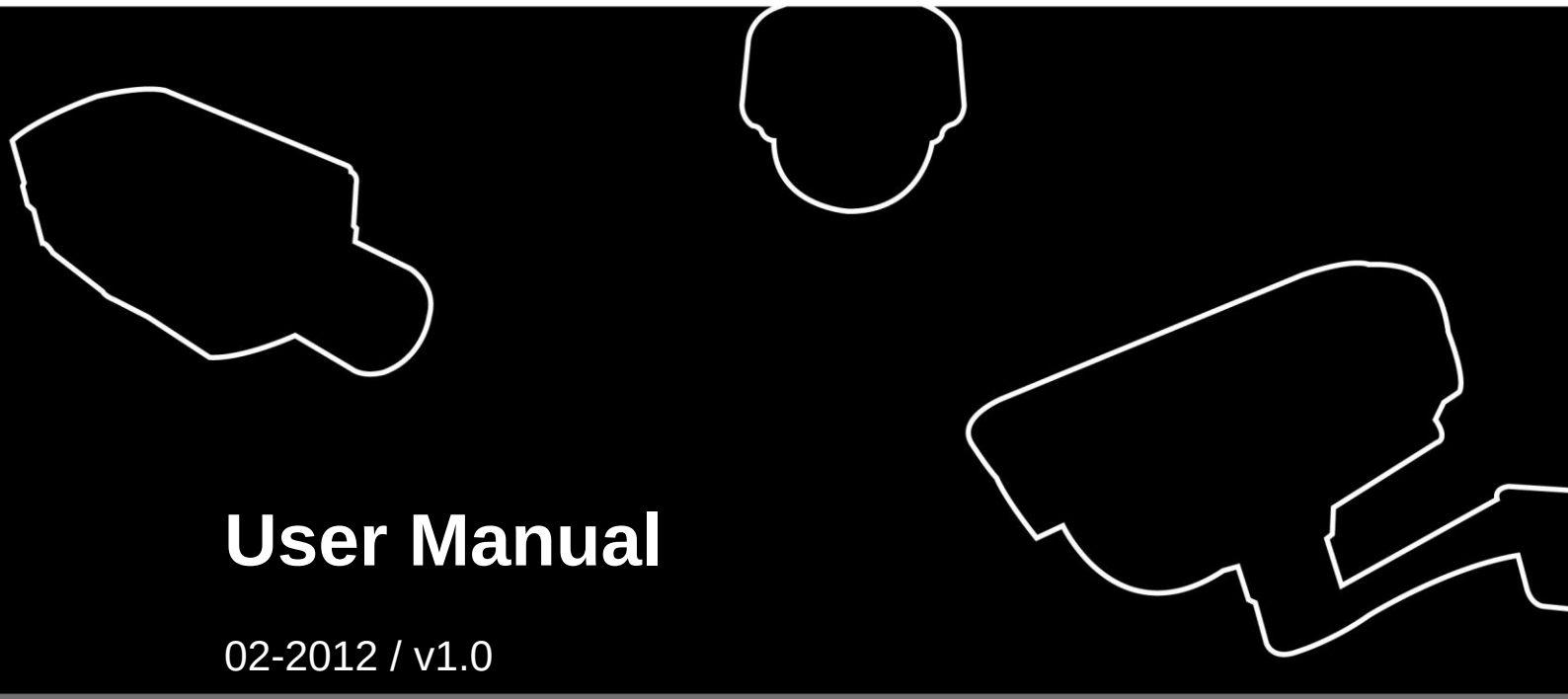
EDIMAX
NETWORKING PEOPLE TOGETHER

NC-203/NC-203E
NC-213/NC-213E



User Manual

02-2012 / v1.0

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Chapter I Introduction

1.1 Highlights of your new Network IP Camera

Congratulates on purchasing this high-resolution 3Mega pixels network IP Camera! This IP Camera provides 3Mega pixels high-resolution video quality, with the advanced megapixel lens, you can view images remotely in more detail than conventional close-circuit cameras.

Other highlights of this network IP Camera include:

- High-quality megapixel level lens set.
- Analog video (BNC) output, works with conventional video devices such as TV Monitors, analog DVRs, etc.
- Digital input / output interface lets you connect peripherals such as external alarm, sensor, etc.
- Audio input / output interface, you can listen to voices in remote place, and speak to person in remote place.
- Built-in SD-card slot for local storage, which can act like a stand-alone DVR.
- Two Way audio.
- 3GPP Mobile Surveillance Supported.
- RS-485 communication supported.
- ONVIF Compliant.

1.2 Safety Instructions

Please follow the safety instructions listed below when you're using this Network IP Camera, or you would harm this camera and / or yourself! Also, the warranty will become void if you disobey these safety instructions.

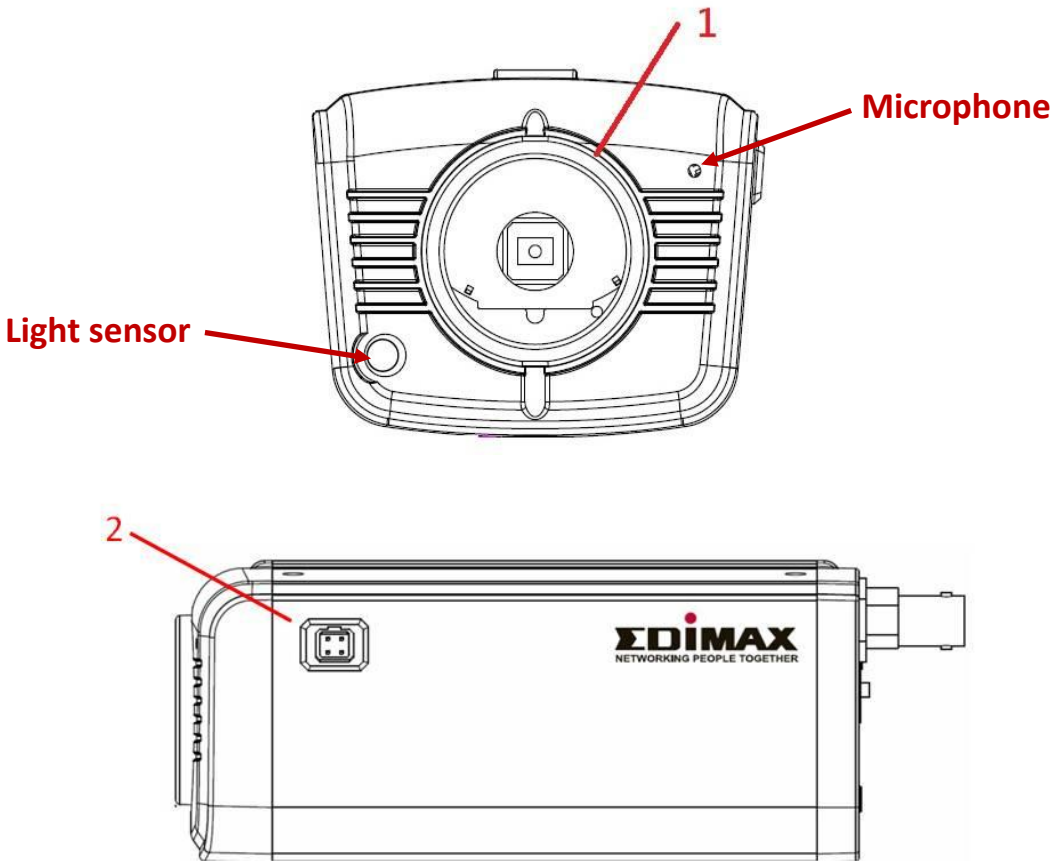
- This Network IP Camera is sophisticated electronic device; do not drop it from high places.
- Do not place this IP Camera at hot / humid places, and avoid direct sunlight.
- This IP Camera is not a toy; keep it out from the reach of children.
- Do not insert any accessories of this IP Camera into your body.
- Make sure lens set is secured when you're using this IP Camera, lens set may fall down if it's not properly secured, and cause damage to human and itself.
- If you want to use this IP Camera at any place that may be spilled by water or dirt, a secure and water-proof camera housing is required.
- Do not pull any cord that is connected to this IP Camera by force.
- IP Camera will become hot after long time of use. Refrain from touch IP Camera with hand, or cover this IP camera with paper or cloth.
- Never connect powered cable to IP Camera's DI/DO contacts.
- If the IP Camera falls into water when powered, do not attempt to retrieve it back by yourself! Find a qualified electric technician for help.

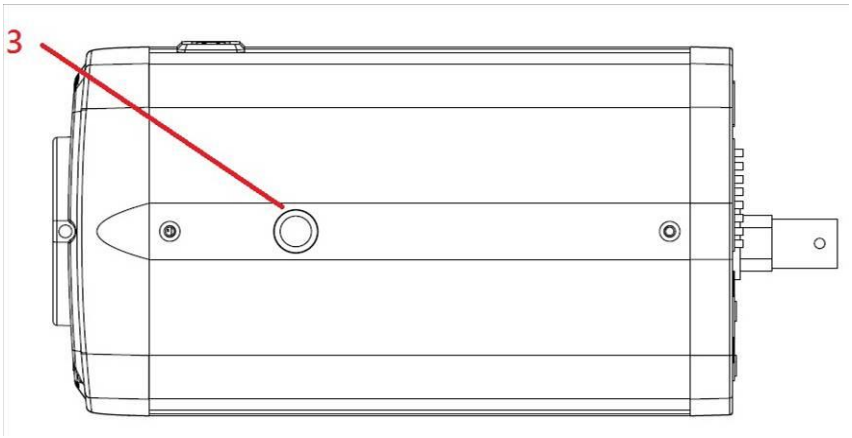
1.3 Packaging Contents

Please check the contents of your new Network IP Camera when you unpack the package. If any item is missing, please contact your dealer of purchase for help.

Item No.	Description	Quantity
1	Network camera	1
2	Power adapter (NC-213/NC-213E only)	1
3	CD (with utility software, user manual & multi-language QIG)	1
4	Quick installation guide	1
5	Accessory kit (NC-213/NC-213E only)	1

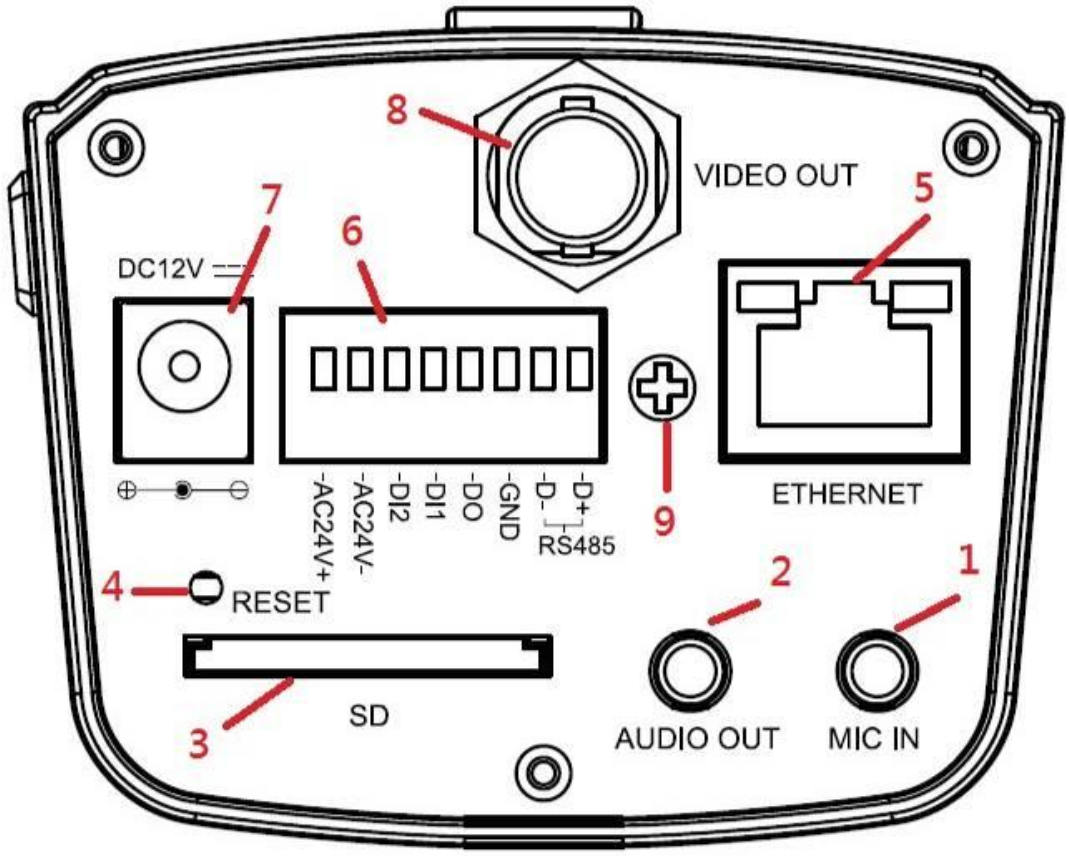
1.4 Familiar with your new Network IP Camera





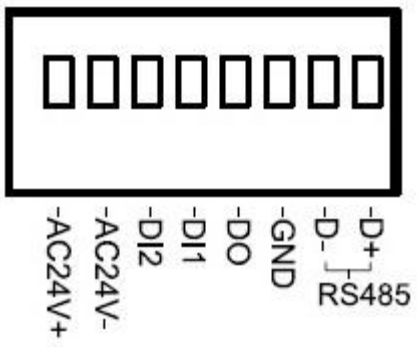
Item	Description
1. Lens mounting hole	Lens C-mount or CS-mount hole
2. Iris control port	Connects to lens set's iris control cable
3. Mounting hole	Connects to tripod or pan-tilt camera cradle to secure the IP camera *There's another mounting hole located at the opposite side of IP camera's body.*

[Back]



Item	Description
1. MIC IN	Connects to external microphone to input audio signal to IP camera. Use 3.5mm audio cable.
2. AUDIO OUT	Connects to external audio amplifier to output voice. Use 3.5mm audio cable.
3. SD	Inserts SD card for video recording. Maximum 32GB of SD-HD card supported.
4. 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, then the IP camera will download default setting automatically.
5. ETHERNET	Connect to your local area network by Ethernet cable. Left LED: Power indicator Right LED: Data transfer
6. DI/DO (Digital Input / Digital Output)	Digital input / output dry contacts. Connects to external peripherals by wire. See next page for pin definitions. **WARNING: DO NOT CONNECT POWERED CABLE!**
7. DC12V	Connect to DC power adapter output
8. VIDEO OUT	Output video signal, connect to external video devices
9. DC lens drive	Adjust the DC lens driving ability

[DI/DO PIN Assignment]



Item	Description
D+	RS485 signal positive (+)
D-	RS485 signal negative (-)
GND	Signal ground
DO	Digital Output #1
DI1	Digital Input #1
DI2	Digital Input #2
AC24V-	AC 24V power input negative (-)
AC24V+	AC 24V power input positive (+)

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

1.5 Installation of the Network IP Camera

1 Carefully remove the protective cap(s) from the lens and the network camera.



Note: NC-213/NC-213E standard fixed lens included

NC-203/NC-203E No lens included, Optional advances lenses are available separately

2 Connect the lens to the network camera by twisting the lens set clockwise slowly and carefully until it is secured. Please be careful not to touch the lens or the sensor during the process.

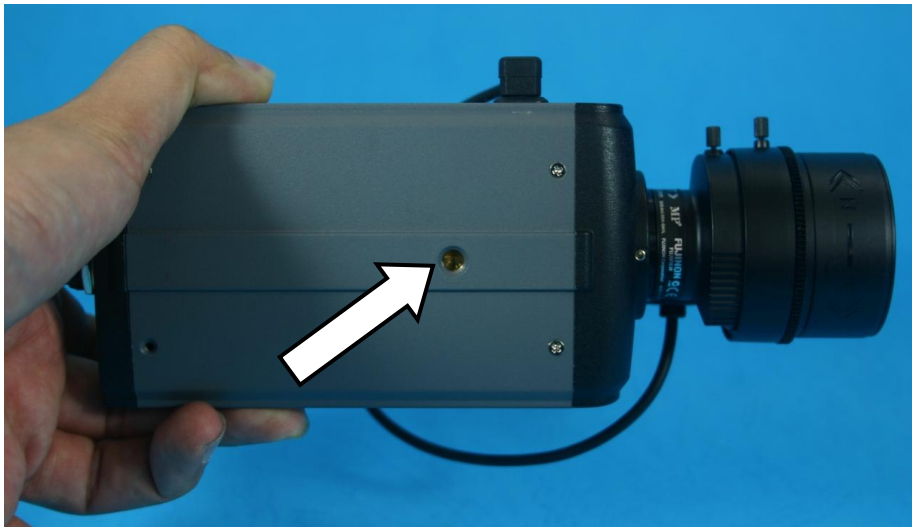


3 If you have an auto iris lens, connect the lens' iris control cable to the network camera's iris control port.



Note: Do not connect the iris control cable before connecting the lens to the camera.

4 Secure the network camera to a tripod, camera housing, or pan and tilt cradle via the tripod socket(s) on the camera.



5 Connect the network camera to a router/switch in the network via the Ethernet port.



Note: The NC-203E/NC-213E (PoE model) supports the IEEE 802.3af PoE standard and can be powered via the Ethernet cable when connected to a PoE switch.

6 Plug the power adapter to a power outlet, and then connect it to the power connector on the network camera.



7 You should then see the left LED on the Ethernet port light up. If not, please try the above steps again, or contact your dealer for help.



Chapter II Using Network IP Camera by Web Interface

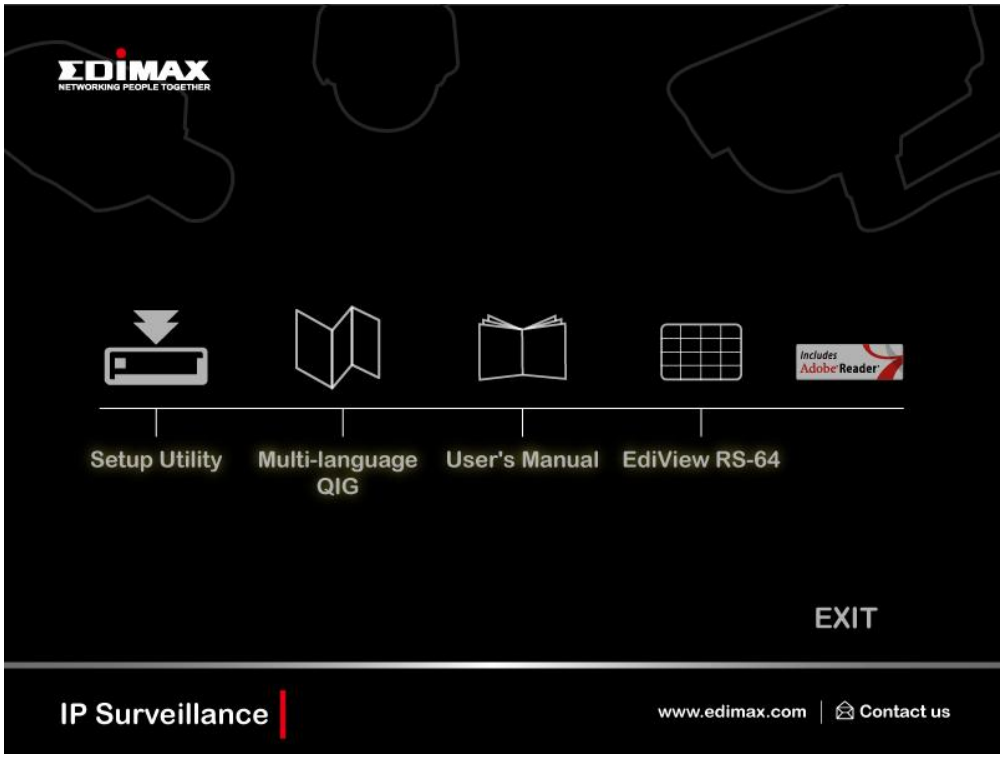
2.1 Locate the IP address of Network IP Camera

You can use your new Network IP Camera by its web user interface via web browser. Currently the viewing system requirement for Network IP camera is:

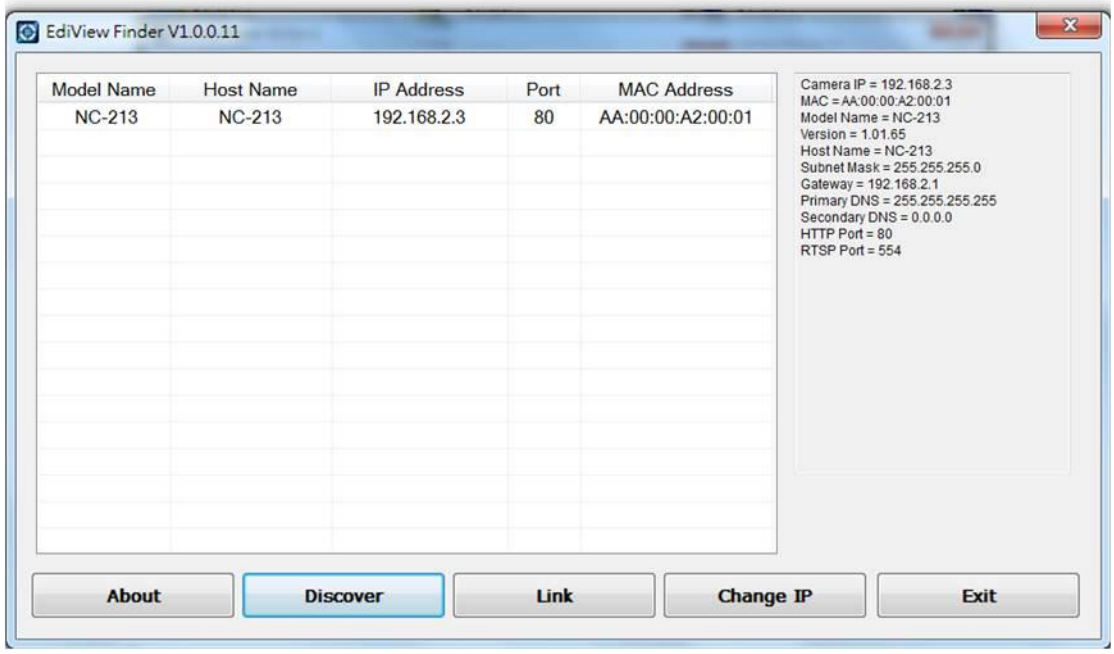
- OS: Microsoft Windows XP/Vista/7
- Browser: Mozilla Firefox, IE7 (and above for full functionality), Chrome, Safari or above
- Cell phone: 3GPP player
- Quick Time 6.5 or above

By default, the network camera automatically obtains an IP address from the DHCP server on your local network. Check your DHCP server's IP address lease table to find the network camera's IP address, or use the EdiView Finder utility included in the CD.

1. Insert the CD into your CD-ROM drive. When the wizard appears, click "Setup Utility" to install the "EdiView Finder" software.



2. After the installation is complete, double-click the “EdiView_Finder” icon to execute the application.



3. Press ‘Discover’ button to search for all IP Cameras on your local network (make sure all IP Cameras are powered on and connect to local network first). When you find any IP Camera, you can double click on it or click ‘Link’ button to connect to it by your web browser.

If you need to change a certain IP Camera’s IP address, you can also click on the IP Camera you wish to change IP address, then click ‘Change IP’ button to change select IP Camera’s IP address setting.

If you no longer need to use this utility, click ‘Exit’ button to close it.

Please note:

If you have several network connections, such as “Wireless Function”, please disable the “Wireless Functions” or/and other network connections that is not connected to IP camera, or IPFinder may fail to search IP camera!

2.2 Connect to IP Camera's Web User Interface and Install ActiveX Plugin

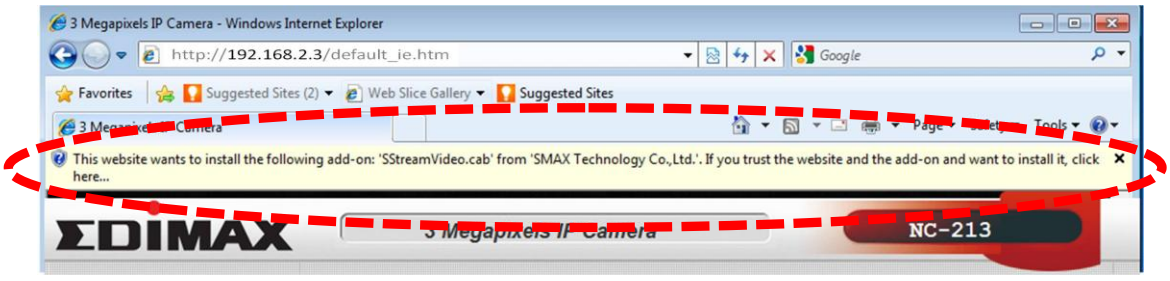
When you know the IP address of IP Camera, you can connect to it by Internet Explorer web browser by entering its IP address in address bar. The use login screen will appear when you get connected:



IP Camera's administrator username is 'admin' (lower case) and password is '1234' by default. Click 'OK' button or press 'ENTER' key on your keyboard when you finish entering username and password.

When you connect to IP Camera for the first time, you'll see the following message. This message prompts you that you need to install ActiveX plugin before you can see the video from IP Camera.

