

# Fast Ethernet / PoE 3Mpx Day & Night PT Network Camera

**PT-31 / PT-31E**

**User Manual**

Version 1.0 / September, 2011





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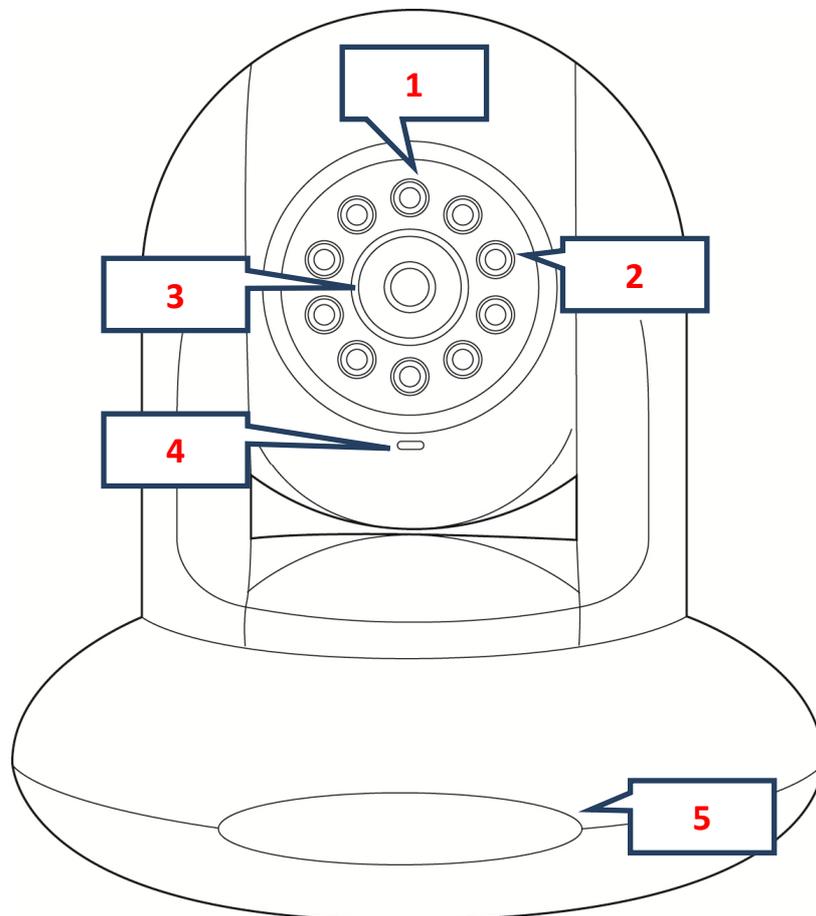
## CHAPTER I: PRODUCT INFORMATION

### 1-1 Package Contents

Before you start using this product, please check if there is anything missing in the package, and contact your dealer to claim the missing item(s):

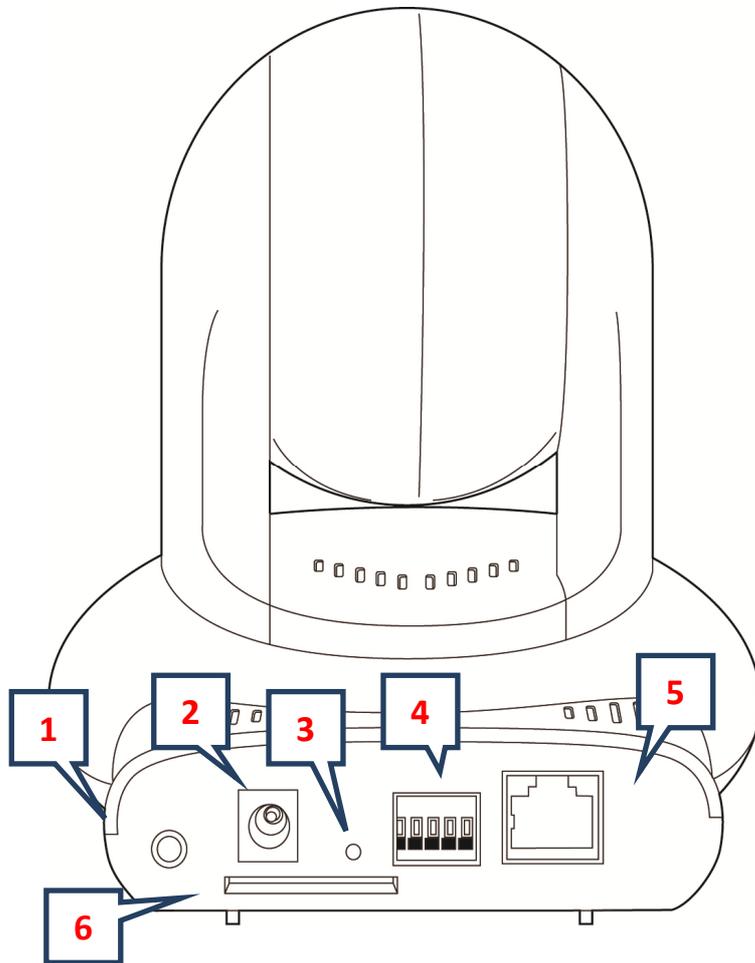
- Network camera (1 pcs)
- Power adapter (1 pcs)
- Ethernet cable (1 pcs)
- Mounting kit (1 pcs)
- CD with utility software and user manual (1 pcs)
- Quick installation guide (1 pcs)

### 1-2 Getting Familiar with Your New Network Camera



Item	Description
1 - Light sensor	Detects light level of the place where this IP camera install.
2 - IR LEDs	Emits infrared light to provide light source in dark places
3 - Focus ring	If the image looks fuzzy, try to turn this focus ring clockwise or counter-clockwise to adjust focus until the image looks clear
4 - Microphone	Receives voice

<p>5 - LED indicators</p>	<p>There are 2 LED lights inside to indicate the operation of this IP camera:</p> <p>Left: Network activity LED</p> <p>On: Ethernet cable connected Off: Ethernet cable disconnected Flash: Transferring data</p> <p>Right: Power LED</p> <p>On: IP camera is switched on Off: IP camera is switched off</p> <p>Please note: These LEDs can be switched off regardless the operation status of IP camera in IP camera's configuration menu. This will be helpful if you don't want other people to know the operation status of this IP camera.</p>
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Item	Description
1 - Audio out	Connects to external audio amplifier to output voice. Use 3.5mm audio cable.
2 - DC12V	Connect to DC power adapter output
3 - RESET	When the IP camera is not functioning properly, you can use a pen or similar object to press this reset button to reset the IP camera. You can also press and hold this

	button for more than 5 seconds to clear all settings of IP camera, include administrator password.
4 - DI/DO connectors	For external sensor and alarm. <b>WARNING: DO NOT CONNECT POWERED CABLE!</b>
5 - ETHERNET	Connect to your local area network by Ethernet cable.
6 – SD card slot	Inserts SD card for video recording. Maximum 32GB of SD-HD card supported.

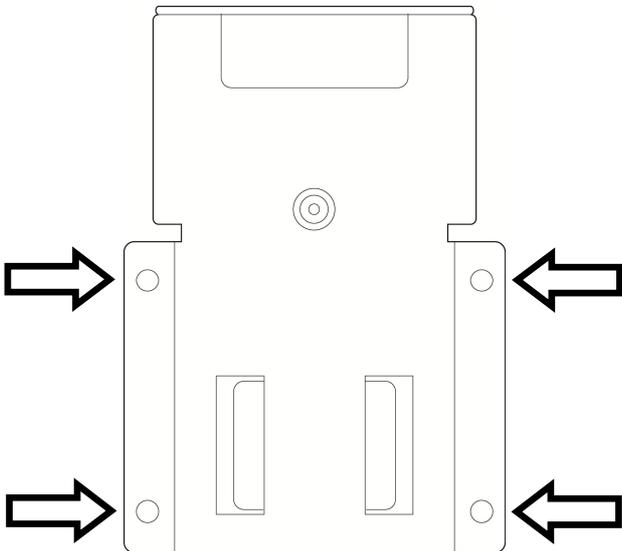
**DI/DO PIN ASSIGNMENT**

Item	Description
GND	Signal ground
DO	Digital Output #1
DI1	Digital Input #1
DI2	Digital Input #2

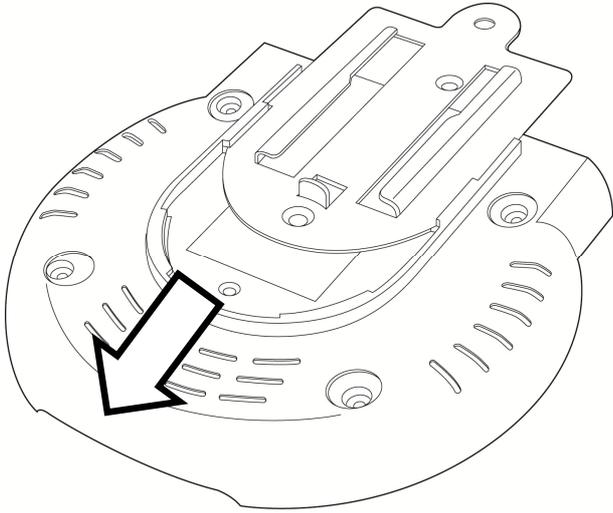
To insert or release a wire, press the button of the PIN you wish to insert or release.

**1-3 Camera Installation**

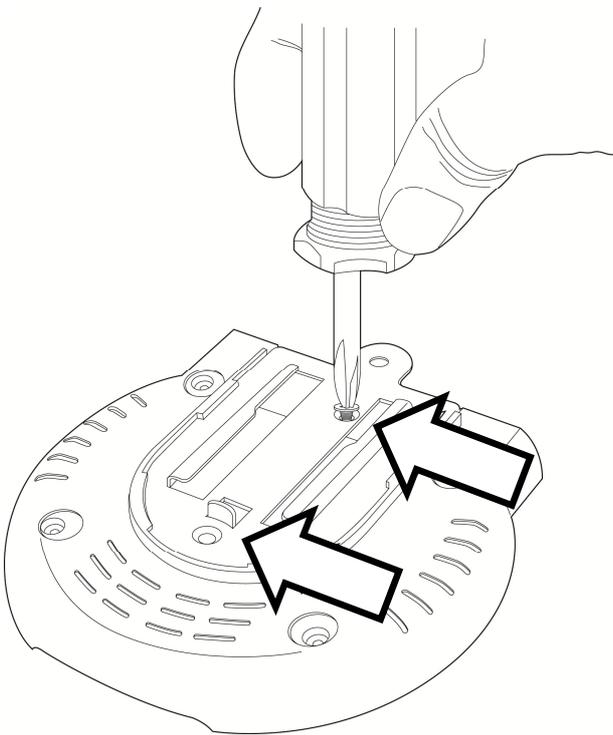
Please follow the proceeding instructions to set up your new network camera. If you wish to place this network camera on a table, please skip step 1 to 6.



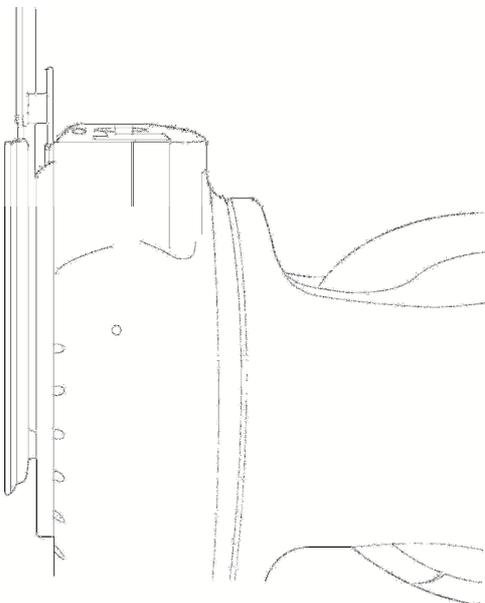
**Step 1:**  
Screw mounting plate A on the wall via the 4 holes indicated by the arrows.



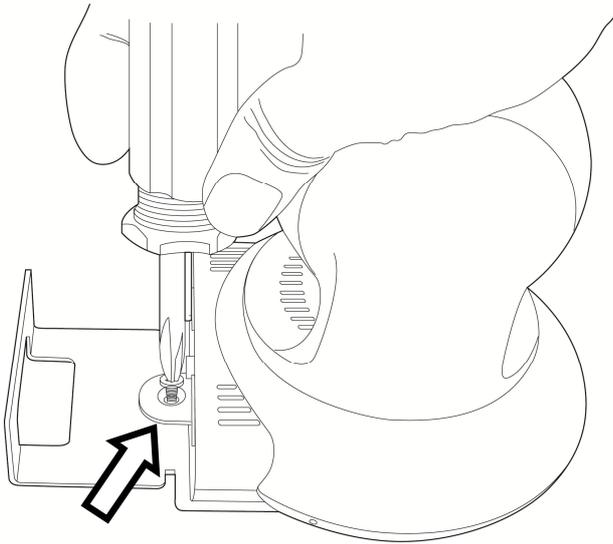
**Step 2:**  
Insert mounting plate B into the slot at the bottom of the network camera.



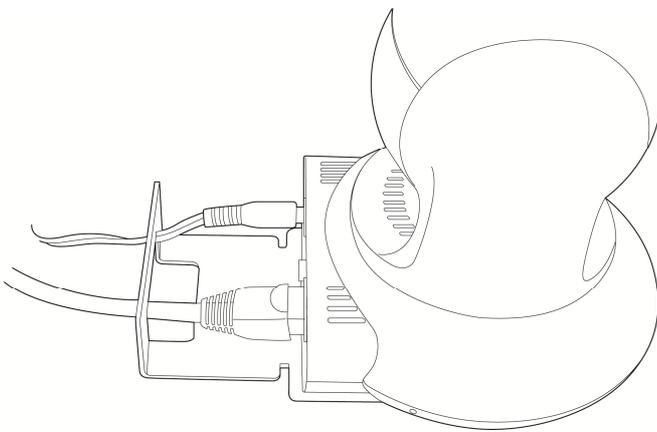
**Step 3:**  
Screw mounting plate B to the network camera via the 2 holes indicated by the arrows.



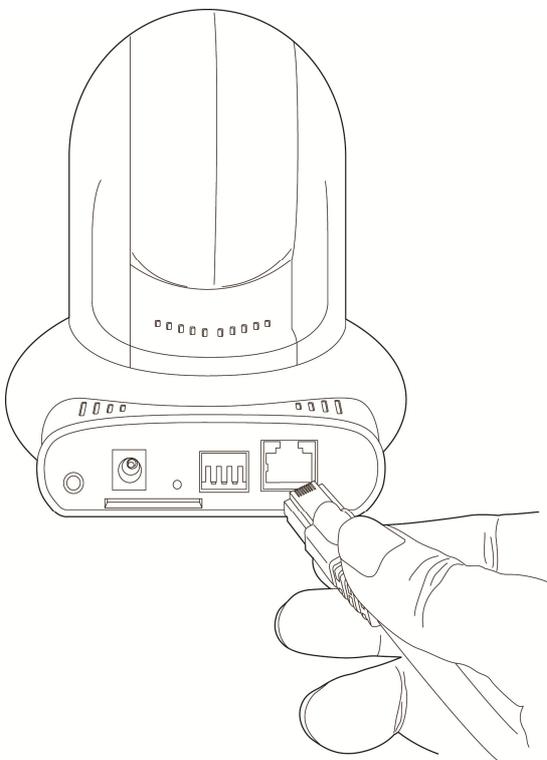
**Step 4:**  
Mount the network camera on to the wall.



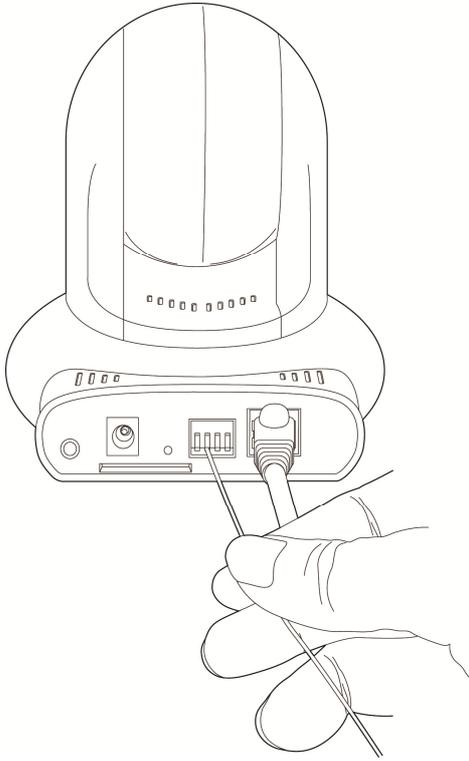
**Step 5:**  
Screw mounting plate A and B together via the hole indicated by the arrow.



**Step 6:**  
When mounted on the wall, the cables can pass through mounting plate A as in the picture.

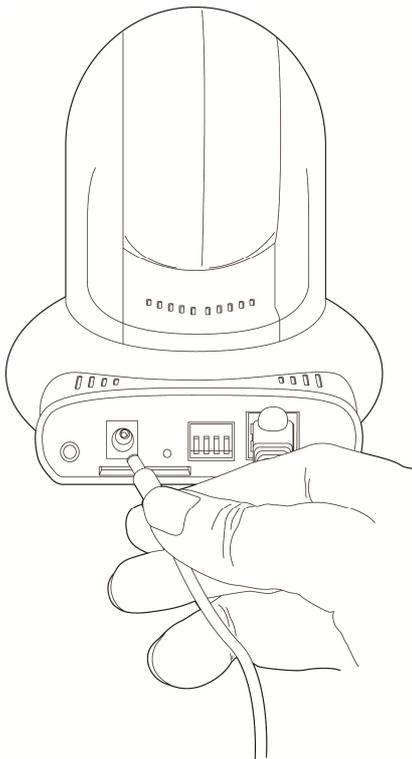


**Step 7:**  
Connect an Ethernet cable to the network camera via the Ethernet port.



**Step 8:**

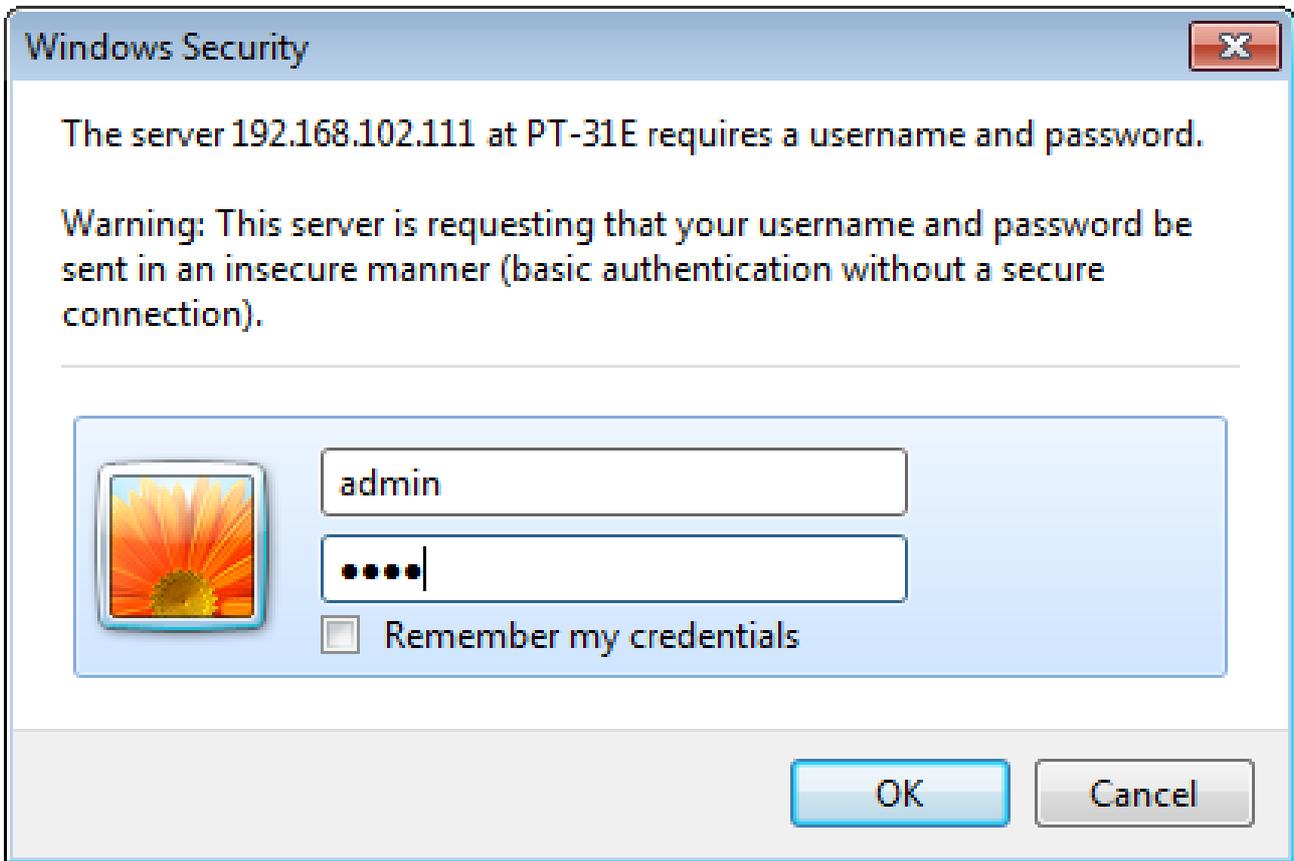
Insert the DI/DO signal cable(s) into the DI/DO port. If you do not have DI/DO accessories, you can skip this step.



**Step 9:**

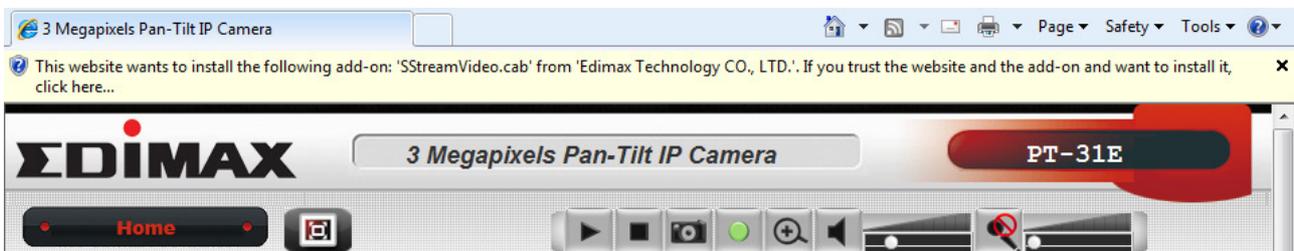
Connect the power adapter to the network camera, then plug the power adapter into a wall socket. The camera's LED lights should light up after a few seconds, and the camera will test its pan and tilt motor within 1 minute. Please do not obstruct the network camera while it is testing its pan and tilt motor.





Step 5:

The browser might ask you to install the ActiveX plug-in. Allow the browser to install the plug-in when prompted or you will not be able to see the videos in the network camera.

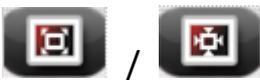


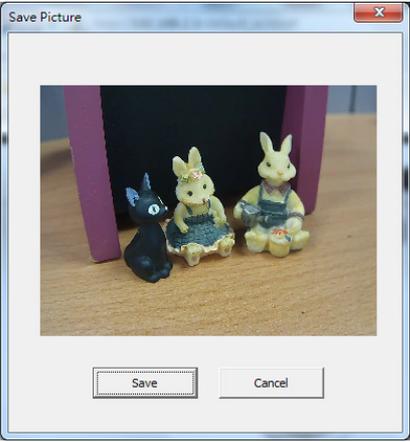
## 2-2 Live Monitoring

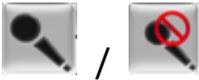
After ActiveX control is installed, you can view IP camera's video by web browser. Just connect to IP camera by web browser and login, then you can see live video from IP camera:



There are various controls on web page, here are descriptions of every control item:

Item	Description
'Home' button	This button is visible in all setup pages of IP camera, and you can go back to live video view by clicking this button when you're in other page.
Stream	Select video stream type: H.264 or MJPEG. H.264 required less network bandwidth and this will help when network connection is slow.
Digital Output (ON / OFF)	Switch digital output interface on or off.
Client Settings	Open 'Client Setting' menu.
Configuration	Open 'Configuration' menu.
Language	Open language menu, you can switch web interface to other language.  Available languages: English, Simplified Chinese, Traditional Chinese
Original size / Fit screen 	Switches live image view between original size (full size: 3M pixels) and fit screen (smaller size).  If you want to see video in detail, switch to original size. If your computer monitor's resolution is not enough and you want to see full image view, switch to fit screen and image size will adjust automatically.
'Connect' button	Start live video view. Live video view will start automatically when you enter the web interface of this IP

	<p>camera.</p>
<p>'Disconnect' button</p> 	<p>Stop live video view.</p>
<p>'Snapshot' button</p>	<p>Take a snapshot or camera video and save image file on your computer. When you click this button, a new window will appear:</p>  <p>Click 'Save' button when you see the image you wish to save, and you'll be prompted to indicate the folder on your computer to save image file. If you changed your mind and don't want to save image file, click 'Cancel'.</p>
<p>'Start Video Record' button</p> 	<p>Click this button to record video and save video file on your computer. You'll be prompted to indicate the folder on your computer to save video file.</p>
<p>'Enable Digital Zoom' button</p> 	<p>This function will enlarge video view digitally, so you can see objects in video in detail.</p> <p><i>Please note that digital zoom uses computer algorithm to enlarge the video and some details may lost. If you need to focus on detail of specific objects in video view, please use optical zoom ring on lens set of IP camera.</i></p>
<p>Enable / Disable mute button</p> 	<p>When mute is enabled (  ), you will not hear the voice from IP camera; If you want to hear voice from IP camera, click this button to disable mute (  ).</p> <p>You can drag the slide bar (  ) beside enable/disable mute button to adjust audio playback volume.</p>

<p>Start / Stop talk Button</p> 	<p>Start or stop playing your voice through IP camera's audio output. When talk is stopped, people at IP camera will not hear you.</p> <p>Please note: you need a microphone connected to your computer, and computer's mixer setting must enable microphone recording, or nothing will be outputted by IP camera.</p>
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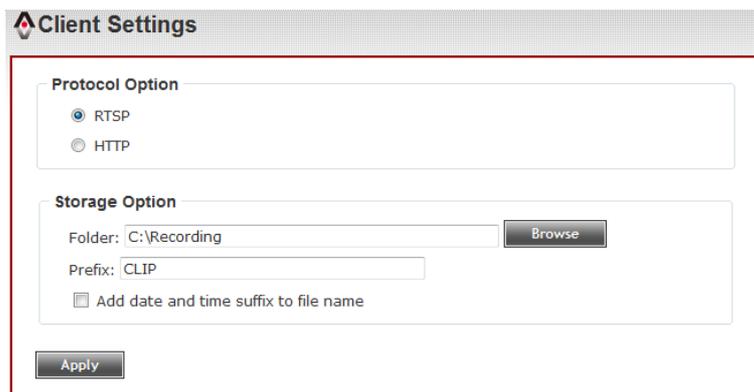
### 2-3 Client Settings

In 'Client Settings' menu, you configure basic IP camera settings like data transfer protocol and data storage folder.

