the camera position (pan and tilt), the lens zoom setting and the preset name. After modification, press "OK" to confirm the setting.

Example for the preset point operation:

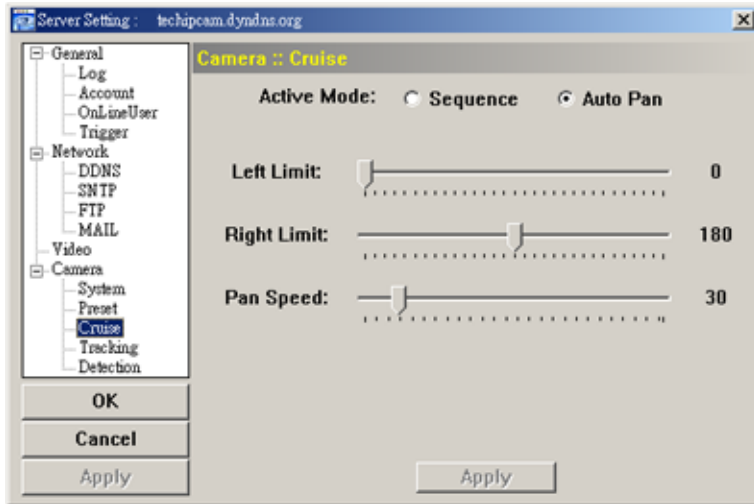
There three customized preset points. In the PTZ control panel, press No. 2 preset point and the PTZ network camera will go the pre-defined location of the No. 2 preset point immediately.



Cruise

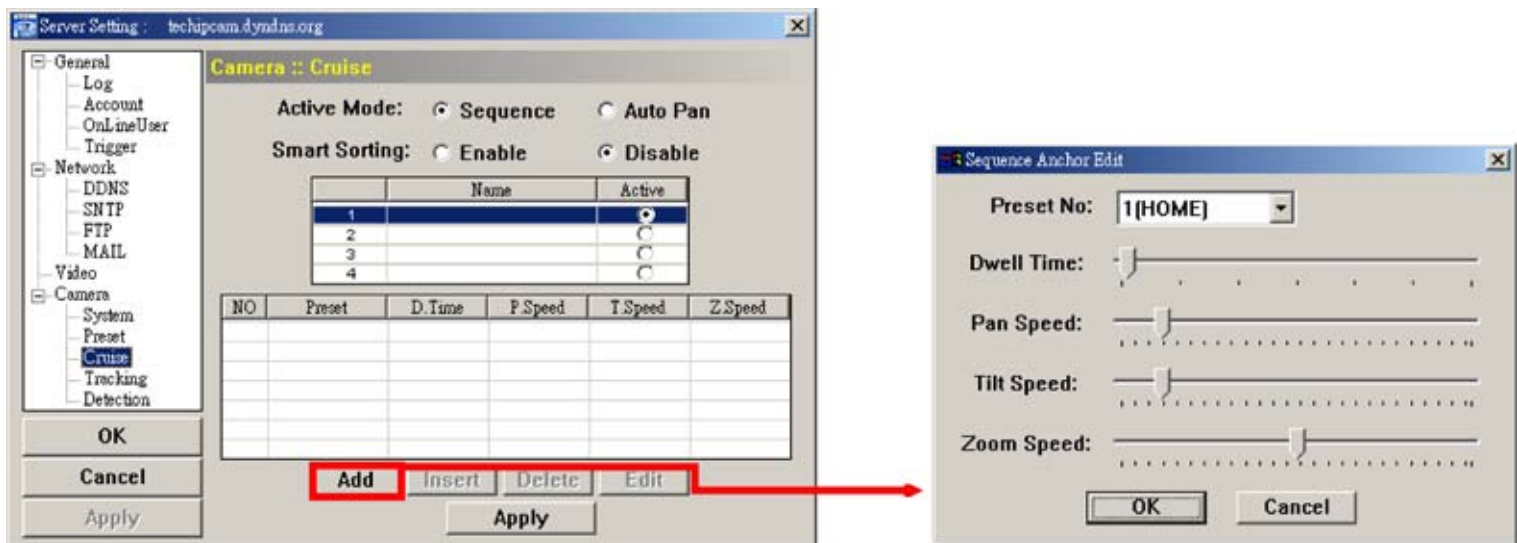
Click “” (Miscellaneous Control) → “” (Server Setting) → “Camera” → “Cruise” to go into the “Cruise” page and access the following functions. In this page, you can setup the auto pan and sequence mode.