For IE 8 and earlier version:



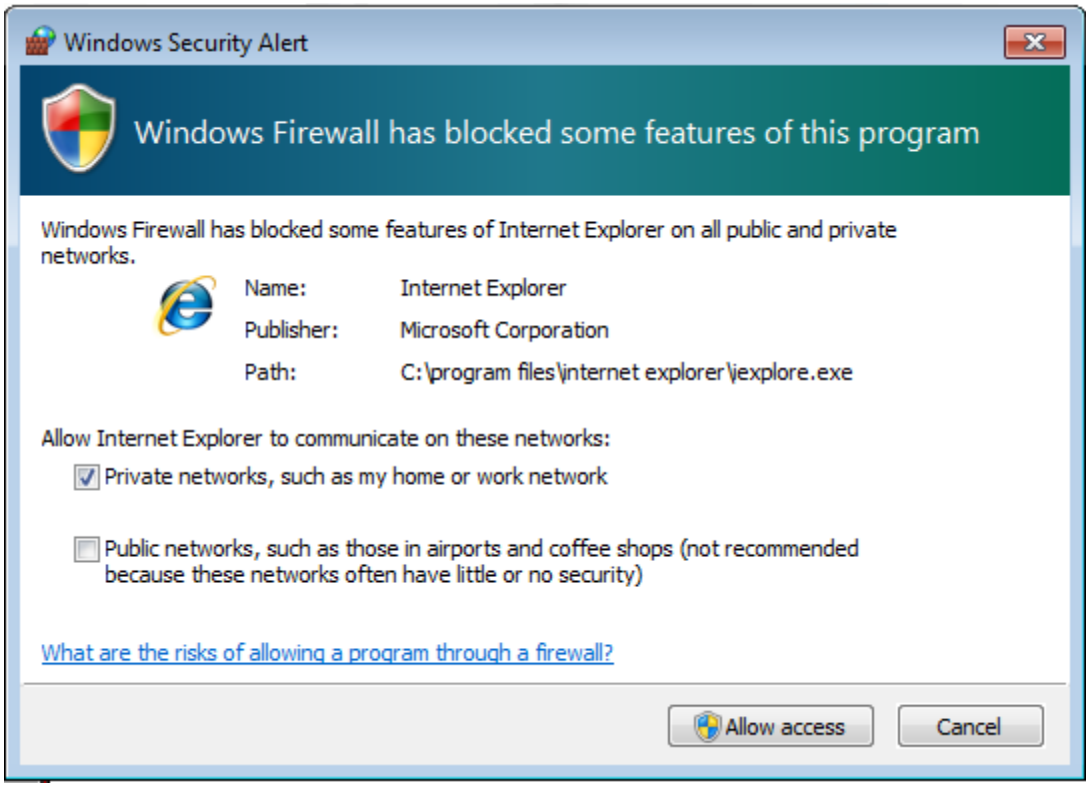
Right click the indication bar and click:
"Install This Add-on for All Users on This Computer…' to install ActiveX plugin.

For IE 9:

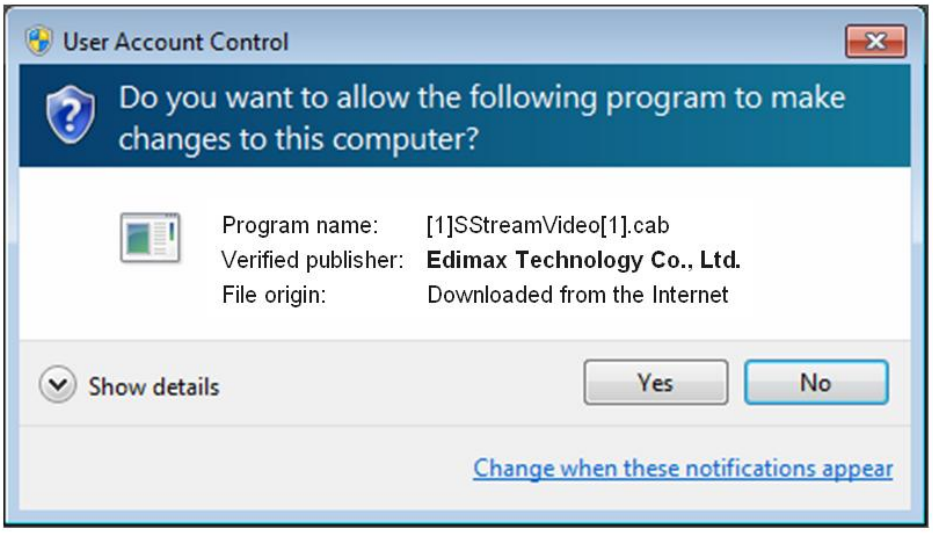


Click 'Install' button located at the bottom of IE to install ActiveX plugin.

If you're prompted that:
'Windows Firewall has blocked some features of this program'

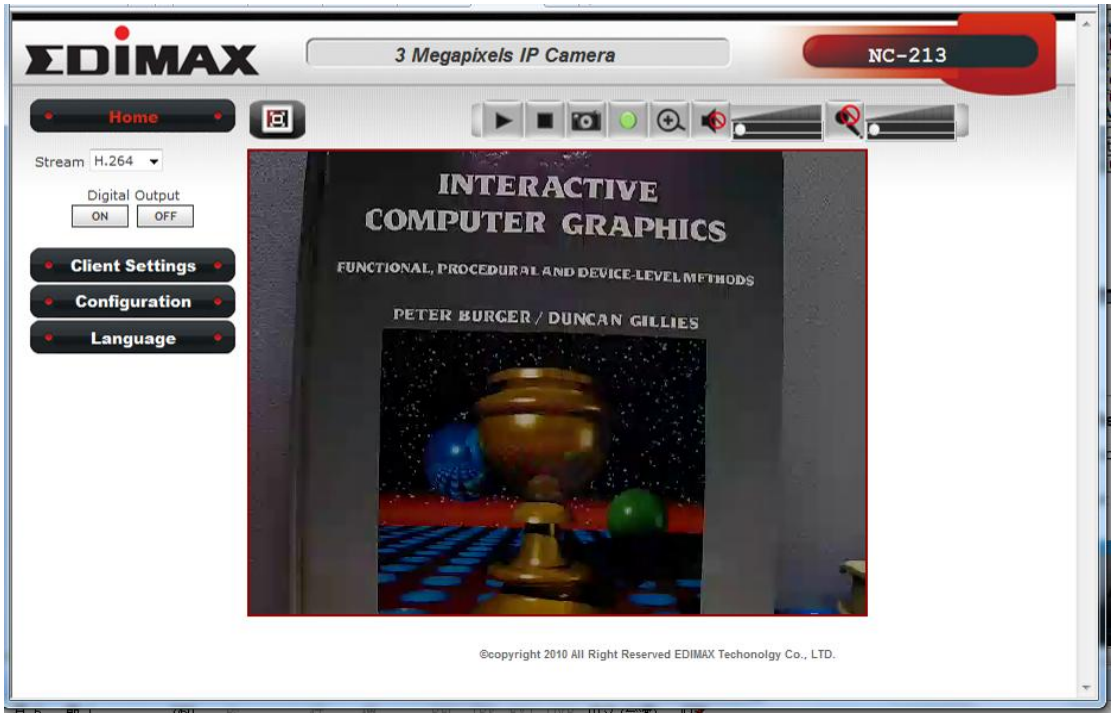


Click 'Allow access', or IP Camera will not be able to function properly.
When you're installing Internet Explorer plugin, you may also be prompted that if you want to allow changes to be made to your computer:



Click ‘Yes’ to allow changes.

After ActiveX plugin is installed, you should be able to see the video stream from camera.

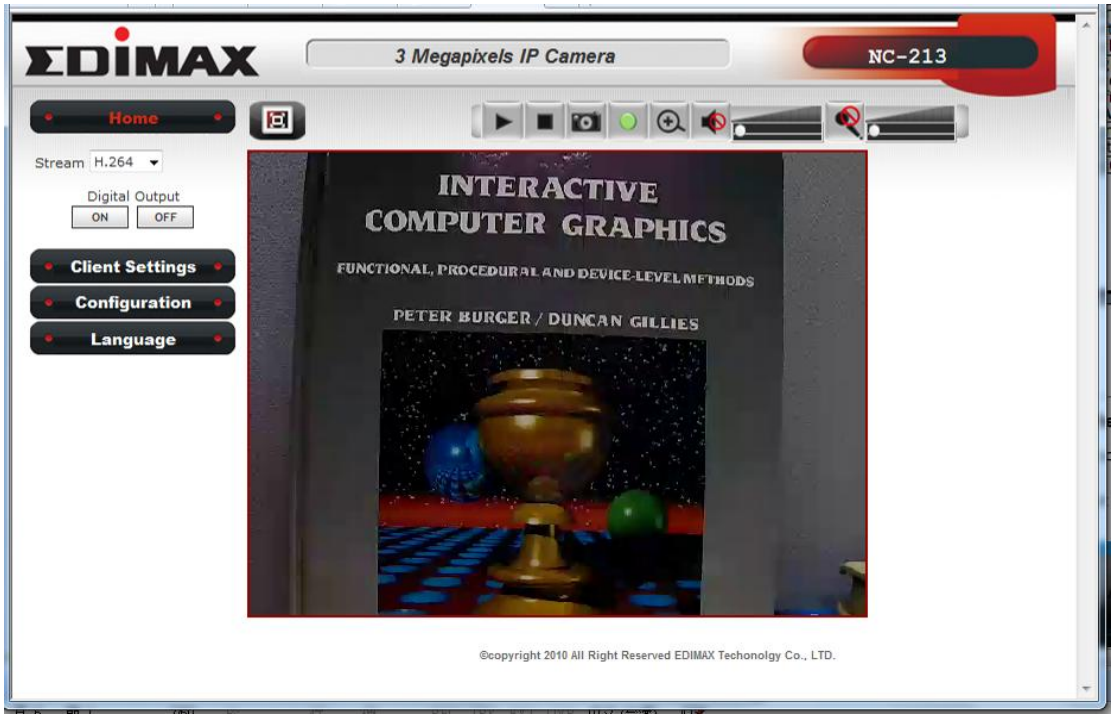


NOTE:

If this is the first time you use this IP Camera, you can refer to chapter 2.4 for instructions on Setup Wizard, which will guide you to complete the software setup of your new IP Camera.

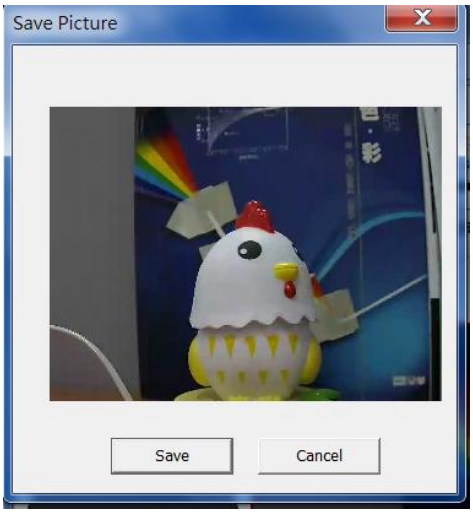
2.3 Viewing Live Video

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

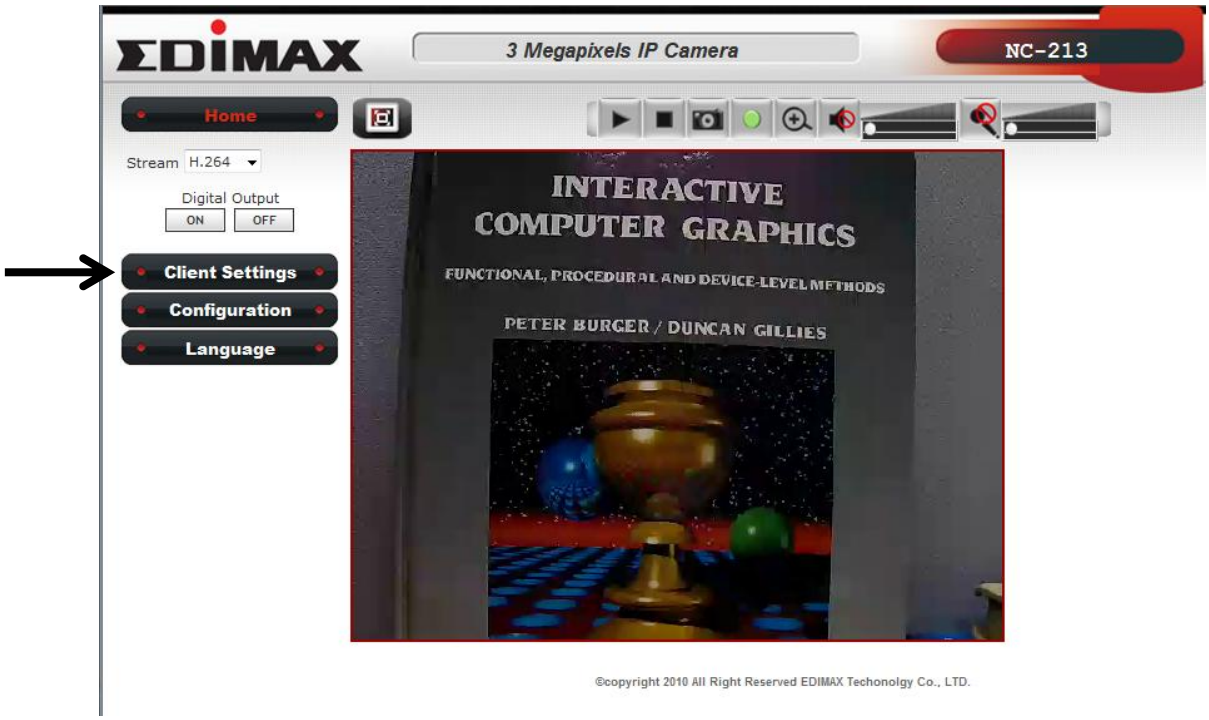
	resolution is not enough and you want to see full image view, switch to fit screen and image size will adjust automatically.
'Connect' button 	Start live video view.
'Disconnect' button 	Stop live video view.
'Snapshot' button	Take a snapshot or camera video and save image file on your computer. When you click this button, a new window will appear:  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'.
'Start Video Record' button 	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.
'Enable Digital Zoom' button 	This function will enlarge video view digitally from 1X to 10X, so you can see objects in video in detail. *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.
Enable / Disable mute button  / 	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 (). You can drag the slide bar () beside enable/disable mute button to adjust audio playback volume.
Start / Stop talk Button  / 	Start or stop playing your voice through IP camera's audio output. When talk is stopped, people at IP camera will not hear you. 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.

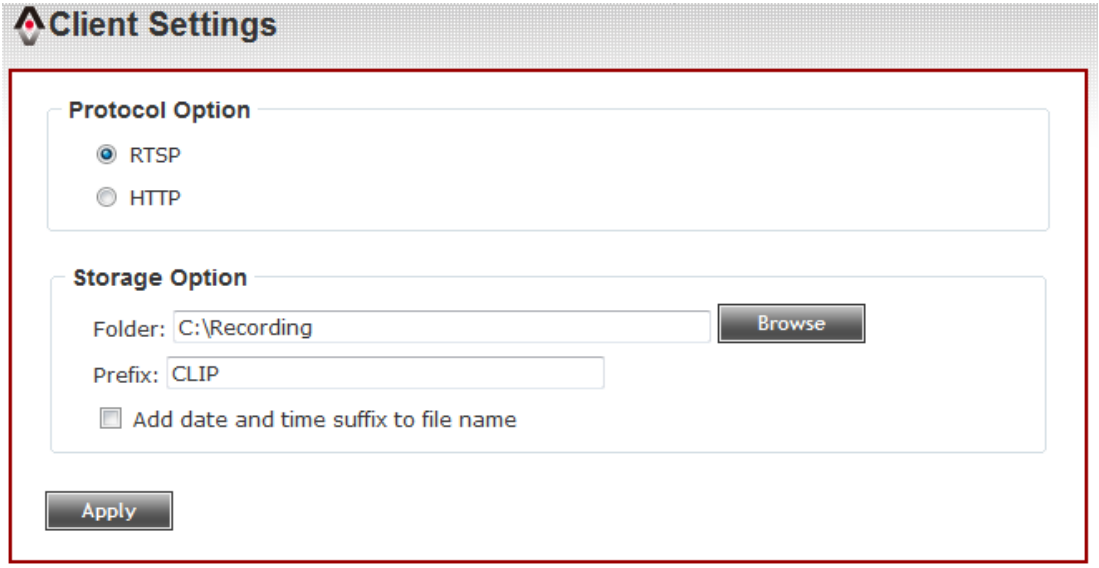
2.4 Client Settings

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:

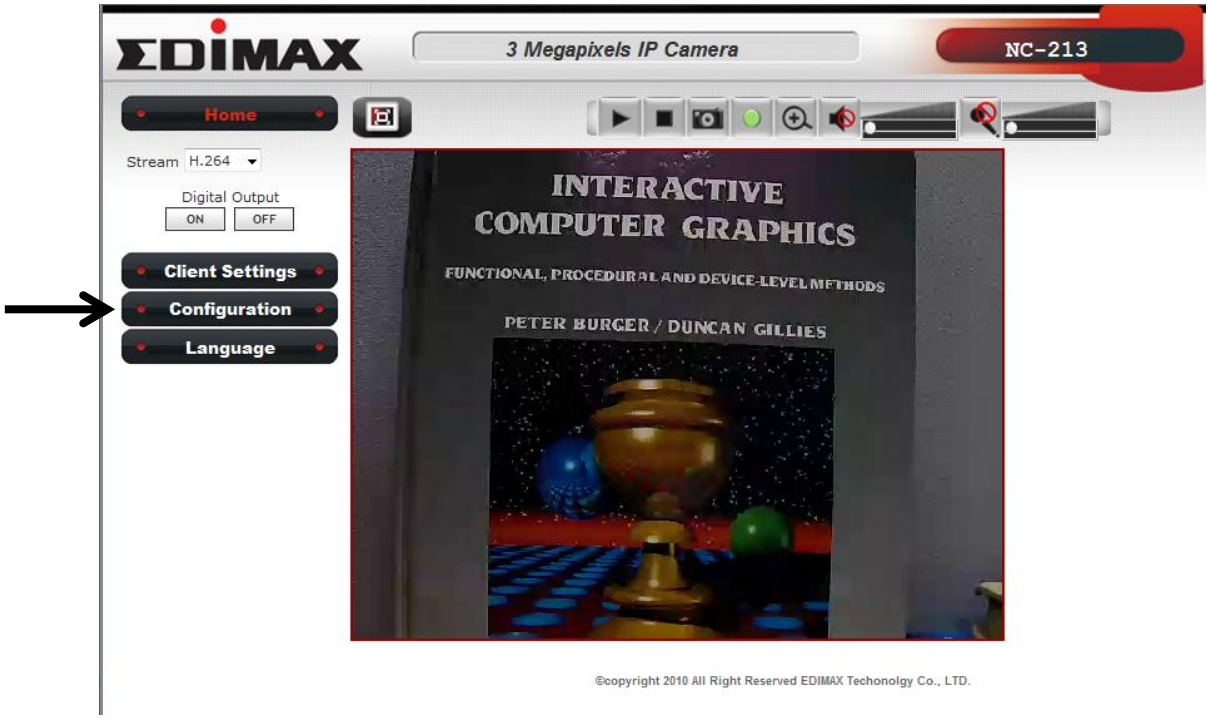
Item	**Description**
RTSP	Select this option to use RTSP (Real-Time Streaming Protocol) to transfer video data.
HTTP	Select this option to use HTTP (Hyper-Text Transfer Protocol) to transfer video data. If you don't know which one you should use, select 'RTSP'.
Folder	Select a folder on your computer 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.

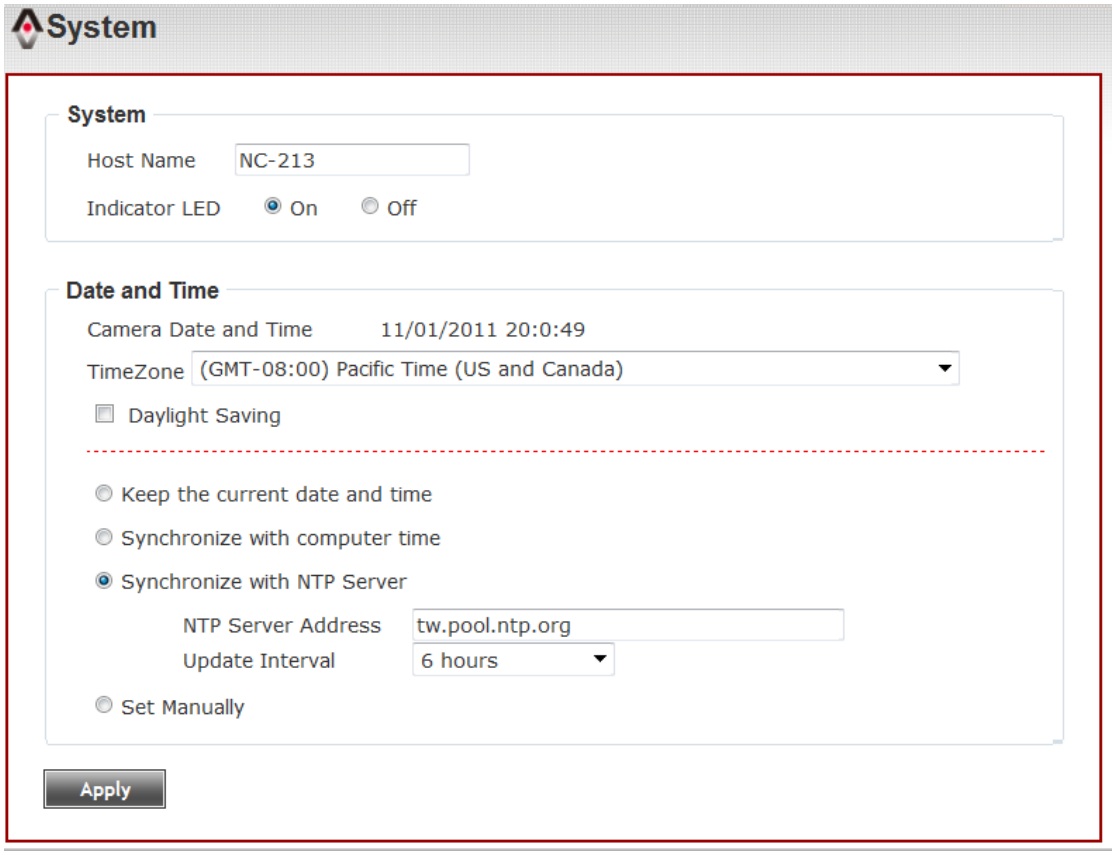


The 'Configuration' submenu will appear, please pick a setup item you wish to configure.



3-1 System

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



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. *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.*
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

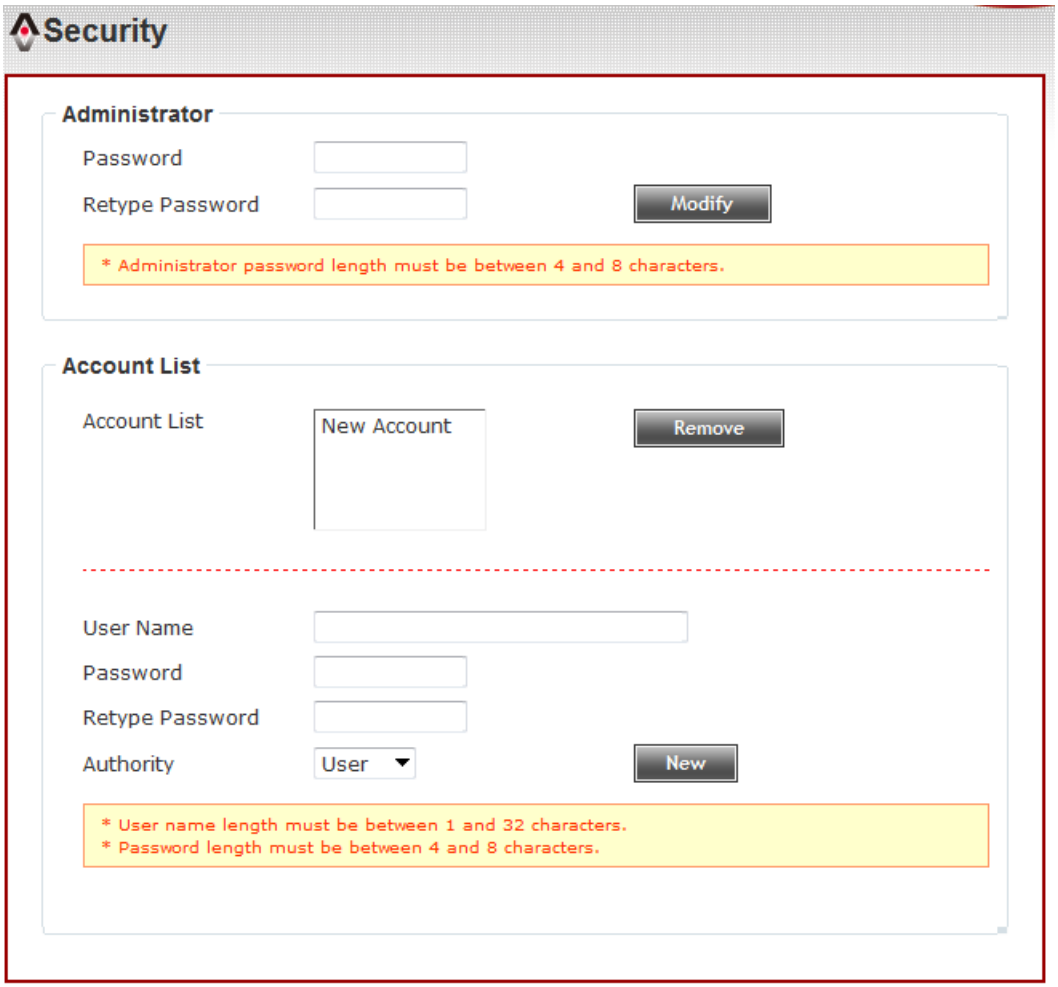
In this menu, you can configure IP camera's login account.
There are three kinds of account:

- 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').