To access 'Client Settings' menu, click 'Client Settings' button on the left.



The following screen will appear:



Here are the descriptions of every setup item:

Item	Description
RTSP	Select this option to use RTSP (Real-Time Streaming Protocol) to transfer video data.
HTTP	Select this option to use HTTP (Hyper-Text Transfer Protocol) to transfer video data.  If you don't know which one you should use, select 'RTSP'.
Folder	Select a folder on your computer to save recorded video. Click 'Browse' button and you'll be prompted to select a folder.
Prefix	When saving video files, the characters you typed in 'Prefix' field will be used as leading characters of video file's name.  For example, the default setting of 'Prefix' is 'CLIP', and video file's named will be 'CLIPxxxx', where xxxx is a 4-digit serial number.
Add date and time suffix to file name	Check this box to add data and time to the ending part of video file's filename, so you can see the date and time the video file is created directly from its filename.

When you finish with above settings, click 'Apply' button to save changes.

## CHAPTER III: ADVANCED CONFIGURATION

If you wish to configure IP camera's settings, you can access IP camera's 'Configuration' menu, which provides various kinds of system setting.

To access configuration menu, click 'Configuration' button on the left.



The 'Configuration' submenu will appear, please pick a setup item you wish to configure.

### 3-1 System

In this menu, you can configure basic IP camera settings like hostname and time.

**System**

System

Host Name

Indicator LED  On  Off

**Date and Time**

Camera Date and Time 01/16/2000 02:06:34

TimeZone (GMT-08:00) Pacific Time (US and Canada)

Daylight Saving

Keep the current date and time

Synchronize with computer time

Synchronize with NTP Server

NTP Server Address

Update Interval

Set Manually

Here are the descriptions of every setup item:

Item	Description
Host Name	Input the IP camera's hostname here, it can be any meaningful words or characters that will help you to identify this IP camera. You can use IP camera's installation location as host name, and this will help you to identify IP camera when you have many IP cameras installed.
Indicator LED	The LED lights located at the back of IP camera is switched on by default. But, if you don't want other people to know the status of this IP camera (so they will know this IP camera is operating etc.), you can select 'Off' and LED lights will be switched off.
Timezone	Select the time zone of residence from dropdown menu to keep correct date and time.
Daylight Saving	If the area you live uses daylight saving, check this box; otherwise do not check this box to keep time correct.
Keep the current date and time	Select this option and date / time setting will not be changed when you click 'Apply' in the page.  You can check 'Camera Date and Time' item in this page to know IP camera's current date and time setting.
Synchronize with computer time	Select this item and IP camera will use your computer's time as its time.
Synchronize with NTP Server	Select this item and IP camera will keep its date and time setting synchronized with specified time server (NTP server). Please input NTP server's IP address or host name in 'NTP Server Address' field, and select time update interval from 'Update Interval' dropdown menu.  <i>Please note that if this IP camera can't access Internet, you must have a time server on local area network, or set the time manually.</i>
Set Manually	Set IP camera's date and time manually. Please set current date and time by 'Date' and 'Time' dropdown menu.

When you finish with above settings, click 'Apply' button to save changes.

### 3-2 Security

In this menu, you can configure IP camera's login account.

There are three kinds of account:

Administrator (Can view IP camera's video and make changes of camera setting)

User (Can view IP camera's video and see settings, but can't make any change)

Guest (Can view IP camera's video only)

There can be multiple users, but only one administrator is allowed, and you can't change administrator's user name (it will always be 'administrator').

The screenshot shows a web interface titled "Security". It is divided into two main sections. The top section, titled "Administrator", contains two input fields for "Password" and "Retype Password", and a "Modify" button. Below these fields is a yellow warning box with the text: "\* Administrator password length must be between 4 and 8 characters." The bottom section, titled "Account\_list", contains a table with one row labeled "New Account" and a "Remove" button. Below the table is a horizontal dashed line. Underneath the line are input fields for "User Name", "Password", and "Retype Password", along with a dropdown menu for "Authority" set to "User" and a "New" button. At the bottom of this section is a yellow warning box with two lines of text: "\* User name length must be between 1 and 32 characters." and "\* Password length must be between 4 and 8 characters."

Here are the descriptions of every setup item:

Item	Description
Password / Retype Password <b>(Administrator)</b>	Input administrator's new password in both 'Password' and 'Retype Password' field, and click 'Modify' button to change administrator's password.  <i>Please note: Don't forget administrator's password! Or you'll need to reset IP camera's all settings to get administrator's</i>

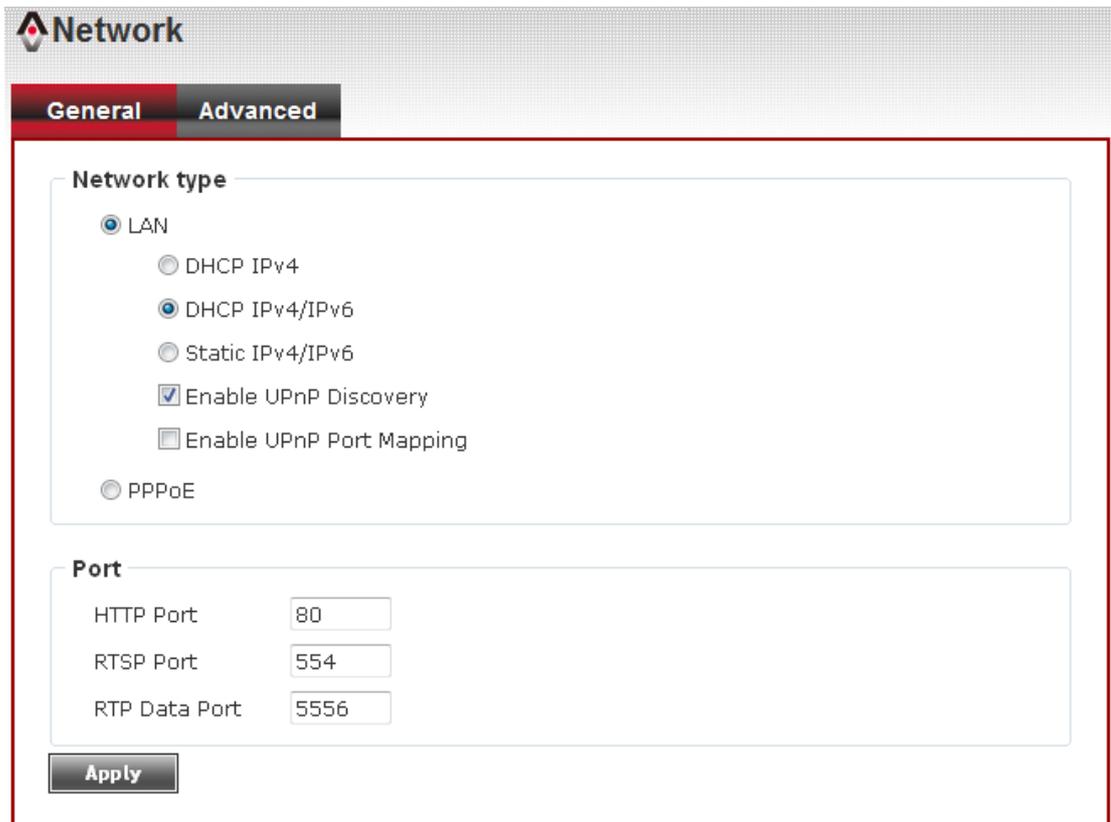
	<i>password recovered.</i>
Account List	Here lists all users existed in IP camera. If you want to remove one user, click it in the list, and then click 'Remove' button.  <i>If no user is existed, 'New Account' message will be shown here.</i>
User Name	Input new user's username here. User name must be greater than 1 character and less than 32 characters.
Password / Retype Password	Input this user's password in both 'Password' and 'Retype Password' field.
Authority	To define this user's access privilege, select 'User' or 'Guest' in dropdown menu.  When you finish inputting new user's information, click 'New' button to create a new user.

### 3-3 Network

You can configure the network camera's general and advanced network settings here.

#### 3-3-1 "General" Setup Page

Setup IP address for this IP camera. This IP camera supports both IPv4 and IPv6 IP address.



Here are the descriptions of every setup item:

Item	Description
LAN	<p>Select this option to assign an IP address to LAN port (or obtain an address from DHCP server automatically).</p> <p>Available options are:</p> <p>DHCP IPv4: Obtain an IPv4 IP address from DHCP server on LAN automatically.</p> <p>DHCP IPv4 / IPv6: Obtain both IPv4 and IPv6 address from DHCP server on LAN automatically.</p> <p>Static IPv4 / IPv6: Assign an IPv4 / IPv6 address to IP camera manually. If you don't have a DHCP server on your local area network, you must use this option to specify an IP address.</p> <p>IP Address(IPv4): Input IPv4 IP address*</p> <p>IP Address(IPv6): Input IPv6 IP address*</p> <p>Prefix Length: Input IPv6 IP address' prefix length (0-128)</p> <p>Subnet Mask: Input subnet mask</p> <p>Gateway: Input gateway address</p> <p>Primary DNS: Input DNS server's IP address</p> <p>Secondary DNS: Input backup DNS server's IP address, you can leave this field blank.</p> <p>* You can leave this field blank, if you only wish to use IPv4 or IPv6 IP address.</p> <p>Enable UPnP Discovery: Check this box to enable other devices on network to discover the presence of this IP camera by UPnP. It's recommended to enable this function.</p> <p>Enable UPnP Port Mapping: When UPnP is enabled, check this box to enable UPnP's port mapping.</p>
PPPoE	<p>Select this option to use PPPoE to connect to network. You have to input PPPoE username and password assigned by network operator to get connected.</p>

HTTP Port	Input IP camera's web connection port number here. When this port number is changed, you need to change web browser's port number you used to connect to IP camera.  For example, IP camera's IP address is 192.168.2.3, and if you changed HTTP port number to 82, please input 'http://192.168.2.3:82' in web browser's address bar to access IP camera's web configuration interface.
RTSP Port	Input RTSP port number. When this port number changes, you must change corresponding settings in external network devices (NVR or CMS software) so they can receive this IP camera's video.
RTP Data Port	Input RTP data port number here.

When you finish with above settings, click 'Apply' button to save changes.

### 3-3-2 "Advanced" Setup Page

You can setup advanced network settings in this page. This page is intended for advanced settings only, and this IP camera will work fine even you don't make any changes to this page.

Here are the descriptions of every setup item:

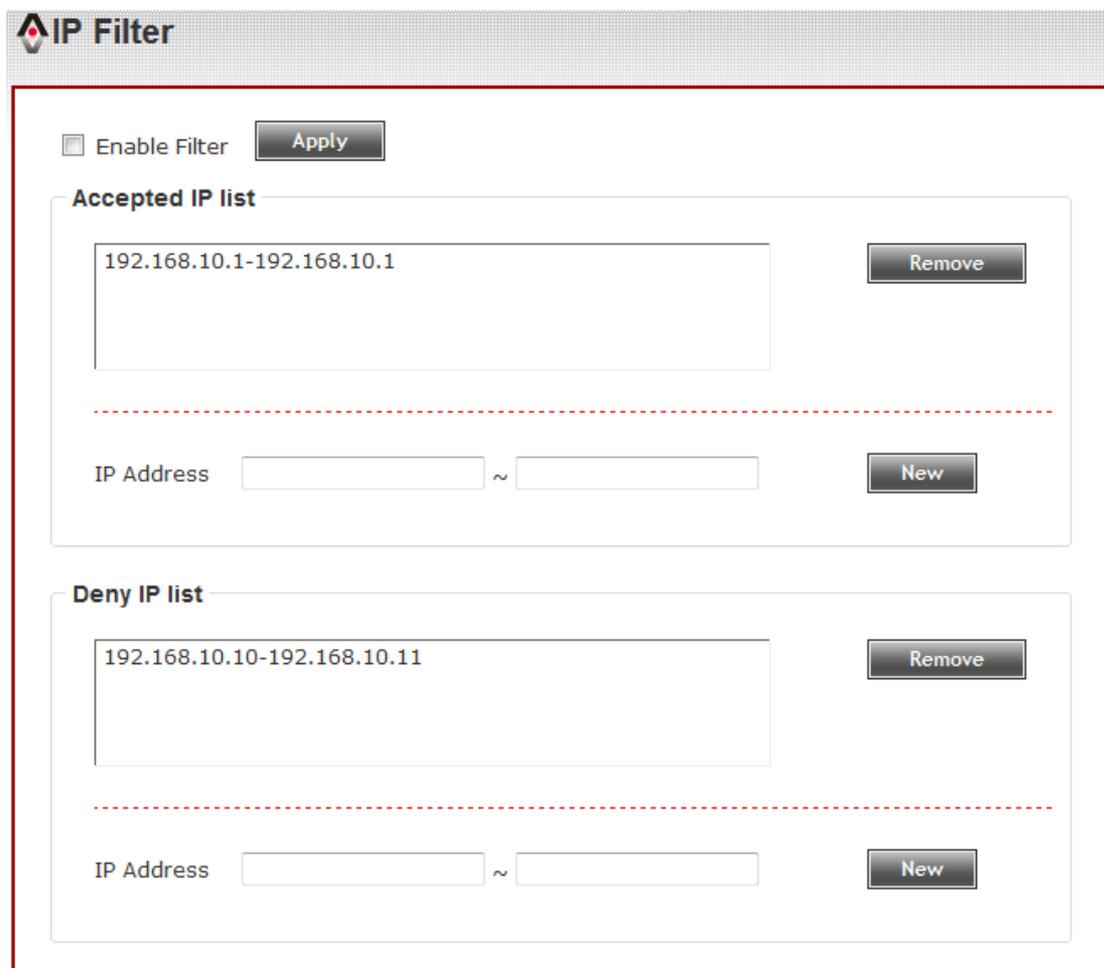
Item	Description
------	-------------

Multicast	<p>Enable video multicast:</p> <p>Multicast Group Address: Input multicast group address here, must be an address between 232.0.0.0 to 232.255.255.255.</p> <p>Multicast video port: Input port number for video multicast here.</p> <p>Multicast RCTP video port: Input port number for RCTP video here.</p> <p>Multicast audio port: Input port number for audio here.</p> <p>Multicast RCTP audio port: Input port number for RCTP audio here.</p> <p>Multicast TTL: Input TTL value for multicast here.</p>
Bonjour	<p>If you're using MacOS and you have Bonjour installed, you can use it to discover this IP camera.</p>
QoS	<p>Enable QoS to improve the data transfer priority of this IP camera (Your local area network must support QoS).</p> <p>You can select Video / Audio's QoS DSCP value (0 to 63), or both video and audio.</p>
DDNS	<p>Enable DDNS support if your ISP assigns dynamic IP address to you. You must register a dynamic IP service first. Currently this IP camera supports DynDNS and TZO dynamic IP service.</p> <p>Provider: Select dynamic IP service provider.</p> <p>Host Name: Input the host name you obtained from dynamic IP service provider.</p> <p>User name: Input user name used to login dynamic IP service provider.</p> <p>Password: Input the password used to login dynamic IP service provider.</p>
HTTPS	<p>Check 'Enable HTTPS' box to enable HTTPS channel to encrypt transferred data. You can also define HTTPS port number in 'HTTPS Port' field if you don't want to use default value '443'.</p>

When you finish, click 'Apply' to save changes.

### 3-4 IP Filter

When this IP camera is directly connected to Internet and not protected by firewall, this function acts like a mini built-in firewall to protect the safety of this IP camera and avoid attacks from hackers.



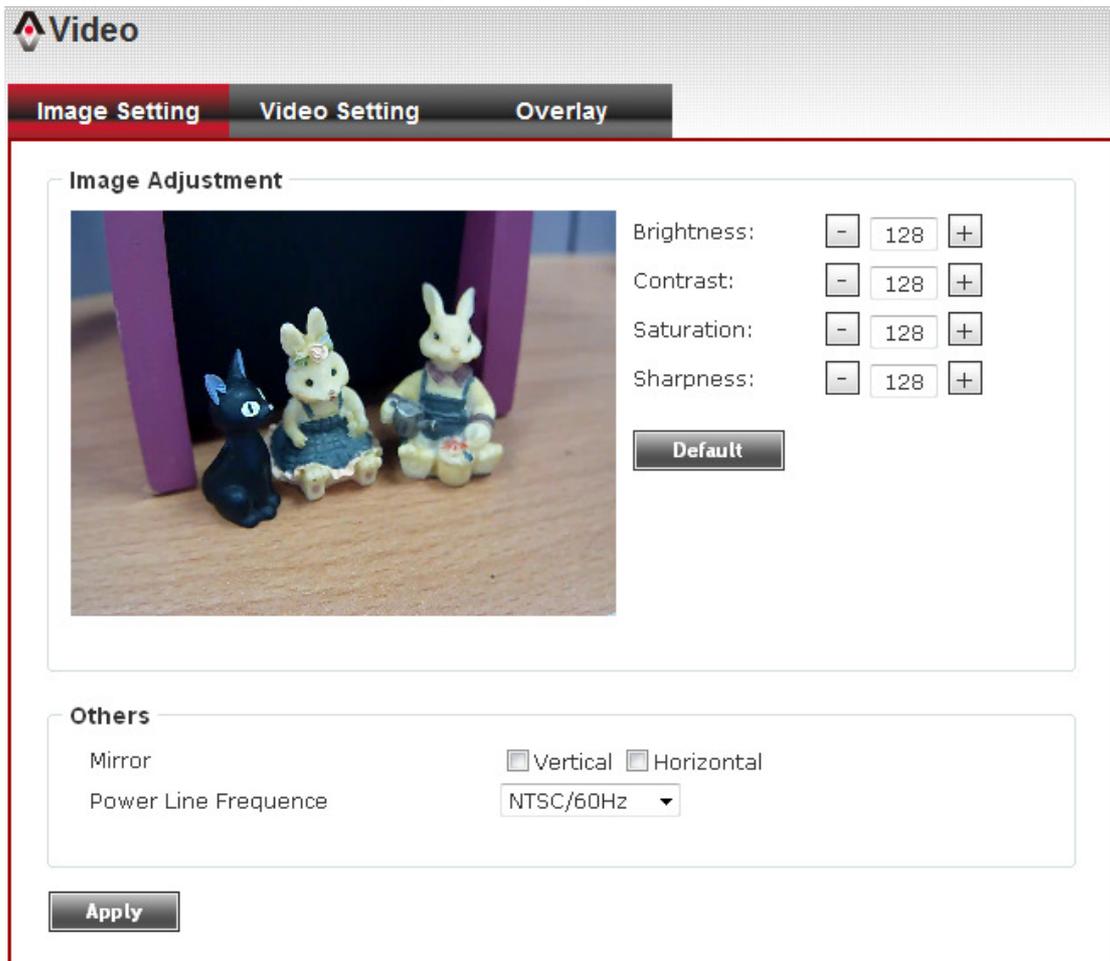
Here are the descriptions of every setup item:

Item	Description
Enable Filter	Check this box to enable IP address filter, uncheck this Box to disable this function.
Accepted IP list	Here lists all IP address that can build connections to this IP camera. If you want to remove a set of IP address from the list, click on the IP address and click 'Remove' button.
IP Address (Accepted IP list)	Input the starting and ending IP address of IP address you wish to accept connections here. IP camera will only accept connections established from these IP address.  If you want to specify one IP address only, input the same IP address in both field.

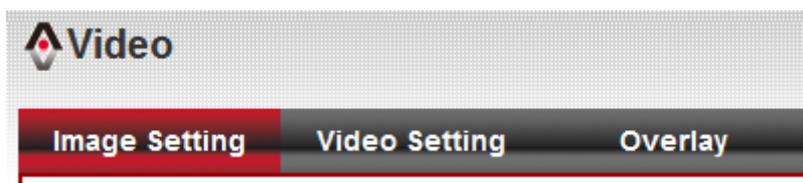
	Click 'New' button to add IP address into accepted IP list.
Deny IP list	Here lists all IP address that can not build connections to this IP camera. If you want to remove a set of IP address from the list, click on the IP address and click 'Remove' button.
IP Address (Accepted IP list)	<p>Input the starting and ending IP address of IP address you wish to deny connections here. IP camera will deny connections established from these IP address.</p> <p>If you want to specify one IP address only, input the same IP address in both field.</p> <p>Click 'New' button to add IP address into deny IP list.</p>

When you finish with above settings, click 'Apply' button to save changes.

### 3-5 Video

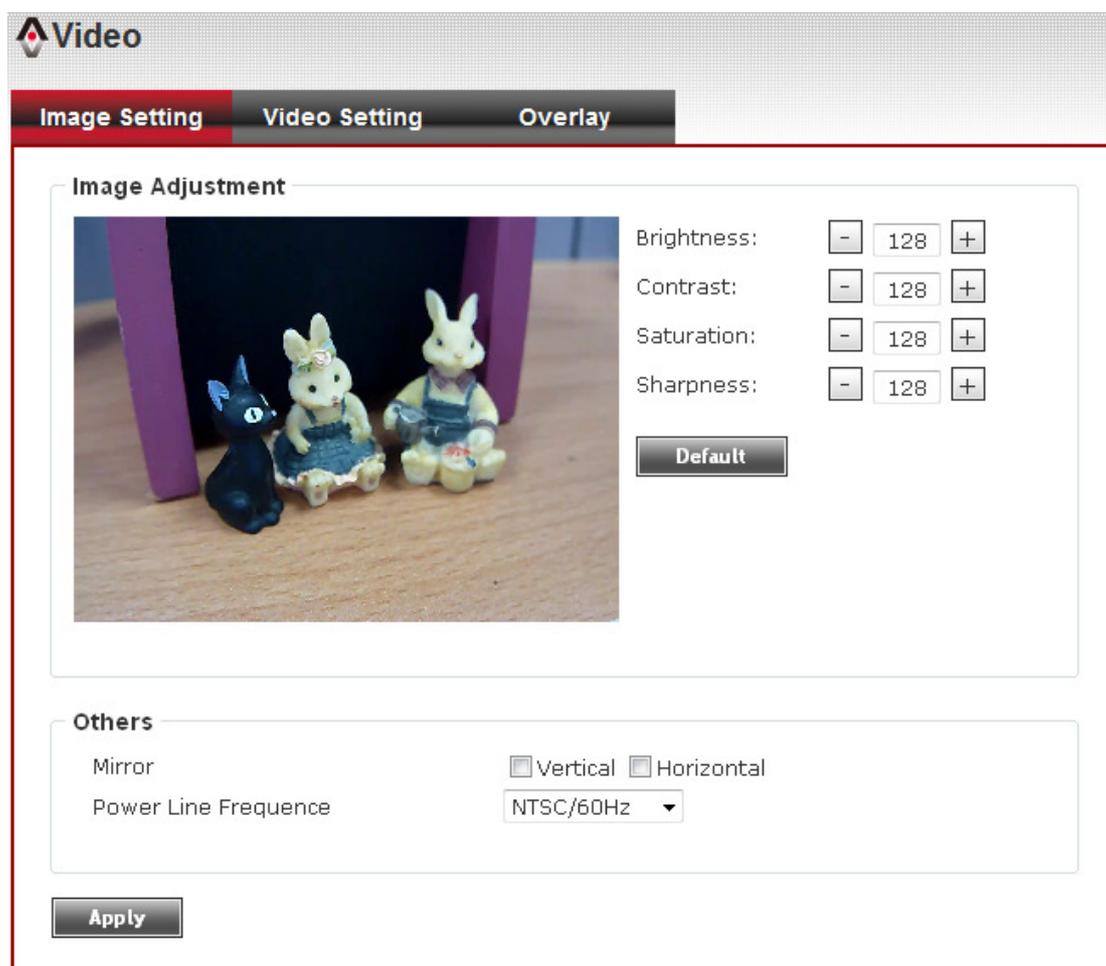


There are 3 sub-menu in this menu: Image Setting, Video Setting, and Overlay. Which can be accessed by tabs on the top:



### 3-5-1 Image Settings

You can adjust the image parameters in this page.