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



Function	Description
Left Limit	By pressing and dragging the slider, you can setup the left panning limit (0° ~ 360°) of the PTZ network camera.
Right Limit	By pressing and dragging the slider, you can setup the right panning limit (0° ~ 360°) of the PTZ network camera.
Pan Speed	By pressing and dragging the slider, you can setup the panning speed (1 ~ 255) of the PTZ network camera.
Apply	After setup, click “Apply” to confirm.

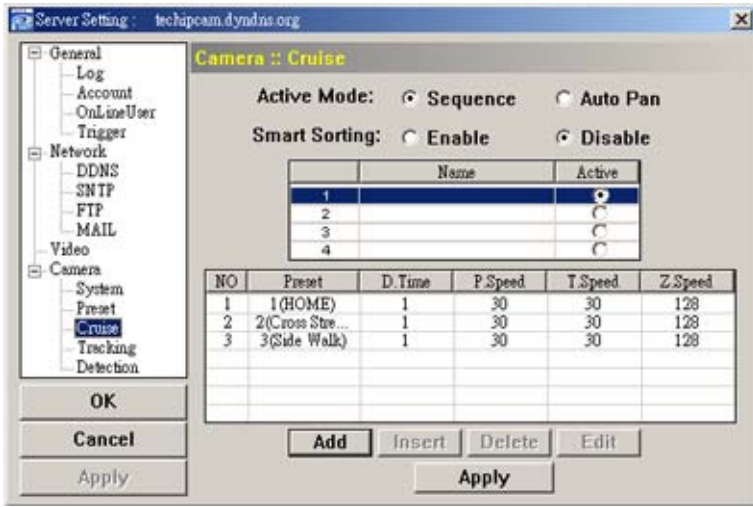
◆ Sequence (Check the “Sequence” checkbox)



Function	Description
Add	Press “Add” button to enter the sequence anchor edit page and arrange the sequence of the preset points. In this page, select the preset point in the drop-down list of the “Preset No”. By pressing and dragging the slider, you can setup the dwell time, pan speed, tilt speed and zoom speed of the PTZ network camera. After setup, press “OK” to confirm.
Apply	After setup, click “Apply” to confirm.

Example for the cruise function operation:

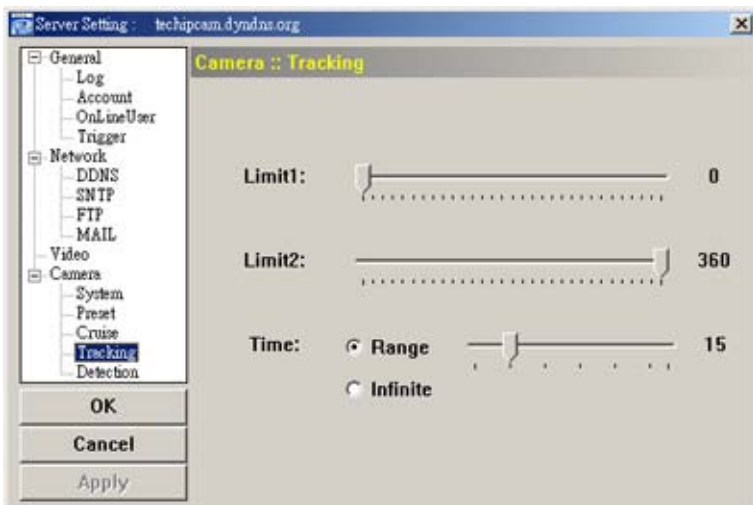
After setup the sequence of the preset points. In the PTZ control panel, press “AUTO” button and the PTZ network camera will start cruising according to the pre-defined sequence.