Here are the descriptions of every setup item:

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

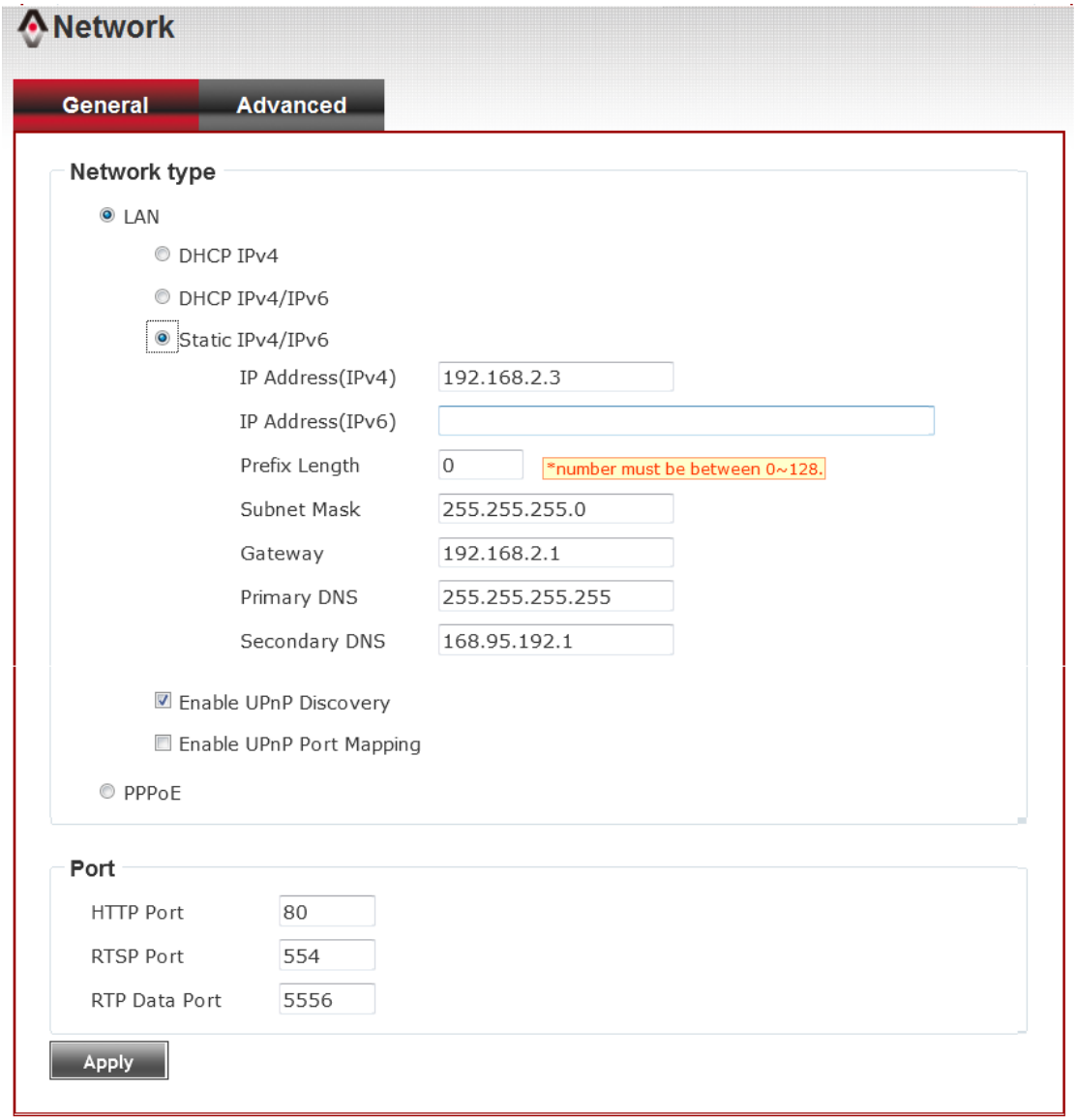
Account List	Here lists all users existed in IP camera. If you want to remove one user, click it in the list, and then click 'Remove' button. *If no user is existed, 'New Account' message will be shown here.*
User Name	Input new user's username here. User name must be greater than 1 character and less 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

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



Here are the descriptions of every setup item:

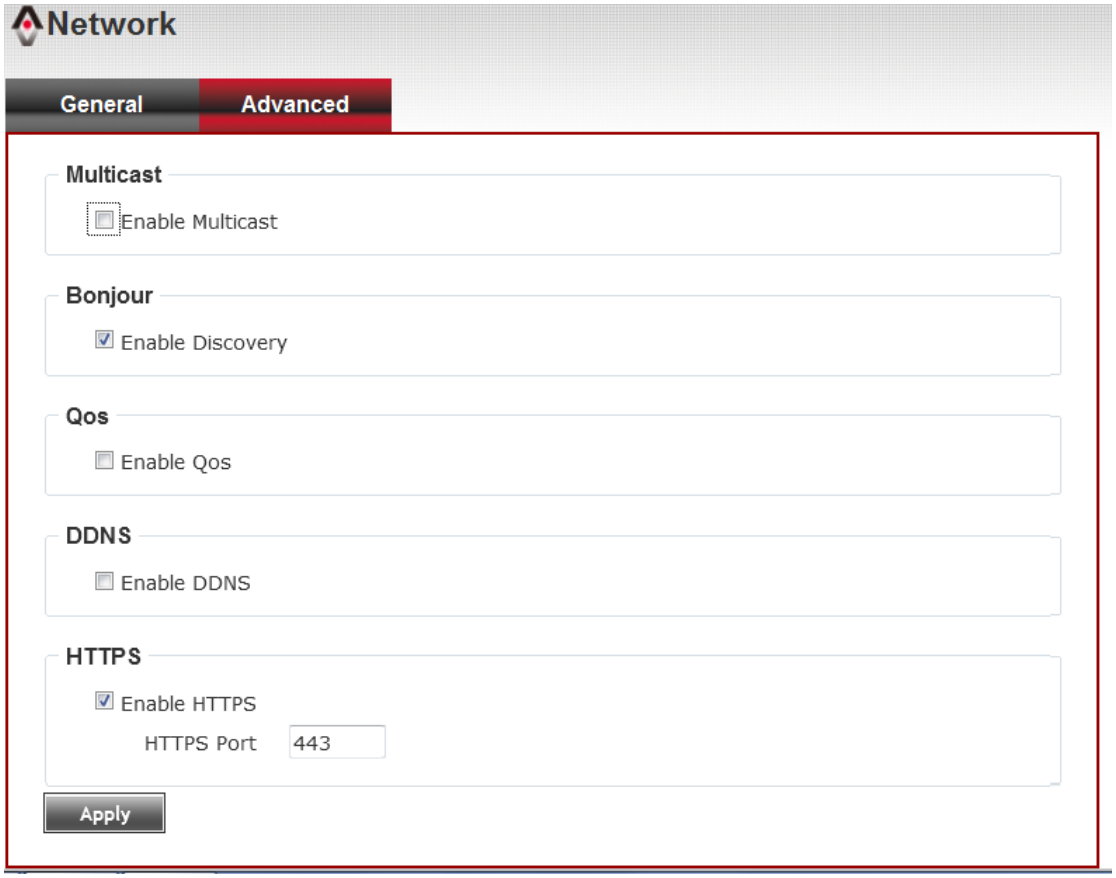
Item	Description
LAN	Select this option to assign an IP address to LAN port (or obtain an address from DHCP server automatically). Available options are: DHCP IPv4: Obtain an IPv4 IP address from DHCP server on LAN automatically. DHCP IPv4 / IPv6: Obtain both IPv4 and IPv6 address from DHCP server on LAN automatically. 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. IP Address(IPv4): Input IPv4 IP address* IP Address(IPv6): Input IPv6 IP address* Prefix Length: Input IPv6 IP address' prefix length (0-128) Subnet Mask: Input subnet mask Gateway: Input gateway address Primary DNS: Input DNS server's IP address Secondary DNS: Input backup DNS server's IP address, you can leave this field blank. * You can leave this field blank, if you only wish to use IPv4 or IPv6 IP address. Enable UPnP Discovery: Check this b ox to enable other devices on network to discover the presence of this IP camera by UPnP. It's recommended to enable this function. Enable UPnP Port Mapping: When UPnP is enabled, check this box to enable UPnP's port mapping.

PPPoE	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.
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.

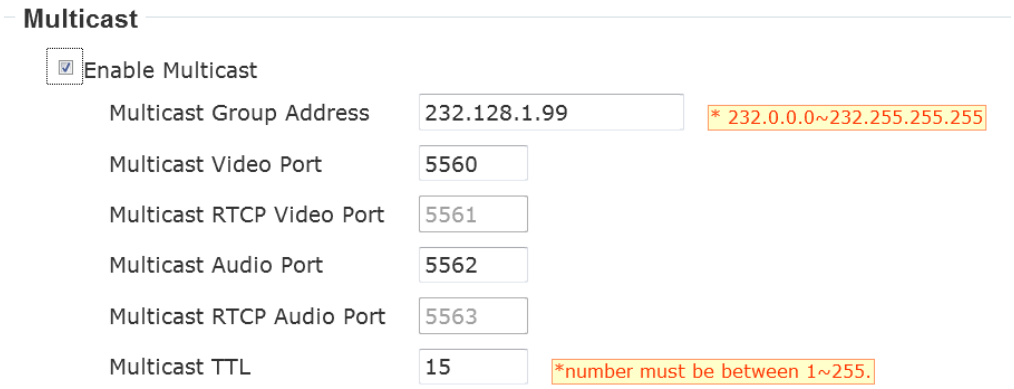
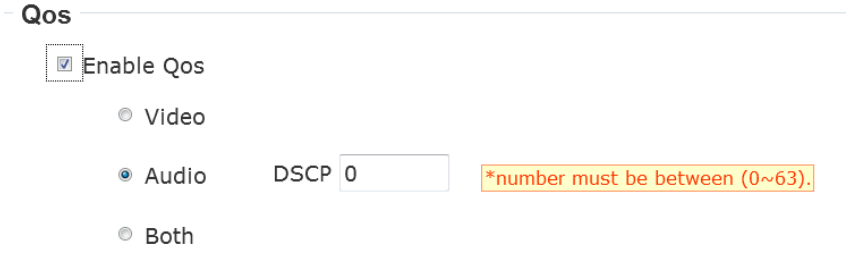
When you finish with above settings, click 'Apply' button to save changes.

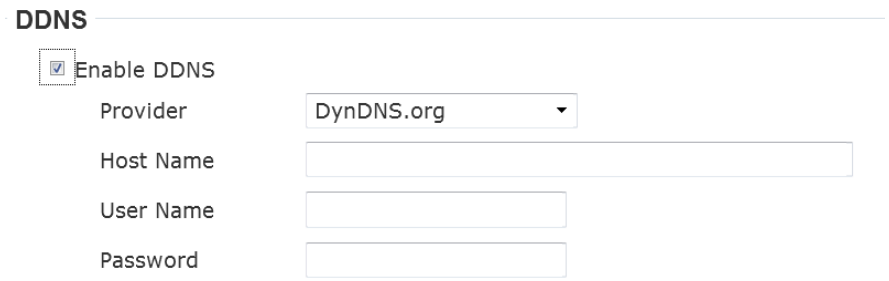
3-3-2 “Advanced” Setup Page

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:

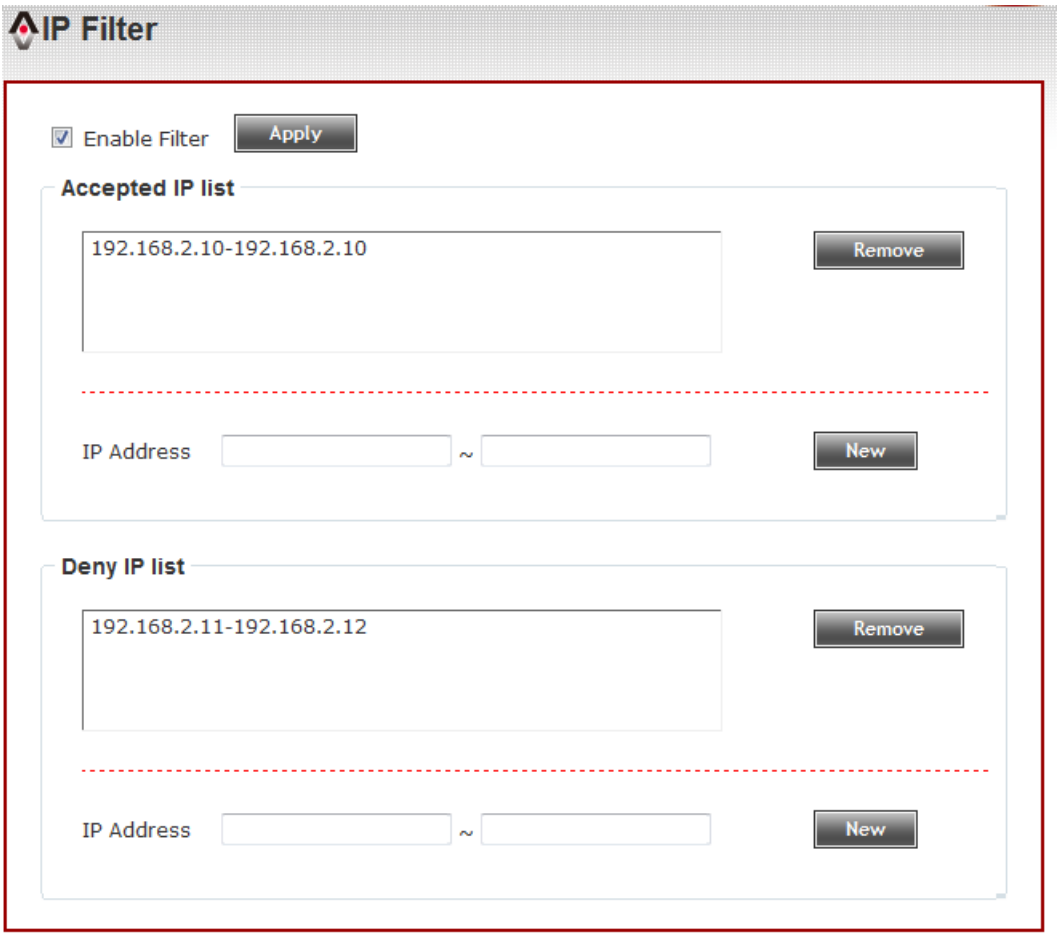
Item	Description
Multicast	Enable video multicast:  Multicast Group Address: Input multicast group address here, must be an address between 232.0.0.0 to 232.255.255.255. Multicast video port: Input port number for video multicast here. Multicast RCTP video port: Input port number for RCTP video here. Multicast audio port: Input port number for audio here. Multicast RCTP audio port: Input port number for RCTP audio here. Multicast TTL: Input TTL value for multicast here.
Bonjour	If you're using MacOS and you have Bonjour installed, you can use it to discover this IP camera.
QoS	Enable QoS to improve the data transfer priority of this IP camera (Your local area network must support QoS).  You can select Video / Audio's QoS DSCP value (0 to 63), or both video and audio.

DDNS	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.  Provider: Select dynamic IP service provider. Host Name: Input the host name you obtained from dynamic IP service provider. User name: Input user name used to login dynamic IP service provider. Password: Input the password used to login dynamic IP service provider.
HTTPS	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'.

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 cannot 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 deny connections here. IP camera will deny 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 deny IP list.

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

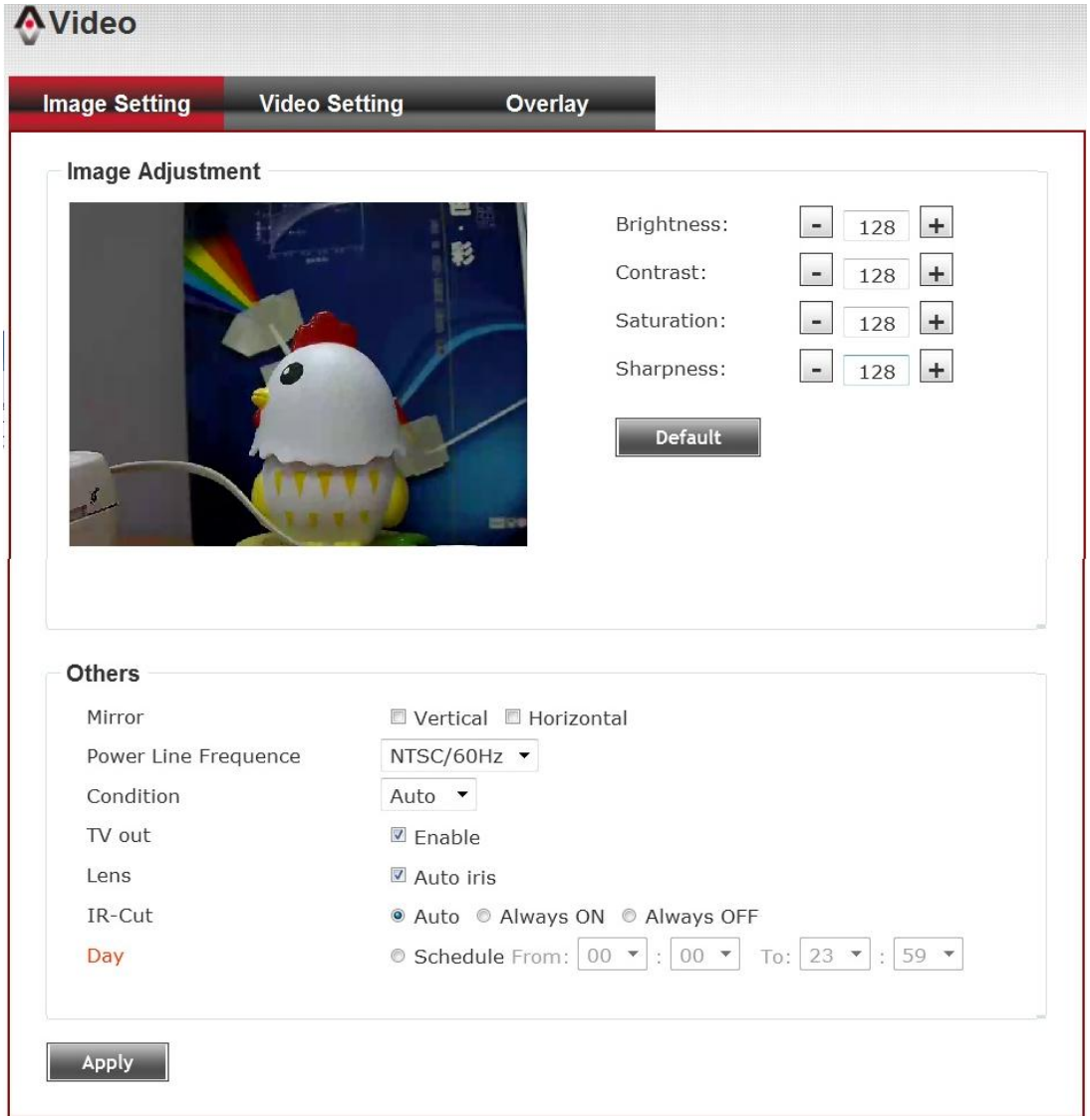
3-5 Video

You can adjust the image of the IP camera in this menu.
There are 3 sub-menus in this menu: Image Setting, Video Setting, and Overlay, which can be accessed by tabs on the top:



3-5-1 Image Setting

You can adjust the image parameters in this page.



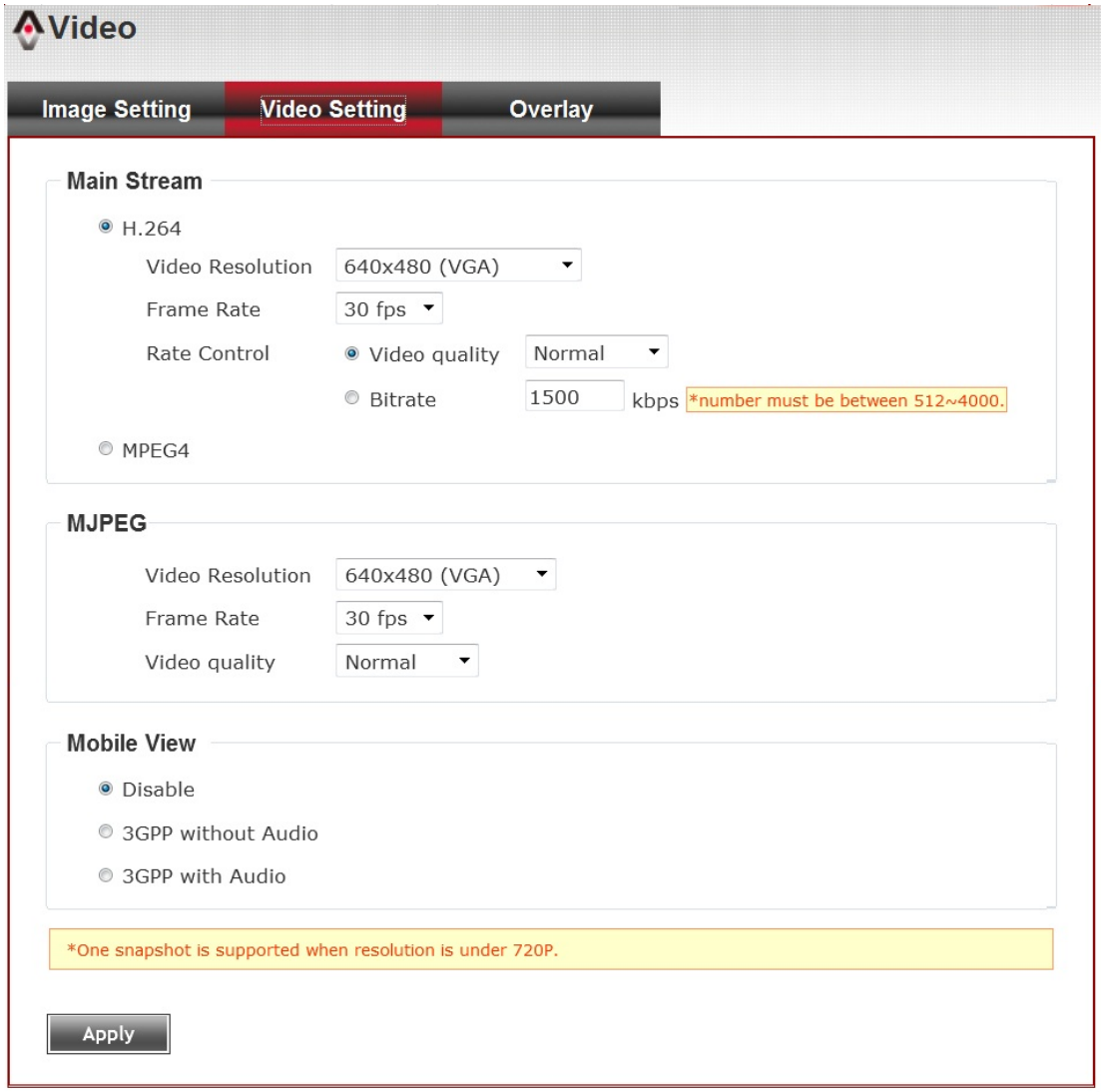
Here are the descriptions of every setup item:

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.
Condition	Select the condition that you’ll be using this IP camera from dropdown menu. - Auto: IP camera will adjust its parameters automatically. - Night: You’ll be using this IP camera in dark places where lights are insufficient.
TV Out	Click “Enable” box to enable its “VIDEO OUT” function for connections and video sending to TV monitors or DVRs.
Lens	(under “TV Out”) While connecting with an auto iris lens, and would like to have clear images from “VIDEO OUT”, please click “Auto iris” to enable this feature.
Day	IR-cut filter will only be switched on when there’s sunlight. You can define the starting and ending time when IR-cut filter should be switched on by select ‘Schedule’ and define starting and ending time by dropdown menu.

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

3-5-2 Video Setting

You can adjust the video transfer parameters in this page.



Here are the descriptions of every setup item:

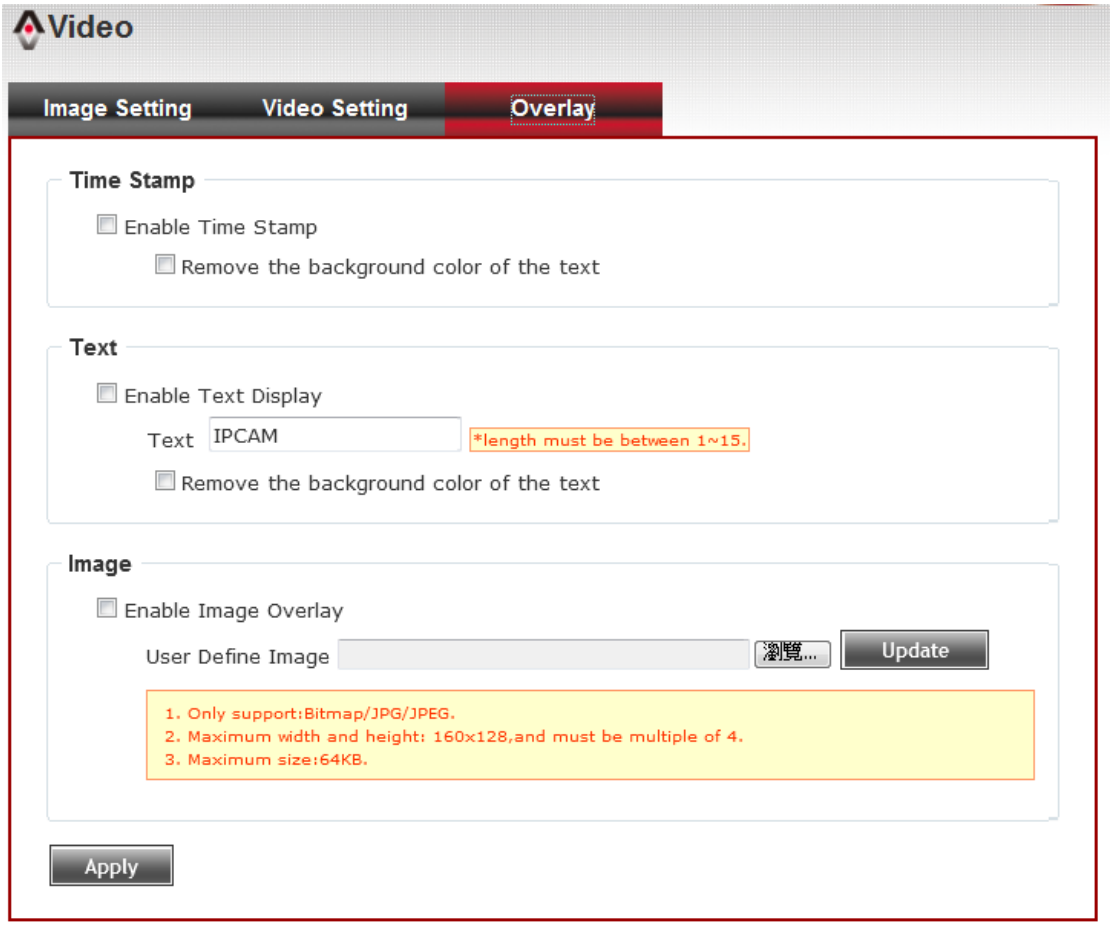
Item	Description
H.264 /MPEG4	Select the compression of main stream: H.264 / MPEG4.
Video Resolution	Select video resolution. - H.264: 2048x1536 (QXGA) / 1920x1080 (1080p) 1280x960 (960p) / 1280x720 (720p) 720x480 (D1) / 640x480 (VGA) 320x240 (QVGA) - MPEG4: 1920x1080 (1080p) / 1280x960 (960p) 1280x720 (720p) / 720x480 (D1) 640x480 (VGA) / 320x240 (QVGA) MJPEG: 1280x720 (720p) / 720x480 (D1) 640x480 (VGA) / 320x240 (QVGA) Please note that some video resolution is not available when video encoder is 'MPEG4'. When network speed is insufficient, select a lower video resolution will help.
Frame Rate	Select video frame rate. Please note that some frame rate is not available when video encoder is 'H.264'. When network speed is insufficient, select a lower frame rate will help.
Rate Control	Select video bit rate. You can control bit rate by both 'Video quality' and 'Bitrate': - 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. - 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.