Here are the descriptions of every setup item:

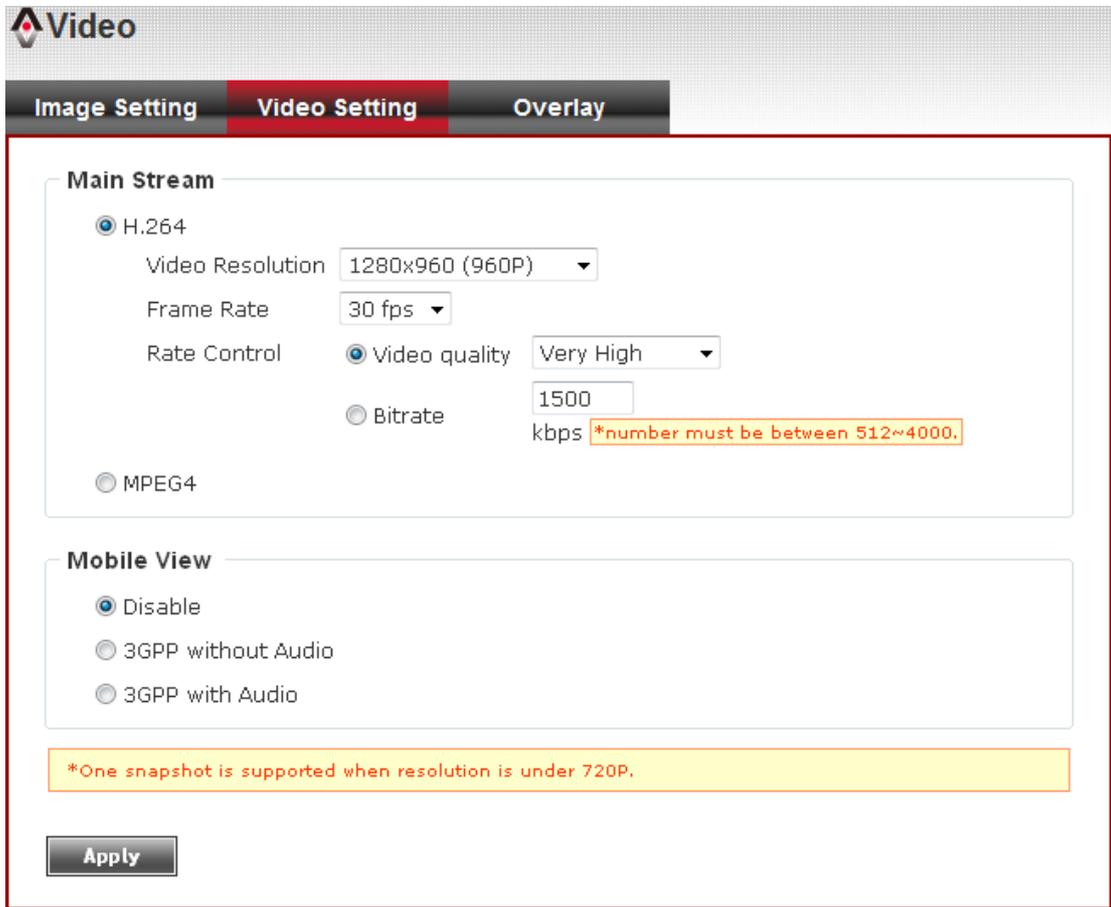
Item	Description
Brightness / Contrast / Saturation / Sharpness	Control the image parameters. Click ' - ' to decrease value, or click ' + ' to increase value. You can also input the value in the field directly.
Default	Set all above values to default value '128'.

Mirror	Check 'Vertical' or 'Horizontal' box to flip the image vertically or horizontally, this will help to correct the orientation of image when IP camera is hanged bottom-up by camera holder.  You can click both 'Vertical' and 'Horizontal' box at the same time.
Power Line Frequency	Select the frequency of power line of the place you're using this IP camera. This will help to reduce the flicker of certain lights in the image.

When you finish with above settings, click 'Apply' button to save changes.

### 3-5-2 Video Settings

You can adjust the video transfer parameters in this page.



Here are the descriptions of every setup item:

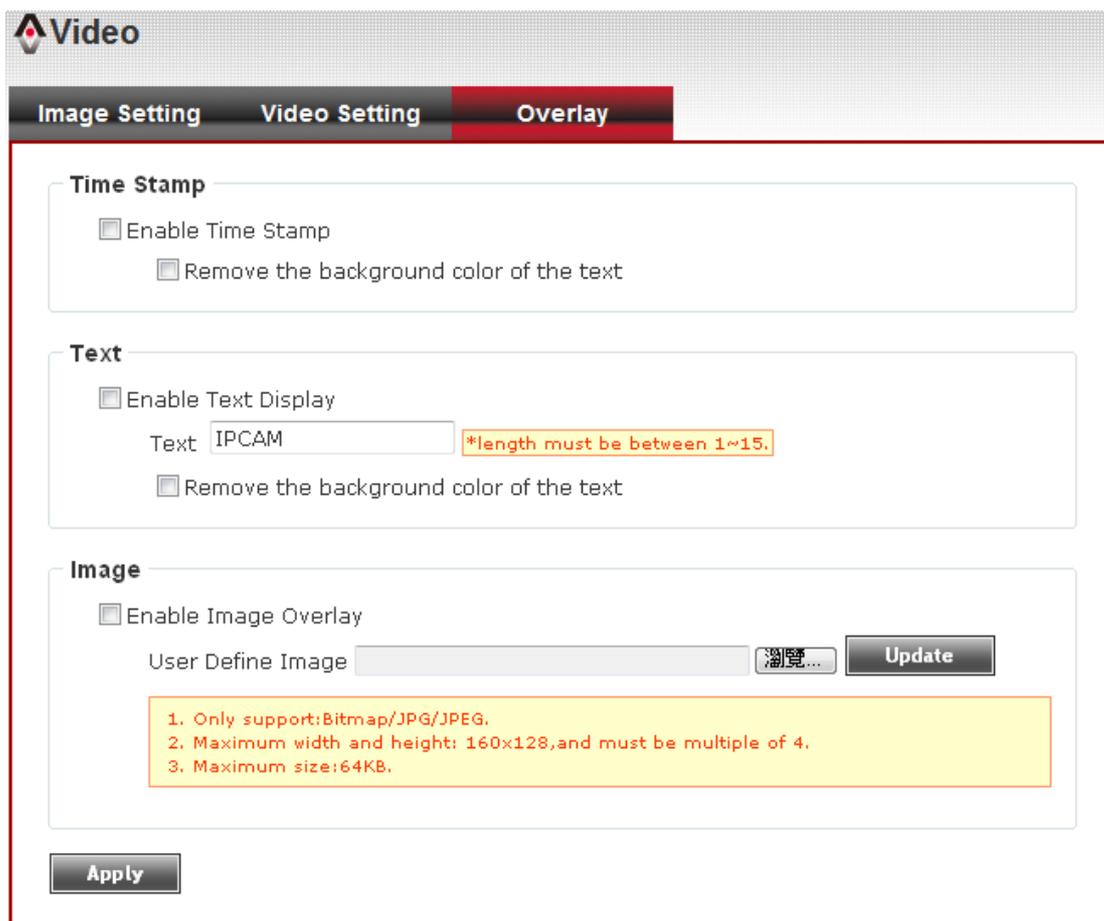
Item	Description
H.264 / MPEG4	Select the compression of main stream: H.264 / MPEG4.
Video Resolution	Select video resolution. - H.264:

	<p>2048x1536 (QXGA) / 1920x1080 (1080p)  1280x960 (960p) / 1280x720 (720p)  720x480 (D1) / 640x480 (VGA)  320x240 (QVGA)</p> <p>- MPEG4:  1920x1080 (1080p) / 1280x960 (960p)  1280x720 (720p) / 720x480 (D1)  640x480 (VGA) / 320x240 (QVGA)</p> <p>Please note that some video resolution is not available when video encoder is 'MPEG4'.</p> <p>When network speed is insufficient, select a lower video resolution will help.</p>
Frame Rate	<p>Select video frame rate. Please note that some frame rate is not available when video encoder is 'H.264'.</p> <p>When network speed is insufficient, select a lower frame rate will help.</p>
Rate Control	<p>Select video bit rate. You can control bit rate by both 'Video quality' and 'Bitrate':</p> <p>Video quality: There are 5 levels of video quality, select 'very high' to improve video quality but consumes more network bandwidth, and select 'very low' will decrease video quality and consumes less network bandwidth.</p> <p>Bitrate: Input video's bit rate directly. It must an integer between 512 and 4000. Higher bit rate provides better video quality, but consumes more network bandwidth.</p>
Mobile View	<p>Select if you want to allow mobile phone's users to view the video of this IP camera:</p> <p>Disable: Disallow mobile phone users to view the video of this IP camera.</p> <p>3GPP without Audio: Use 3GPP format video encoder, without audio. This will help if network bandwidth is insufficient.</p> <p>3GPP with Audio: Use 3GPP format video encoder, with audio.</p>

When you finish with above settings, click 'Apply' button to save changes.

### 3-5-3 Overlay Settings

You can adjust the video overlay parameters in this page.



Here are the descriptions of every setup item:

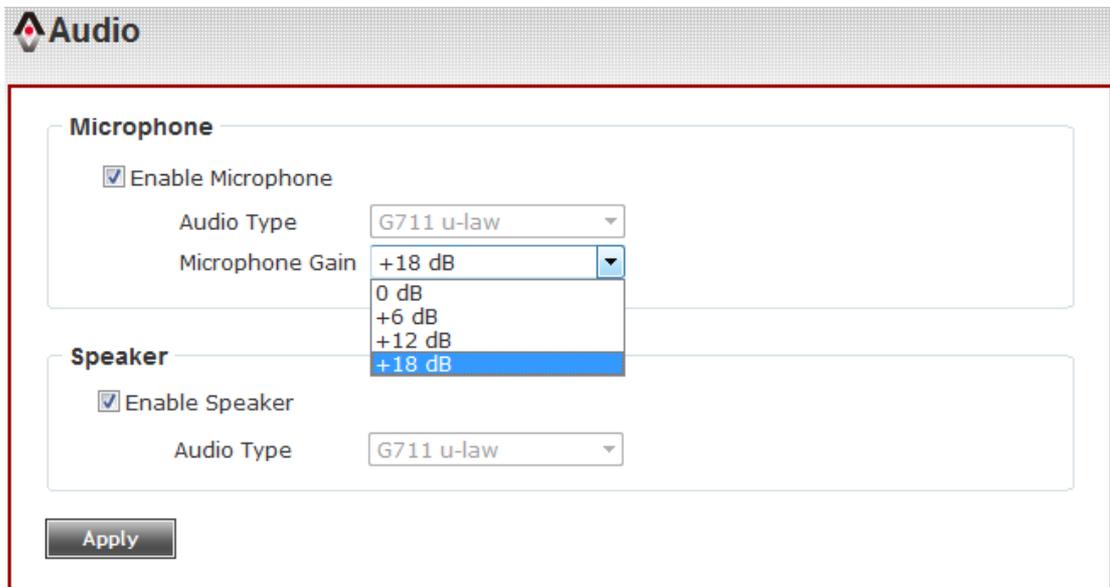
Item	Description
Enable Time Stamp	Check this box to enable overlaying time stamp on video.
Remove the background color of the text (for Time Stamp)	Check this box to remove time stamp's background color. You may find this will help the readability of time stamp text in some cases.
Enable Text Display	Check this box to display certain text on video, this will help when you need to identify certain IP camera when you have a lot of IP cameras.  Please input the text in 'Text' field. You can input up to 15 characters.
Remove the background color	Check this box to remove custom text's background color. You may find this will help the readability of text in some cases.

of the text (Text)	
Enable Image Overlay	<p>Check this box to overlay a specific image on video, so you can show certain text / picture on the video and help people to identify this IP camera.</p> <p>Click 'Browse' button to pick a picture on your computer, then click 'Update' button to use the picture. Please note that there are certain restrictions:</p> <ol style="list-style-type: none"> <li>1) Select .bmp / .jpg / .jpeg image files only.</li> <li>2) Image's resolution should be less than 160 x 128, and can be divided by 4.</li> <li>3) Do not upload image files that size is greater than 64KB.</li> </ol>

When you finish with above settings, click 'Apply' button to save changes.

### 3-6 Audio

You can adjust audio input / output parameters here.



Here are the descriptions of every setup item:

Item	Description
Enable Microphone	Check this box to enable microphone. If you don't want to hear voice from IP camera, you can uncheck this box to disable it.

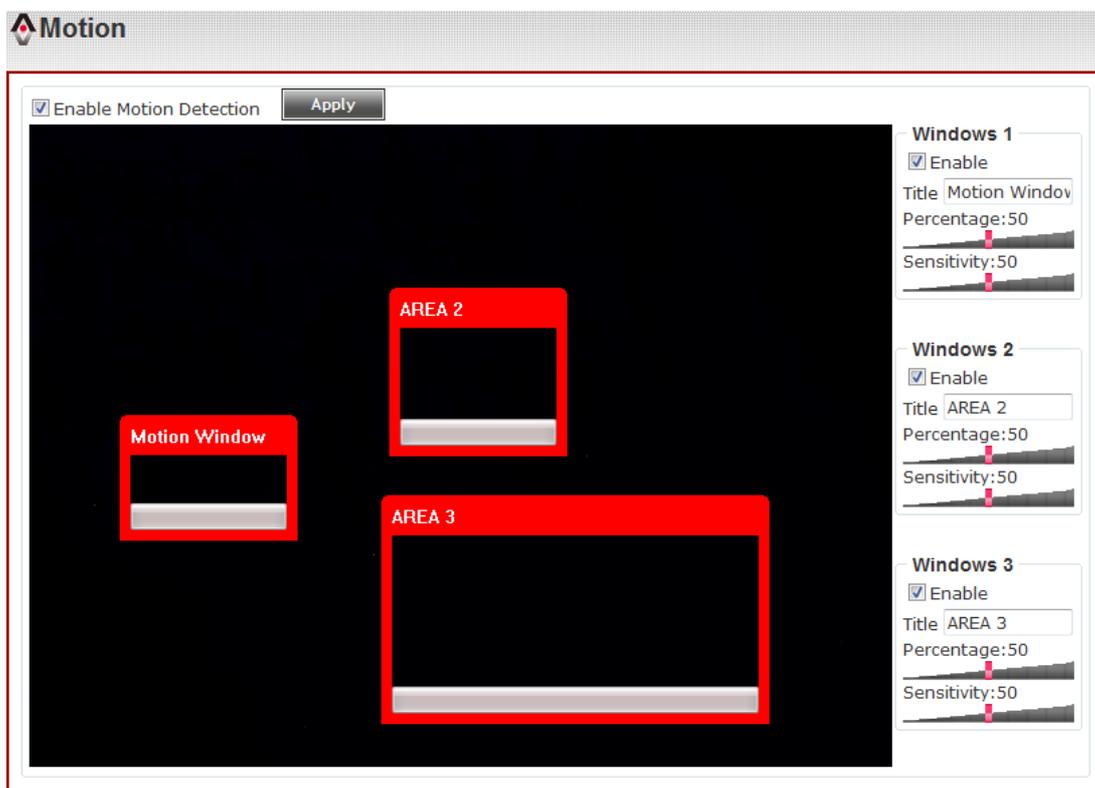
Audio Type (Microphone)	The format is fixed as G.711
Microphone Gain	If the voice received by microphone is too loud or silent, you can use this function to improve voice volume, so you can hear voice from IP camera more clearly.
Enable Speaker (Speaker)	Check this box to enable speaker. If you don't want people at IP camera to hear you, you can uncheck this box to disable it.
Audio Type (Speaker)	The format is fixed as G.711

When you finish with above settings, click 'Apply' button to save changes.

### 3-7 Motion Detection

This IP camera is capable to detect object's motion, so IP camera will only record when there's motion and save disk storage space.

Motion detection is performed by examine the movement of objects in rectangular motion detection area. You can define up to 3 motion detection areas.



Here are the descriptions of every setup item:

Item	Description
Enable Motion Detection	Check this box to enable motion detection.
Enable (Window 1 to Window 3)	<p>Check this box to enable this motion detection window. You can select window 1 to 3 to enable up to 3 motion detection windows. When a motion detection window is enabled, a rectangular will appear on camera's view, with its title on the top.</p> <p>To move / resize a motion detection window:</p>  <p>Move: Use the mouse to drag the title text.</p> <p>Resize: Use the mouse the drag the four corners (upper-left/right, lower-left/right) to resize it. If you only want to adjust width or height, drag the four sidebars (top, bottom, left, and right).</p>
Title (Window 1 to Window 3)	<p>Input characters in title field to change motion detection area's title text so you can identify it.</p> <p>Please note that you have to click 'Apply' button and the text will change.</p>
Percentage	Select the percentage of pixel change that will trigger motion detection alert. Select a lower percentage and you can detect tiny changes in motion detection area.
Sensitivity	Select the sensitivity level that will trigger motion detection alert. Select a higher sensitivity and you can detect tiny changes in motion detection area.

When you finish with above settings, click 'Apply' button to save changes.

### 3-8 Pan, Tilt, Zoom Control

If you mount the IP camera on pan-tilt camera cradles that support pan-tilt control via RS-485 connection, you can use this function to control pan-tilt camera cradle so you can control the orientation of IP camera from remote place.

#### 3-8-1 “RS-485” Setup Page

In this page, you can setup advanced RS-485 settings like auto pan-tilt control and patrol.

**Advanced**

**Setting**



Pan Speed:

Tilt Speed:

Patrol:

**Preset Setting**

Preset list

- 1:left-top
- 2:mid-top
- 3:right-top
- 4:right-mid
- 5:right-bottom
- 6:mid-bottom
- 7:left-bottom
- 8:left-mid

---

Description

Dwelling(sec)

\* Description can only accept 16 characters.  
\* Dwelling must be under 30 seconds.

**Patrol Setting**

Preset list

- 1:left-top
- 3:right-top
- 5:right-bottom

Patrol

- 2:mid-top
- 4:right-mid
- 6:mid-bottom
- 7:left-bottom
- 8:left-mid

Here are the descriptions of every setup item:

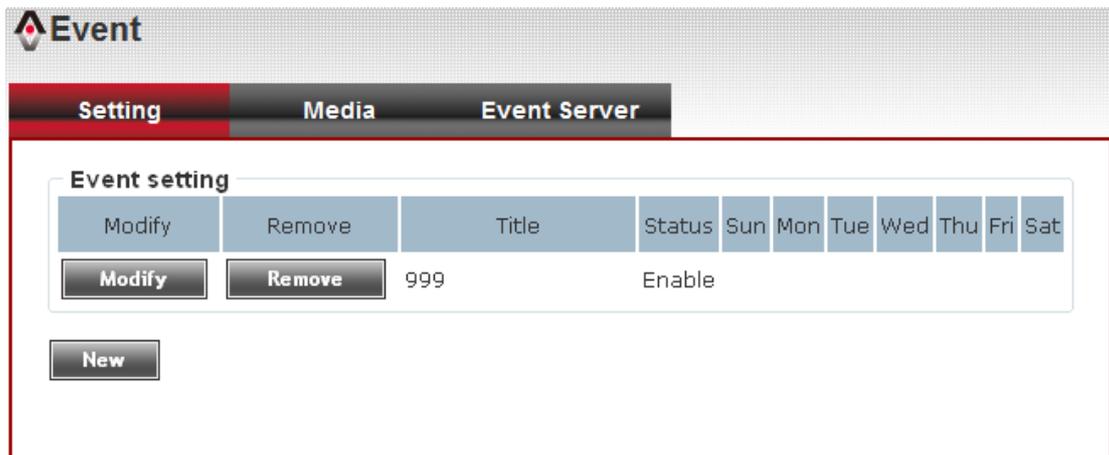
Item	Description
<p data-bbox="140 297 376 331">Pan-tilt control</p> 	<p data-bbox="536 297 1430 383">Control pan-tilt of camera by click up, down, left, right and upper-left/right, lower-left/right.</p>
<p data-bbox="140 685 304 719">Pan Speed</p>	<p data-bbox="536 685 1390 770">Adjust the pan speed. It should be an integer between 1 (slower) to 10 (faster).</p>
<p data-bbox="140 781 296 815">Tilt speed</p>	<p data-bbox="536 781 1378 866">Adjust the tilt speed. It should be an integer between 1 (slower) to 10 (faster).</p>
<p data-bbox="140 878 288 911">Set home</p>	<p data-bbox="536 878 1410 911">Click this button to set current position as home position.</p>
<p data-bbox="140 931 312 965">Calibration</p>	<p data-bbox="536 931 1437 1111">To calibration its direction and focus to its “Factory Default Position”, to ensure its preset position will be located at the correct position without deviation after a period of usage.</p>
<p data-bbox="140 1126 296 1160">Preset list</p>	<p data-bbox="536 1126 1406 1301">This IP camera supports up to 8 preset points. You can move camera to preset point, and camera will stop there for a specific amount of time. You can specify up to 8 preset points.</p> <p data-bbox="536 1361 858 1395">To set a preset point:</p> <p data-bbox="536 1456 1445 1541">Move camera to the preset point you wish to set by pan-tilt control.</p> <p data-bbox="536 1601 1161 1635">Select a preset point from the list (1 to 8)</p> <p data-bbox="536 1695 1310 1780">Input a text description for this preset point (this is optional, up to 16 characters).</p> <p data-bbox="536 1841 1098 1874">Input dwelling time (0 to 30 seconds)</p> <p data-bbox="536 1935 1123 1968">Click ‘Set’ to save current preset point.</p> <p data-bbox="536 2029 1430 2114">You can click ‘GO Preset’ button to move camera to preset point, or click ‘Remove’ to clear this preset point setting.</p>

Patrol Setting	<p>When you have 2 or more preset points, you can make camera to move between these points, this function is called as 'Patrol'.</p> <p>To configure patrol, please setup preset points first, then select preset points from 'Preset list' and click  button to add it to 'Patrol' list; to remove a preset point from patrol list, select it in patrol list and click  button.</p> <p>You can also adjust the order or preset points in patrol list: select a preset point and click  or  button.</p>
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When you finish, click 'Apply' button.

### 3-9 Event

When there's an event, you can use this setup page to define what IP camera should do, like send an Email or trigger digital output to activate external alarm.



There are three setup pages:



Setting: Define a new event and manage events.

Media: Define what kind of media file should be saved on designate media.

Event Server: Define the details of remote server.

Please refer to following chapters for detailed instructions.

### 3-9-1 Settings

This page lists all existing events. You can click ‘Modify’ button to edit an existing event, or ‘Remove’ to delete an existing event.

**Setting**

Enable Setting

Title

**Trigger**

Motion Detection

Digital Input 1

Digital Input 2

**Schedule Time**

Enable Schedule Time

Sun  Mon  Tue  Wed  Thu  Fri  Sat

Time:  Always

From  :  To  :

**Action**

Enable FTP

Enable EMAIL

Enable Samba( Net Storage )

Enable SD CARD

Trigger digital output for  second(s)

**Apply**

To add a new event, click ‘New’ button and the descriptions of every setup item is listed below:

Item	Description
Enable Setting	Check this box to enable this event. If you just want to disable this event temporarily, you can uncheck this box to keep this event and disabling while not deleting it.
Title	Input any description text for this event so you can identify it quickly. You can use alphabets, numbers, and symbols include: !\$-.@^_~ (no spaces allowed).

Motion Detection	Check this box and this event will be activated when one of motion detection window detects motion.
Digital Input 1 ~ 2	Check this box and this event will be activated when digital input 1 or 2's input signal is high or low (select from dropdown list).
Enable Schedule Time	Check this box and this event will be activated when designated weekday and time is reached.  You also have to check weekday box(es), and select time from dropdown list. If you select 'Always' as time, this event will be activated during all the day.
Enable FTP	Check this box and IP camera will save file on FTP server (refer to 'FTP Server' setting in 'Event Server' tab) when this event is activated.
Enable EMAIL	Check this box and IP camera will send an Email to designated recipient address (refer to 'SMTP Server' setting in 'Event Server' tab) when this event is activated.
Enable Samba (Net Storage)	Check this box and IP camera will save file on samba server (refer to 'Samba Server' setting in 'Event Server' tab) when this event is activated.
Enable SD CARD	Check this box and IP camera will save file on SD card when this event is activated. A working SD card must be inserted into IP camera in advance.
Trigger digital output for xx second(s).	Check this box and IP camera will trigger digital out to 'high' state for xx seconds when this event is activated, where 'xx' seconds must be defined by the dropdown list.

### 3-9-2 Media

You can define what kind of media file should be saved on designated media.

**Media**

One Snapshot

H.264 Video Maximum Size:3 Megabytes

Pre Event  second(s)

Post Event  second(s)

**Apply**

Here are the descriptions of every setup item:

Item	Description
One Snapshot	Save a picture file when event is triggered.
H.264 Video	<p>Save a H.264 video clip. You can also select the recording length before and / or after the time when event is triggered in 'Pre Event' and 'Post' Event'.</p> <p>For example, if you set 'Pre Event' to '5' and 'Post Event' to 5', and an event is triggered at 14:10:30, then the video file will be 15 seconds long, starting from 14:10:25 to 14:10:35.</p> <p><b><i>Tips: You may want to know what happened before event is triggered in many cases, especially when object is outside of motion detection window.</i></b></p> <p><b><i>Note: If the "Pre Event" set to "0" second, the "Post Event" cannot set to "0" second.</i></b></p>

When you finish with above settings, click 'Apply' button to save changes.