Tracking

Click “” (Miscellaneous Control) → “” (Server Setting) → “Camera” → “Tracking” to go into the “Tracking” page and access the following functions. In this page, you can setup the auto tracking function. When the locked target is out of the pre-defined surveillance area, the camera returns to the point it originally monitors after the preset tracking timeout.

- ◆ Set the pre-defined surveillance area (Limit 1 & Limit 2) and Tracking Timeout (Range or Infinite):

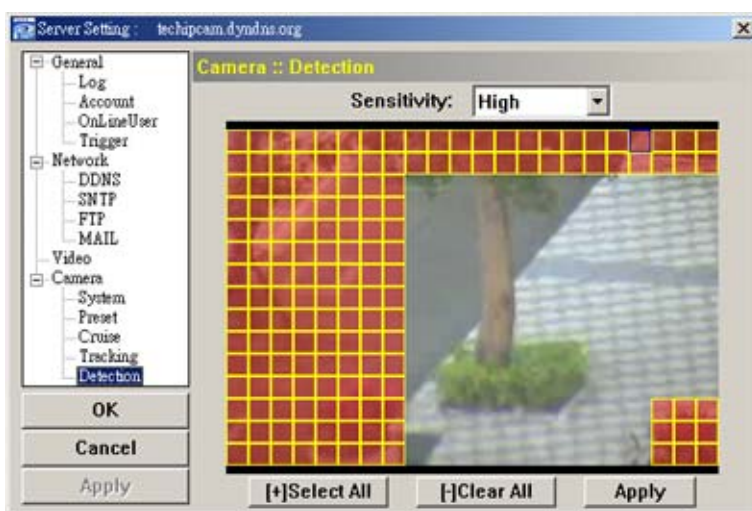


Function	Description
Limit 1	When the locked target stops moving longer than the pre-defined tracking timeout, the camera returns to the point it originally monitors after the preset tracking timeout.

Function	Description
	By pressing and dragging the slider, you can setup the left panning limit (0° ~ 360°) of the PTZ network camera.
Limit 2	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 pressing and dragging the slider, you can setup the right panning limit (0° ~ 360°) of the PTZ network camera.
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 pressing and dragging the slider, you can setup pre-defined tracking timeout (5 ~ 60 seconds) of the PTZ network camera or you can choose to have no time limit.
Apply	After setup, click "Apply" to confirm.

Detection

Motion detection is used to generate a motion trigger whenever movement occurs in the video image. Select the desired channel, and click "Edit" to enter the setting page of the motion detection area.



Function	Description
Motion Detection Setting Area	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.
Select All	Click "+" (Select All) to set the whole area under detection.
Clear All	Click "-" (Clear All) to set the whole area undetected.
Apply	After setup, click "Apply" to confirm.