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

Note: *MJPEG options are only available for portable devices like cell phone.*

3-5-3 Overlay Setting

You can adjust the video overlay parameters in this page.



Here are the descriptions of every setup item:

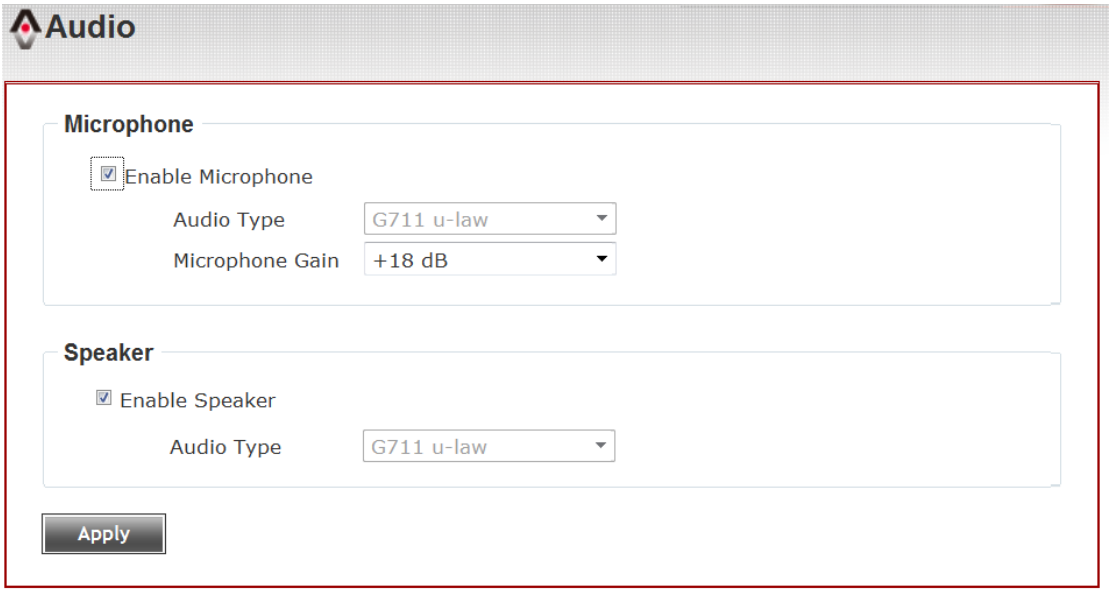
Item	Description
Enable Time Stamp	Check this box to enable overlaying time stamp on video.
Remove the background color of the text (for Time Stamp)	Check this box to remove time stamp's background color. You may find this will help the readability of time stamp text in some cases.
Enable Text Display	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

of the text (Text)	readability of text in some cases.
Enable Image Overlay	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. 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: - Select .bmp / .jpg / .jpeg image files only. - Image's resolution should be less than 160 x 128, and can be divided by 4. - Do not upload image files that size is greater than 64KB.

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:

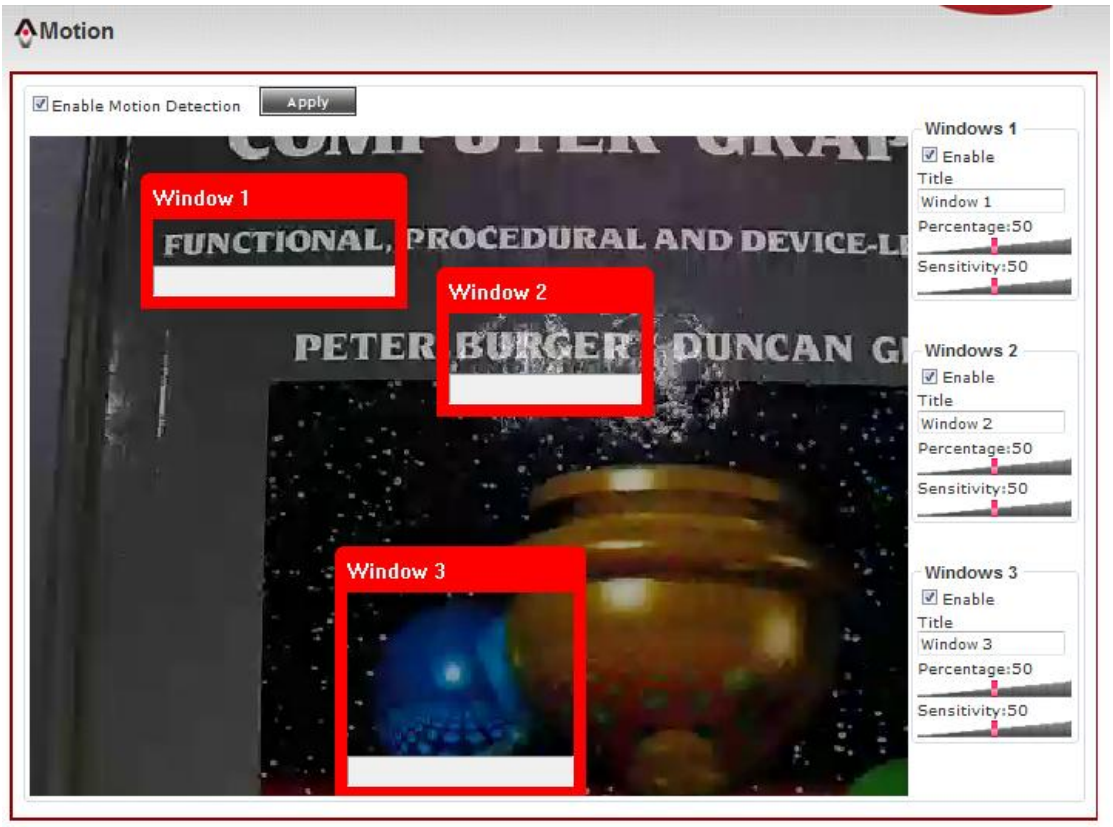
Item	Description
Enable Microphone	Check this box to enable microphone. If you don't want to hear voice from IP camera, you can uncheck this box to disable it.
Audio Type (Microphone)	The format is fixed as G.711
Microphone Gain	If the voice received by microphone is too loud or silent, you can use this function to improve voice volume, so you can hear voice from IP camera more clearly. - Select -2 or -1 dB to correct the voice that is too loud; - Select 0 dB and IP camera will do nothing on the voice; - Select +2 dB to +26 dB to amplify the voice.
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

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:

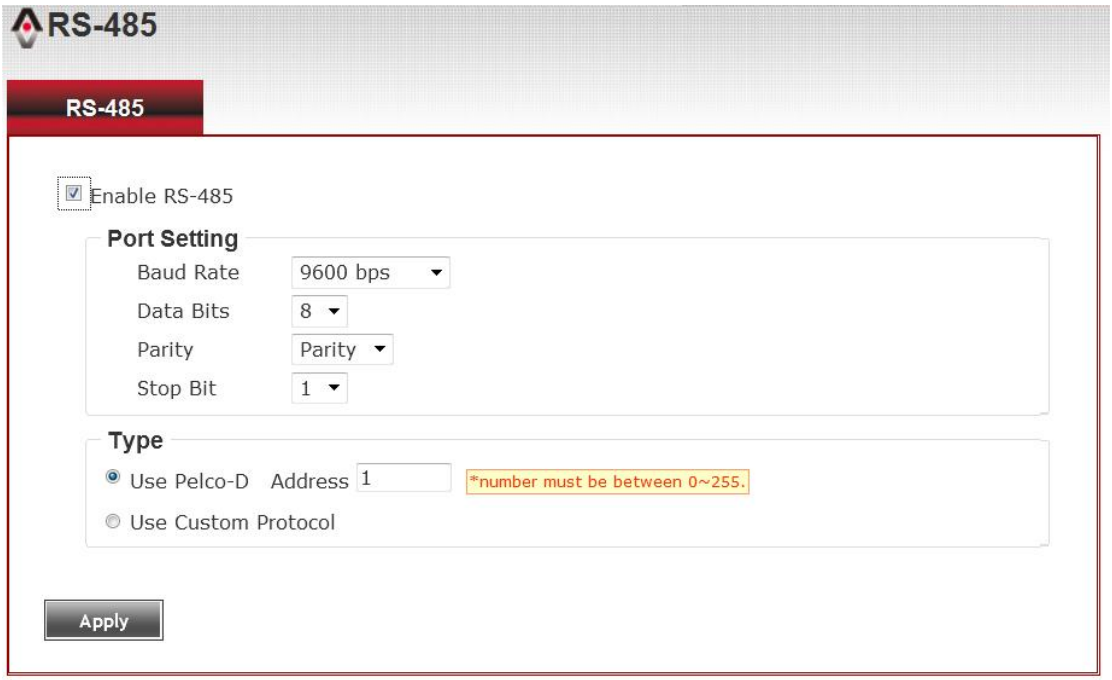
Item	**Description**
Enable Motion Detection	Check this box to enable motion detection.
Enable (Window 1 to Window 3)	Check this box to enable this motion detection window. You can select window 1 to 3 to enable up to 3 motion detection windows. When a motion detection window is enabled, a rectangular will appear on camera's view, with its title on the top. - To move / resize a motion detection window:  - Move: Use the mouse to drag the title text. - 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).

Title (Window 1 to Window 3)	Input characters in title field to change motion detection area's title text so you can identify it. Please note that you have to click 'Apply' button and the text will change.
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.

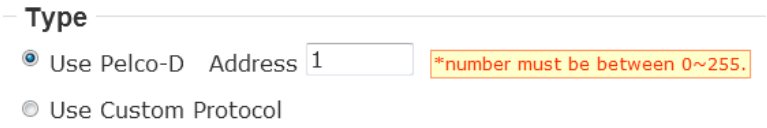
When you finish with above settings, click 'Apply' button to save changes.

3-8 PTZ Control (RS-485)

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.



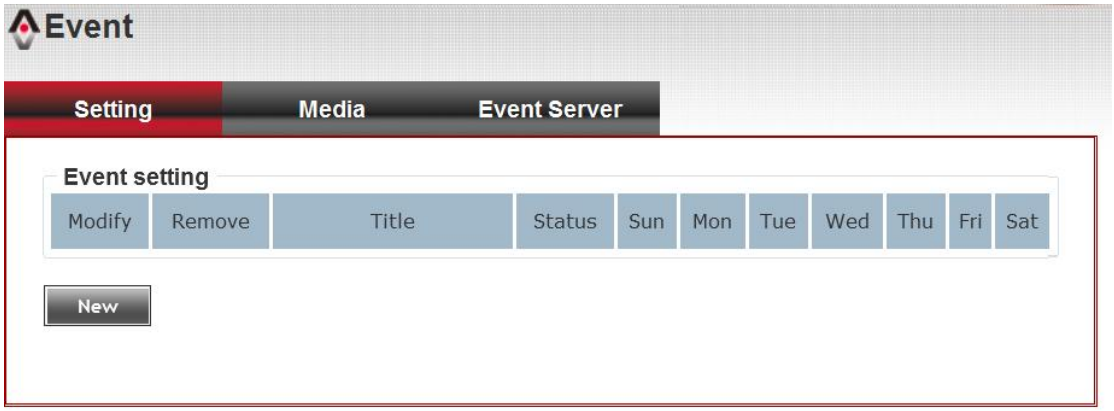
Here are the descriptions of every setup item:

Item	Description
Enable RS-485	Check this box to enable RS-485 functionality.
Use Pelco-D	Select this option and RS-485 interface will output pan-tile control signal in Pelco-D format. This format is widely accepted by most of pan-tilt camera cradles.  You have also input pan-tilt camera cradle's address code in 'Address' field (number must be between 0~255). This code must be identical to pan-tilt camera cradle's address code.
Use Custom Protocol	When the pan-tilt camera cradle does not support Pelco-D protocol, you can define a protocol's detail by this function. ***Please refer to pan-tilt camera cradle's user manual to define the protocol.*** - Baud Rate: Select data baud rate of RS-485 interface that pan-tilt camera cradle will accept. When the length of RS-485 connection is very long (longer than 200M), it's not recommended to use high speed connection (greater than 2400bps). - Data Bits: Select data bits of RS-485 connection. - Parity: Select parity bit: odd, even, or space. - Stop Bit: Select stop bit: 1 or 2. - Home/Up/Down/Left/Right: Input the command string used to move pan-tilt camera cradle to home or up/down/left/right position. You can click 'Test' button to send command string for testing. - Command 1 ~ 5: You can define extra pan-tilt camera cradle control strings here by giving it a name (Command Name) and command string (Hexadecimal Message). You can also click 'Test' button to send command string for testing.

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

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:

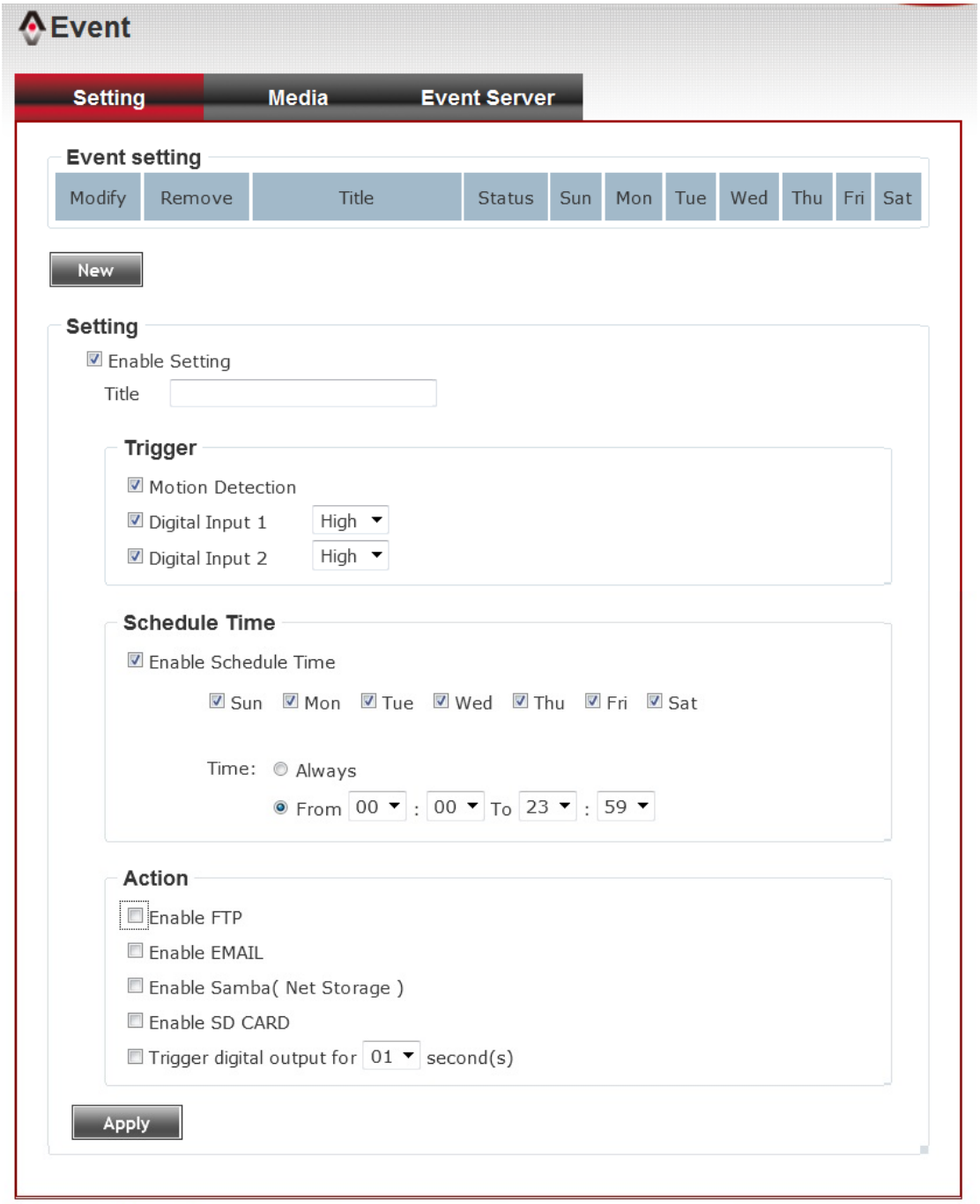


1. Setting: Define a new event and manage events.
2. Media: Define what kind of media file should be saved on designate media.
3. Event Server: Define the details of remote server.

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.
To create a new even, just click “New” button to add an Event setting.

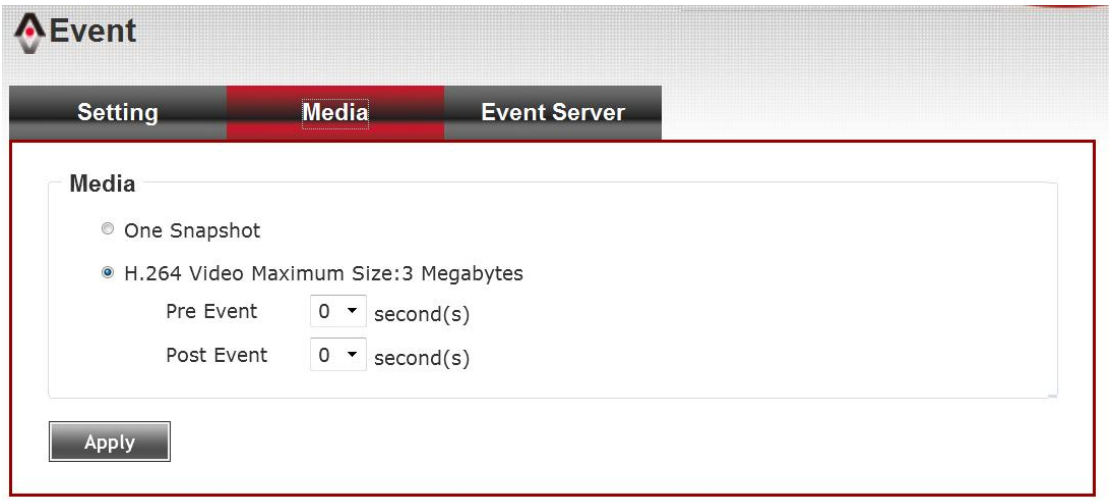


To add a new event, click ‘New’ button and the descriptions of every setup item is listed below:

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, 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.



Here are the descriptions of every setup item:

Item	Description
One Snapshot	Save a picture file when event is triggered.
H.264 Video	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'. For example, if you set 'Pre Event' to '2' and 'Post Event' to 3', and an event is triggered at 14:10:30, then the video file will be 5 seconds long, starting from 14:10:28 to 14:10:33. ***Tips: You may want to know what happened before event is triggered in many cases, especially when object is outside of motion detection window.*** ***Note: If the "Pre Event" set to "0" second, the "Post Event" cannot set to "0" second.***

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

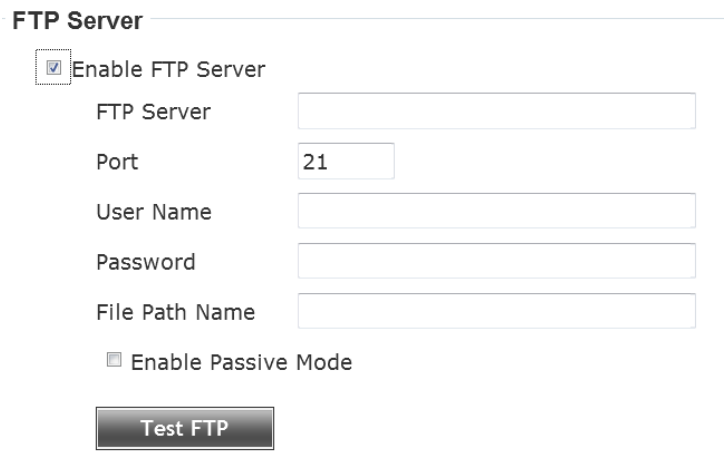
3-9-3 Event Server

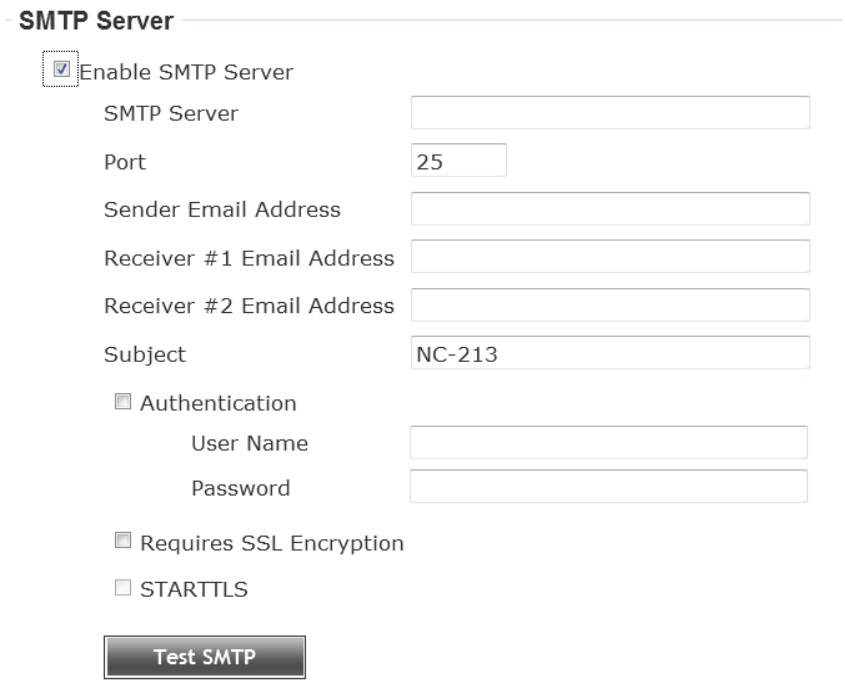
You can define the details of remote media server: FTP (File), SMTP (Email), and Samba (File).

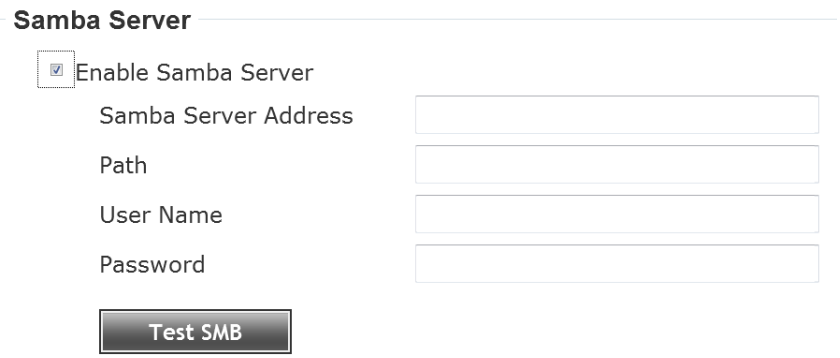
A Samba server can be any computer running windows operating system with network neighbor function enabled. Many stand-alone network file server also support samba server function.



Here are the descriptions of every setup item:

Item	Description
FTP Server	Check this box to enable FTP server upload.  - FTP Server: Input FTP server's IP address or hostname. - Port: Input FTP server's port number. In most cases it should be default value '21'.

	- User Name: Input FTP server's username. - Password: Input FTP server's password. - 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. - 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). - Test FTP: Click this button to test FTP server settings above immediately.
SMTP Server	Check this box to enable Email send.  - SMTP Server: Input SMTP server's IP address or hostname. - Port: Input SMTP server's port number. In most cases it should be default value '25'. - 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 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.

<table>
<tr><td></td><td>- 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.</td></tr>
<tr><td>Samba Server</td><td>Check this box to enable Samba server file upload.


- Samba Server Address: Input Samba server's IP address or hostname.
- Path: Input the path where you want to save file on Samba server, like 'upload/record'. If you want to save file on this user's home directory, you can leave this field blank.
- User Name: Input Samba server's username.
- Password: Input Samba server's password.
- Test SMB: Click this button to test Samba server settings above immediately.
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.</td></tr>
</table>

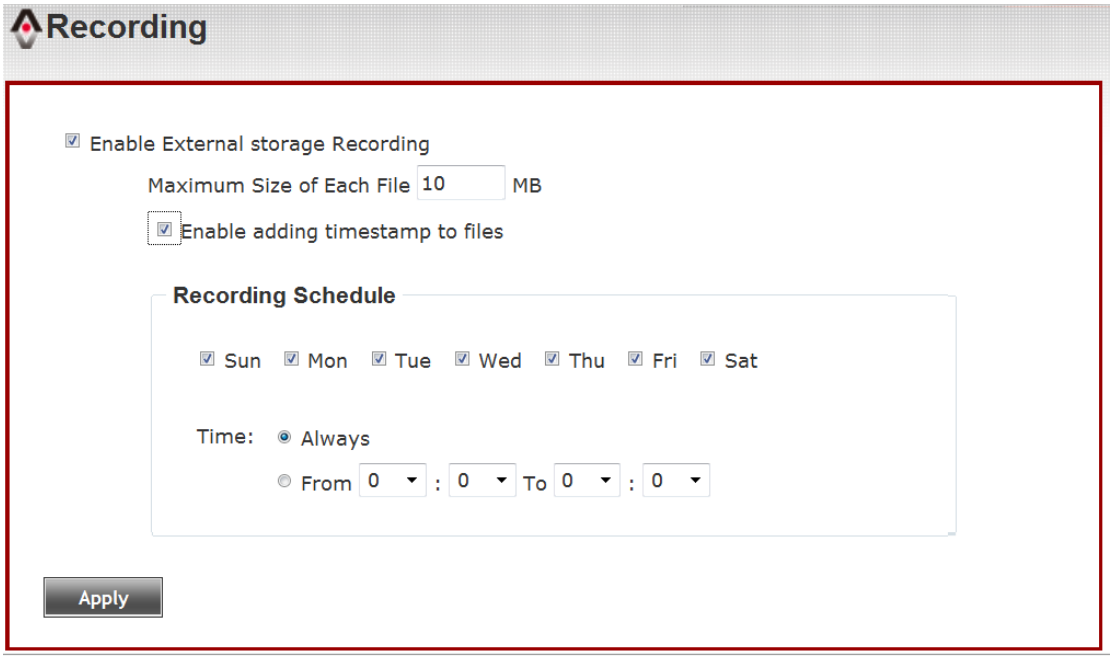
When you finish with above settings, click 'Apply' button to save changes.