### 3-9-3 Event Server

You can define the details of remote media server: FTP (File), SMTP (Email), and Samba (File).

***A Samba server can be any computer running windows operating system with network neighbor function enabled. Many stand-alone network file server also support samba server function.***

Here are the descriptions of every setup item:

Item	Description
Enable FTP Server	<p>Check this box to enable FTP server upload.</p> <p> <input checked="" type="checkbox"/> Enable FTP Server            FTP Server <input type="text"/>            Port <input type="text" value="21"/>            User Name <input type="text"/>            Password <input type="text"/>            File Path Name <input type="text"/>  <input type="checkbox"/> Enable Passive Mode  <input type="button" value="Test FTP"/> </p> <p>FTP Server: Input FTP server's IP address or hostname.</p> <p>Port: Input FTP server's port number. In most cases it should be default value '21'.</p>

	<p>User Name: Input FTP server's username.</p> <p>Password: Input FTP server's password.</p> <p>File Path Name: Input the path where you want to save file on FTP server, like 'upload/record'. If you want to save file on this FTP user's home directory, you can leave this field blank.</p> <p>Enable Passive Mode: Check this box to force IP camera to communicate with FTP server in passive mode (Some FTP Server may only work when you check this box, while others don't).</p> <p>Test FTP: Click this button to test FTP server settings above immediately.</p>
SMTP Server	<p>Check this box to enable Email send.</p> <p><input checked="" type="checkbox"/> Enable SMTP Server</p> <p>SMTP Server <input type="text"/></p> <p>Port <input type="text" value="25"/></p> <p>Sender Email Address <input type="text"/></p> <p>Receiver #1 Email Address <input type="text"/></p> <p>Receiver #2 Email Address <input type="text"/></p> <p>Subject <input type="text" value="PT-31E"/></p> <p><input type="checkbox"/> Authentication</p> <p>    User Name <input type="text"/></p> <p>    Password <input type="text"/></p> <p><input type="checkbox"/> Requires SSL Encryption</p> <p><input type="checkbox"/> STARTTLS</p> <p><input type="button" value="Test SMTP"/></p> <p>SMTP Server: Input SMTP server's IP address or hostname.</p> <p>Port: Input SMTP server's port number. In most cases it should be default value '25'.</p> <p>Sender Email Address: Input the sender's email address that will appear in the Email send by IP camera. This will help you to identify the Email sent by this IP camera, and may help when you have anti-spam software installed (you can set this Email address</p>

to 'White List' in your anti-spam software)

Receiver #1 Email Address: Input primary recipient's Email address. This field is required.

Receiver #2 Email Address: Input backup recipient's Email address. This field is optional.

Subject: Input Email title that will appear in the Email send by IP camera. This will help you to identify the Email sent by this IP camera.

Authentication: Check this box when authentication is required by the Email server you're using. You also need to input Email server's username and password in corresponding field.

Requires SSL Encryption: If your Email server required SSL encryption, check this box. Please note that some Email server uses different port number than standard port 25 when SSL encryption is used.

STARTTLS: If your Email server required STARTTLS encryption, check this box. Please note that some Email server uses different port number than standard port 25 when STARTTLS encryption is used.

Test SMTP: Click this button to test SMTP server settings above immediately.

### Samba Server

Check this box to enable Samba server file upload.

Enable Samba Server

Samba Server Address

Path

User Name

Password

Samba Server Address: Input Samba server's IP address or hostname.

Path: Input the path where you want to save file on Samba

	<p>server, like 'upload/record'. If you want to save file on this user's home directory, you can leave this field blank.</p> <p>User Name: Input Samba server's username.</p> <p>Password: Input Samba server's password.</p> <p>Test SMB: Click this button to test Samba server settings above immediately.</p> <p><b><i>Tips: Some samba server does not have username and password check, you can just input samba server address and path to access the file storage space.</i></b></p>
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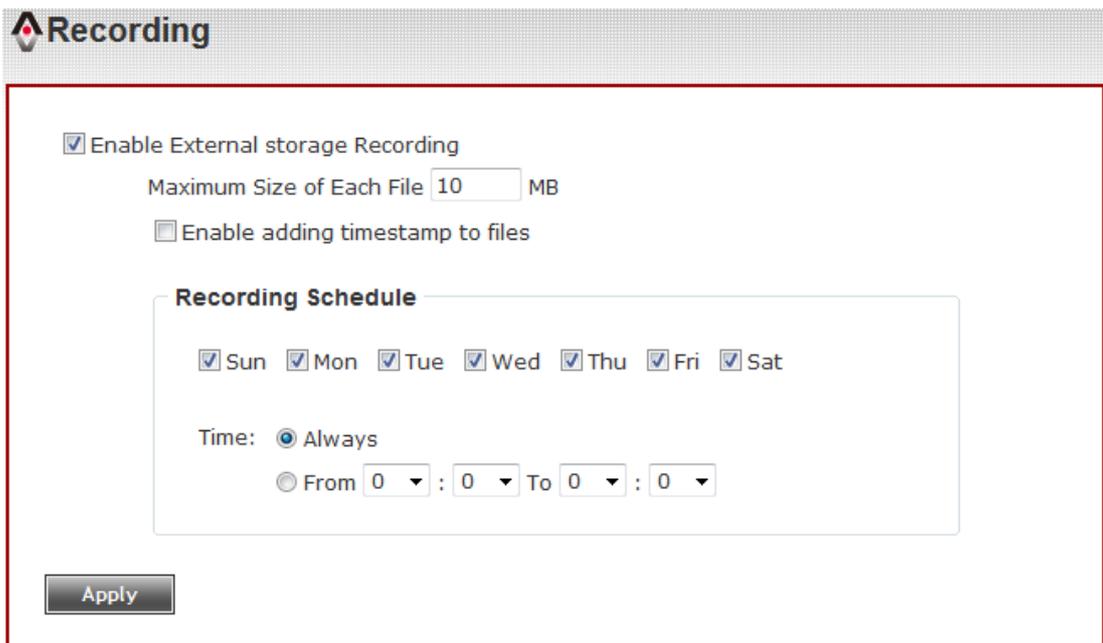
When you finish with above settings, click 'Apply' button to save changes.

### 3-10 SD Card Storage

When a SD card is inserted into IP camera, you can save video files on it.

**Note:**

1. ***Be sure that the SD Card format should be FAT32. The NTFS format cannot be supported by this camera.***
2. ***Unlink motion detection, this function will record video at specified time period on selected weekday(s).***



Here are the descriptions of every setup item:

Item	Description
Enable External storage Recording	Check this box to record video on SD card.
Maximum Size of Each File	Input the maximum size of every video file from 1MB to 50MB. IP camera will start a new video file when a recording video file reaches the size limit stated here.
Recording Schedule	Define the recording schedule. You can check Sun to Sat boxes to represent a weekday, and specify time period in 'From' and 'To' field. Select 'Always' to record 24 hours in selected weekday(s).

When you finish with above settings, click 'Apply' button to save changes.

### 3-11 Log

You can check the usage log of IP camera here.

**Log**

**System Log**

Item	Date and Time	Event
1.	06/12/2011 19:13:53	admin login on 1.677728.705901.707517
2.	06/12/2011 18:09:04	[EVENT MGR]: reload config file
3.	06/12/2011 18:07:43	[EVENT MGR]: reload config file
4.	06/12/2011 18:07:43	admin login on 1.677728.705901.707531
5.	06/12/2011 18:02:08	[EVENT MGR]: reload config file
6.	06/12/2011 17:37:25	admin login on 1.564392.592565.564392
7.	06/12/2011 11:36:50	admin login on 1.564392.592565.593691
8.	06/12/2011 11:06:50	admin login on 1.564392.592565.594071
9.	06/12/2011 09:37:11	admin login on 1.602008.630181.602008
10.	06/12/2011 09:03:02	admin login on 1.461328.489501.490750
11.	06/12/2011 09:01:54	[RTSP SERVER]:Start one session<192.168.94.101>
12.	06/12/2011 09:01:53	[RTSP SERVER]:Stop one session<192.168.94.101>
13.	06/12/2011 05:01:47	[NET]:UPnP/AV Disable
14.	12/31/1969 16:00:50	[RTSP SERVER]:Start one session<192.168.94.101>
15.	12/31/1969 16:00:49	[RTSP SERVER]:Stop one session<192.168.94.101>
16.	12/31/1969 12:00:43	[NET]:UPnP/AV Disable
17.	12/31/1969 21:33:23	admin login on 1.611792.639965.641420
18.	12/31/1969 16:00:55	Sync with NTP server: [1969/12/31 16:00:55]
19.	12/31/1969 16:00:51	[RTSP SERVER]:Start one session<192.168.94.101>
20.	12/31/1969 16:00:49	[RTSP SERVER]:Stop one session<192.168.94.101>

In this page, you can click:

First page / Final page: Jump to first / final page of log.

Previous / Next: Jump to previous or next page of log.

Remove: Clear log. You'll be prompted for confirmation.

### 3-12 Device Info

You can check the information and network settings of this IP camera. These information are very useful when you need to repair or fix the problem of this IP camera.

An example of device info page look like this:



**Device info**

**Basic**

Camera Name	PT-31E
Firmware version	1.01.59
MAC	d4:a4:25:00:1b:1e
Camera Date and Time	01/16/2000 02:27:33

**H.264**

Video Resolution	1280x960 (960P)
Video Quality	Very High
Frame Rate	30 fps

**Audio**

Microphone In	Disable
Microphone Gain	+18 dB
Speaker Out	Disable

**Mobile View**

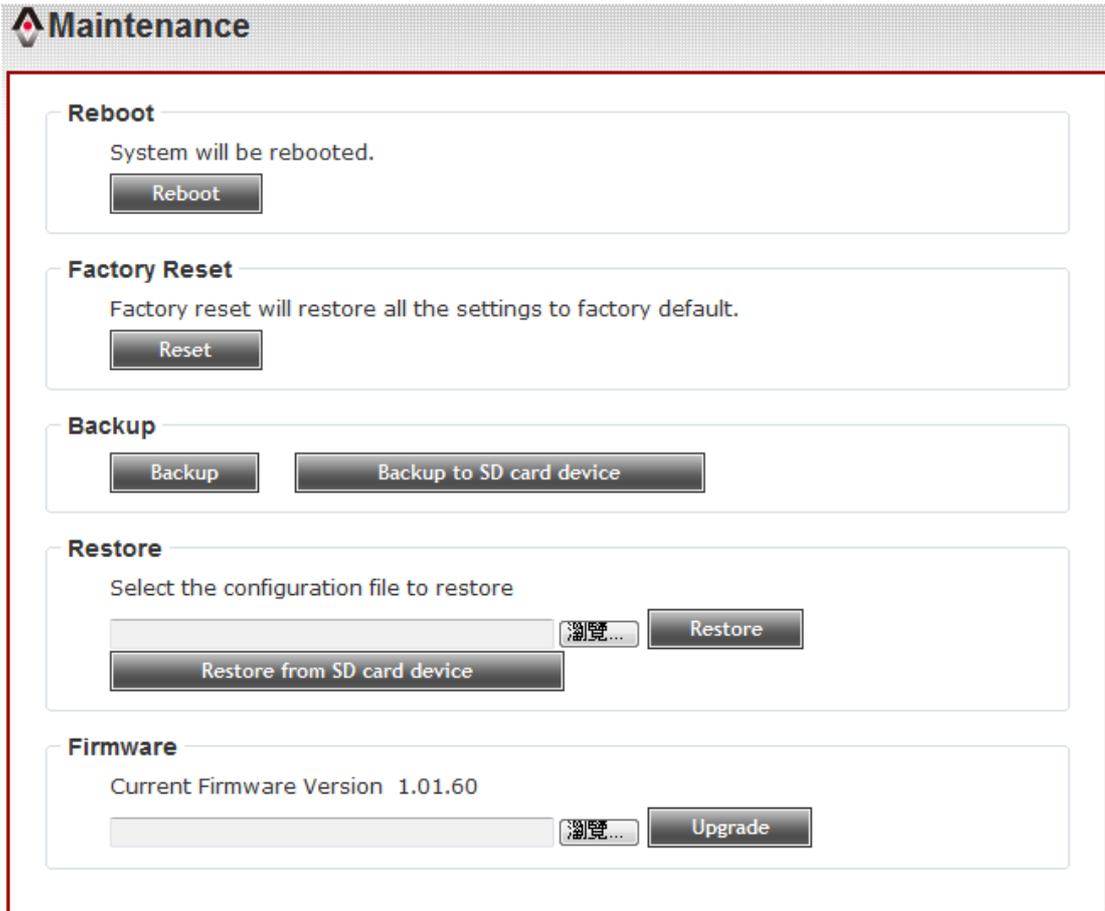
3GPP Enable	Disable
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**Network**

IP MODE	DHCP IPv4/IPv6
IP Address(IPv4)	192.168.2.3
IP Address(IPv6)	
Subnet Mask	255.255.255.0
Gateway	192.168.2.1
Primary DNS	255.255.255.255
Secondary DNS	0.0.0.0

### 3-13 Maintenance

You can do some maintenance job about this IP camera here.



Here are the descriptions of every setup item:

Item	Description
Reboot	Click this button to reboot the IP camera. This function is useful when you find IP camera is not working properly.
Reset	Clear all settings of IP camera and reset to factory default setting.
Backup	Backup IP camera's setting and save it on your computer.
Backup to SD card device	Backup IP camera's setting and save it on SD card. A SD card must be inserted into SD card slot when you click this button, or you'll receive an error message.
Restore	Restore a previously-saved configuration file saved on your computer. Click 'Browse' button to select a file on your computer first, then click 'Restore' button.
Restore from SD card device	Restore IP camera's configuration which is previously-saved on SD card.
Upgrade	Upgrade IP camera's firmware. Click 'Browse' button to select a firmware image file on your computer first, then click 'Upgrade' button.

### 3-14 Language

You can change the display language of web interface.

Click 'Language' button and select one language. More languages may available in latest firmware file.



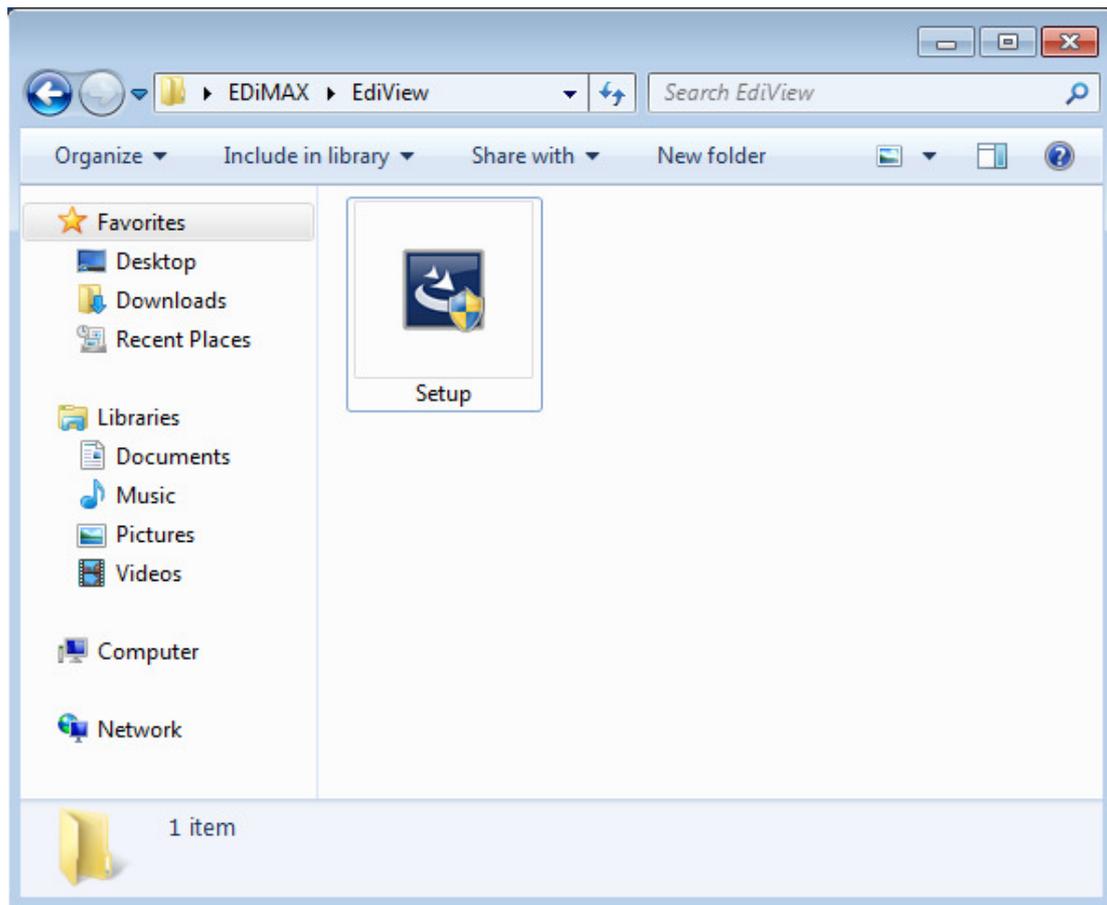
## CHAPTER IV: EDIVIEW 64-CHANNEL VIEWER

### 4-1 EdiView Installation

Please follow the following instructions to setup EdiView on Windows Vista / 7 operating system.

**Please note: You must login as system administrator when you're installing EdiView .**

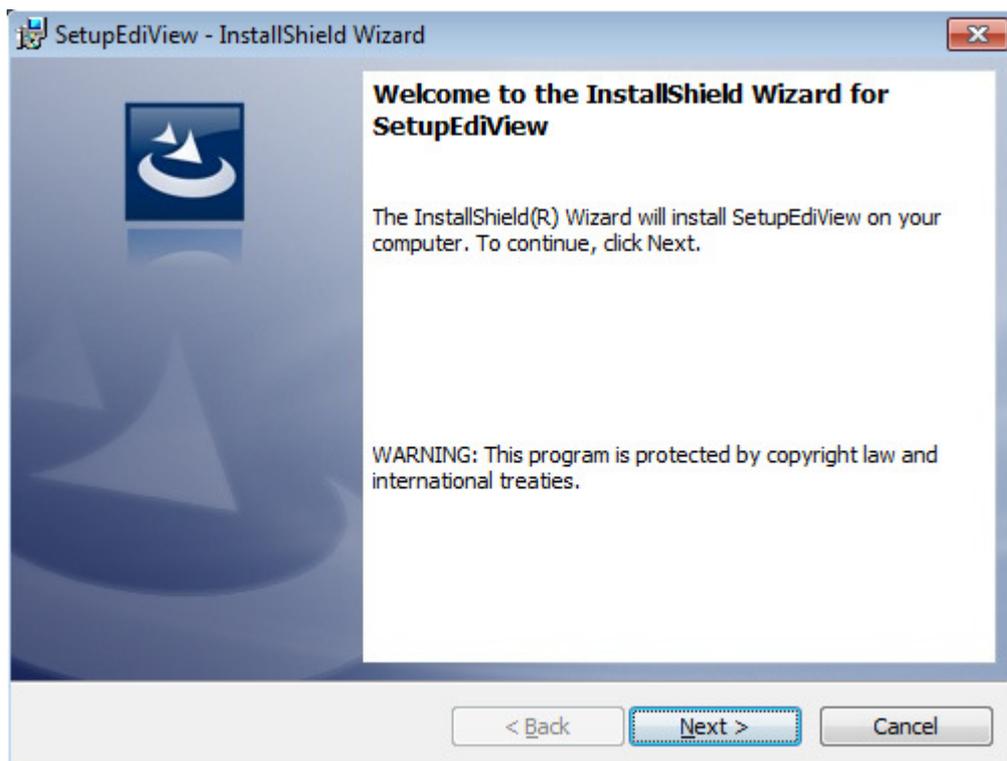
1. Locate EdiView setup file, and double-click on it to start EdiView software installation.



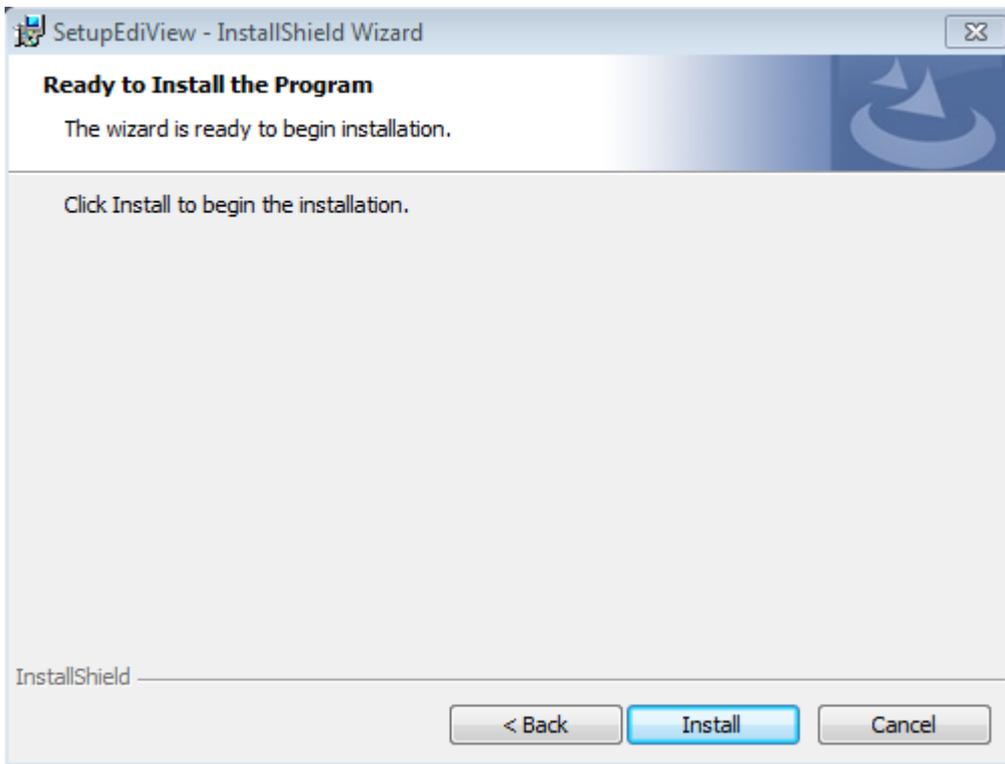
2. You'll see a User Account Control security warning message appear, click 'Yes' to continue.



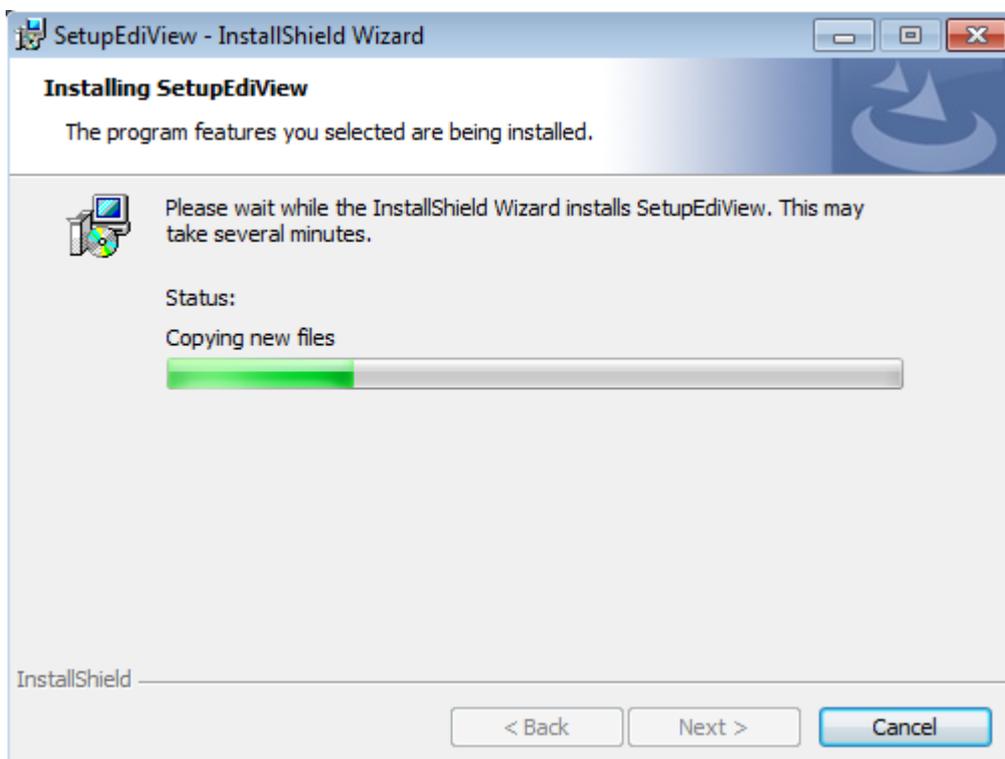
3. Click 'Next' to continue.