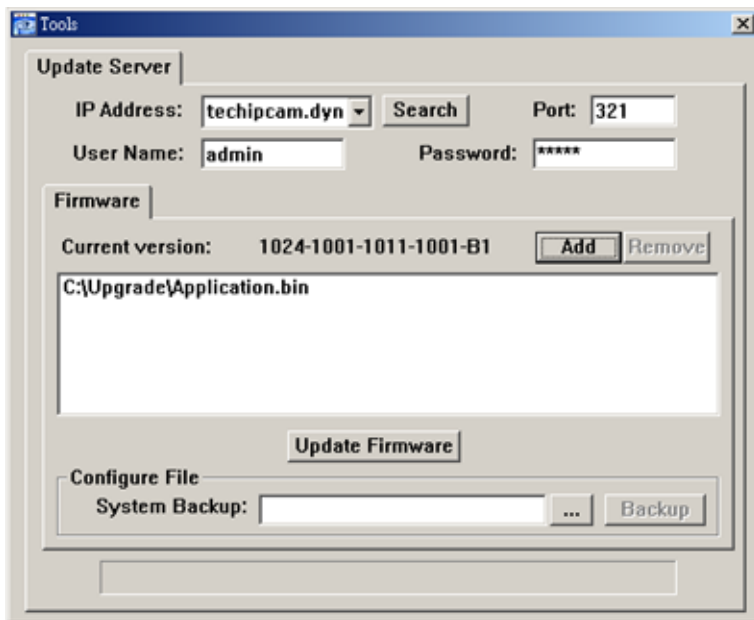
5.5 Tools


Click  (Miscellaneous Control) →  (Tools) to go into the "Tools" page.

Note: You need to be a supervisor to operate this function. For details, please see "Account" at page 19.

Update Firmware


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



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, 1024-1001-1011-1001-B1
Add	To upgrade the firmware version of your network camera, click "Add" to locate and select the firmware files. There are several upgrade files. Please upgrade one by one.
Update Firmware	To start upgrading the firmware of the network 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!" 
Configure Backup (For DVR and AVI321, AVI311 models only)	If you want to backup your system before upgrading the firmware version, select "System Backup" 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.

5.6 Status List

Click  (Status List) to view all the record list and login/logout event list (**All**), or search the desired log list(s) by date, or playback the recording of the selected log list (**Condition**).

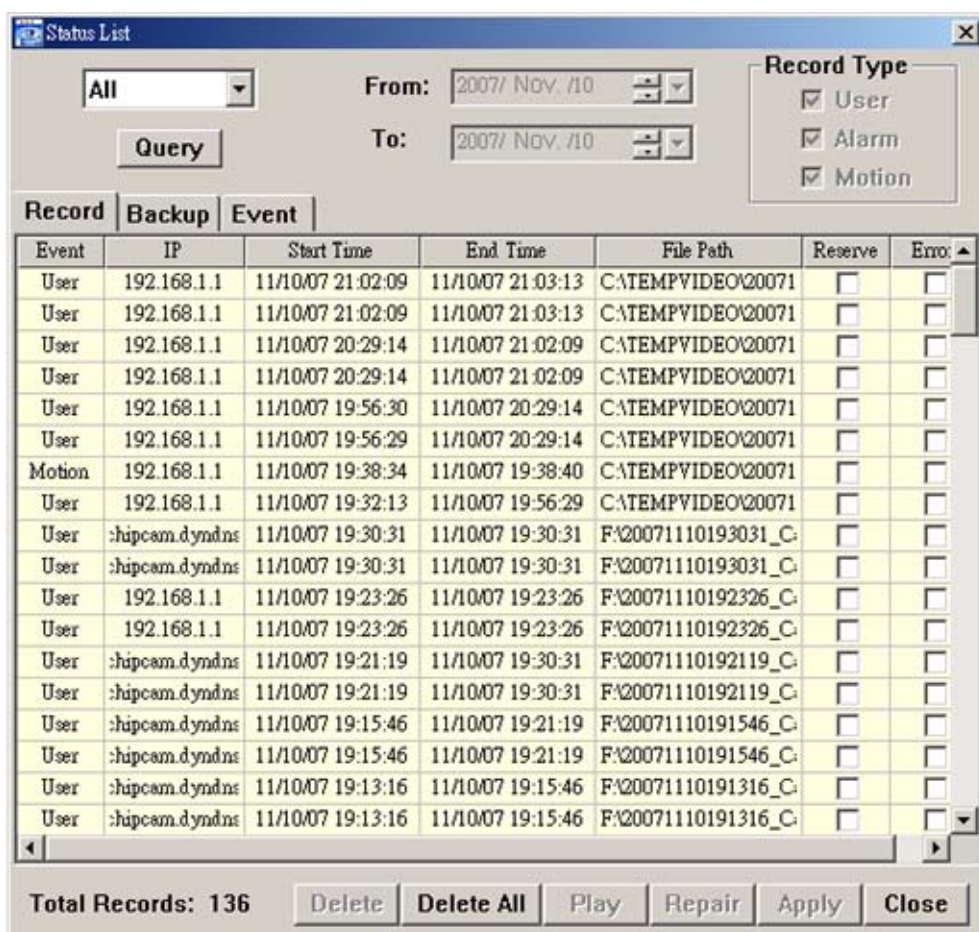
There are three types of logs: Record, Event and Backup. To playback the recorded data for a specific record log list, select the log, and double-click to start the video playback.