3-10 Recording to SD Card

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).***



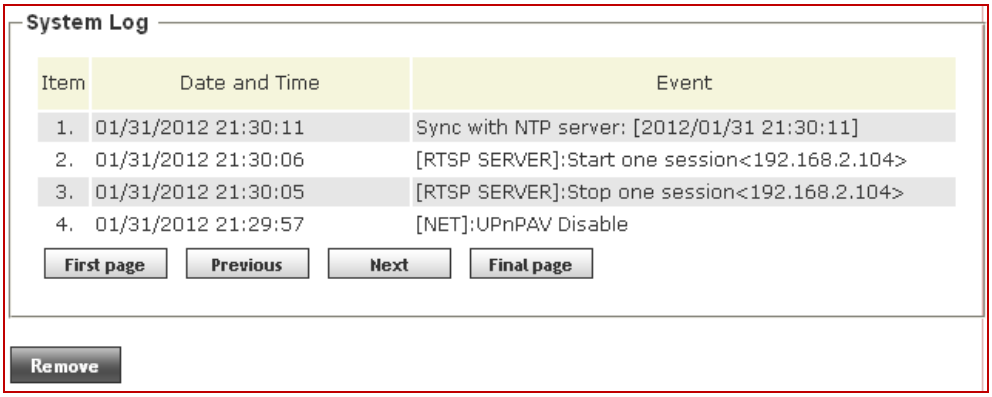
Here are the descriptions of every setup item:

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.



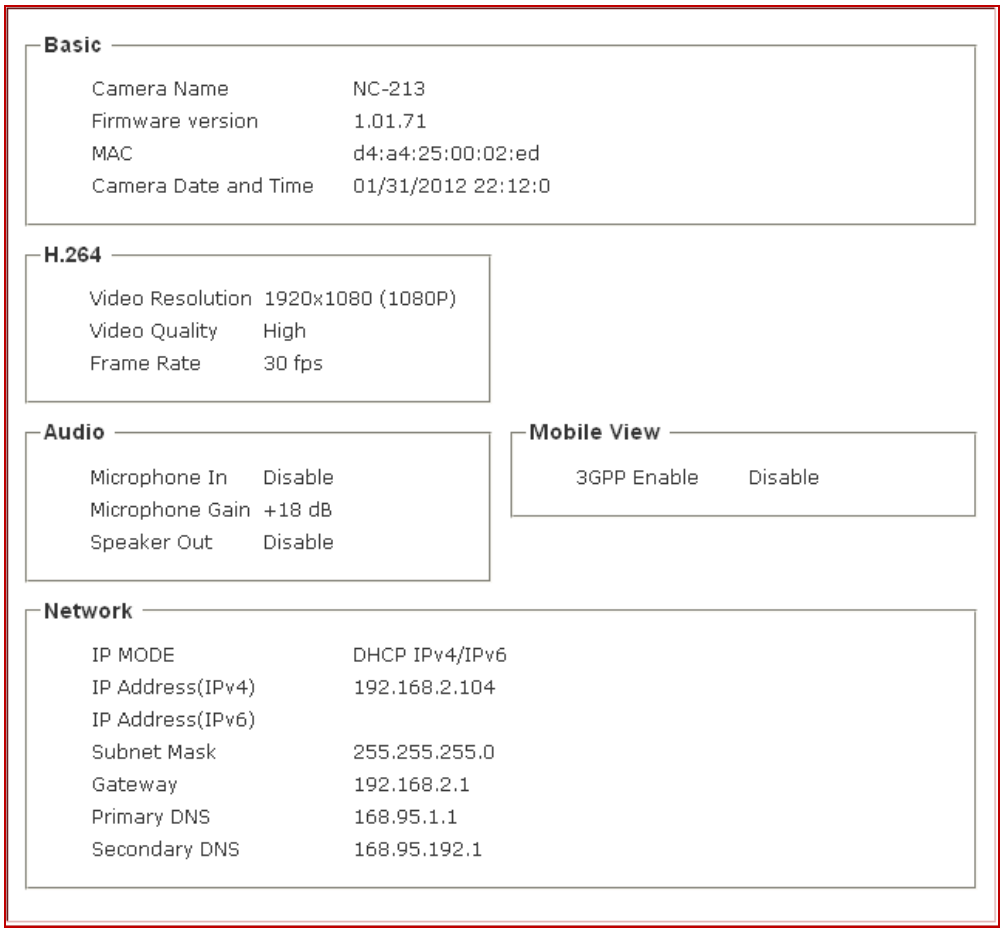
In this page, you can click:

1. First page / Final page: Jump to first / final page of log.
2. Previous / Next: Jump to previous or next page of log.
3. Remove: Clear log. You'll be prompted for confirmation.

3-12 Device Info

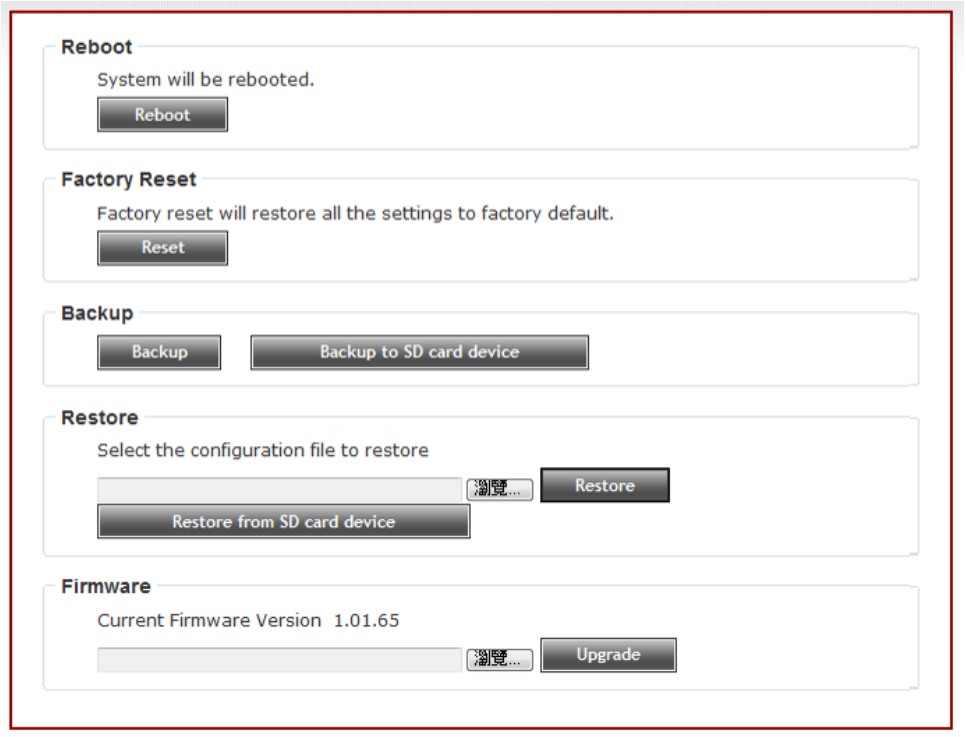
You can check the information and network settings of this IP camera. These information are very useful when you need to repair or fix the problem of this IP camera.

An example of device info page look like this:



3-13 Maintenance

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

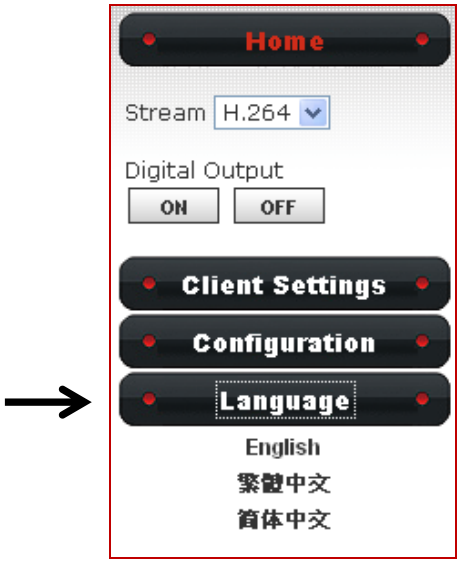


Here are the descriptions of every setup item:

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.



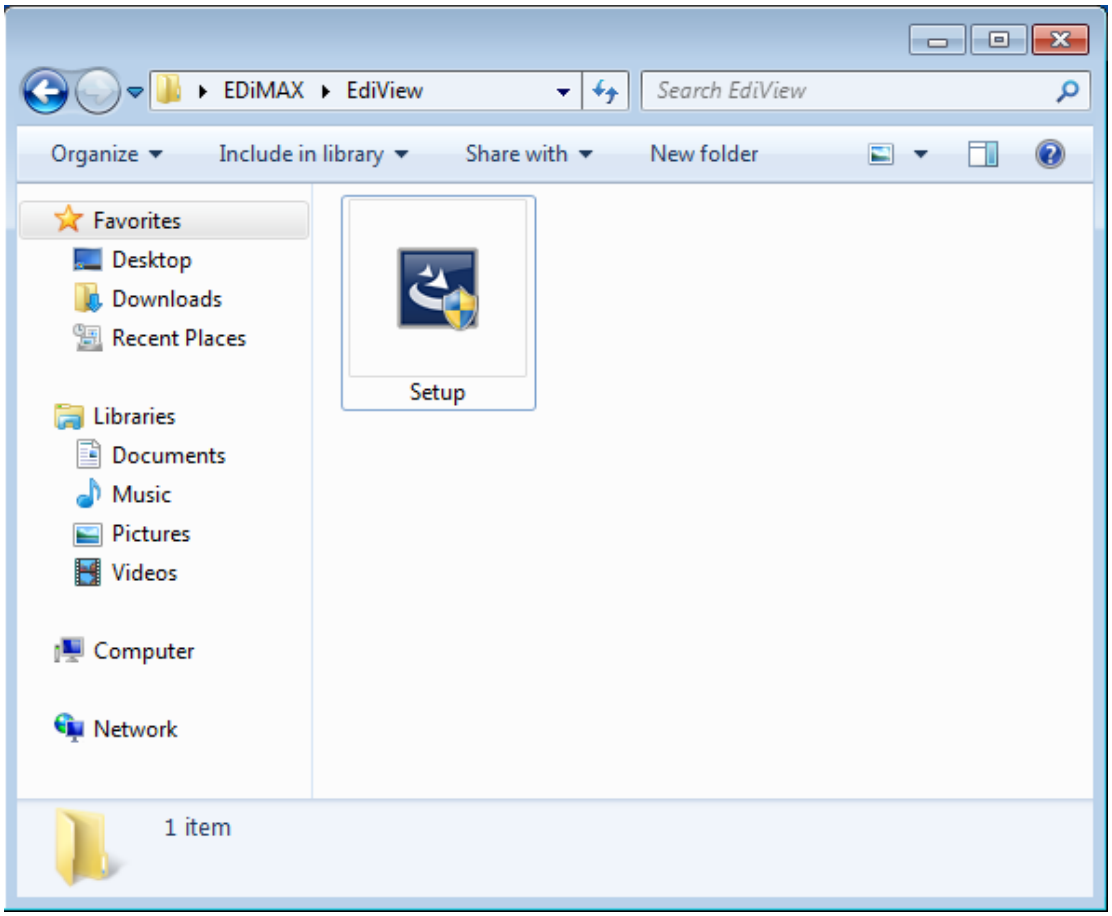
CHAPTER IV: EDIVIEW 64-CHANNEL VIEWER

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 .

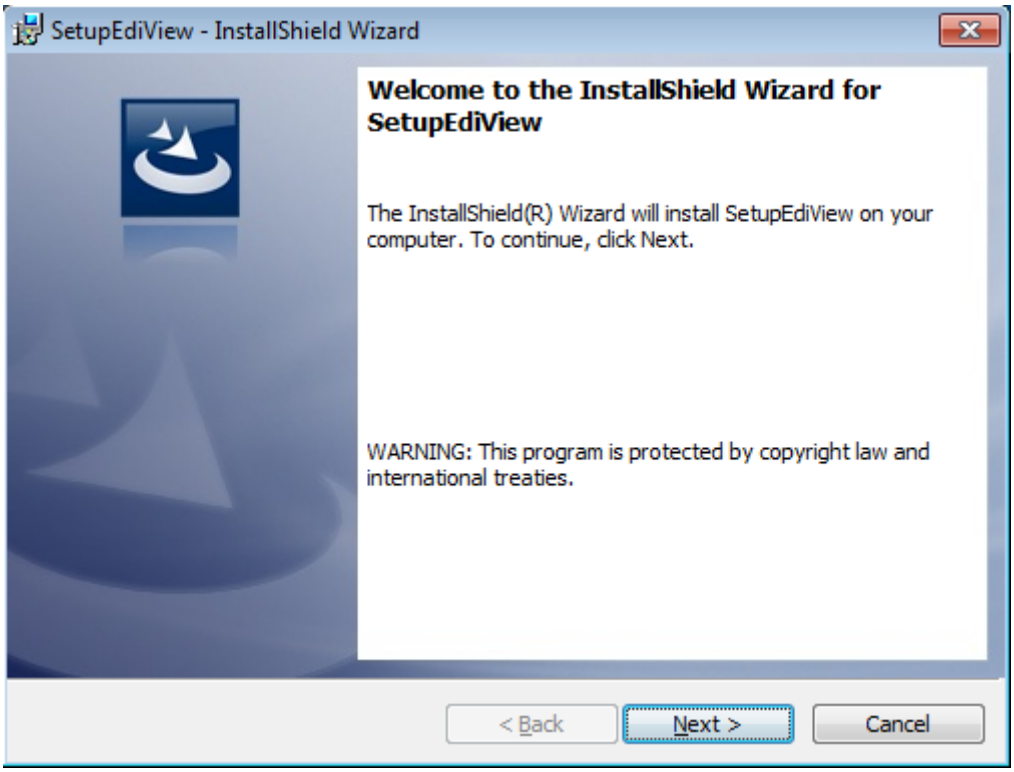
1. Locate EdiView setup file, and double-click on it to start EdiView software installation.



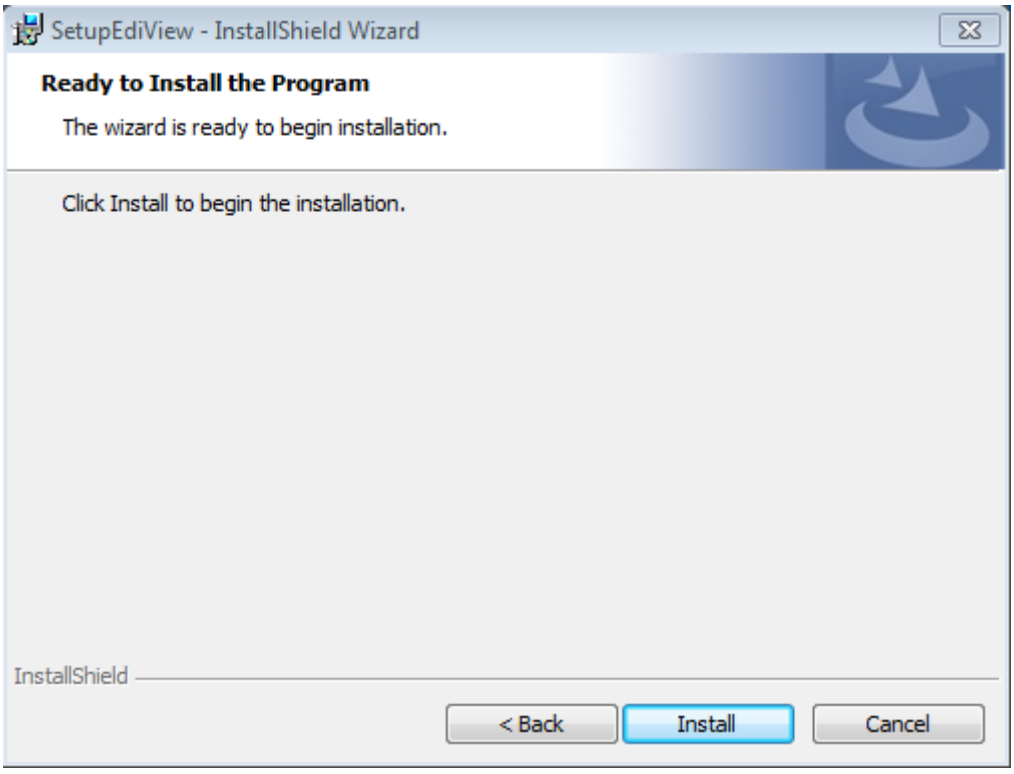
2. You'll see a User Account Control security warning message appear, click 'Yes' to continue.



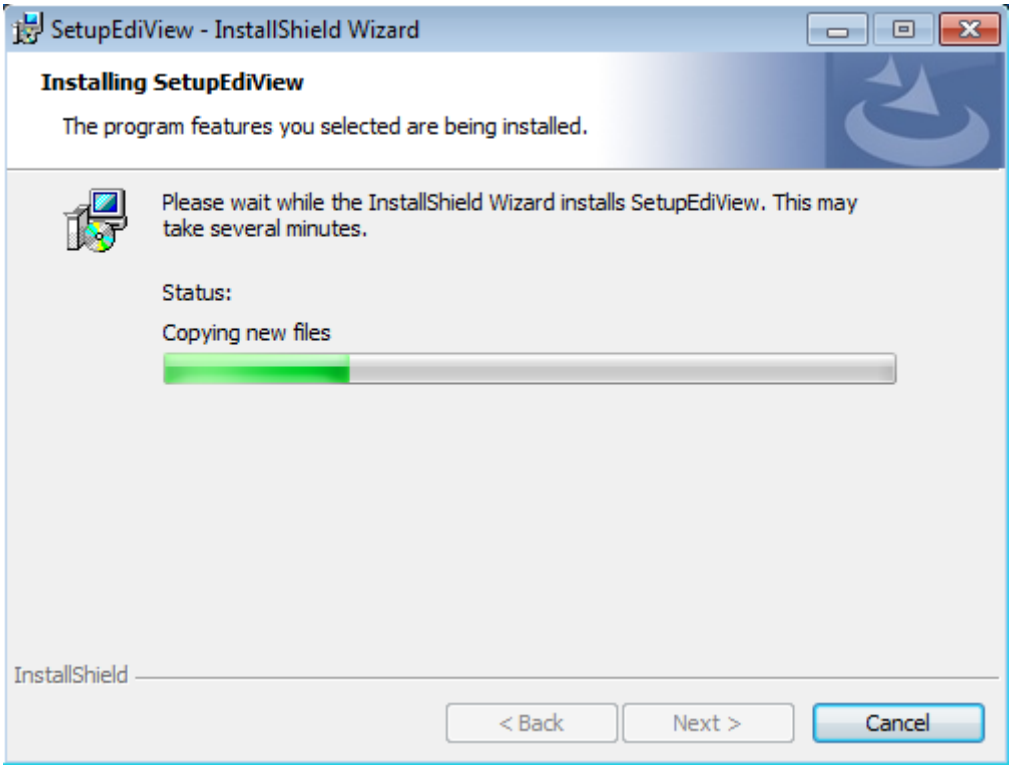
3. Click 'Next' to continue.



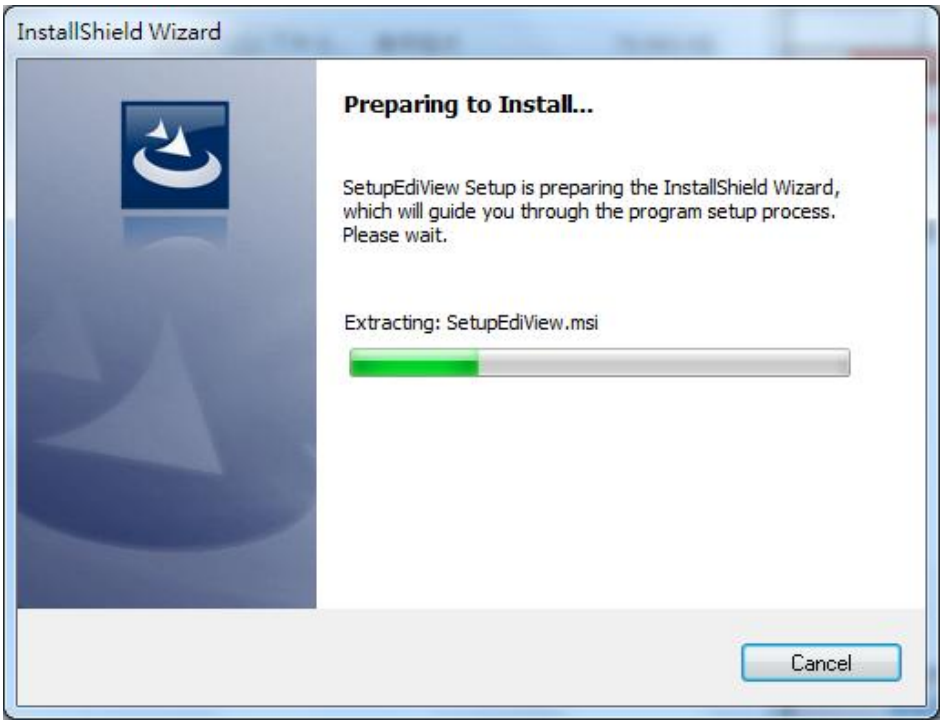
4. Click 'Install' to begin installation.



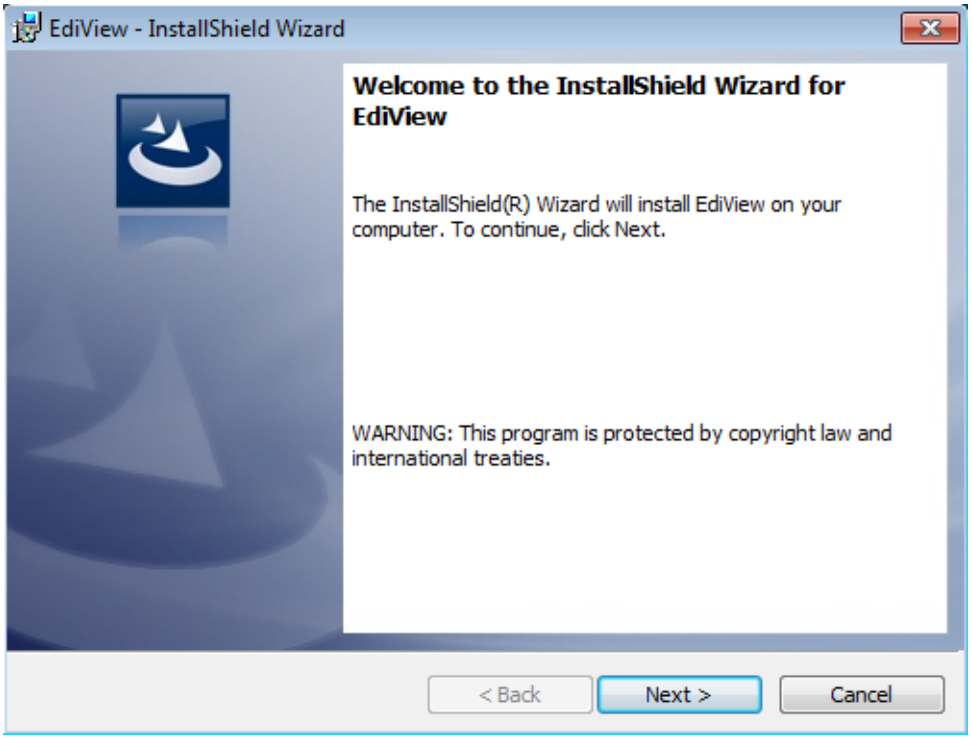
5. ase wait while installation is being performed. This may take few minutes to done, please be patient.



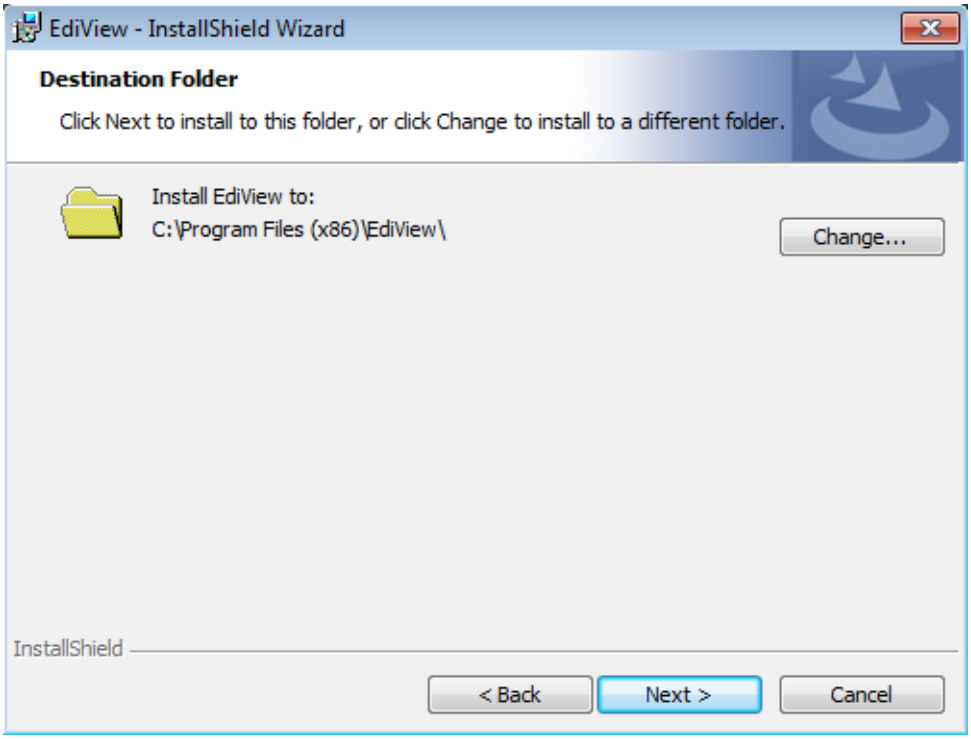
6. The second part of installation will start automatically.