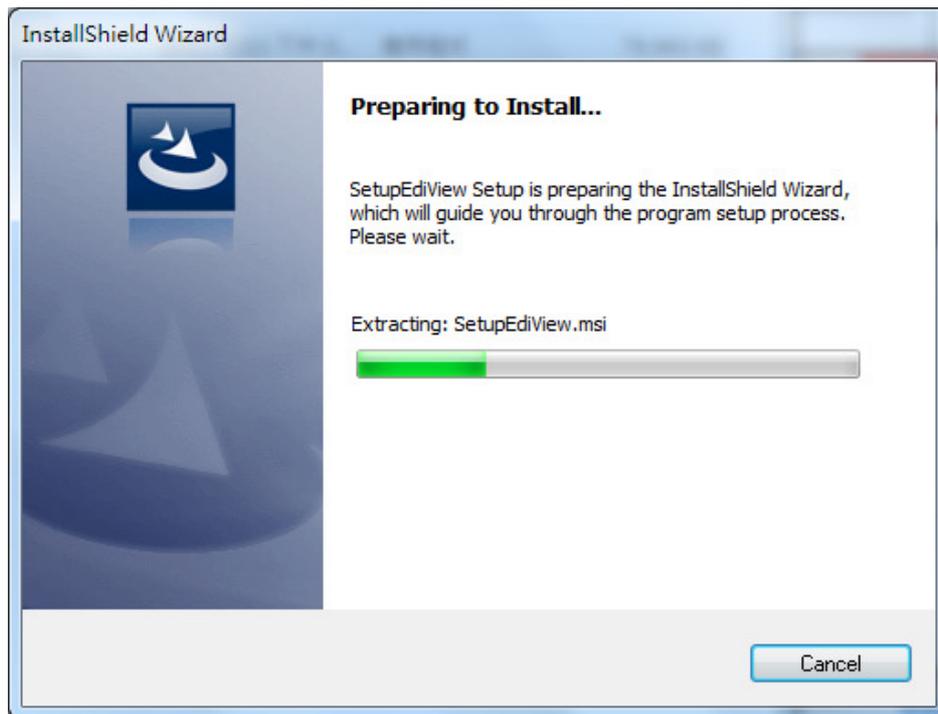
4. Click 'Install' to begin installation.



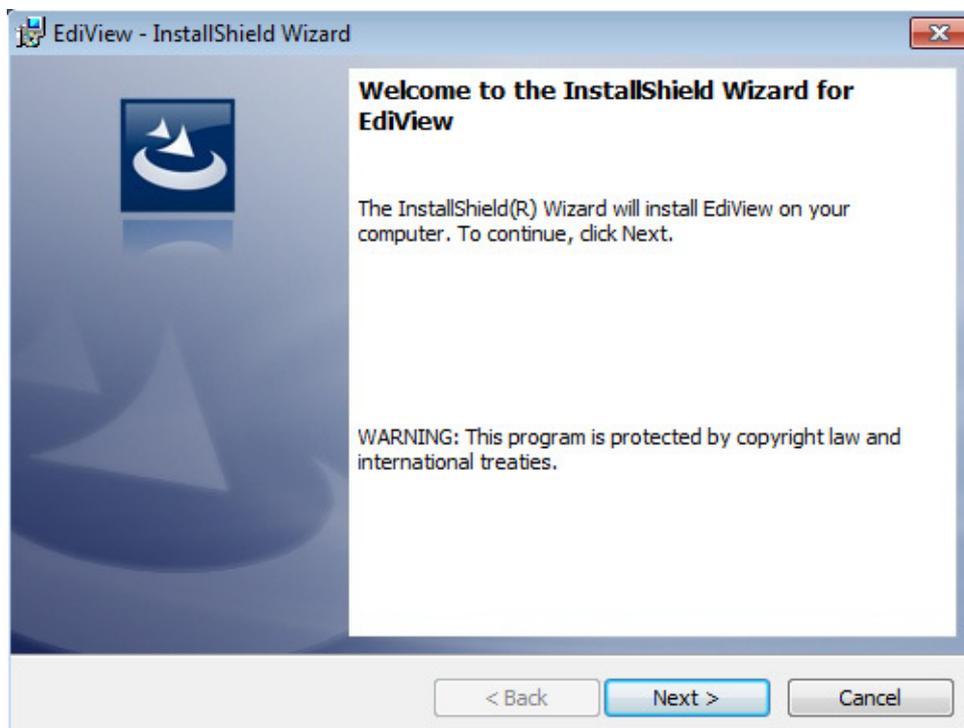
5. Use wait while installation is being performed. This may take few minutes to done, please be patient.



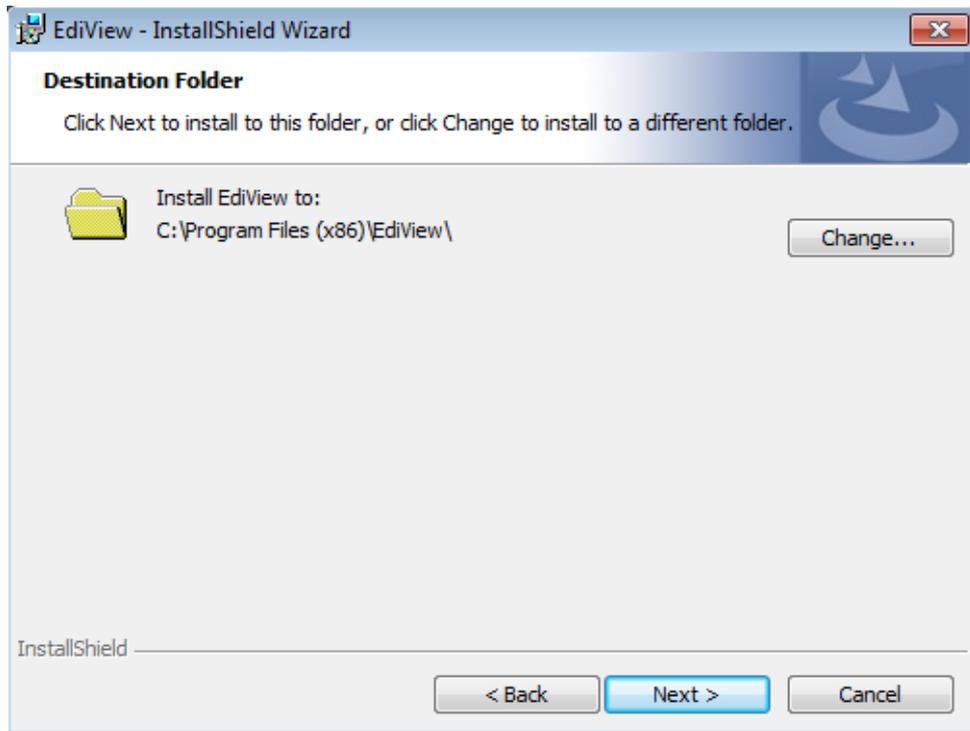
6. The second part of installation will start automatically.



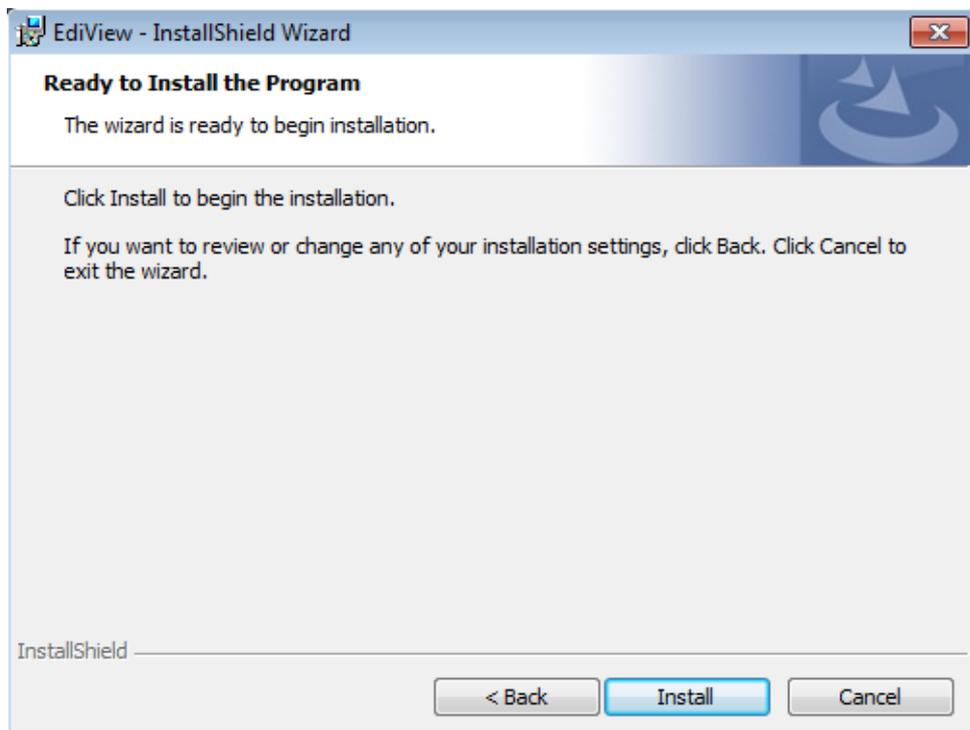
7. A new setup window will appear, please click 'Next' button to continue.



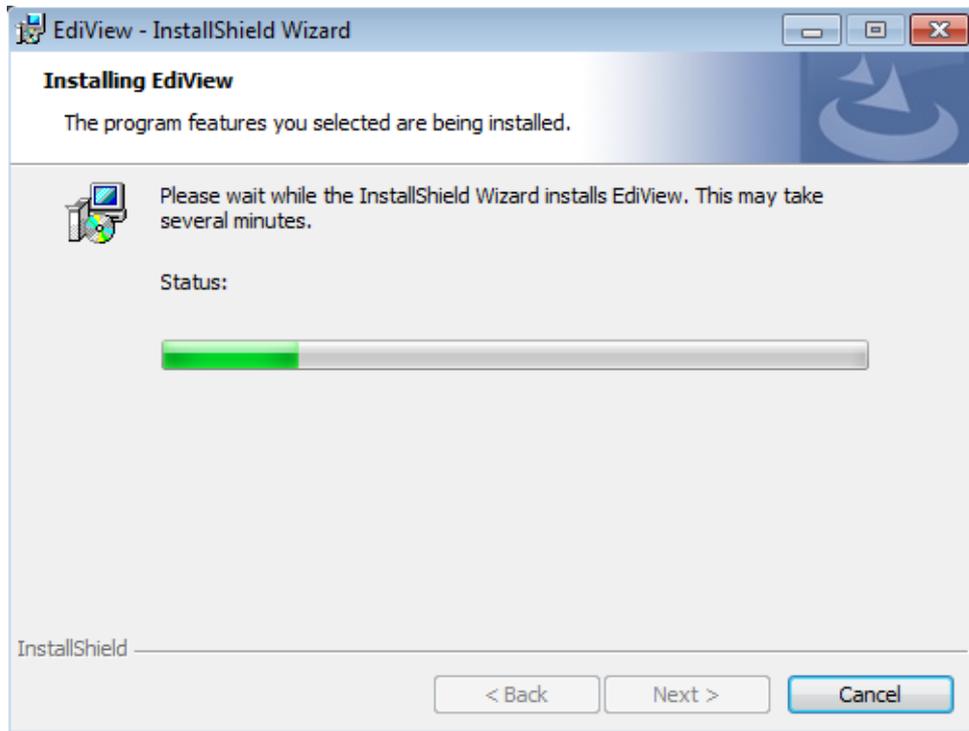
8. You can select a folder on your computer to install EdiView by clicking 'Change' button, or simply click 'Next' button directly to accept default folder.



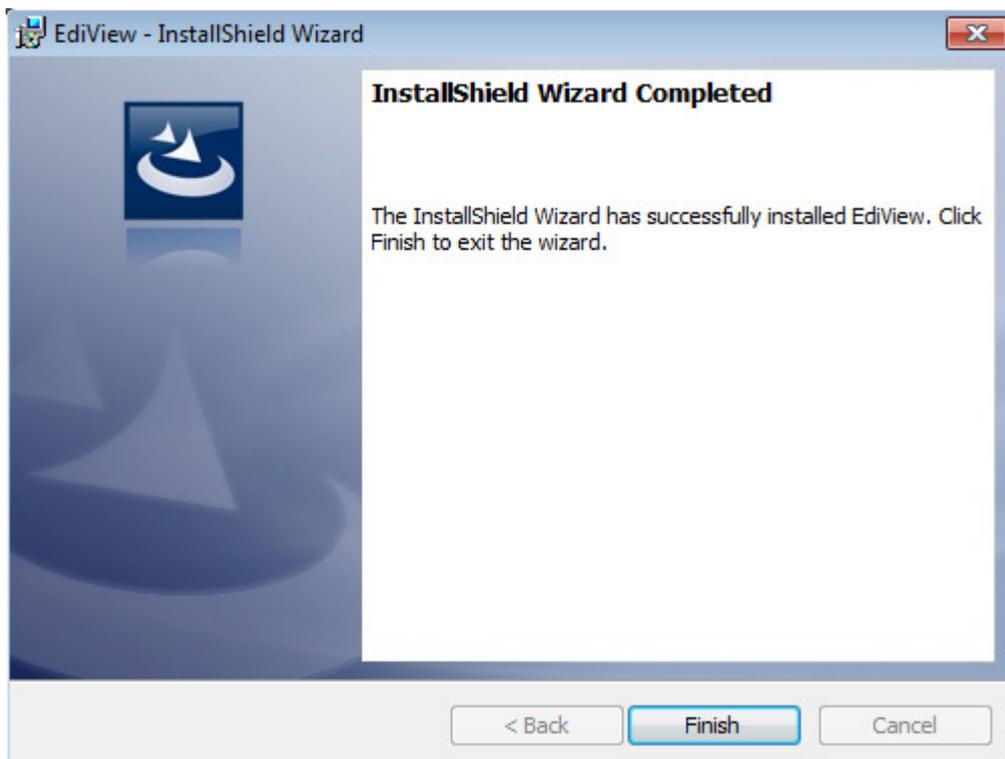
9. Click 'Install' to continue.



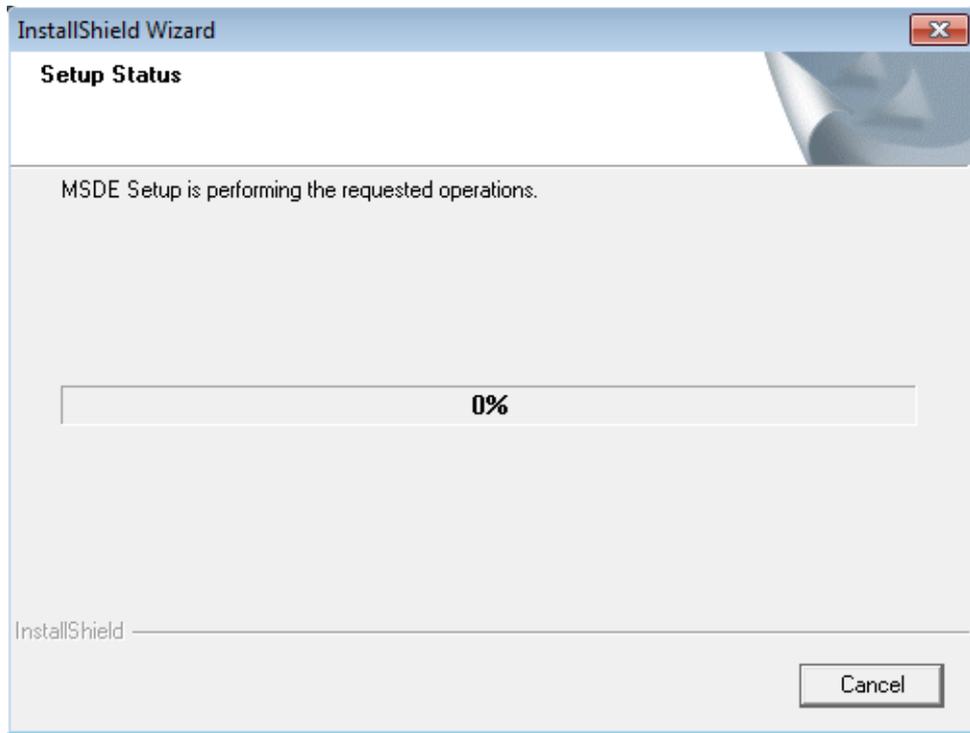
10. Installation will take few minutes, please be patient.



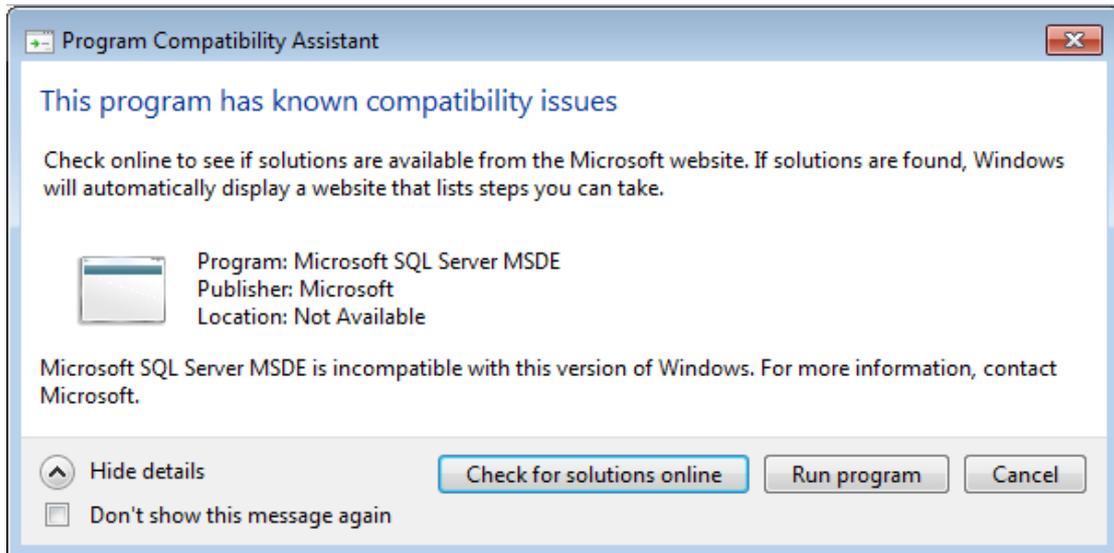
11. Click 'Finish' when you see this message. EdiView is ready to use now.



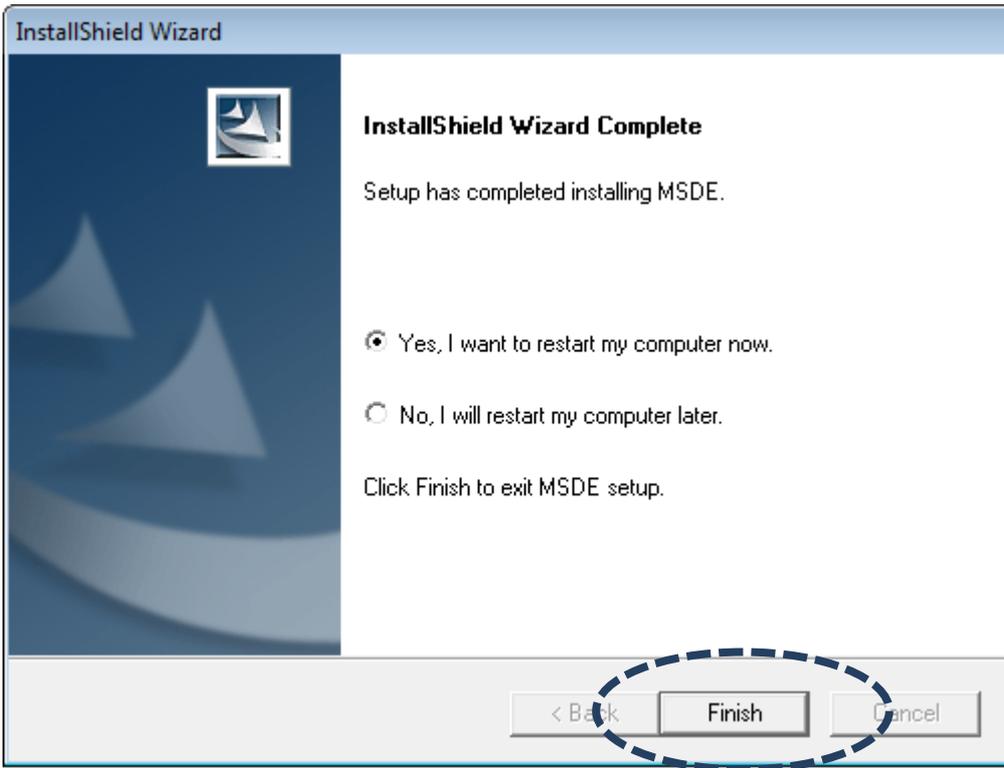
12. MSDE (Microsoft SQL Database Engine) installation procedure will start at the same time. Please wait until it completes.



13. You'll be prompted that this program has compatibility issues, click 'Run program' to continue.



14. MSDE installation requires computer reboot to complete, click 'Finish' to reboot the computer.



15. A new icon will appear on your computer's desktop, you can double click on it to start EdiView.

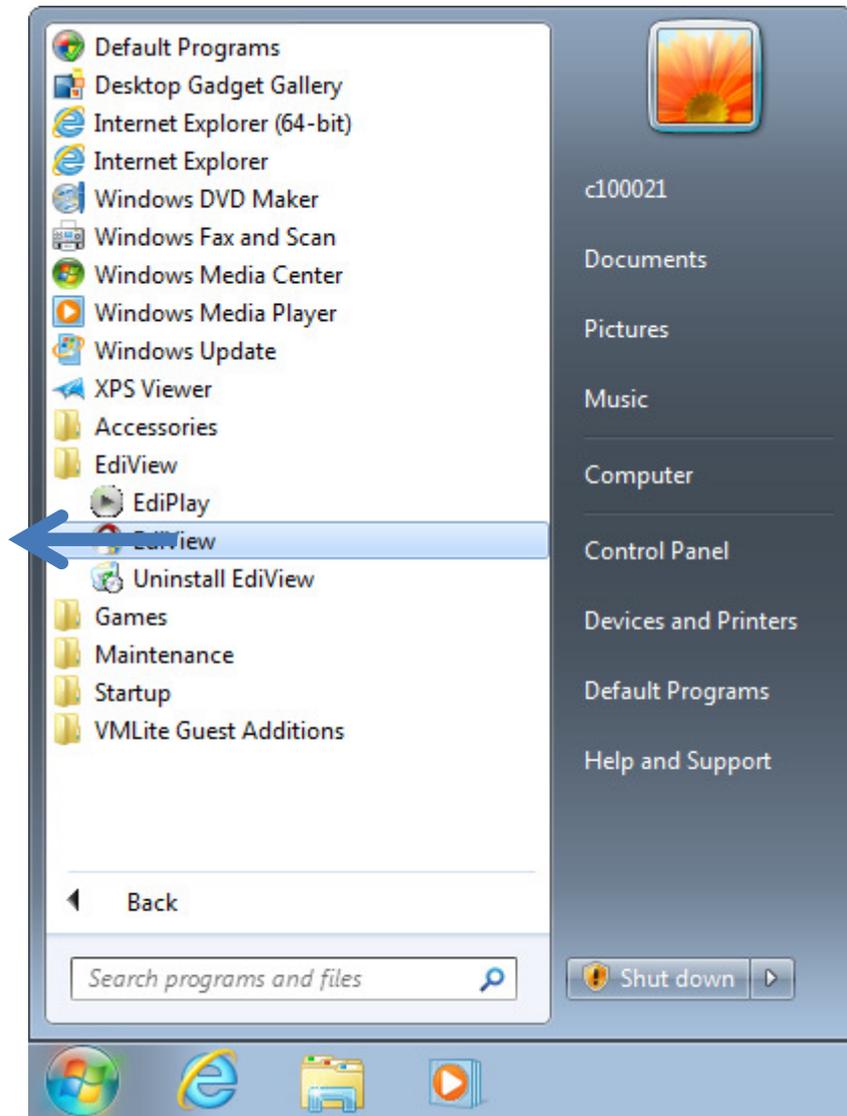


#### 4-2 EdiView Interface

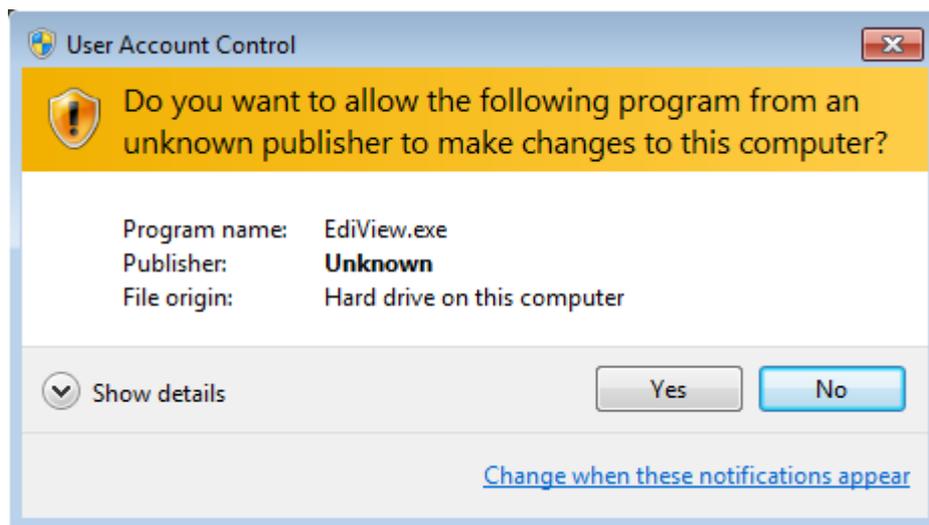
To start EdiView, double-click EdiView icon on your computer's desktop:



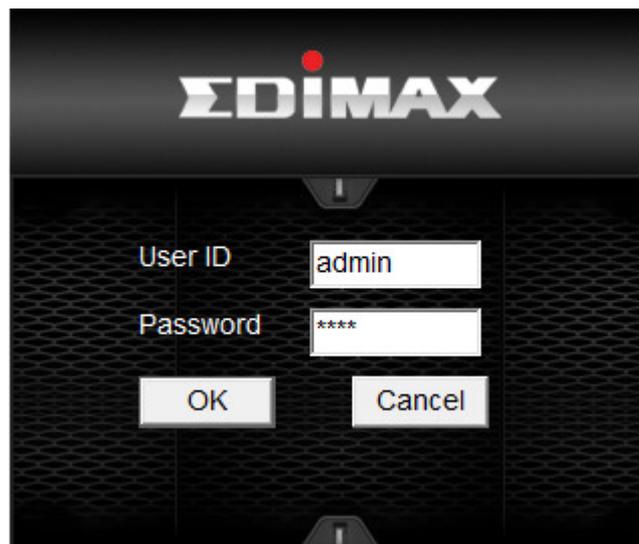
Or click 'Start' button of Windows, and select 'All Programs' -> 'EdiView'



You'll see a User Account Control security warning message appear, click 'Yes' to continue.