For detailed playback operation, please refer to “Playback Screen” at page 38.

Record List

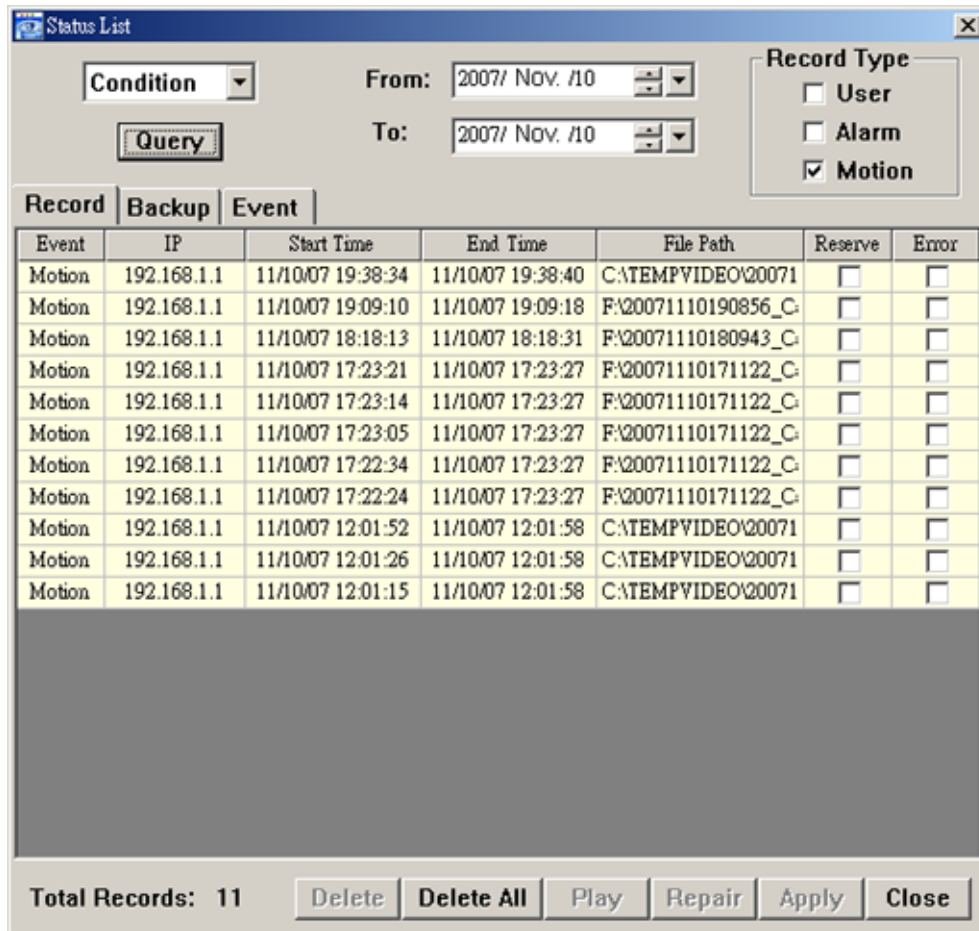
Select “All” to show all record logs, or “Condition” to search for the specific log(s) by date or by record type.