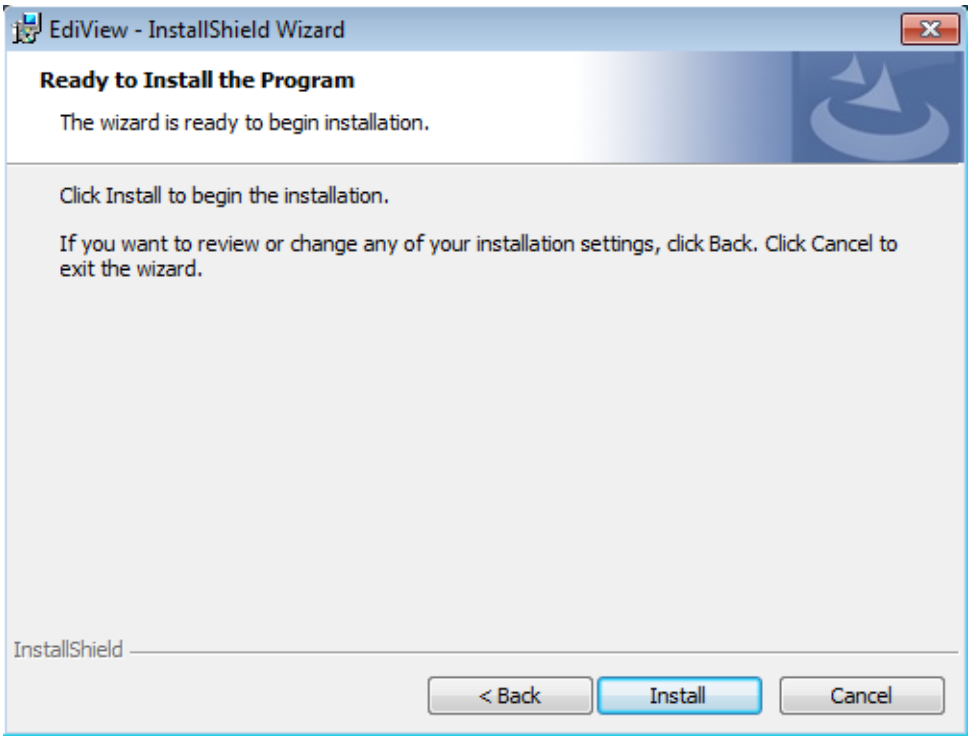
7. A new setup window will appear, please click ‘Next’ button to continue.



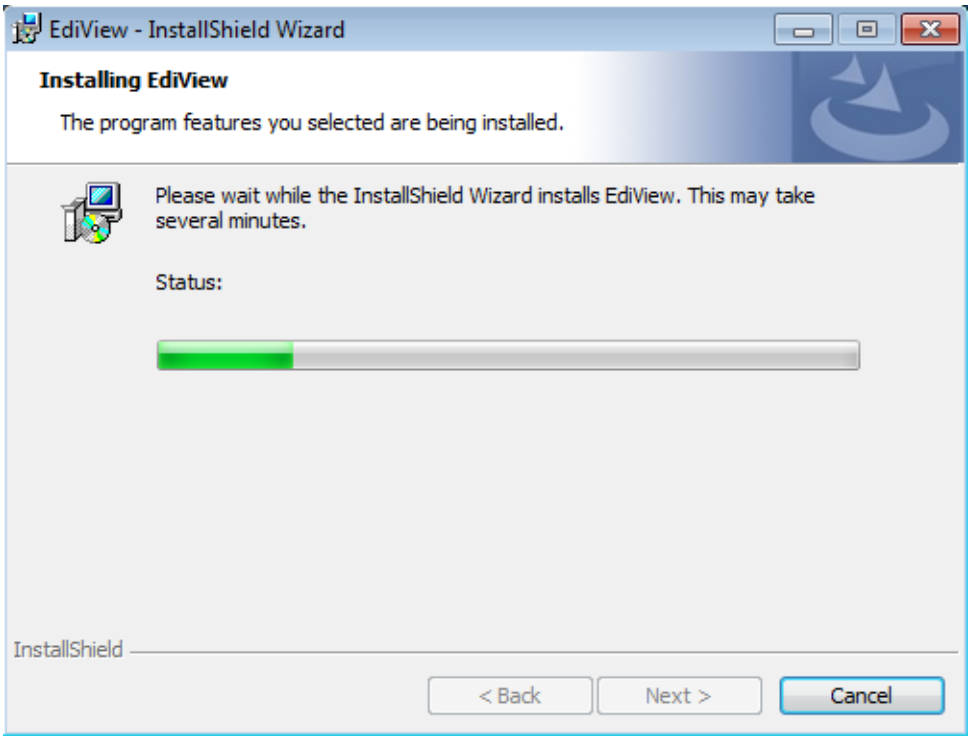
8. You can select a folder on your computer to install EdiView by clicking ‘Change’ button, or simply click ‘Next’ button directly to accept default folder.



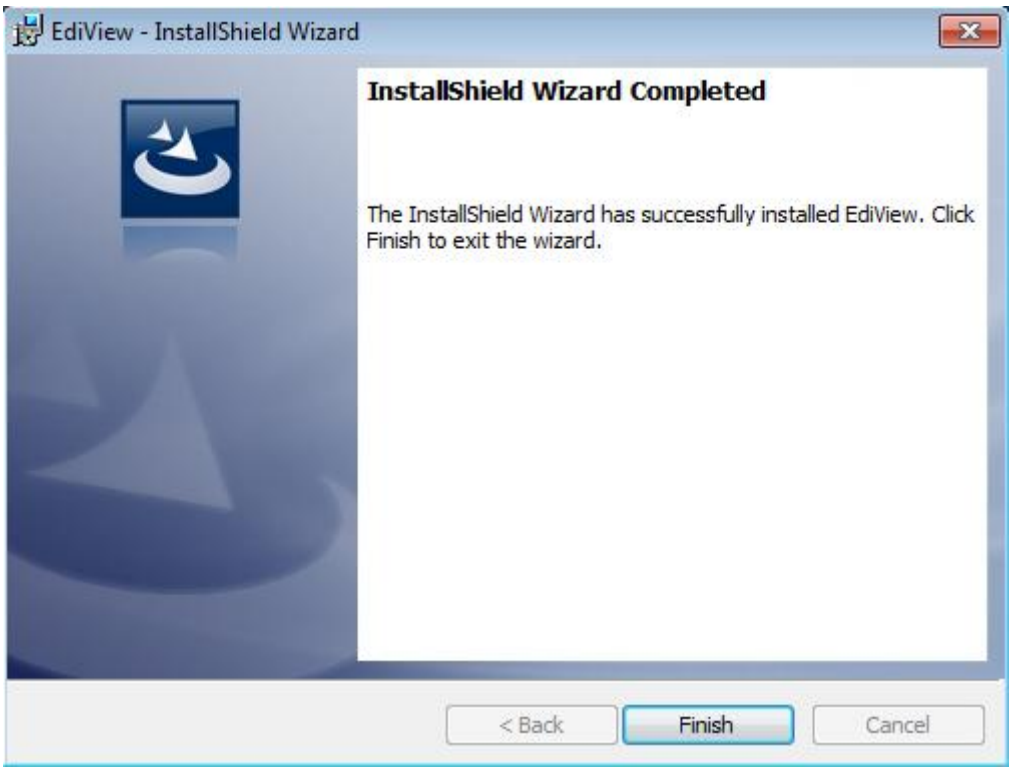
9. Click ‘Install’ to continue.



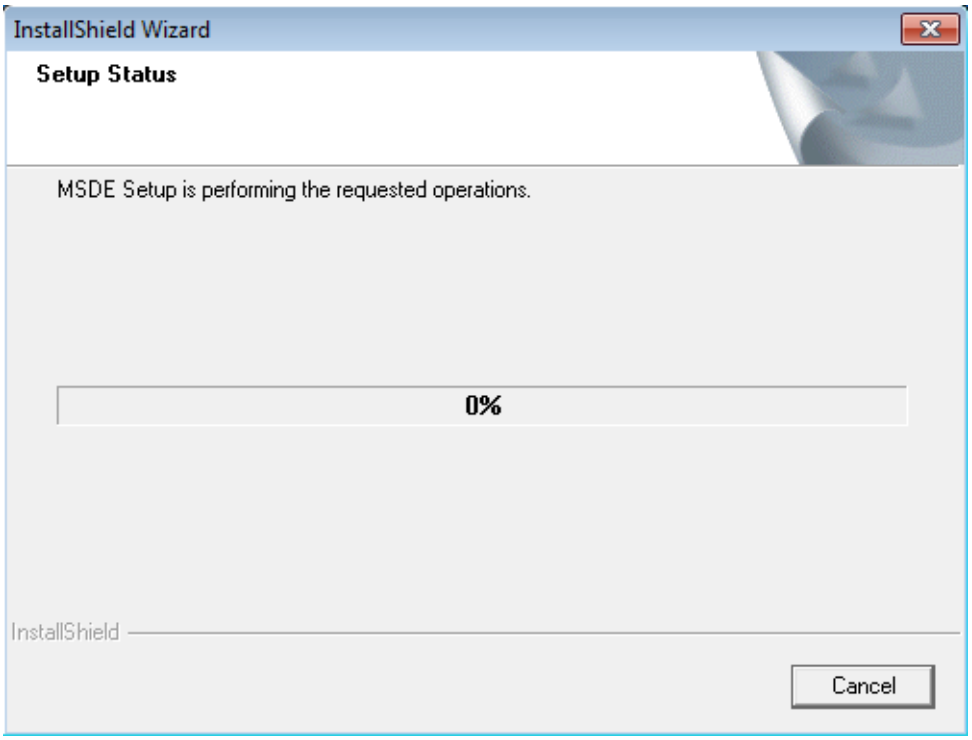
10. Installation will take few minutes, please be patient.



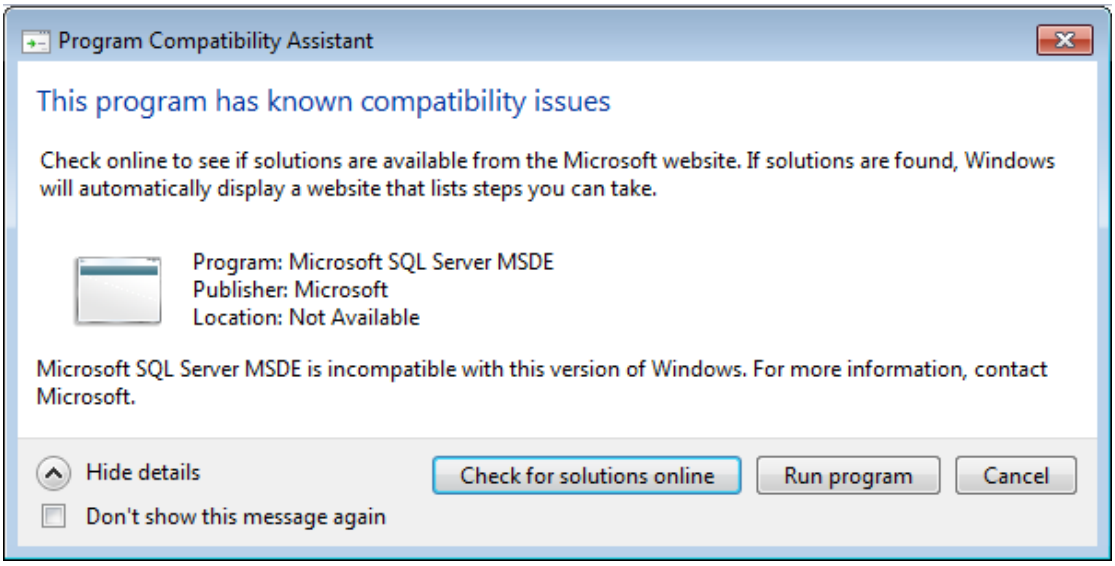
11. Click ‘Finish’ when you see this message. EdiView is ready to use now.



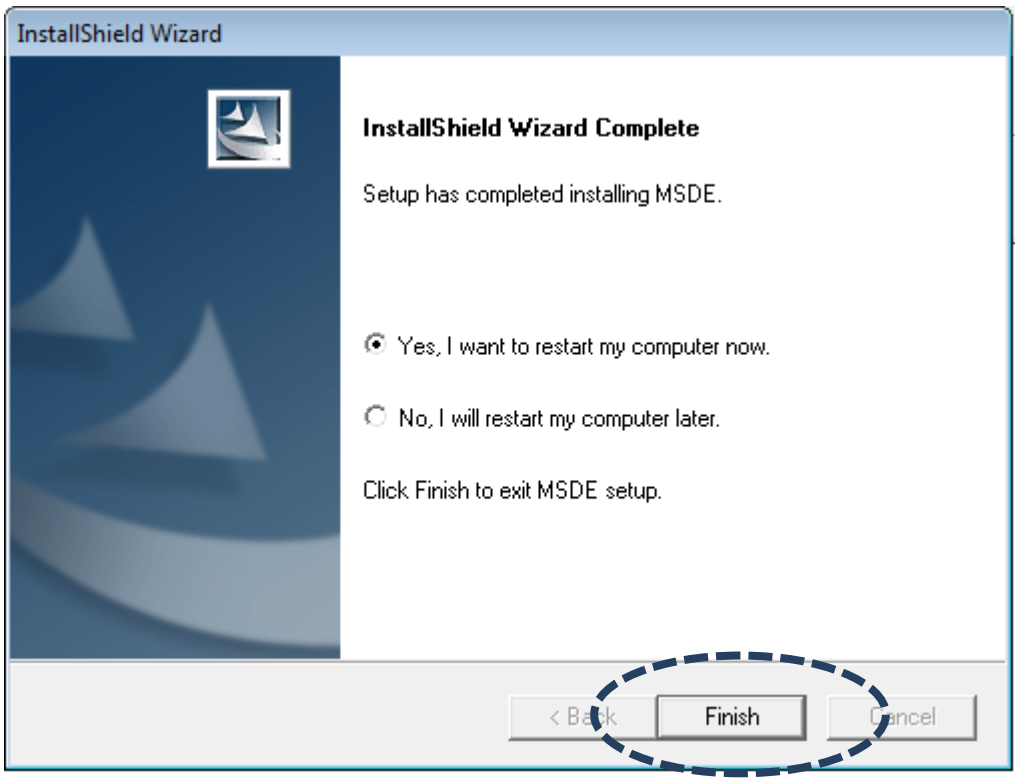
12. MSDE (Microsoft SQL Database Engine) installation procedure will start at the same time. Please wait until it completes.



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


Program Compatibility Assistant
This program has known compatibility issues
Check online to see if solutions are available from the Microsoft website. If solutions are found, Windows will automatically display a website that lists steps you can take.
Program: Microsoft SQL Server MSDE
Publisher: Microsoft
Location: Not Available
Microsoft SQL Server MSDE is incompatible with this version of Windows. For more information, contact Microsoft.
Hide details
Check for solutions online
Run program
Cancel
Don't show this message again

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.

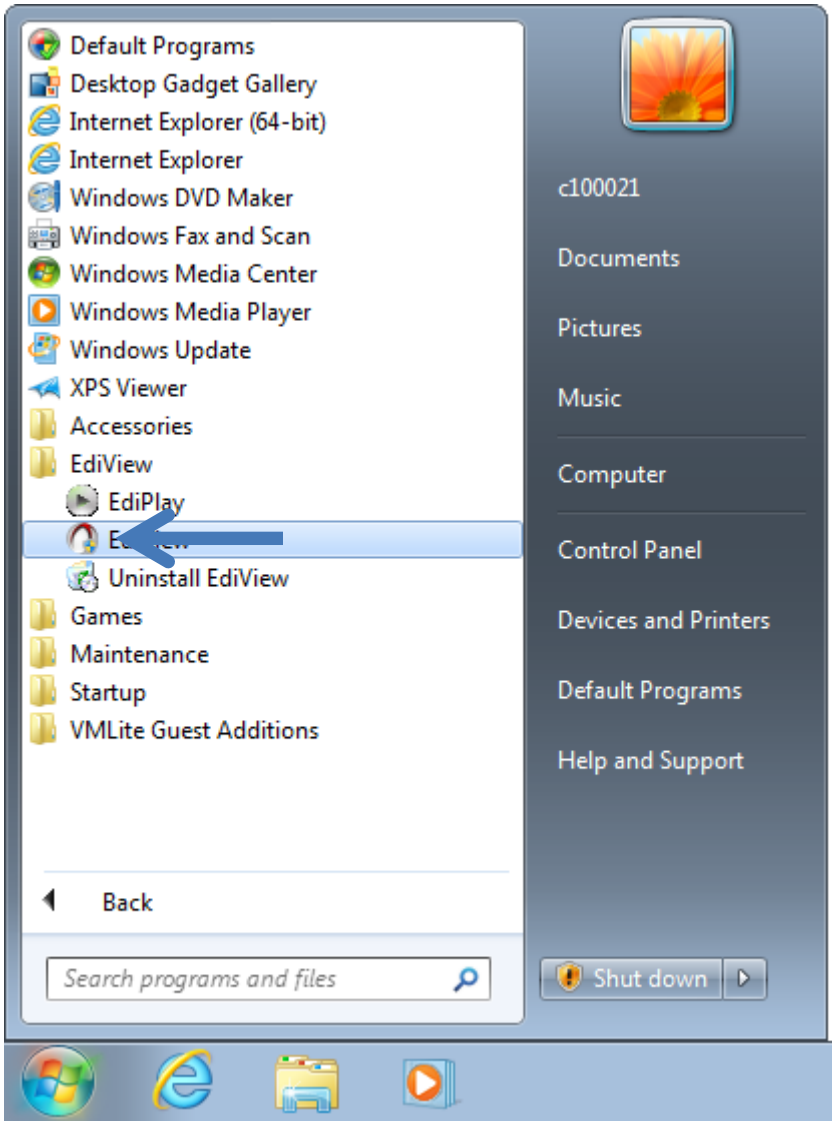


4-2 EdiView Interface

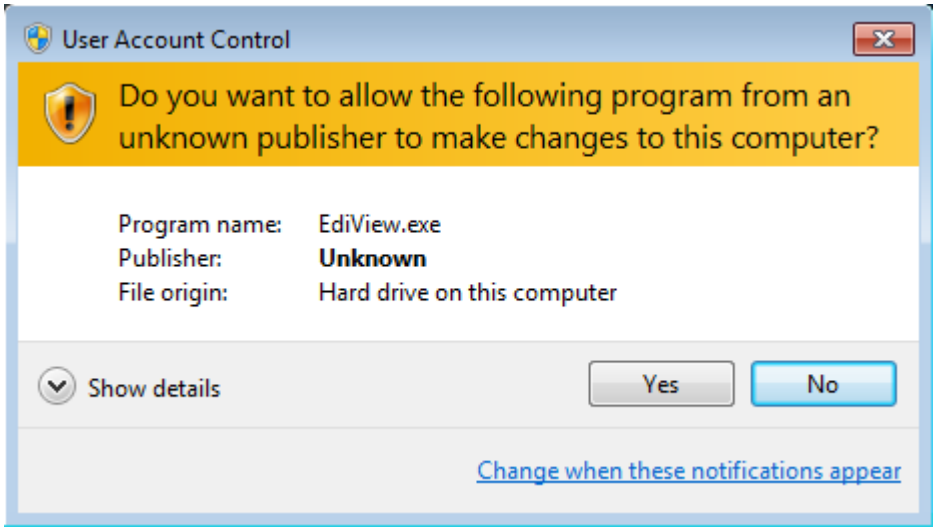
To start EdiView , double-click EdiView icon on your computer’s desktop:



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.

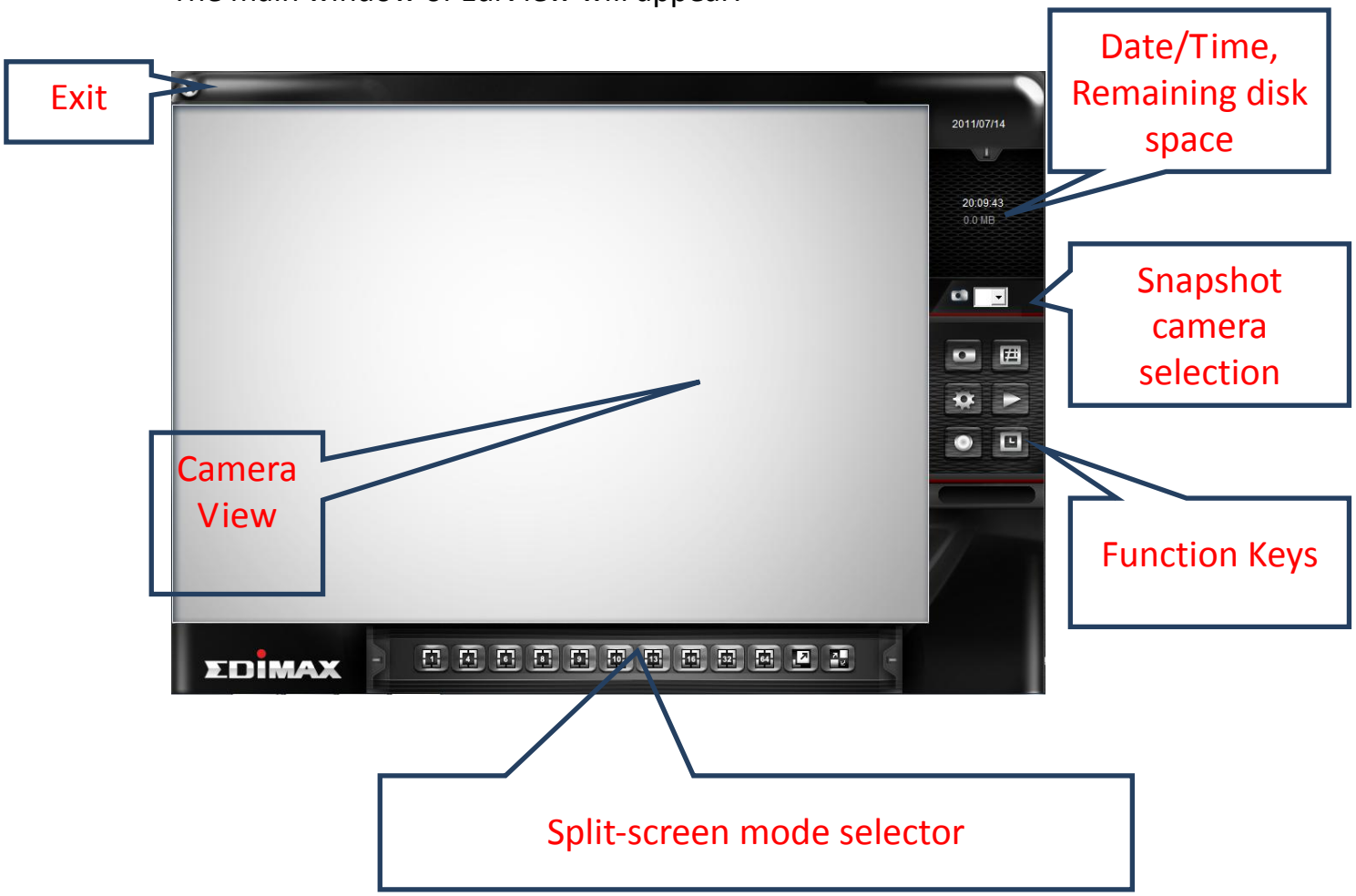


EdiView login window will appear.



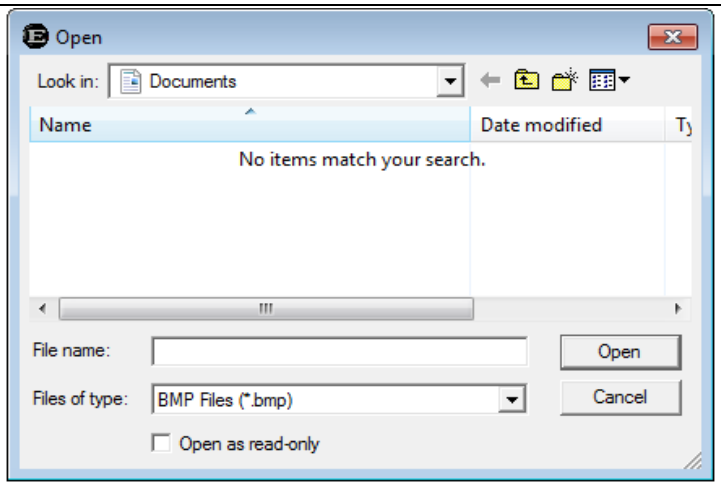
Default user ID is 'admin' and default password is '1234', click 'OK' when ready.

The main window of EdiView will appear:

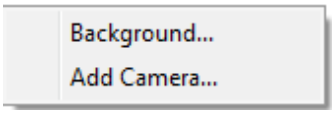


The descriptions of every item are listed as follow:

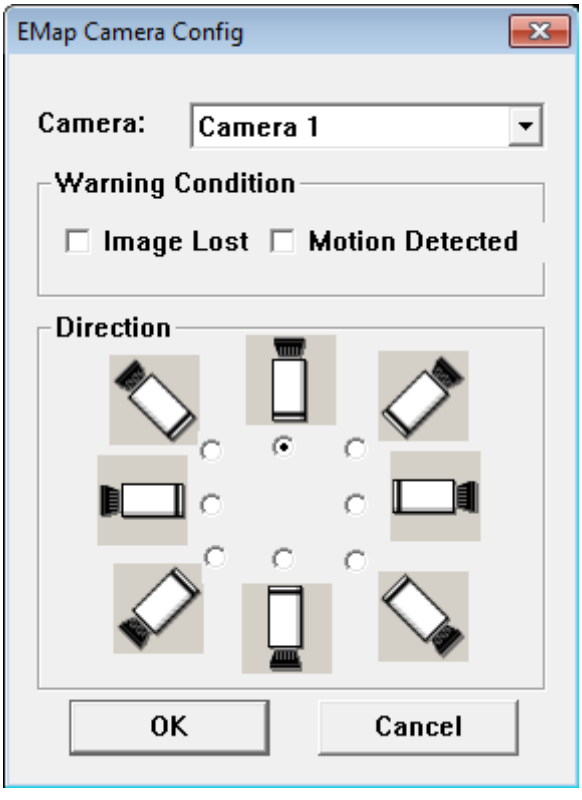
Item	Description
Split-screen mode selector 	EdiView supports from 1 to 64 cameras split views. The video from IP camera will display in split-screen display cells, and you can view up to 64 IP cameras at the same time. Click the button to select the number of IP cameras you wish to view on display. 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.
Full-screen 	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. To leave full-screen mode, press 'Esc' key on your keyboard.
Camera Scan 	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.
Snapshot 	Take a snapshot of selected IP camera and save the picture on your computer. When you click this button, the picture of IP camera selected in 'snapshot camera selection' dropdown menu will be saved.
EMAP 	Display the EMAP (Electronic map) image on camera view area, which indicates the position and orientation in physical environment of every IP camera. To set a picture as EMAP's background picture: Right-click on the EMAP display area, and you'll be prompted to select a picture on your computer:



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 '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. After you click 'OK' button, a camera icon will appear on EMAP with its camera number indicated:  You can add more cameras to EMAP by repeating procedures listed above.
Configuration 	Enter EdiView configuration page. See next chapter for detailed instructions.
Playback 	Playback recorded video. A new video playback window will appear. See chapter III for detailed instructions.
Recording 	Start / stop video recording. When recording video, this button will appear as red.
Schedule	Enable schedule recording. You must define schedule in advance before you can enable schedule recording.