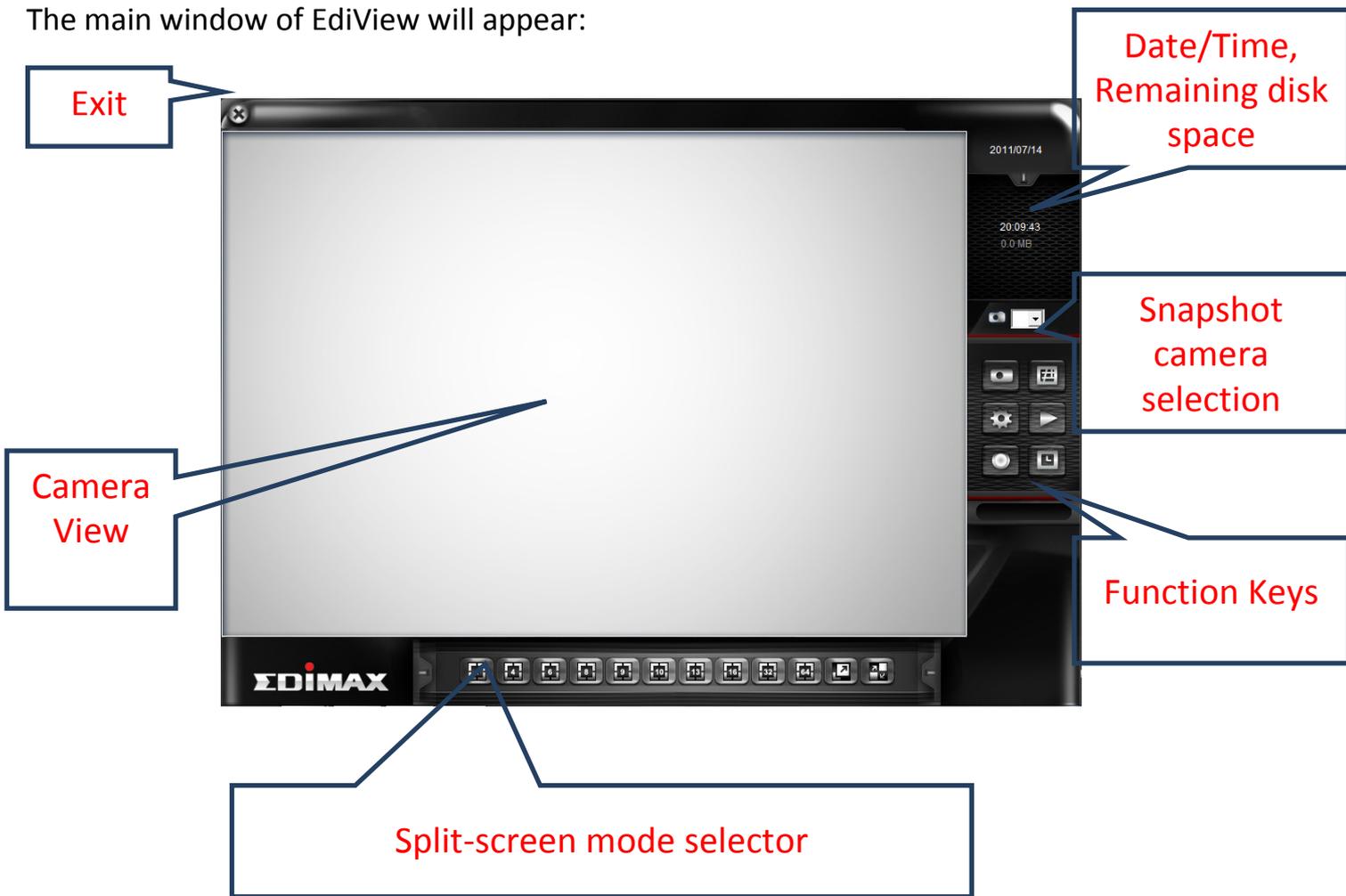


EdiView login window will appear.



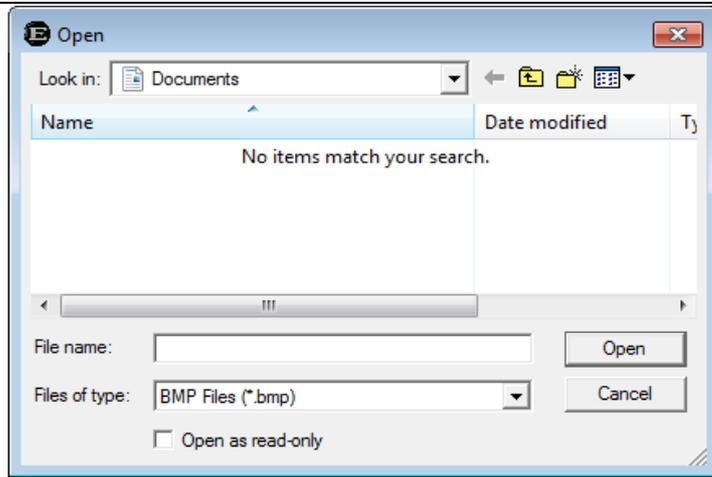
Default user ID is 'admin' and default password is '1234', click 'OK' when ready.

The main window of EdiView will appear:

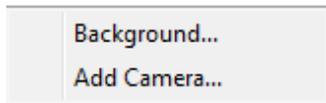


The descriptions of every item are listed as follow:

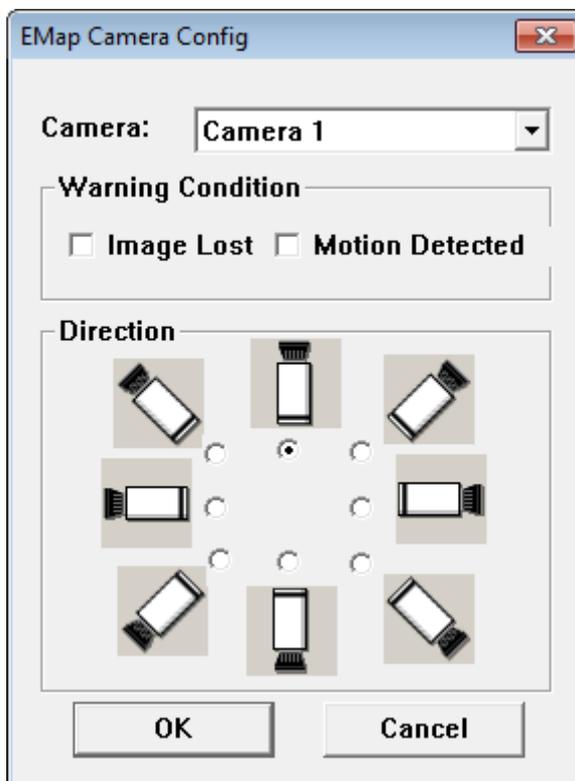
Item	Description
<p>Split-screen mode selector</p> 	<p>EdiView supports from 1 to 64 cameras split views. The video from IP camera will display in split-screen display cells, and you can view up to 64 IP cameras at the same time. Click the button to select the number of IP cameras you wish to view on display.</p> <p>If the number of IP camera is less than the number of split screen, unused display cell will be displayed as grey color to indicate it's not being connected to any IP camera.</p>
<p>Full-screen</p> 	<p>Click this button to display video from IP cameras in full-screen mode. All control buttons will be hidden, only IP camera's video will be displayed.</p> <p>To leave full-screen mode, press 'Esc' key on your keyboard.</p>
<p>Camera Scan</p> 	<p>When you click this button, EdiView will display the video from one camera only at the same time, and switch to next camera's video after few seconds, and so on.</p>
<p>Snapshot</p> 	<p>Take a snapshot of selected IP camera and save the picture on your computer.</p> <p>When you click this button, the picture of IP camera selected in 'snapshot camera selection' dropdown menu will be saved.</p>
<p>EMAP</p> 	<p>Display the EMAP (Electronic map) image on camera view area, which indicates the position and orientation in physical environment of every IP camera.</p> <p>To set a picture as EMAP's background picture:</p> <p>Right-click on the EMAP display area, and you'll be prompted to select a picture on your computer:</p>



Select the file, and click 'Open' button to use the picture as background picture. To add a camera, right-click on the background picture and select 'Add Camera...'



A new window will appear:

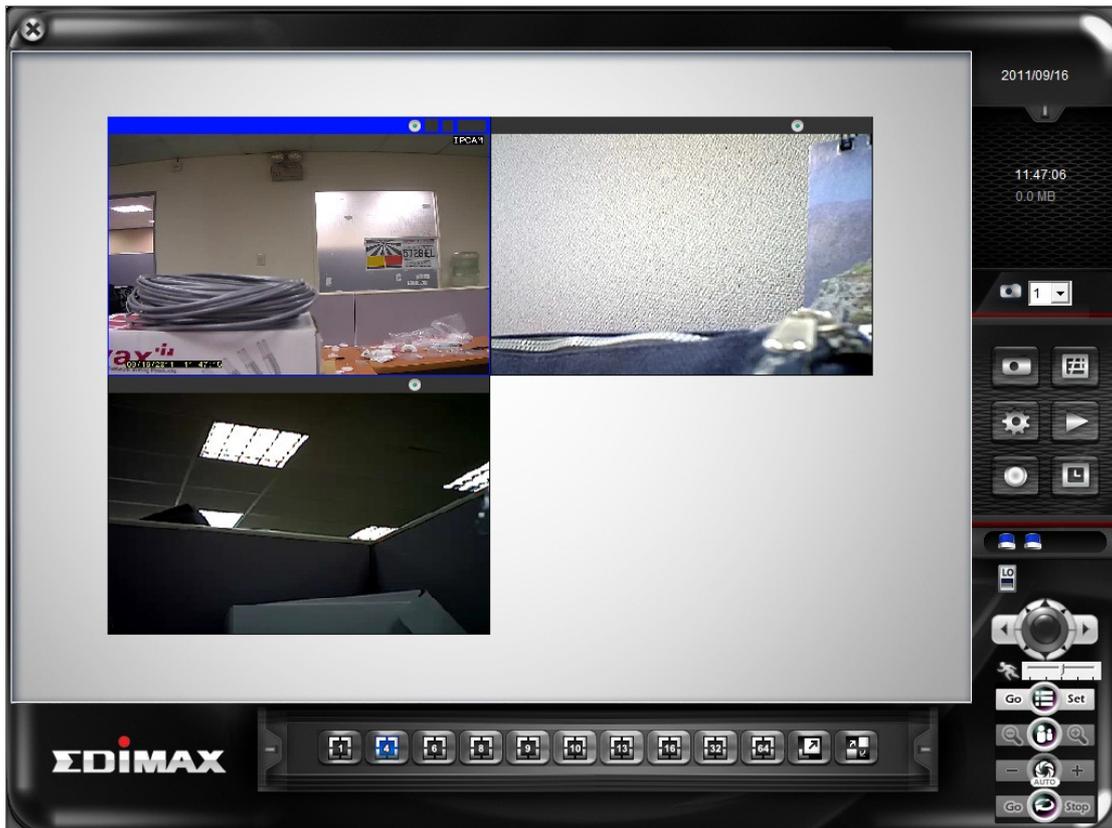


Select the camera you wish to add from 'Camera' dropdown list, and check the box 'Image Lost' and / or

	<p>'Motion Detected' if you want to get a warning message when image lost of motion is detected, then select the direction of camera icon, this will help you to remember the orientation of camera on the EMAP.</p> <p>After you click 'OK' button, a camera icon will appear on EMAP with its camera number indicated:</p>  <p>You can add more cameras to EMAP by repeating procedures listed above.</p>
<p>Configuration</p> 	<p>Enter EdiView configuration page. See next chapter for detailed instructions.</p>
<p>Playback</p> 	<p>Playback recorded video. A new video playback window will appear. See chapter III for detailed instructions.</p>
<p>Recording</p> 	<p>Start / stop video recording.</p> <p>When recording video, this button will appear as red.</p>
<p>Schedule</p> 	<p>Enable schedule recording. You must define schedule in advance before you can enable schedule recording.</p>
<p>Snapshot camera selection</p> 	<p>Here lists all IP cameras you have, select one camera from dropdown list for snapshot.</p>

Date / Time, Remaining Disk Space	Displays current date, time, and remaining disk storage space.
Exit 	Click this button to leave EdiView

All camera's video will displayed in 'Camera View' area:



(This example picture shows a 4-split camera view with only 2 IP cameras configured)

To select an IP camera, click its video and it will be highlighted; some IP cameras support additional control, and a control panel will appear at the bottom-right area of EdiView :



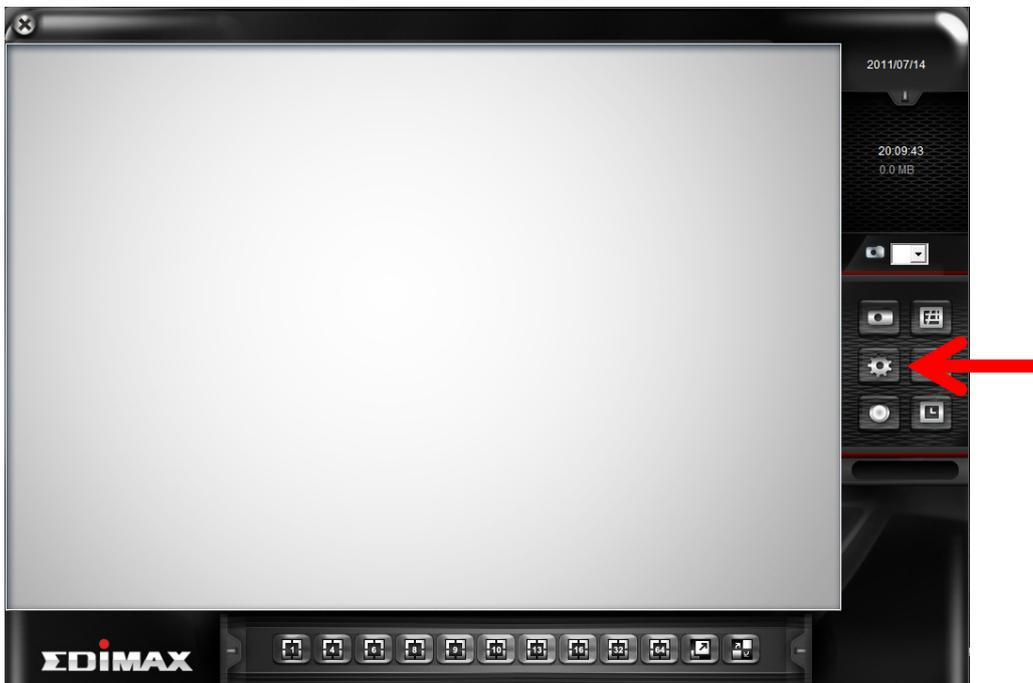
The description of these items is listed as follow:

Item	Description
Pan / Tilt control 	Click the direction arrow to control camera's pan / tilt.
Pan / Tilt speed 	Drag the slide bar to adjust the pan / tilt speed when you click pan / tilt control arrow.
Zoom 	Optical zoom control. Click + or - to control zoom level.
Exposure 	Exposure control. Click + or - to control exposure level.
Cruise control 	Click 'Go' button to start camera cruise and click 'Stop' button to stop cruise.

### 4-3 Configuration

Before you can use EdiView, you must configure at least 1 IP cameras.

To enter configuration menu, click 'Configuration' button  in EdiView' main menu:



The configuration menu will appear. There are 6 sub menus in the configuration menu:

Device (Add or remove IP camera / video server)

Recording (Configure video recording)

System (Configure system-wide settings)

Schedule (Configure schedule recording)

Event (Configure event recording)

Security (Configure EdiView user list)

Detailed descriptions of every sub menu will be given in following chapters.

#### **4-3-1 Device**

You should configure at least one IP camera / video server before you can use EdiView , and you can manage all IP camera / video server here.

To add a new IP camera, click 'Add' button:

Device | Recording | System | Schedule | Event | Security

Camera List

Index	Camera Name	IP Address	HTT...	Model
-------	-------------	------------	--------	-------

Enable All | Disable All | Add



IP camera setup window will appear on the right:

**Configure**

Device Search

IP Address	HTTP P...	Model	MAC Address
------------	-----------	-------	-------------

Search View Image... Detail

IP Address: 192.168.10.77 HTTP Port: 80 Rtsp Port: 554

User: admin Password: 1234

Name: Model: IC-7000PT V2

Stream Type

MPEG4  MJPEG

Enable Camera

Detect Device Add to list

If your IP camera is located on local area network, click 'Search' button. Wait for few seconds or few minutes until the search is complete, and all IP cameras found on your local area network will be listed:

**Configure**

Device Search

IP Address	HTTP P...	Model	MAC Address
192.168.2.3	80	IC-3015...	00.0E.2E.44.6B.

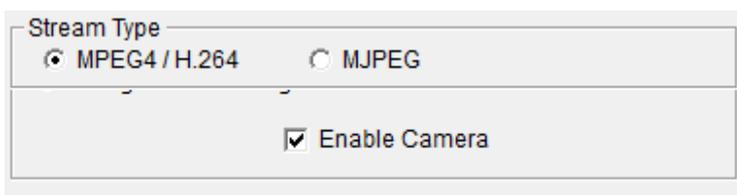
In this example, an IP camera has been found at IP address 192.168.2.3. If this is the IP camera you wish to add, click 'Add to list' button. You can repeat above procedures to add all IP cameras you wish to connect.

When an IP camera is found, you can also select it in the list and:

**View Image:** View the live image from selected IP camera.

**Detail:** Connect to selected IP camera's web configuration menu.

You can also select the video stream type you wish to use:

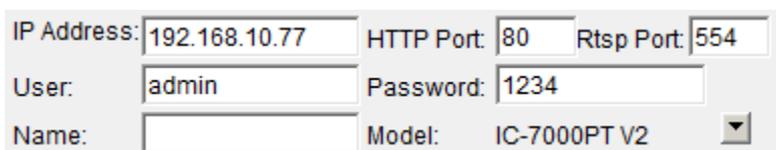


The image shows a configuration window titled "Stream Type". It contains two radio buttons: "MPEG4 / H.264" (which is selected) and "MJPEG". Below these is a checkbox labeled "Enable Camera" which is checked.

Check 'Enable Camera' to enable this camera in EdiView.

If the IP camera you wish to add is not located on local area network, you have to input the details of IP camera manually:

1. Input the network settings of IP camera, including IP address, HTTP port number, user name / password.



The image shows a form for manually adding an IP camera. It includes fields for: IP Address (192.168.10.77), HTTP Port (80), Rtsp Port (554), User (admin), Password (1234), Name (empty), and Model (IC-7000PT V2). There is a dropdown arrow next to the Model field.

2. Click ▾ button (located at the right of 'Model' item), and select the brand and model of the IP camera you wish to add. You can also click 'Detect Device' to detect the brand of model of IP camera if you know its IP address.



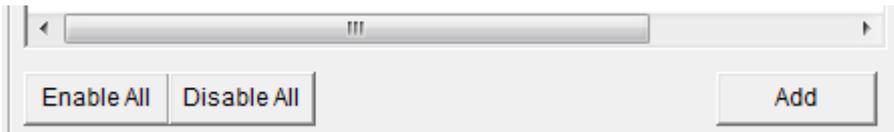
The image shows a "Model List" window. It has two panes. The left pane contains "EdiMAX". The right pane is a list box containing "SIM series", "SIU series" (which is highlighted in blue), and "SVS series".

After you found an IP camera of add it manually, click 'Add to list' button and the IP camera will be listed in EdiView and ready to use:

Camera List				
Index	Camera Name	IP Address	HTT...	Model
<input checked="" type="checkbox"/>	Camera1	192.168.2.3	80	IC-3015V

Every IP camera has a check box, indicating if it is enabled. If a camera is not enabled, it will not be displayed in EdiView's video view.

You can also manage IP camera list by the following function:



**Enable All:** Enable all IP cameras in the list.

**Disable All:** Disable all IP cameras in the list.

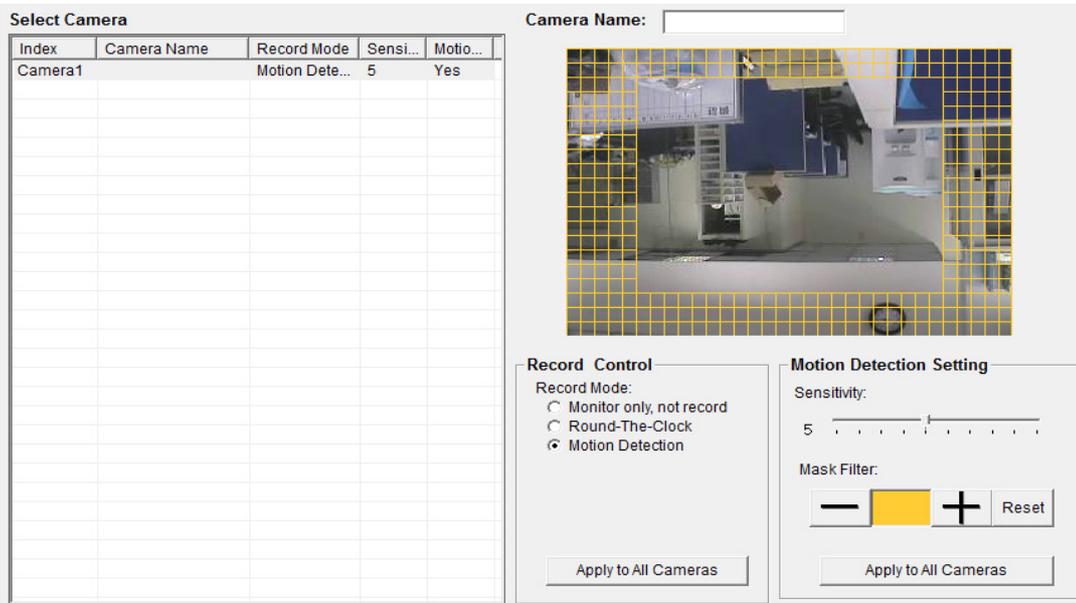
**Remove:** Remove selected IP camera.

When you selected an IP camera in the list, you can also click 'Update to list' button to update its information, like IP address and user name / password.

### 4-3-2 Recording

You can specify the video recording behavior for all IP cameras: recording all the time, motion detection, or not recording at all.

Please note that if you don't have any IP camera added in the camera list, you'll not be able to enter this setup menu.



The descriptions of every item are listed as follow:

Item	Description
Select Camera	All IP camera's Please select an IP camera from the list to setup its recording behavior. EdiView will attempt to connect to selected IP camera, if it's not connectable, you'll receive an error message later.
Record Mode	<p>You can decide the recording behavior for this IP camera:</p> <p>Monitor only, not record: EdiView will not record video of this IP camera.</p> <p>Round-The-Clock: EdiView will record video of this IP camera all the time.</p> <p>Motion Detection: EdiView will only record video when motion is detected.</p> <p>Apply to All Cameras: Click this button to apply current record control settings to all IP cameras on the list.</p>
Motion Detection Setting	Sets motion detection area and sensitivity. Please select an IP camera from the list, and its video will appear with a grid pattern:

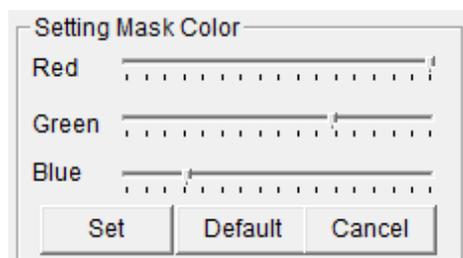


Use the mouse to click blocks on the grid pattern to assign the areas you wish EdiView to detect / ignore motion. EdiView will detect motion for areas which are **NOT** covered by blocks only.

To add or erase blocks:



To add blocks, click + button; to erase blocks, click - button. Click 'Reset' button to reset motion detection blocks to default setting. You can also change the color of block if its color is similar to the IP camera's video and makes you hard to identify the blocks by click the color brick between + and - button:



Drag red, green, and blue slide bar to set color, and click 'Set' button to save changes, click 'Default' button to reset settings, and click 'Cancel' to leave this menu without saving changes.