- All



Button	Description
Query	Press this button to refresh the log list.
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. For playback details, please refer to “Playback Screen” at page 38.
Repair	Click to fix the log with errors.
Apply	This button is available in the “Record” tab when the “Reserve” checkbox is checked or unchecked. If you want to keep an important record log for future reference and it can’t be removed, check the “Reserve” checkbox, and click “Apply”. The selected log will be kept and won’t be deleted when somebody accidentally or intentionally chooses it and click “Delete” or “Delete All”.
Close	Click “Close” to quit this window.

• Condition



Button / Function	Description
Date Selection (From / To)	Choose the specific date range including the event / record logs you might want.
Record Type	This section is enabled only when the “Record” tab is selected. Select the record type you want to search (User / Alarm / Motion).
Query	When all the search criteria are set, click to search the specified logs. The result will be displayed in the log list, arranged by time from the latest to the earliest.
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. For playback details, please refer to “Playback Screen” at page 38.
Repair	Click to fix the log with errors.
Apply	This button is available in the “Record” tab when the “Reserve” checkbox is checked or unchecked. If you want to keep an important record log for future reference and it can’t be removed, check the “Reserve” checkbox, and click “Apply”. The selected log will be kept and won’t be deleted when somebody accidentally or intentionally chooses it and click “Delete” or “Delete All”.
Close	Click “Close” to quit this window.

Login / Logout Event List

Select “**All**” to show all event logs (Login / Logout), or “**Condition**” to search for the specific event log(s) by date.

- **All**

The screenshot shows the 'Status List' application window. At the top, there is a dropdown menu set to 'All', a 'Query' button, and date pickers for 'From:' and 'To:' both set to '2007/ Nov. /10'. On the right, the 'Record Type' section has checkboxes for 'User', 'Alarm', and 'Motion', all of which are checked. Below this is a tabbed interface with 'Record', 'Backup', and 'Event' tabs. The main area is a table with the following data:

Time	Event	IP	Description
11/10/07 21:19:07	Login	192.168.1.1	
11/10/07 21:18:58	Logout	192.168.1.1	
11/10/07 21:18:58	Logout	192.168.1.1	
11/10/07 21:18:38	Login	192.168.1.1	
11/10/07 21:18:24	Logout	192.168.1.1	
11/10/07 21:12:01	Login	192.168.1.1	
11/10/07 21:11:55	Logout	192.168.1.1	
11/10/07 19:32:13	Login	192.168.1.1	
11/10/07 12:02:35	Login	192.168.1.1	
11/10/07 12:02:24	Logout	192.168.1.11	
11/10/07 12:02:10	Logout	192.168.1.11	
11/10/07 12:01:14	Login	192.168.1.11	
11/10/07 12:00:05	Logout	192.168.1.11	
11/10/07 11:59:21	Login	192.168.1.1	
11/10/07 11:56:35	Logout	192.168.1.1	
11/10/07 11:56:03	Logout	192.168.1.1	
11/10/07 11:55:50	Login	192.168.1.1	
11/10/07 11:54:03	Logout	192.168.1.1	

At the bottom of the window, it says 'Total Records: 34' and includes buttons for 'Delete', 'Delete All', 'Play', 'Repair', 'Apply', and 'Close'.

- **Condition**

The screenshot shows the 'Status List' application window with the dropdown menu set to 'Condition'. The 'From:' and 'To:' date pickers are both set to '2007/ Nov. /09'. The 'Record Type' checkboxes for 'User', 'Alarm', and 'Motion' are still checked. The table below shows the filtered results:

Time	Event	IP	Description
11/09/07 22:14:41	Logout	59.120.45.234	
11/09/07 22:14:40	Logout	192.168.1.1	
11/09/07 22:12:49	Login	192.168.1.1	
11/09/07 22:12:48	Logout	192.168.1.1	
11/09/07 22:12:02	Login	59.120.45.234	
11/09/07 22:11:04	Login	192.168.1.1	

The bottom of the window shows 'Total Records: 6' and the same set of control buttons as the previous screenshot.