	
Snapshot camera selection 	Here lists all IP cameras you have, select one camera from dropdown list for snapshot.
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:

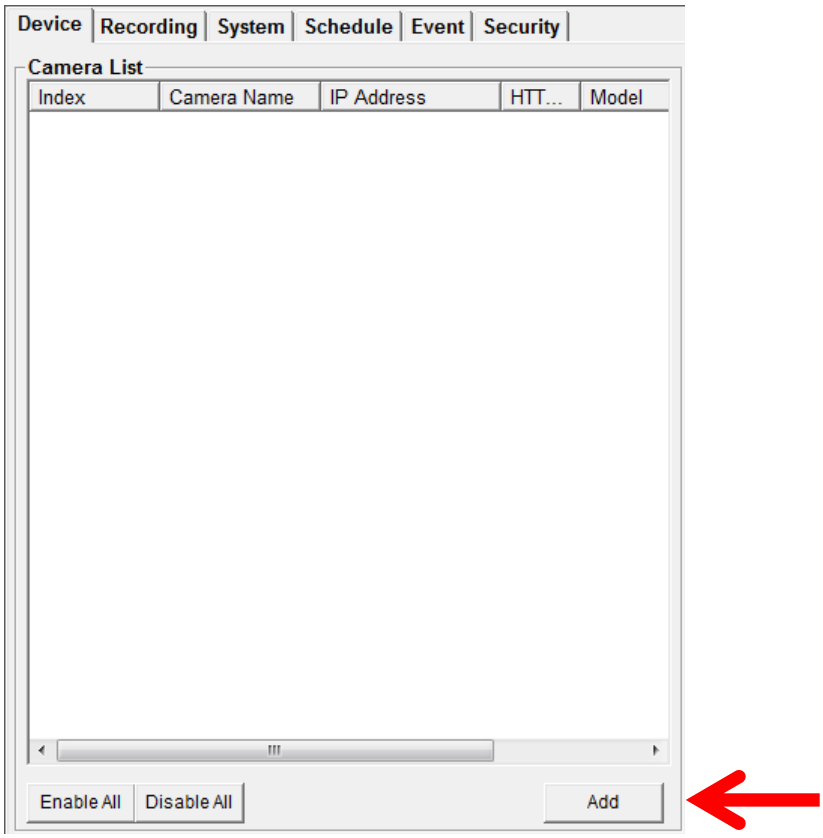
Device (Add or remove IP camera / video server)
Recording (Configure video recording)
System (Configure system-wide settings)
Schedule (Configure schedule recording)
Event (Configure event recording)
Security (Configure EdiView user list)

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

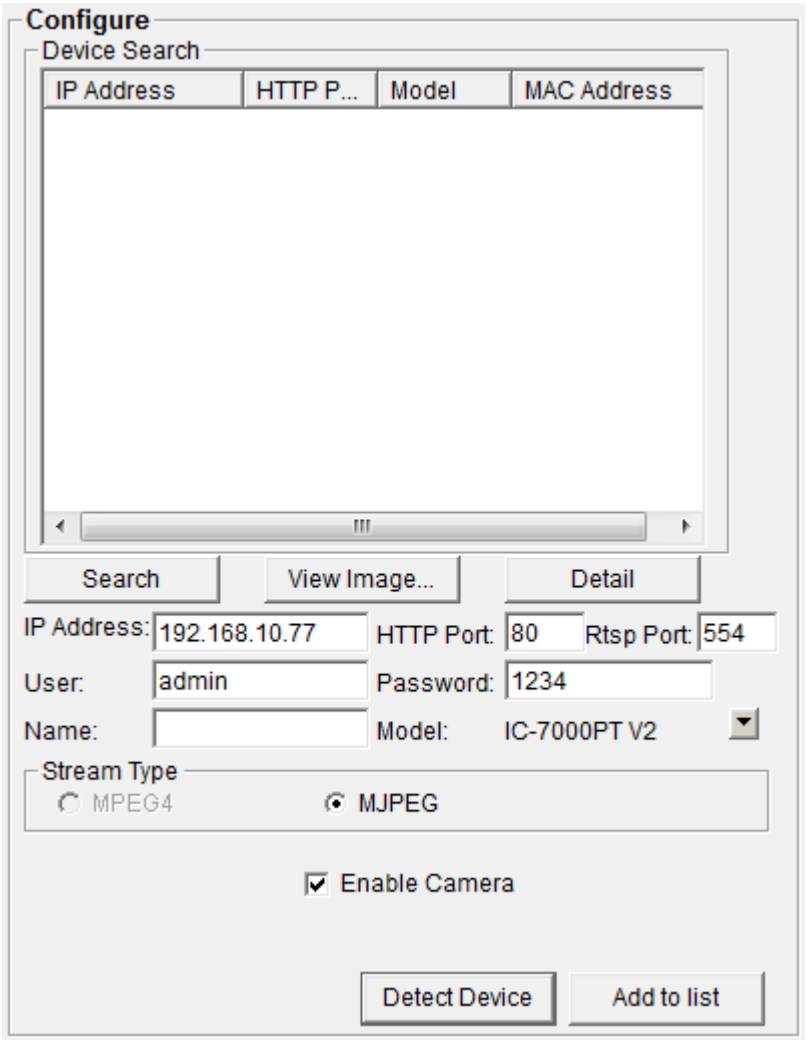
4-3-1 Device

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.

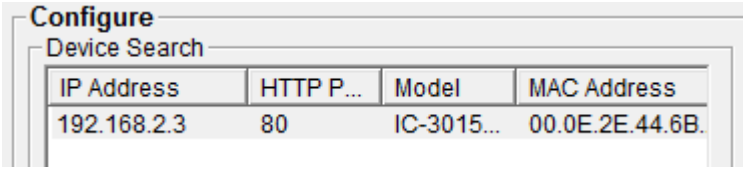
To add a new IP camera, click ‘Add’ button:



IP camera setup window will appear on the right:



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:



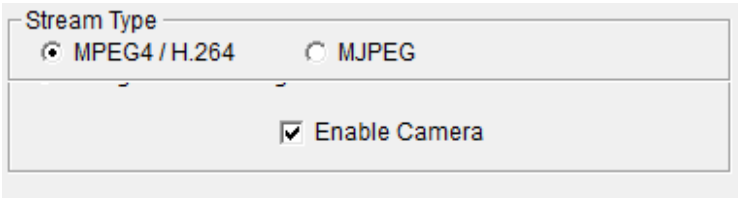
In this example, an IP camera has been found at IP address 192.168.2.3. If this is the IP camera you wish to add, click ‘Add to list’ button. You can repeat above procedures to add all IP cameras you wish to connect.

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.

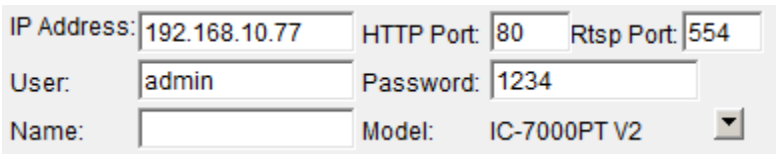
You can also select the video stream type you wish to use:



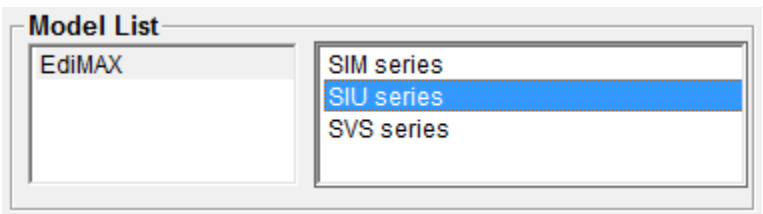
Check 'Enable Camera' to enable this camera is EdiView.

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:

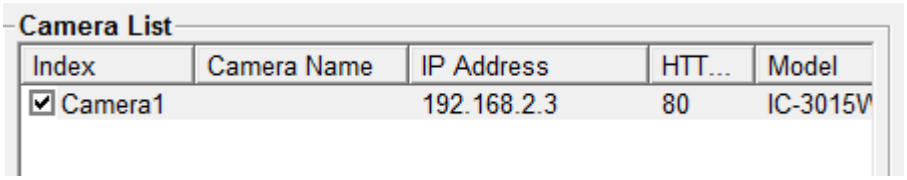
1. Input the network settings of IP camera, including IP address, HTTP port number, user name / password.



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.



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:



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.

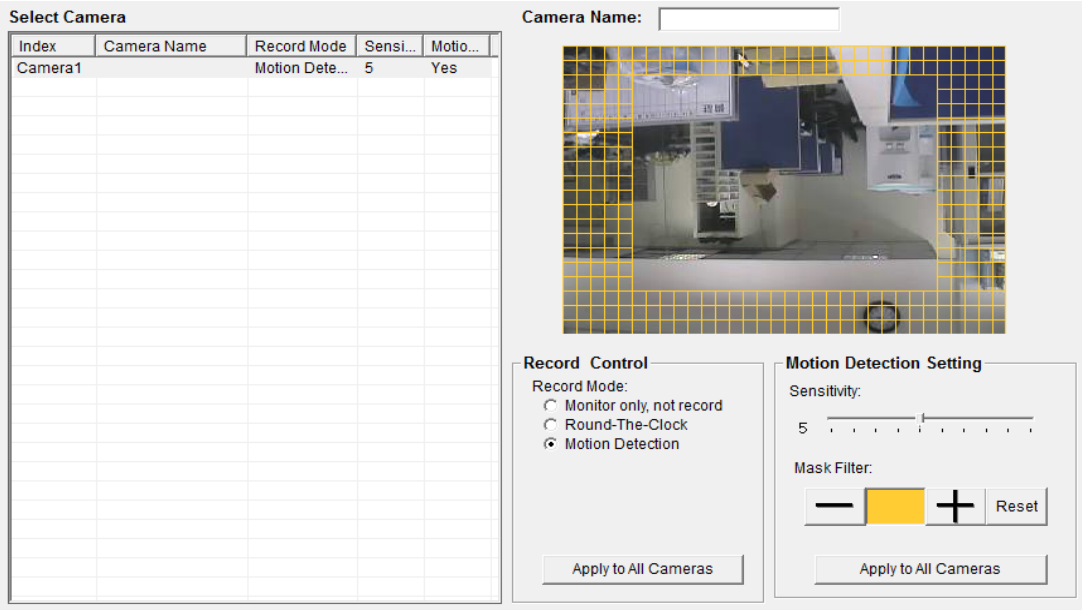
Remove: Remove selected IP camera.

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

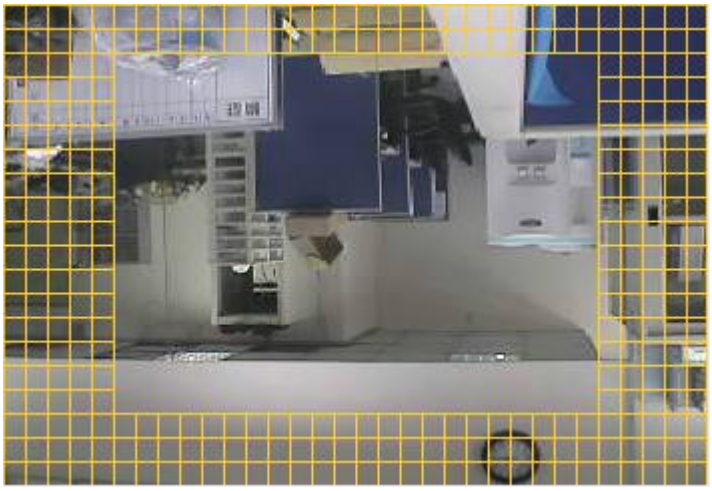
You can specify the video recording behavior for all IP cameras: recording all the time, motion detection, or not recording at all.

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	You can decide the recording behavior for this IP camera: Monitor only, not record: EdiView will not record video of this IP camera. Round-The-Clock: EdiView will record video of this IP camera all the time. Motion Detection: EdiView will only record video when motion is detected. Apply to All Cameras: Click this button to apply current record control settings to all IP cameras on the list.
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:

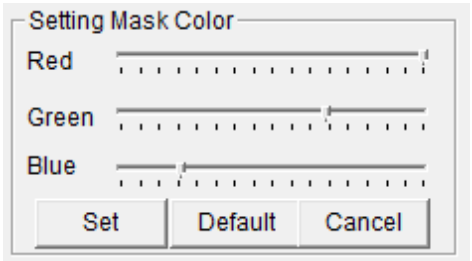


Use the mouse to click blocks on the grid pattern to assign the areas you wishes EdiView to detect / ignore motion. EdiView will detect motion for areas which are **NOT** covered by blocks only.

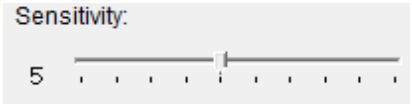
To add or erase blocks:



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:



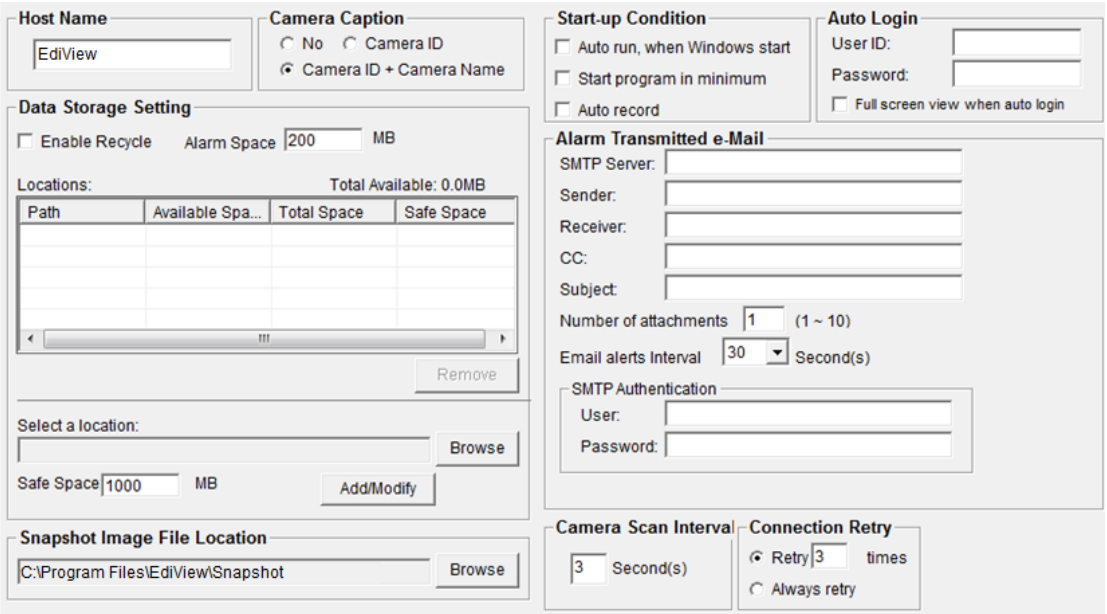
Drag red, green, and blue slide bar to set color, and click 'Set' button to save changes, click 'Default' button to reset settings, and click 'Cancel' to leave this menu

	without saving changes. You also have to setup sensitivity:  Drag the slide bar to setup sensitivity level from 1 to 10. Larger number indicates more sensitivity. To apply this motion detection settings to all IP cameras, click 'Apply to All Cameras' button.

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 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 Camera ID: Display Camera's ID number Camera ID + Camera Name: Display both camera's ID and camera's name.
Data Storage Setting	Setup hard disk data storage: 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. 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. Locations: Lists all data storage space configured. You can all / modify spaces below. 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. 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**.

	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. Remove: Select a pre-defined storage space and click this button to remove it from the list.
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.
Start-up Condition	Select the behavior of EdiView when computer starts up. You can select multiple options you want to use: Auto run, when Windows start: Check this box and EdiView will run automatically when computer starts. Start program in minimum: Start EdiView as minimized window. Auto record: Start video recording automatically when EdiView starts. If you want to start recording automatically, remember to use 'Auto Login' function.
Auto Login	Input the user ID and password to login EdiView automatically. This function is useful when you want to start recording automatically when computer starts. User ID: Input user ID used to login EdiView, must have adequate privileges to perform the action you wish to execute. Password: Input user's password.

	Full screen view when auto login: Switch to full screen display mode when auto login.
Alarm Transmitted e-Mail	Send an E-mail notification with picture when alarm is triggered (motion is detected): SMTP Server: Input the IP address or host name of SMTP server (mail server) you wish to use. 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. Receiver: Input the E-mail receiver's address here. CC: input additional E-mail receiver's address here. Subject: Input the subject of sent E-mail. This will also help you to identify the E-mail sent by EdiView . 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). 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. 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.

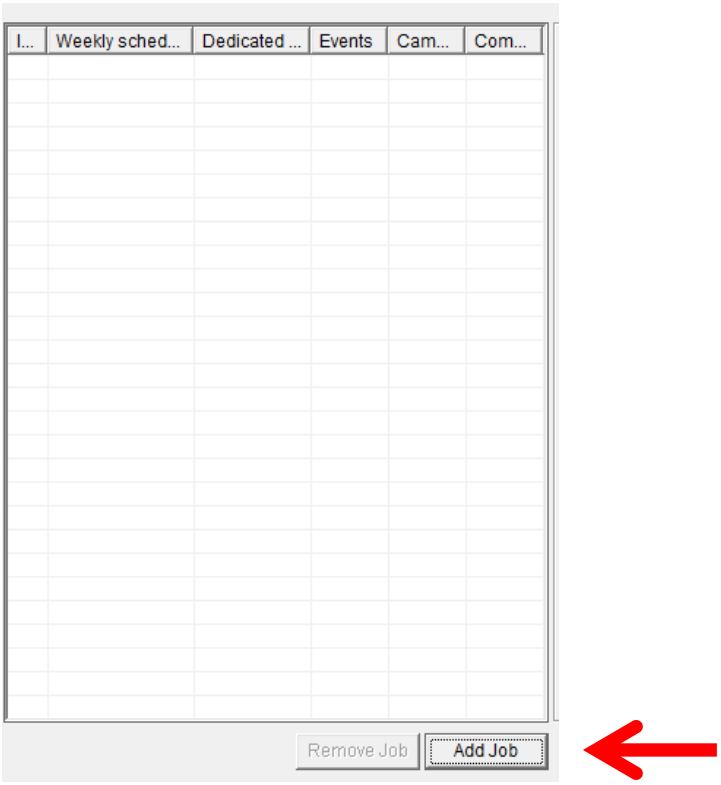
	Password: Input the password used by SMTP authentication.
Camera Scan Interval	Input the time interval to wait between camera scan.
Connection Retry	Decides the behavior when EdiView lost communication with IP camera: Retry: Retry for the time you specified here. Always retry: Retry to connect to IP camera until successfully connected.

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

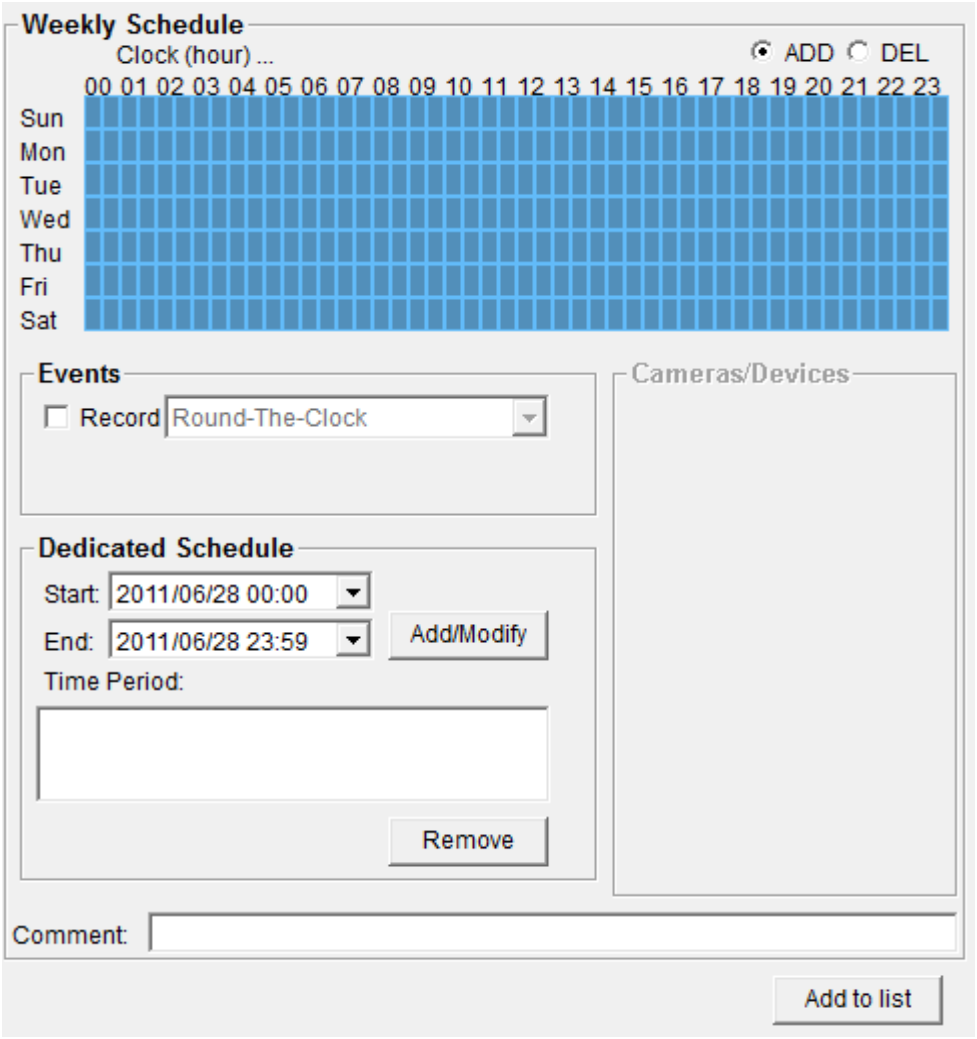
4-3-4 Schedule

You can configure recording schedule in this sub-menu.

When you enter this sub-menu for first time, click ‘Add Job’ button to add a new schedule recording job:


I...
Weekly sched...
Dedicated ...
Events
Cam...
Com...
Remove Job
Add Job

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:

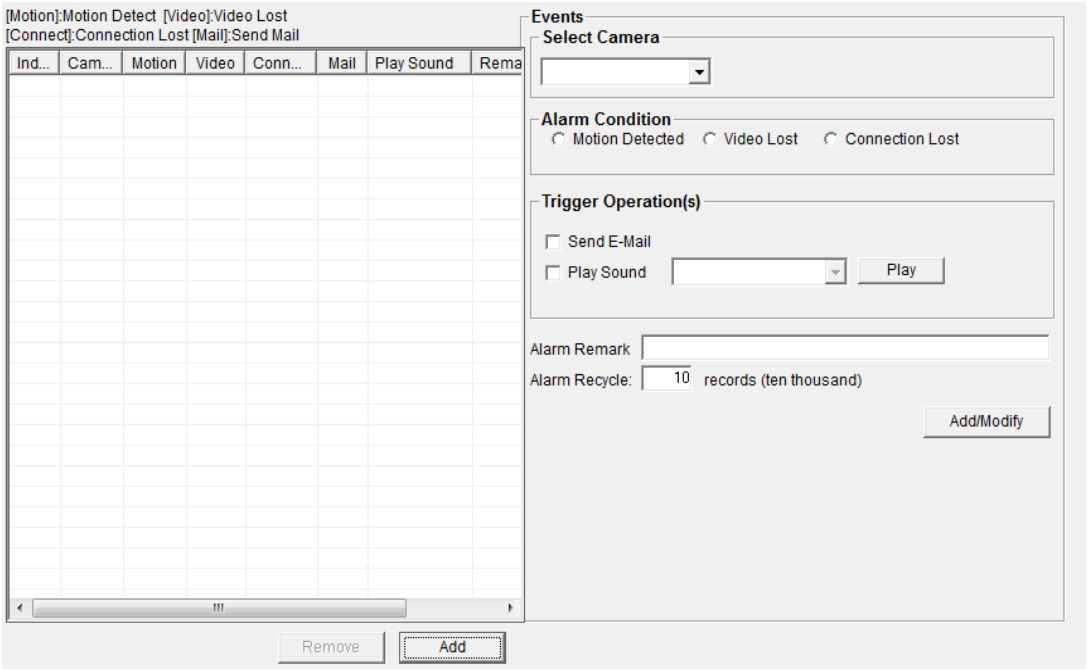
Item	Description
Weekly Schedule	Select the time period in a week of this schedule. There are total 48 x 7 blocks in a week schedule, where every block represents half an hour. You can use mouse to click on the block to add or delete time period. If recording is activated in that time period, the block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

	period, the block will appear as dark blue ▮. To add or delete a time period, select 'ADD' or 'DEL' first, then click the time period block.
Events	Select the event to trigger recording: Round-The-Clock: Recording is time-activated (according to schedule). Motion Detection: Recording is motion-activated. 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.
Dedicated Schedule	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. 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. To remove an existing schedule, select an existing schedule, and then click 'Remove' button.
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:

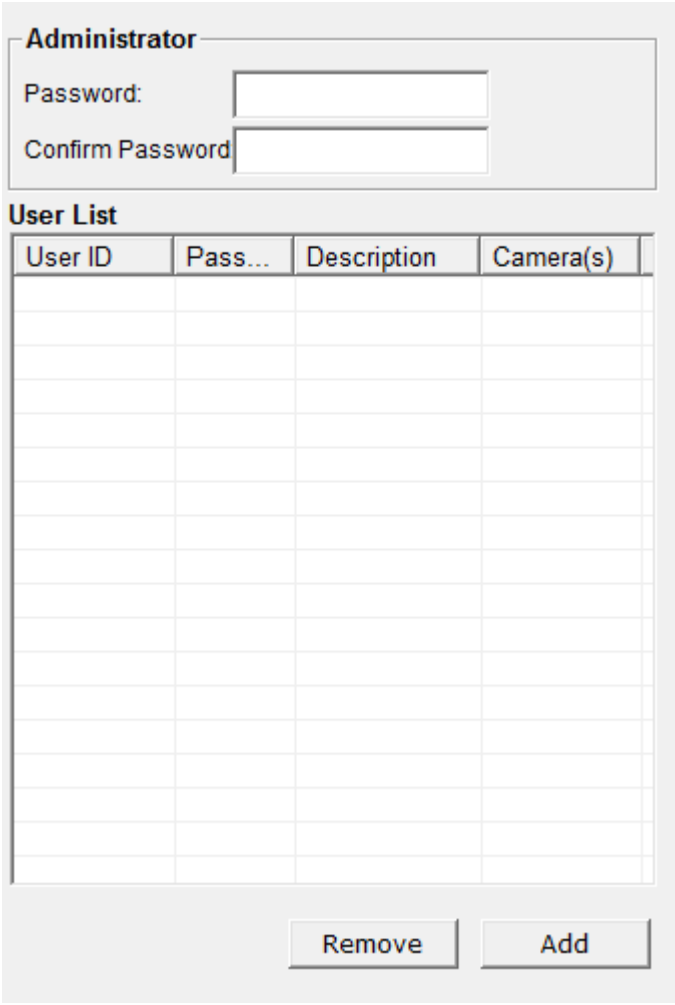
Item	Description
Select Camera	Select the IP camera to define its event detail.
Alarm Condition	Define the type of event which will trigger an

	alarm: Motion detected: Alarm will be triggered when motion is detected at this IP camera. Video lost: Alarm will be triggered when video server's external camera signal is lost. Connection Lost: Alarm will be triggered when network connection to this IP camera is lost. 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)	Define the action which will be taken when alarm is triggered: Send E-Mail: an E-mail will be sent when alarm is triggered. 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: C:\Program Files\EdiView\media You can click 'Play' button to play the sound file you selected.
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.