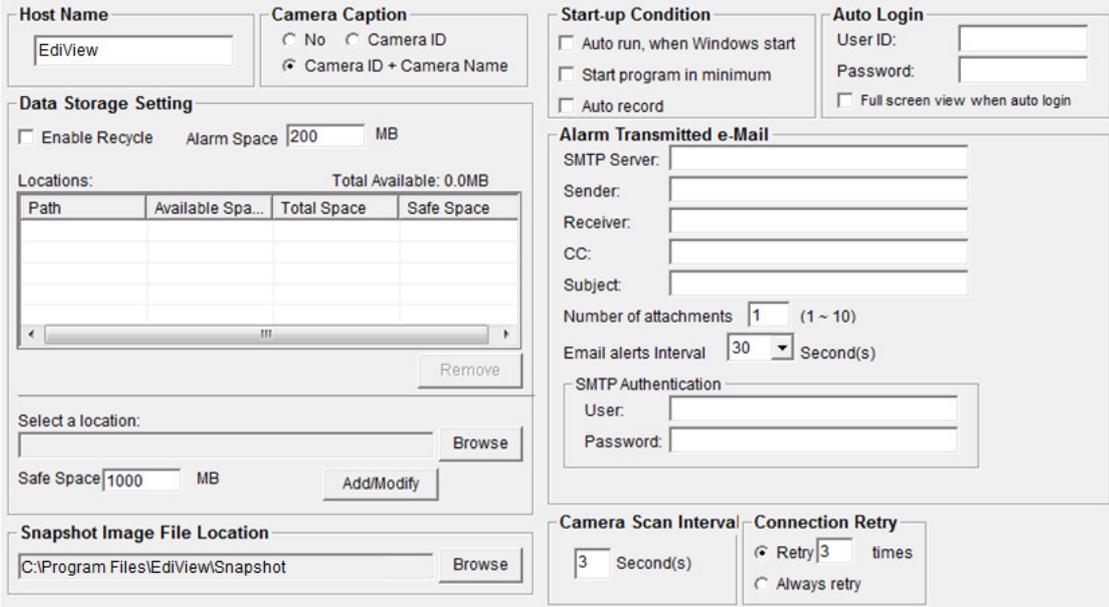
You also have to setup sensitivity:

	<p><b>Sensitivity:</b></p>  <p>Drag the slide bar to setup sensitivity level from 1 to 10. Larger number indicates more sensitivity.</p> <p>To apply this motion detection settings to all IP cameras, click 'Apply to All Cameras' button.</p>
--	--

When you finish setting, click 'OK' button to save changes you made, or click 'Cancel' button to discard all settings you made.

### 4-3-3 System

You can configure system-wide configurations in this sub menu.



The screenshot shows a configuration window with several sections:

- Host Name:** A text box containing 'EdiView'.
- Camera Caption:** Radio buttons for 'No', 'Camera ID', and 'Camera ID + Camera Name' (selected).
- Start-up Condition:** Checkboxes for 'Auto run, when Windows start', 'Start program in minimum', and 'Auto record'.
- Auto Login:** Text boxes for 'User ID:' and 'Password:', and a checkbox for 'Full screen view when auto login'.
- Data Storage Setting:** Includes 'Enable Recycle' (checkbox), 'Alarm Space' (200 MB), and a table for 'Locations' with columns for Path, Available Space, Total Space, and Safe Space. Below the table are 'Remove', 'Select a location:', 'Browse', and 'Add/Modify' buttons.
- Alarm Transmitted e-Mail:** Fields for SMTP Server, Sender, Receiver, CC, Subject, Number of attachments (1), and Email alerts Interval (30 seconds). Includes an SMTP Authentication section with User and Password fields.
- Snapshot Image File Location:** A text box with 'C:\Program Files\EdiView\Snapshot' and a 'Browse' button.
- Camera Scan Interval:** A text box with '3' and 'Second(s)'.
- Connection Retry:** Radio buttons for 'Retry 3 times' (selected) and 'Always retry'.

The descriptions of every setup items are listed as follow:

Item	Description
Host Name	Input the host name of this computer. This will help you to identify this computer which is running EdiView on network.
Camera Caption	Add a text caption on camera view or not:  No: Do not display caption on camera view

	<p>Camera ID: Display Camera's ID number</p> <p>Camera ID + Camera Name: Display both camera's ID and camera's name.</p>
Data Storage Setting	<p>Setup hard disk data storage:</p> <p>Enable Recycle: Check this box and the latest recording video will overwrite oldest recorded video file automatically. If you didn't check this box, EdiView will stop recording when data storage space is full.</p> <p>Alarm Space: When data storage space is less than the size you specified here, you'll receive an alarm message to notify you should do something to prevent from running out of storage space.</p> <p>Locations: Lists all data storage space configured. You can all / modify spaces below.</p> <p>Browse: Select a drive or folder on your computer for recording data storage. You can also create a new folder when you're prompted to select a drive or folder on your computer.</p> <p>Safe Space: Specify the lower limit of storage space you specified. When remaining storage space is less than the size you specified here, EdiView will stop recording**.</p> <p>Add/Modify: You can click this button to add the drive / folder you specified above to storage space list, or select an existing storage space in the list to change its parameters then click this button to update its parameter.</p> <p>Remove: Select a pre-defined storage space and click this button to remove it from the list.</p>
Alarm Space	<p>When data storage space is less than the size you specified here, you'll receive an alarm</p>

	<p>message to notify you should do something to prevent from running out of storage space.</p>
Start-up Condition	<p>Select the behavior of EdiView when computer starts up. You can select multiple options you want to use:</p> <p>Auto run, when Windows start: Check this box and EdiView will run automatically when computer starts.</p> <p>Start program in minimum: Start EdiView as minimized window.</p> <p>Auto record: Start video recording automatically when EdiView starts.</p> <p>If you want to start recording automatically, remember to use 'Auto Login' function.</p>
Auto Login	<p>Input the user ID and password to login EdiView automatically. This function is useful when you want to start recording automatically when computer starts.</p> <p>User ID: Input user ID used to login EdiView, must have adequate privileges to perform the action you wish to execute.</p> <p>Password: Input user's password.</p> <p>Full screen view when auto login: Switch to full screen display mode when auto login.</p>
Alarm Transmitted e-Mail	<p>Send an E-mail notification with picture when alarm is triggered (motion is detected):</p> <p>SMTP Server: Input the IP address or host name of SMTP server (mail server) you wish to use.</p> <p>Sender: Input the sender's E-mail address in sent email. This will help you to identify the E-mail sent by EdiView. For some SMTP servers, you must set a sender E-mail address of the same domain name.</p>

	<p>Receiver: Input the E-mail receiver's address here.</p> <p>CC: input additional E-mail receiver's address here.</p> <p>Subject: Input the subject of sent E-mail. This will also help you to identify the E-mail sent by EdiView .</p> <p>Number of attachments: Input the number of snapshot attachments that will sent with E-mail, so you can see the image of camera by E-mail (1 to 10 attachments only).</p> <p>Email alerts Interval: Input the time interval between two E-mails. A new E-mail will not be sent within the interval you specified here even a new event is detected.</p> <p>User: Input the user name for SMTP authentication. Input only when it's required by your SMTP server, you can leave it blank if it's not required.</p> <p>Password: Input the password used by SMTP authentication.</p>
Camera Scan Interval	Input the time interval to wait between camera scan.
Connection Retry	<p>Decides the behavior when EdiView lost communication with IP camera:</p> <p>Retry: Retry for the time you specified here.</p> <p>Always retry: Retry to connect to IP camera until successfully connected.</p>

When you finishes setting, click 'OK' button to save changes you made, or click 'Cancel' button to discard all settings you made.



A new window will appear on the right:

You can configure a new schedule recording job here. The descriptions of every setup items are listed as follow:

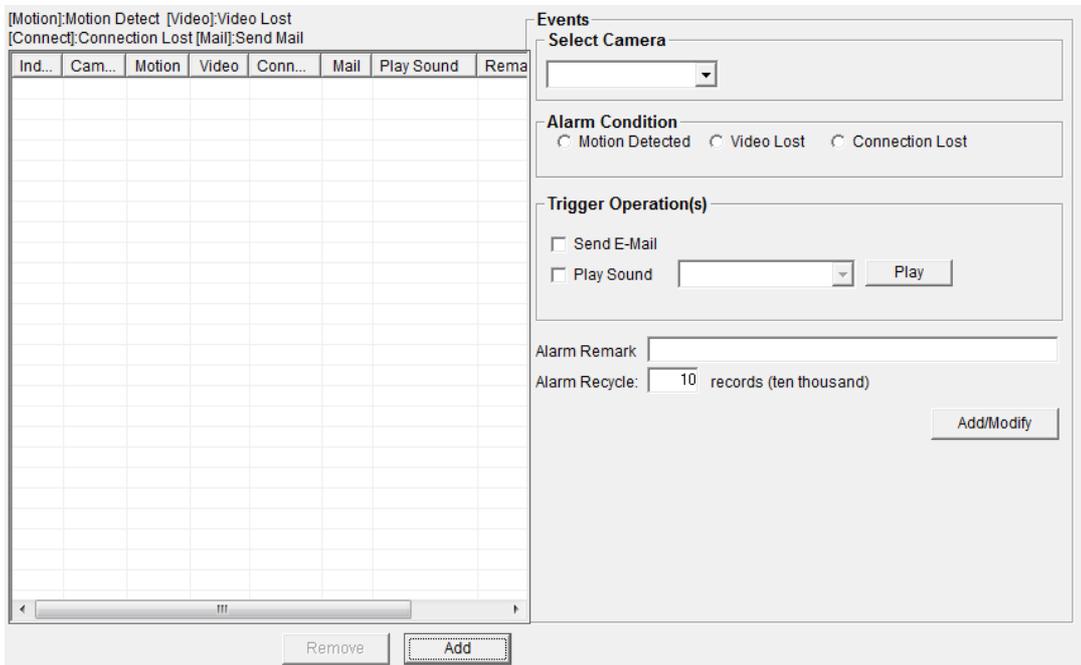
Item	Description
Weekly Schedule	<p>Select the time period in a week of this schedule. There are total 48 x 7 blocks in a week schedule, where every block represents half an hour.</p> <p>You can use mouse to click on the block to add or delete time period. If recording is activated in that time period, the block will appear as light blue ■. If recording is <b>NOT</b> activated in that time period, the block will appear as dark blue ■.</p>

	To add or delete a time period, select 'ADD' or 'DEL' first, then click the time period block.
Events	<p>Select the event to trigger recording:</p> <p>Round-The-Clock: Recording is time-activated (according to schedule).</p> <p>Motion Detection: Recording is motion-activated.</p> <p>DI Input: Recording is activated by DI (Digital Input) signal located on IP camera. IP camera must have DI port and not every IP camera is equipped with DI.</p>
Dedicated Schedule	<p>If you just want to add a new recording schedule between certain time and this schedule will only happen once but not every week, you can use this function to specify a time period.</p> <p>Select 'Start' and 'End' date / time, and click 'Add/Modify' button to add the time period to the list. You can also select an existing time period and make changes, and click 'Add / Modify' button to save changes.</p> <p>To remove an existing schedule, select an existing schedule, and then click 'Remove' button.</p>
Comment	You can input some text to help you to memorize the purpose of this schedule
Cameras/Devices	Check all IP cameras that will be activated by this schedule.
Add to list	Click this button to add this schedule to the list.

When you finishes setting, click 'OK' button to save changes you made, or click 'Cancel' button to discard all settings you made.

## 4-3-5 Event

EdiView can send you an alarm E-Mail message so you can know something happened on the IP camera (motion detected, video lost, or connection lost). A sound can be played to notify the operator at the computer where EdiView is installed, too.



To add a new event, click ‘Add’ button, and a new window will appear on the right for you to setup a new event.

To remove an existing event, select an event in the list and click ‘Remove’ button.

The descriptions of every setup items are listed as follow:

Item	Description
Select Camera	Select the IP camera to define its event detail.
Alarm Condition	<p>Define the type of event which will trigger an alarm:</p> <p>Motion detected: Alarm will be triggered when motion is detected at this IP camera.</p> <p>Video lost: Alarm will be triggered when video server’s external camera signal is lost.</p> <p>Connection Lost: Alarm will be triggered when network connection to this IP camera is lost.</p>

	You can select one alarm condition only here. If you want to specify more than one alarm condition for the same IP camera,
Trigger Operation(s)	<p>Define the action which will be taken when alarm is triggered:</p> <p>Send E-Mail: an E-mail will be sent when alarm is triggered.</p> <p>Play Sound: Play a sound on the computer where EdiView is installed. To add a new sound file, copy the .wav file to the following directory:</p> <p>C:\Program Files\EdiView\media</p> <p>You can click 'Play' button to play the sound file you selected.</p>
Alarm Remark	You can input descriptive text here to help you to remember the purpose of this event.
Alarm Recycle	**

When you finish setting, click 'Add/Modify' button to add this event to the list.

#### 4-3-6 Security

You can add or remove users which is allowed to access to EdiView.



Administrator's user ID is always be 'admin' and cannot be changed. You can only change admin's password in Administrator's 'Password' and 'Confirm Password' field.

**Administrator**

Password:

Confirm Password:

Please input the same password in both fields for confirmation.

To add a user, click 'Add' button, a new window will appear on the right:

**User Information**

User ID:  Description:

Password:  Confirm Password:

**User Privilege**

**View**

- Multi-Camera View Operation
- Camera Map Operation

**System Operation (Start/Stop)**

- Scheduling
- Recording
- Playback

**Camera List**

Select all | Select none

<input type="checkbox"/> Camera 01	<input type="checkbox"/> Camera 17	<input type="checkbox"/>
<input type="checkbox"/> Camera 02	<input type="checkbox"/> Camera 18	<input type="checkbox"/>
<input type="checkbox"/> Camera 03	<input type="checkbox"/> Camera 19	<input type="checkbox"/>
<input type="checkbox"/> Camera 04	<input type="checkbox"/> Camera 20	<input type="checkbox"/>
<input type="checkbox"/> Camera 05	<input type="checkbox"/> Camera 21	<input type="checkbox"/>
<input type="checkbox"/> Camera 06	<input type="checkbox"/> Camera 22	<input type="checkbox"/>
<input type="checkbox"/> Camera 07	<input type="checkbox"/> Camera 23	<input type="checkbox"/>
<input type="checkbox"/> Camera 08	<input type="checkbox"/> Camera 24	<input type="checkbox"/>
<input type="checkbox"/> Camera 09	<input type="checkbox"/> Camera 25	<input type="checkbox"/>
<input type="checkbox"/> Camera 10	<input type="checkbox"/> Camera 26	<input type="checkbox"/>
<input type="checkbox"/> Camera ...	<input type="checkbox"/> Camera 27	<input type="checkbox"/>
<input type="checkbox"/> Camera 12	<input type="checkbox"/> Camera 28	<input type="checkbox"/>
<input type="checkbox"/> Camera 13	<input type="checkbox"/> Camera 29	<input type="checkbox"/>
<input type="checkbox"/> Camera 14	<input type="checkbox"/> Camera 30	<input type="checkbox"/>
<input type="checkbox"/> Camera 15	<input type="checkbox"/> Camera 31	<input type="checkbox"/>
<input type="checkbox"/> Camera 16	<input type="checkbox"/> Camera 32	<input type="checkbox"/>

The descriptions of every setup items are listed as follow:

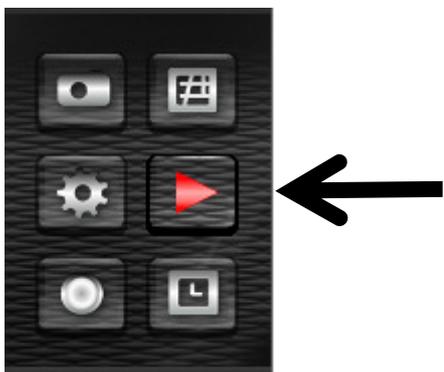
Item	Description
User ID	Input the user ID used to login EdiView
Description	Input any descriptive text to help you to memorize the purpose of this user ID.
Password / Confirm Password	Input this user's password in both fields.
User Privilege	Defines the privilege of this user (Check the boxes that you wish to give privilege):  Multi-Camera View Operation: Allows multi-camera view.  Camera Map Operation: Allows to show E-MAP.  Scheduling: User can start or stop schedule recording.  Recording: User can start or stop video recording.  Playback: User can playback saved video.
Camera List	Select IP cameras you wish to allow this user to view.

When you finishes setting, click 'Add/Modify' button to add this new user.

You can also select an existing user and change his / her user information, then click 'Add / Modify' button to save changes for this user.

#### **4-4 Video Playback**

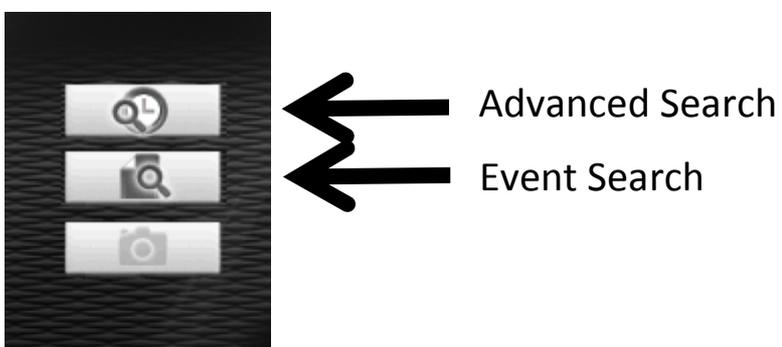
To view recorded video, you can click 'Playback' button in EdiView's main screen:



A new window will appear:



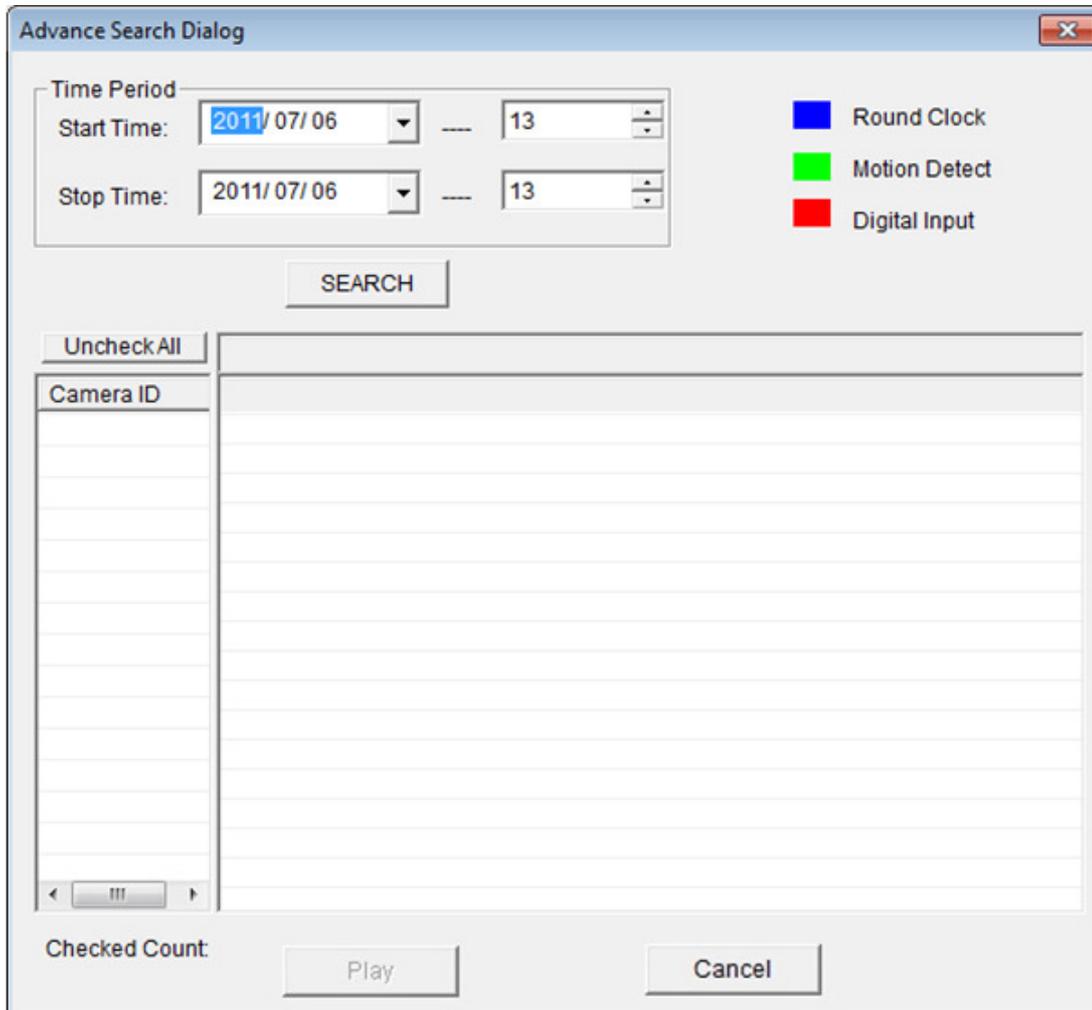
To play a recorded video, you can use one of following two functions:



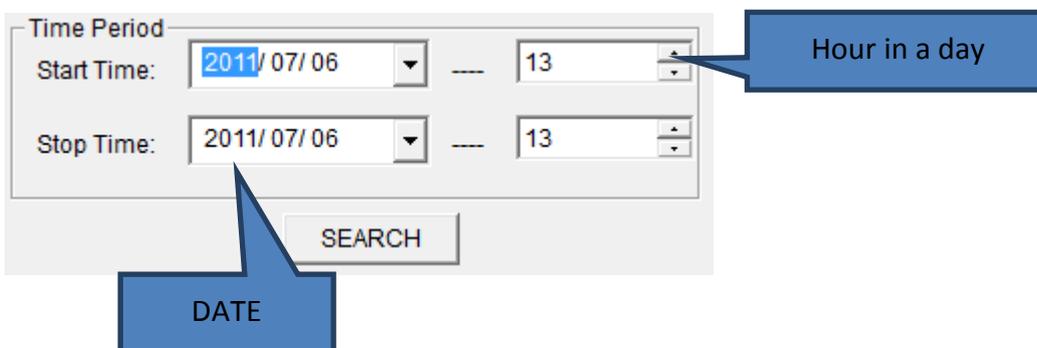
Please refer to following chapters for detailed instructions of every search mode.

## 4-4-1 Advanced Search

You can search for recorded video within specific time period, and get a list of record modes of all IP cameras.

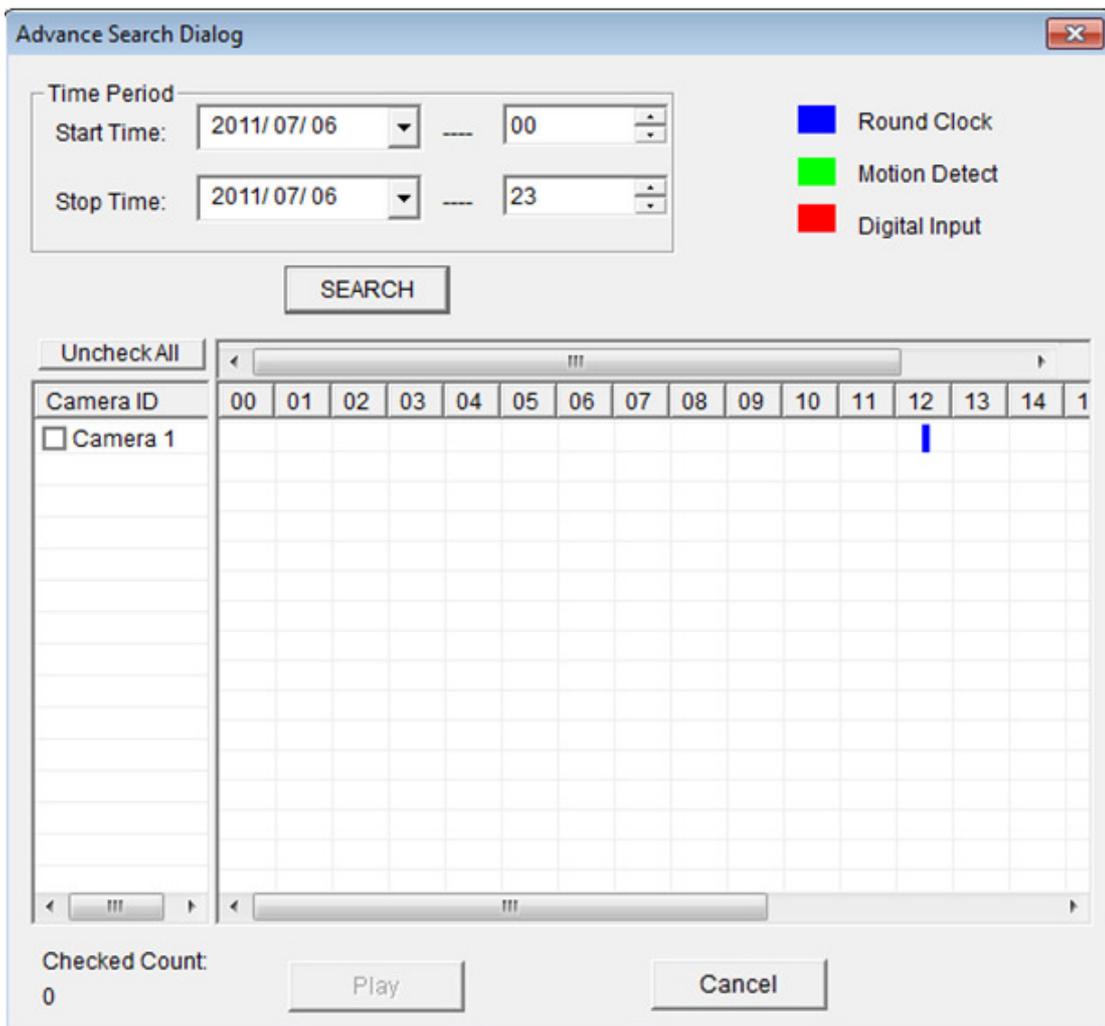


When you enter this menu, please specify start time and stop time:



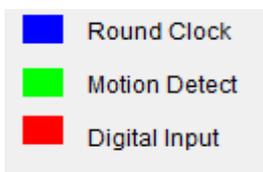
(You can input 0 - 23 in 'Hour in a day' field by keyboard directly).