Backup List (For DVR only)

The network cameras don't support network backup function. This function is available when the Video Viewer is connected to a DVR. You can remotely view the backup list and playback the selected item.

Select "**All**" to show all download logs, or "**Condition**" to search for the specific log(s) by date.

- **All**

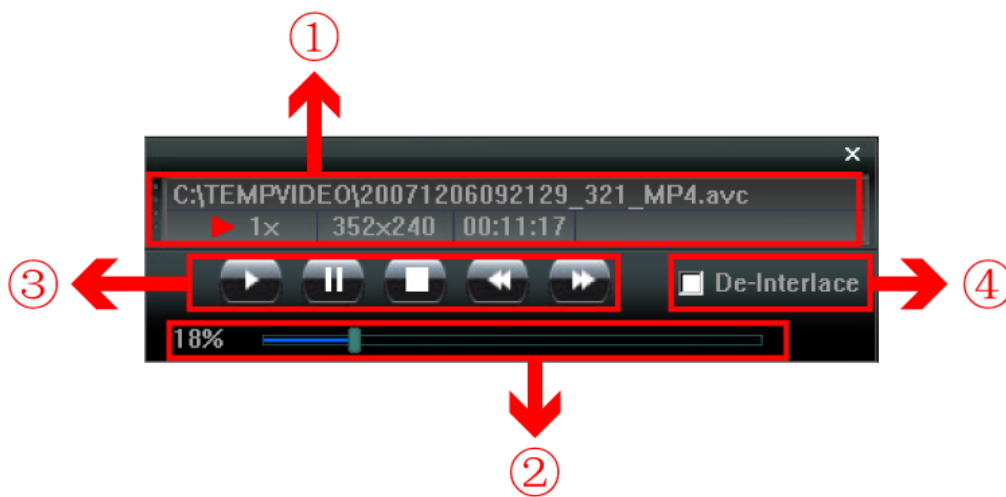
Button	Description
Query	Click this button to refresh the log list.
Delete / Delete All	Click "Delete" to remove the selected log(s), or click "Delete All" to clear the current log list. Tip: To select more logs all at once, press and hold the "Ctrl" key on your keyboard, and click to select the logs you want to remove.
Play	Click to play the selected record log. The playback panel will be shown for your further operation. For playback details, please see "Playback Screen" at page 36.
Repair	Click to fix the log with errors.
Apply	This button is available in the "Record" tab when the "Reserve" checkbox is checked or unchecked. If you want to keep an important record log for future reference and it can't be removed, check the "Reserve" checkbox, and click "Apply". The selected log will be kept and won't be deleted when somebody accidentally or intentionally chooses it and click "Delete" or "Delete All".
Close	Click "Close" to quit this window.

- **Condition**

Button / Function	Description
Date Selection (From / To)	Choose the specific date range including the event / record logs you might want.
Query	When all the search criteria are set, click to search the specified logs. The result will be displayed in the log list, arranged by time from the latest to the earliest.
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 network backup log. The playback panel will be shown for your further operation. For playback details, please see "Playback Screen" at page 38.
Repair	If the backup file has error, click this button to fix the log with errors.
Apply	This button is available in the "Backup" tab when the "Reserve" checkbox is checked or unchecked. If you want to keep an important record log for future reference and it can't be removed, check the "Reserve" checkbox, and click "Apply". The selected log will be kept and won't be deleted when somebody accidentally or intentionally chooses it and click "Delete" or "Delete All".
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.



NO.	Function	Description
①	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.
②	Playback Progress Bar	This area shows the playback progress and the progress percentage.
③	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>
④	De-Interlace	Click to reduce the vibration of the paused picture.

APPENDIX 1 DEFAULT VALUE• **Default Value**

Items	Default Value
• Default Network Settings:	
User Name	admin
Password	admin
Port	80
IP Address	192.168.1.10