When you finish, click 'SEARCH' button to search for recorded video, and you'll get a similar output like this:



In this picture, a recorded video of 'Camera 1' has been found at 12 o'clock. A blue mark indicates it's a 'Round Clock' (manual) recording.

Other record type include:

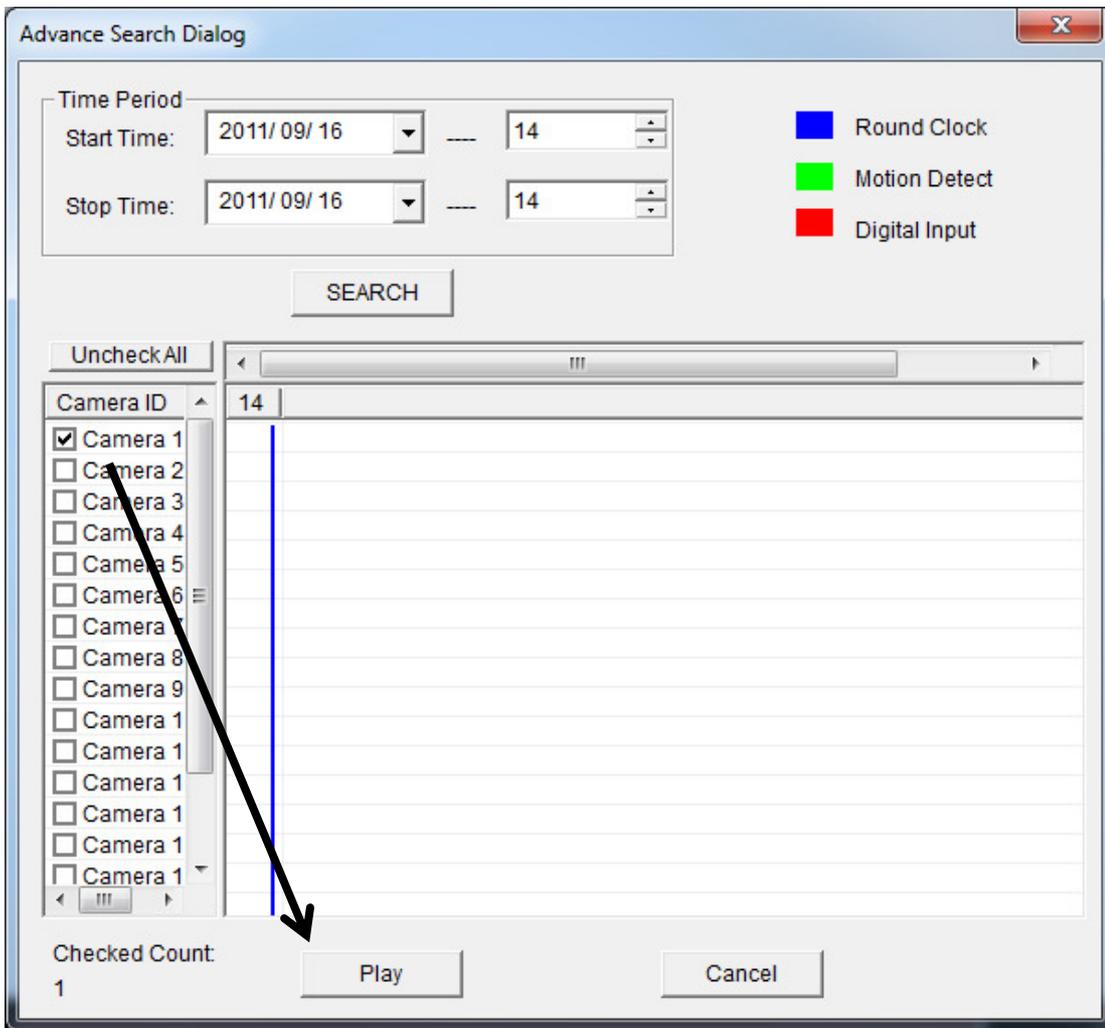


Blue: Manual Recording

Green: Recording is triggered by motion

Red: Recording is triggered by Digital Input

To view the video, check the box of camera ID, then click play button.

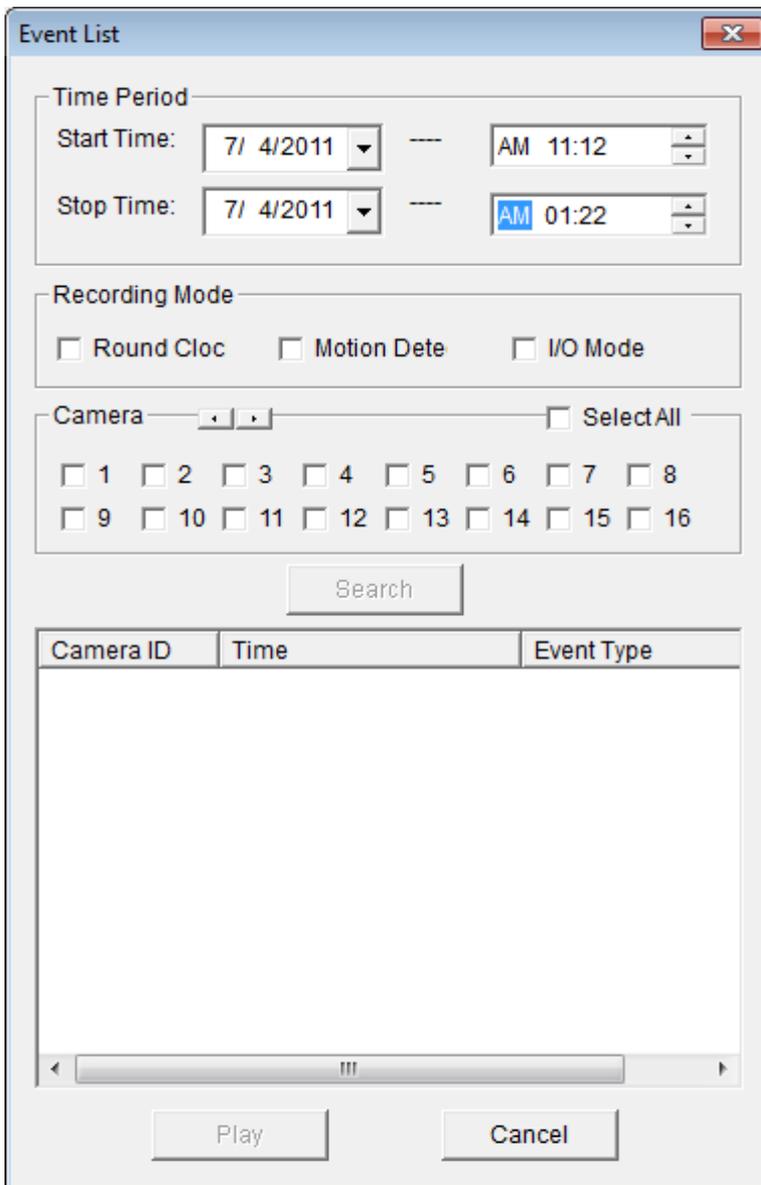


And the video will be prepared for playback.



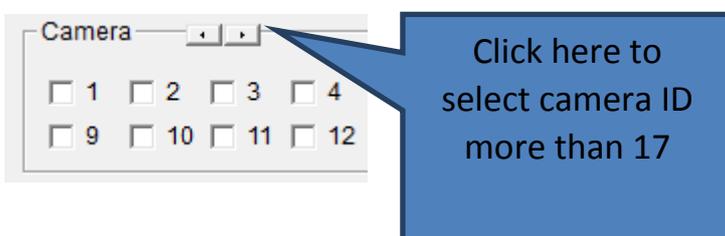
#### 4-4-2 Event Search

You can search for video for playback by triggering event: round the clock, motion detection, or digital input.

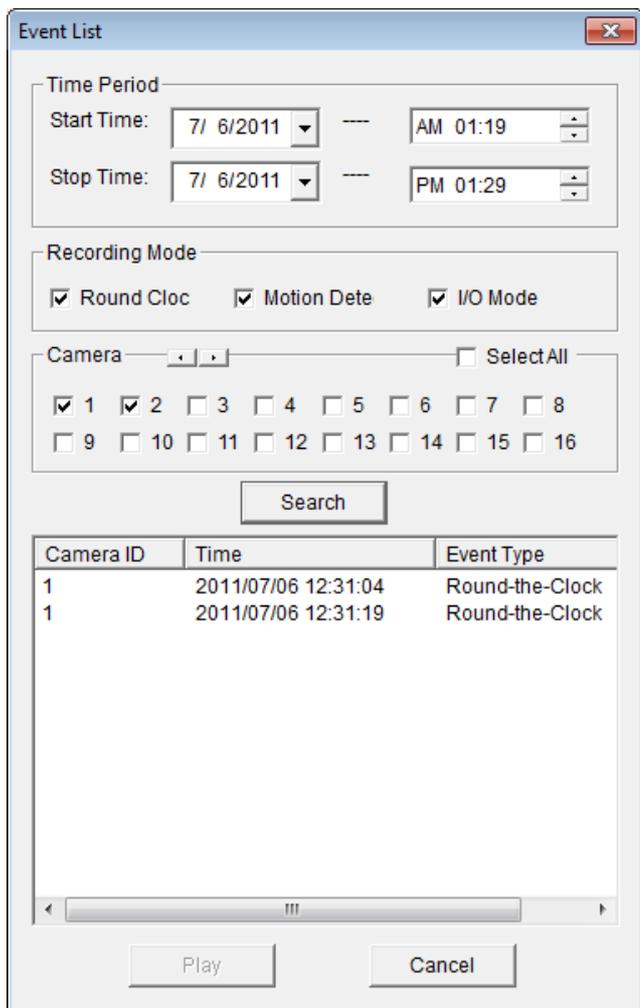


To search for video, you have to specify:

- 1) starting and ending time for video searching in 'Start time' and 'Stop time' field
- 2) Recording mode: Round Clock, Motion Detection, and I/O Mode (Digital Input). You can check all boxes you wish to search for.
- 3) Camera: You can check all cameras you wish to search for video. To select camera ID more than 16, click right or left button to select camera ID up to 64, or click 'Select All' to select all cameras.



When you finish, click 'Search' button to search for recorded video, and a list similar to this will appear:



The 'Event List' window contains the following sections:

- Time Period:** Start Time: 7/ 6/2011 AM 01:19; Stop Time: 7/ 6/2011 PM 01:29.
- Recording Mode:**  Round Cloc,  Motion Dete,  I/O Mode.
- Camera:** Select All (unchecked), and checkboxes for cameras 1 through 16. Cameras 1 and 2 are checked.
- Search:** A button labeled 'Search'.
- Table:** A table with columns 'Camera ID', 'Time', and 'Event Type'.

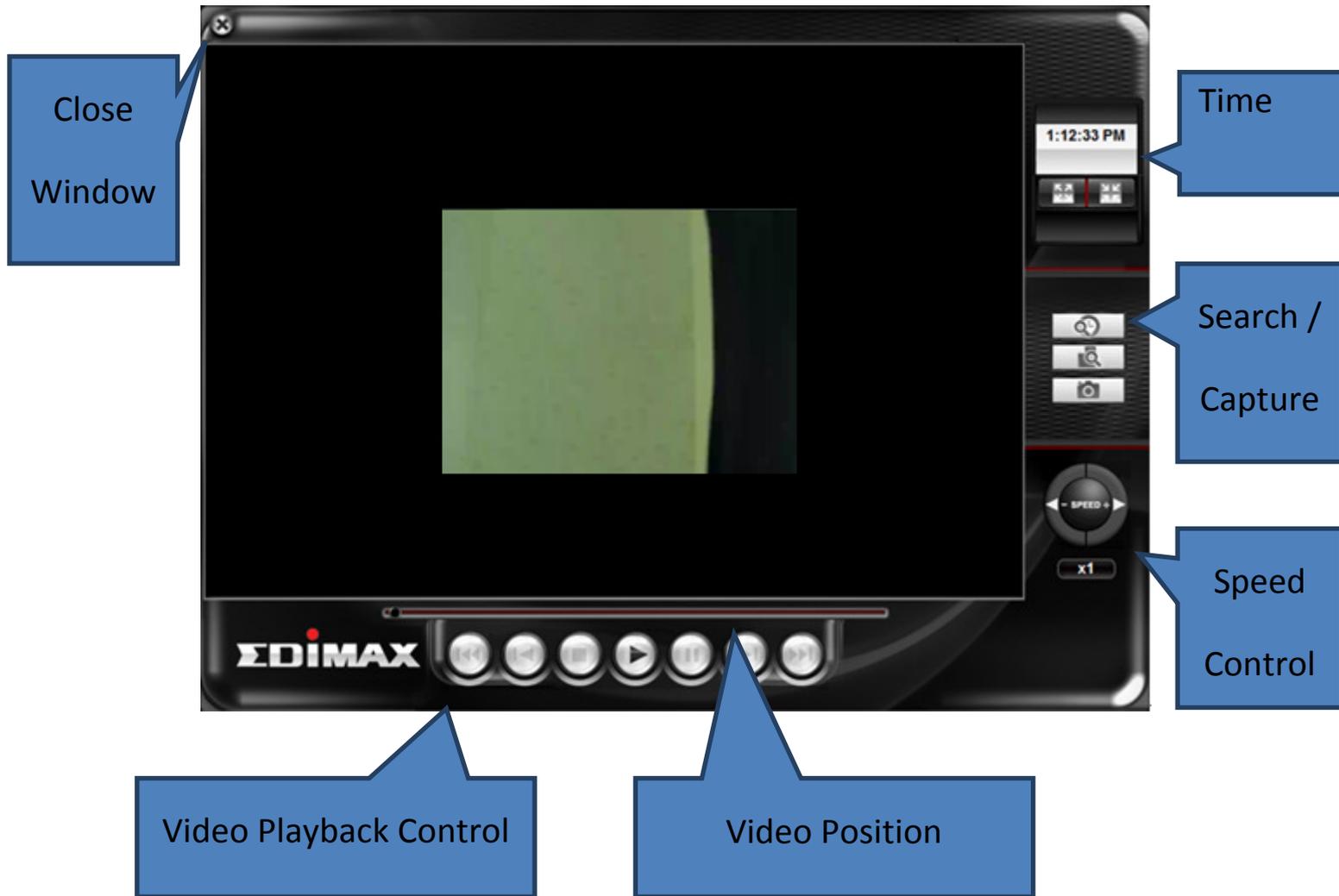
Camera ID	Time	Event Type
1	2011/07/06 12:31:04	Round-the-Clock
1	2011/07/06 12:31:19	Round-the-Clock
- Buttons:** 'Play' and 'Cancel' buttons at the bottom.

You can select the video clip you wish to play, and click 'Play' button.



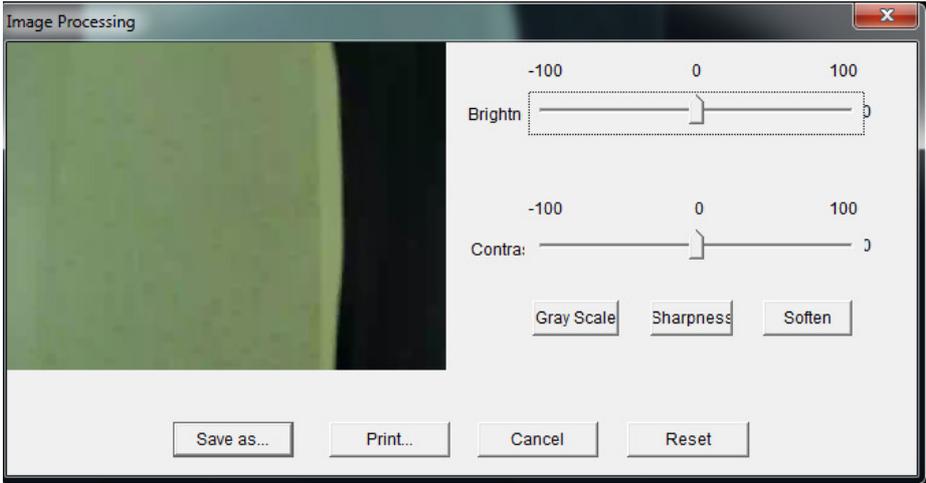
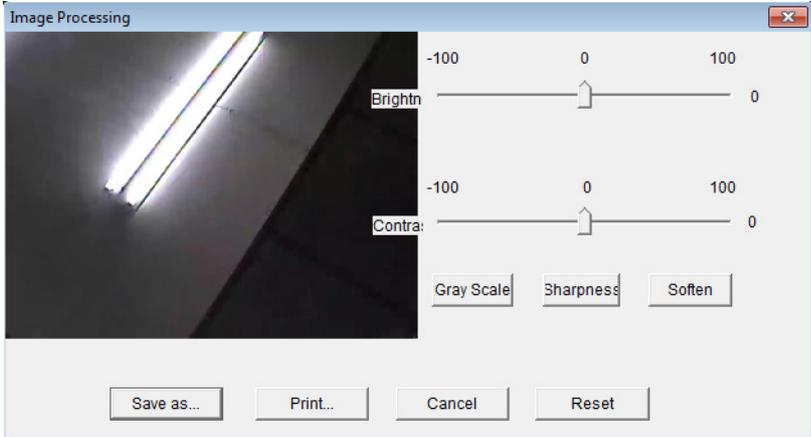
## 4-4-3 Video Playback

When a video is loaded, the video playback screen will look like this:



The descriptions of every item are listed as follow:

Item	Description
Close Window	Click X mark to close video playback window.
Video Playback Control	You can use following buttons to control video playback: <ul style="list-style-type: none"> <li> Skip to the beginning position of video</li> <li> Skip to previous video frame</li> <li> Stop video playback</li> <li> Start video playback</li> </ul>

	<p> Pause a playing video, click 'Play' to resume video playback</p> <p> Skip to next video frame</p> <p> Skip to the ending position of video clip</p>
Speed Control	<p>When video is stopped, you can click + or – button to adjust video playback speed: from 1/4 to 4x speed.</p> <p><i>You cannot adjust video playback speed when video is playing.</i></p>
Search / Capture	<p>Click  or  button to search for video (see chapter 3-2 / 3-3 for detailed instruction).</p> <p>Click  button to take a snapshot picture of current video playback position. A new window will appear:</p>   <p>You can adjust image brightness / contrast by dragging corresponding slide bar, or click 'Gray Scale', 'Sharpness',</p>

	<p>'Soften' to adjust image parameters.</p> <p>You can click 'Save as' button to save current image (you'll be prompted for image saving location), or click 'Print' to print current image to printer.</p> <p>To back to previous menu, click 'Cancel'; click 'Reset' to reset image parameters back to default value.</p>
Time	<p>Current time will be displayed here.</p> <p>You can click  button to display video zoom in, or click  button to display video zoom out.</p>

## Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

### FCC Caution

This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate equipment.

### Federal Communications Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 2.5cm (1 inch) during normal operation.

### Federal Communications Commission (FCC) RF Exposure Requirements

SAR compliance has been established in the laptop computer(s) configurations with PCMCIA slot on the side near the center, as tested in the application for certification, and can be used in laptop computer(s) with substantially similar physical dimensions, construction, and electrical and RF characteristics. Use in other devices such as PDAs or lap pads is not authorized. This transmitter is restricted for use with the specific antenna tested in the application for certification. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

### R&TTE Compliance Statement

This equipment complies with all the requirements of DIRECTIVE 1999/5/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL of March 9, 1999 on radio equipment and telecommunication terminal equipment and the mutual recognition of their conformity (R&TTE). The R&TTE Directive repeals and replaces in the directive 98/13/EEC (Telecommunications Terminal Equipment and Satellite Earth Station Equipment) As of April 8, 2000.

### Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

### EU Countries Intended for Use

The ETSI version of this device is intended for home and office use in Austria, Belgium, Bulgaria, Cyprus, Czech, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Turkey, and United Kingdom. The ETSI version of this device is also authorized for use in EFTA member states: Iceland, Liechtenstein, Norway, and Switzerland.

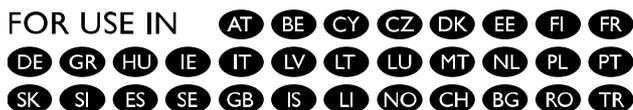
### EU Countries Not Intended for Use

None

## EU Declaration of Conformity

- English:** This equipment is in compliance with the essential requirements and other relevant provisions of Directive 2004/108/EC, 2006/95/EC, 2009/125/EC.
- French:** Cet équipement est conforme aux exigences essentielles et autres dispositions de la directive 2004/108/EC, 2006/95/EC, 2009/125/EC
- Czechian:** Toto zařízení je v souladu se základními požadavky a ostatními příslušnými ustanoveními směrnic 2004/108/EC, 2006/95/EC, 2009/125/EC.
- Polish:** Urządzenie jest zgodne z ogólnymi wymaganiami oraz szczególnymi warunkami określonymi Dyrektywą UE 2004/108/EC, 2006/95/EC, 2009/125/EC
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- Russian:** Это оборудование соответствует основным требованиям и положениям Директивы 2004/108/EC, 2006/95/EC, 2009/125/EC.
- Magyar:** Ez a berendezés megfelel az alapvető követelményeknek és más vonatkozó irányelveknek 2004/108/EC, 2006/95/EC, 2009/125/EC
- Türkçe:** Bu cihaz 2004/108/EC, 2006/95/EC, 2009/125/EC direktifleri zorunlu istekler ve diğer hükümlerle ile uyumludur.
- Ukrainian:** Обладнання відповідає вимогам і умовам директиви 2004/108/EC, 2006/95/EC, 2009/125/EC.
- Slovakian:** Toto zariadenie spĺňa základné požiadavky a ďalšie príslušné ustanovenia smerníc 2004/108/EC, 2006/95/EC, 2009/125/EC.
- German:** Dieses Gerät erfüllt die Voraussetzungen gemäß den Richtlinien 2004/108/EC, 2006/95/EC, 2009/125/EC.
- Spanish:** El presente equipo cumple los requisitos esenciales de la Directiva 2004/108/EC, 2006/95/EC, 2009/125/EC.
- Italian:** Questo apparecchio è conforme ai requisiti essenziali e alle altre disposizioni applicabili della Direttiva 2004/108/EC, 2006/95/EC, 2009/125/EC.
- Dutch:** Dit apparaat voldoet aan de essentiële eisen en andere van toepassing zijnde bepalingen van richtlijn 2004/108/EC, 2006/95/EC, 2009/125/EC.
- Portuguese:** Este equipamento cumpre os requisitos essenciais da Directiva 2004/108/EC, 2006/95/EC, 2009/125/EC
- Norwegian:** Dette utstyret er i samsvar med de viktigste kravene og andre relevante regler i Direktiv 2004/108/EC, 2006/95/EC, 2009/125/EC.
- Swedish:** Denna utrustning är i överensstämmelse med de väsentliga kraven och övriga relevanta bestämmelser i direktiv 2004/108/EC, 2006/95/EC, 2009/125/EC.
- Danish:** Dette udstyr er i overensstemmelse med de væsentligste krav og andre relevante forordninger i direktiv 2004/108/EC, 2006/95/EC, 2009/125/EC.
- Finnish:** Tämä laite täyttää direktiivien 2004/108/EC, 2006/95/EC, 2009/125/EC oleelliset vaatimukset ja muut asiaankuuluvat määräykset.

FOR USE IN



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### WEEE Directive & Product Disposal



At the end of its serviceable life, this product should not be treated as household or general waste. It should be handed over to the applicable collection point for the recycling of electrical and electronic equipment, or returned to the supplier for disposal.

## Declaration of Conformity

We, Edimax Technology Co., Ltd., declare under our sole responsibility, that the equipment described below complies with the requirements of the European directive 2004/108/EC and 2006/95/EC.

**Equipment:** 3Mpx Day & Night PT Network Camera  
3Mpx PoE Day & Night PT Network Camera  
**Model No.:** PT-31, PT-31E  
**Report No.:** T110906220-E, T110906220-LV

The following European standards for essential requirements have been followed:

European Standard: 2004/108/EC

EN 55022:2006+A1:2007

EN 61000-3-2:2006

EN 61000-3-3:2008

EN 55024:1998+A1:2001+A2:2003

IEC 61000-4-2:2008

IEC 61000-4-3:2006+A1:2007

IEC 61000-4-4:2004

IEC 61000-4-5:2005

IEC 61000-4-6:2003+A1:2004+A2:2006

IEC 61000-4-8:2009

IEC 61000-4-11:2004

European Standard: 2006/95/EC

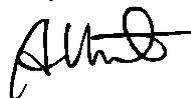
IEC 60950-1:2005(2nd Edition)+Am 1:2009

EN 60950-1:2006+A11:2009+A1:2010

Edimax Technology Co., Ltd.  
No. 3, Wu Chuan 3<sup>rd</sup> Road,  
Wu-Ku Industrial Park,  
New Taipei City, Taiwan

Date of Signature: September 14, 2011

Signature:



Printed Name:

Albert Chang

Title:

Director

Edimax Technology Co., Ltd.



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