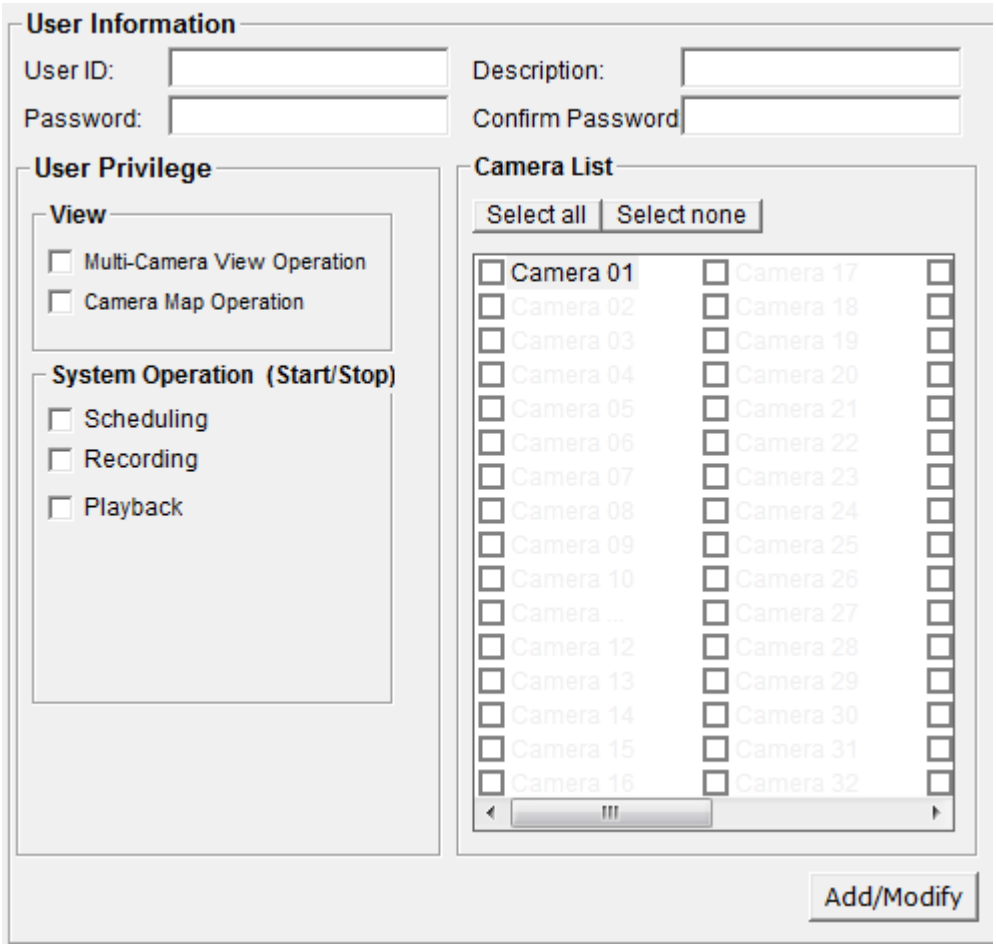
There are two kinds of user in EdiView: Administrator and user. Administrator can configure EdiView, while user can only view video of camera, and perform limited system configuration (schedule, record, and video playback).

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.



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:



The descriptions of every setup items are listed as follow:

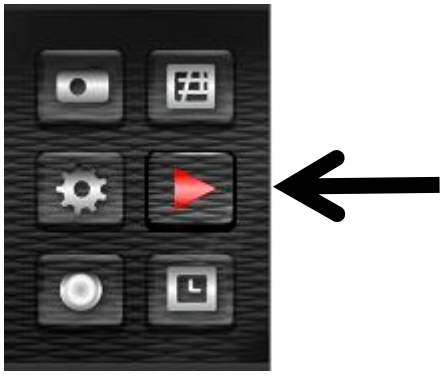
Item	Description
User ID	Input the user ID used to login EdiView
Description	Input any descriptive text to help you to memorize the purpose of this user ID.
Password / Confirm Password	Input this user's password in both fields.
User Privilege	Defines the privilege of this user (Check the boxes that you 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

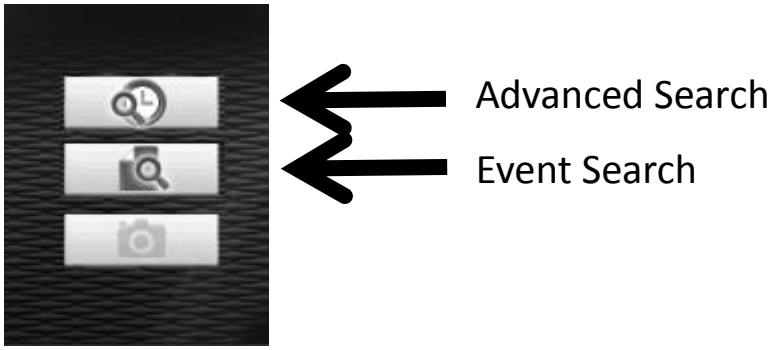
To view recorded video, you can click 'Playback' button in EdiView's main screen:



A new window will appear:



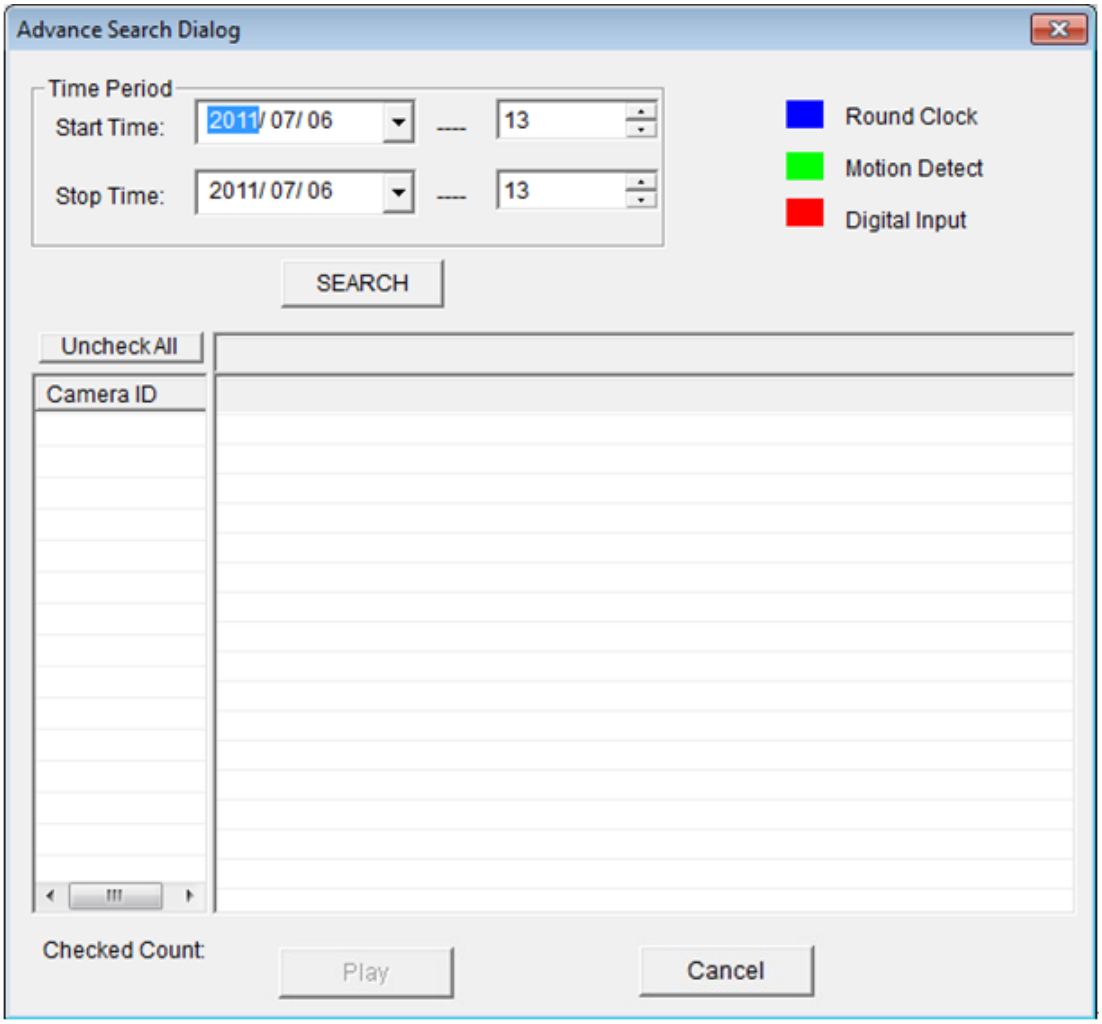
To play a recorded video, you can use one of following two functions:



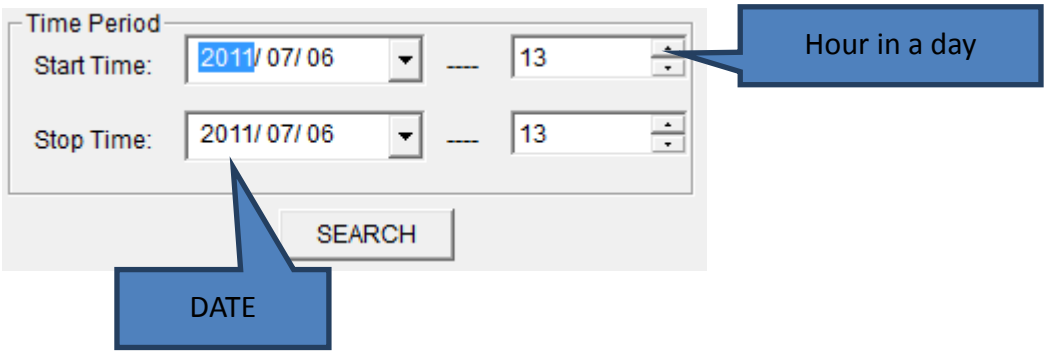
Please refer to following chapters for detailed instructions of every search mode.

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.

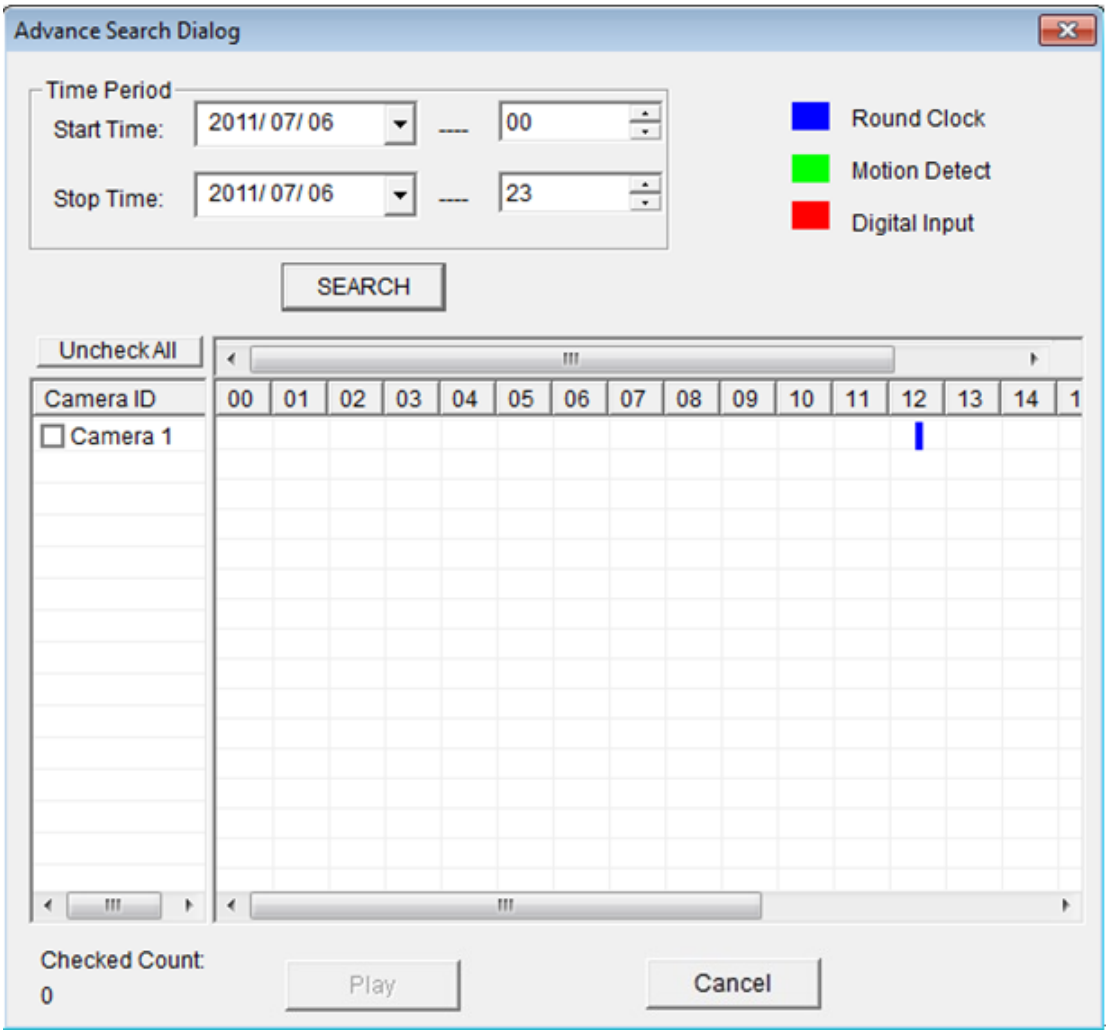


When you enter this menu, please specify start time and stop time:

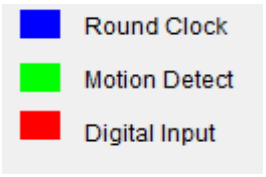


(You can input 0 - 23 in 'Hour in a day' field by keyboard directly).

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

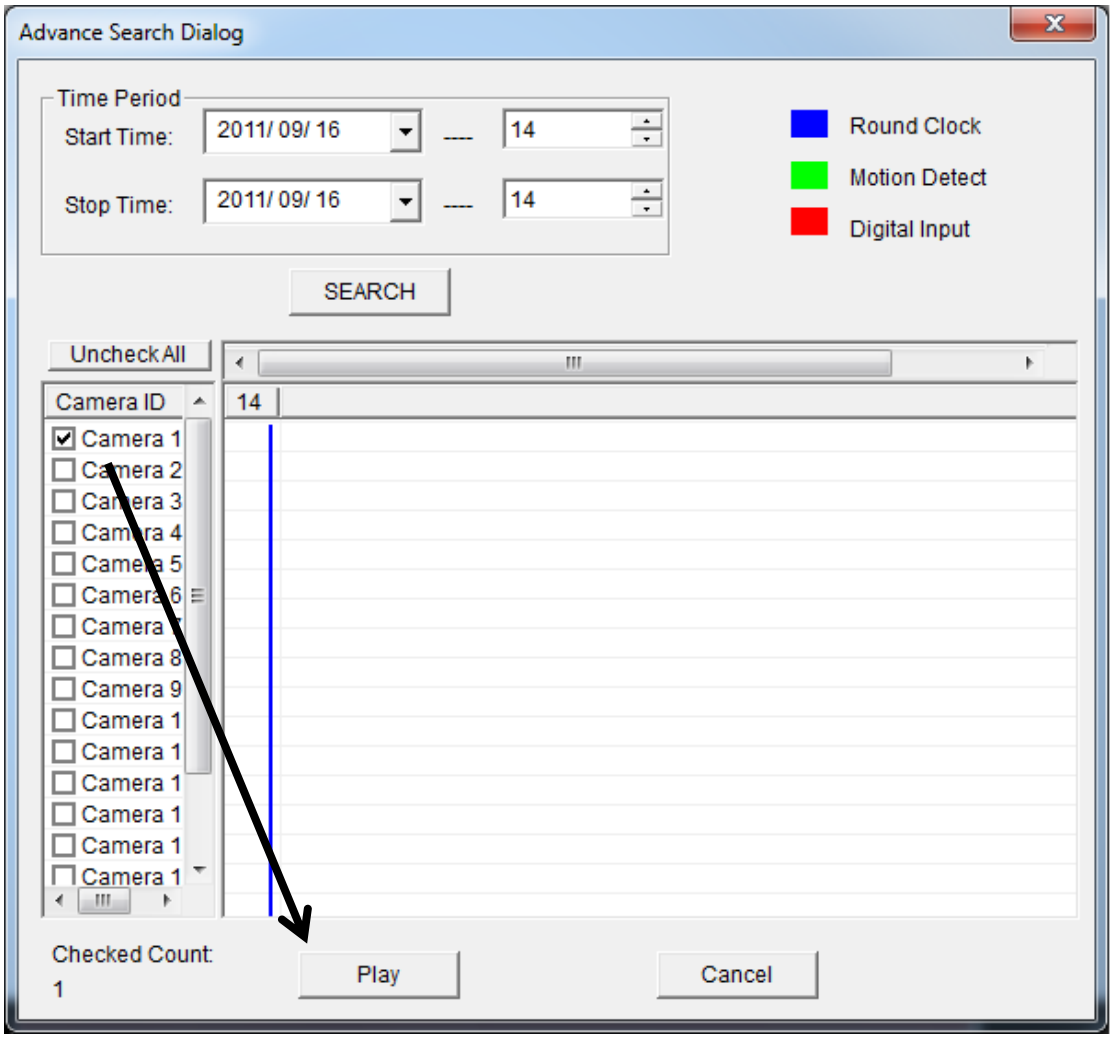


In this picture, a recorded video of 'Camera 1' has been found at 12 o'clock.
A blue mark indicates it's a 'Round Clock' (manual) recording.
Other record type include:



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.

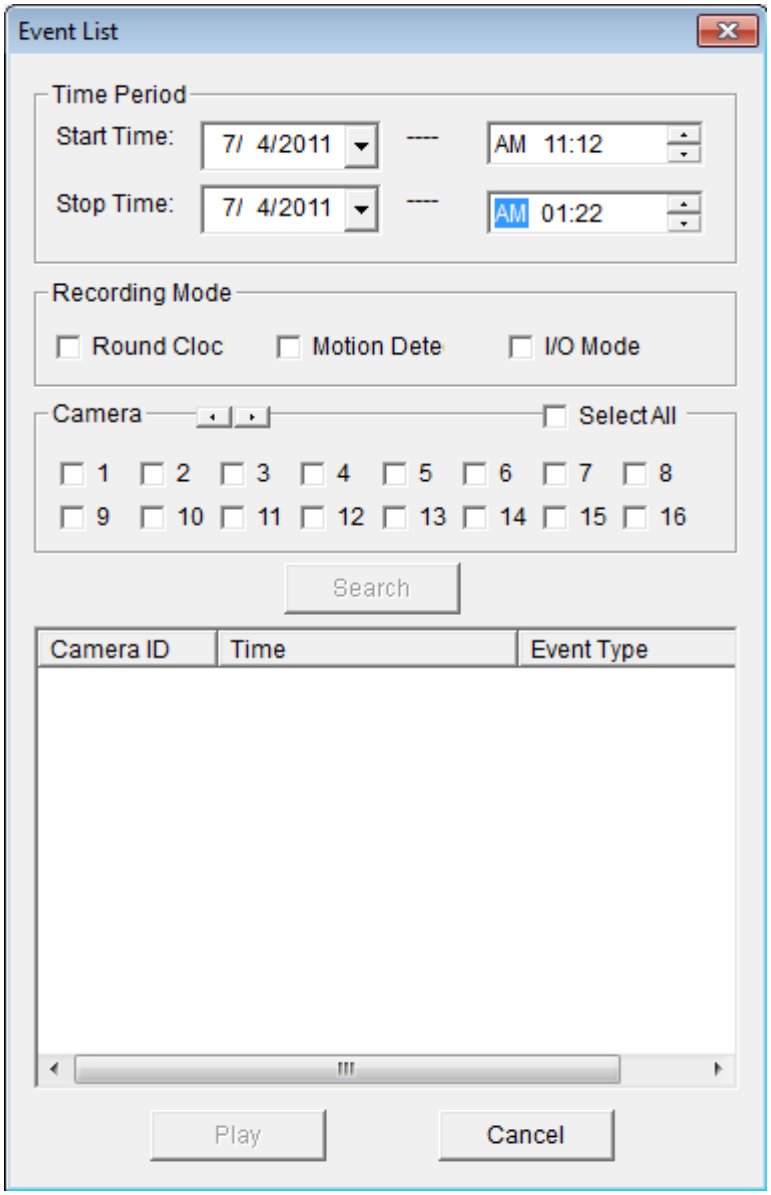


And the video will be prepared for playback.



4-4-2 Event Search

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

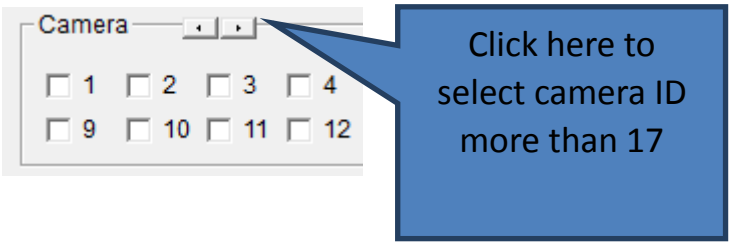


To search for video, you have to specify:

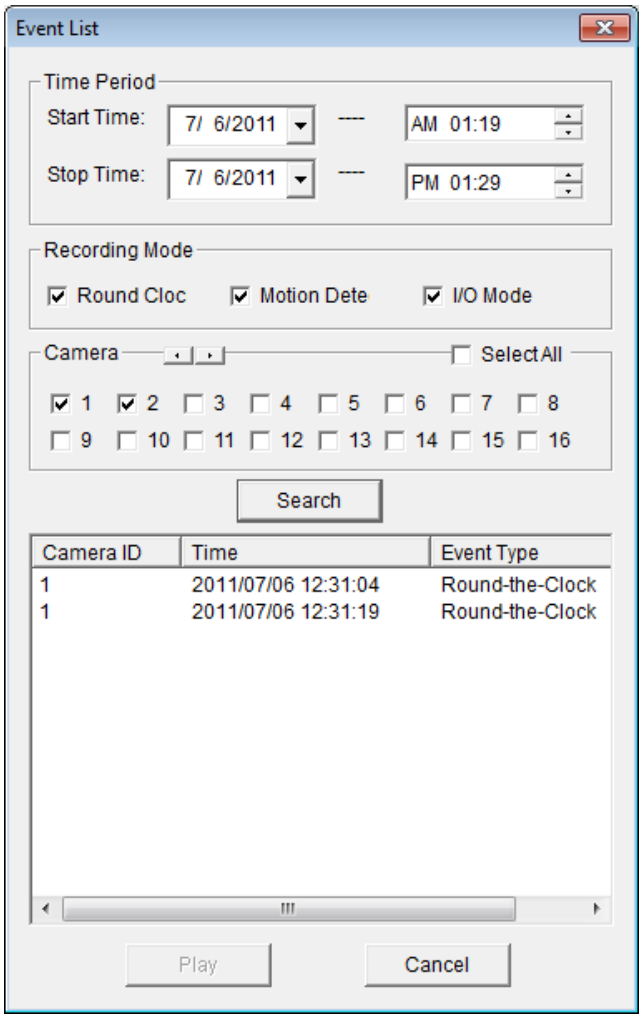
1) starting and ending time for video searching in ‘Start time’ and ‘Stop time’ field

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:

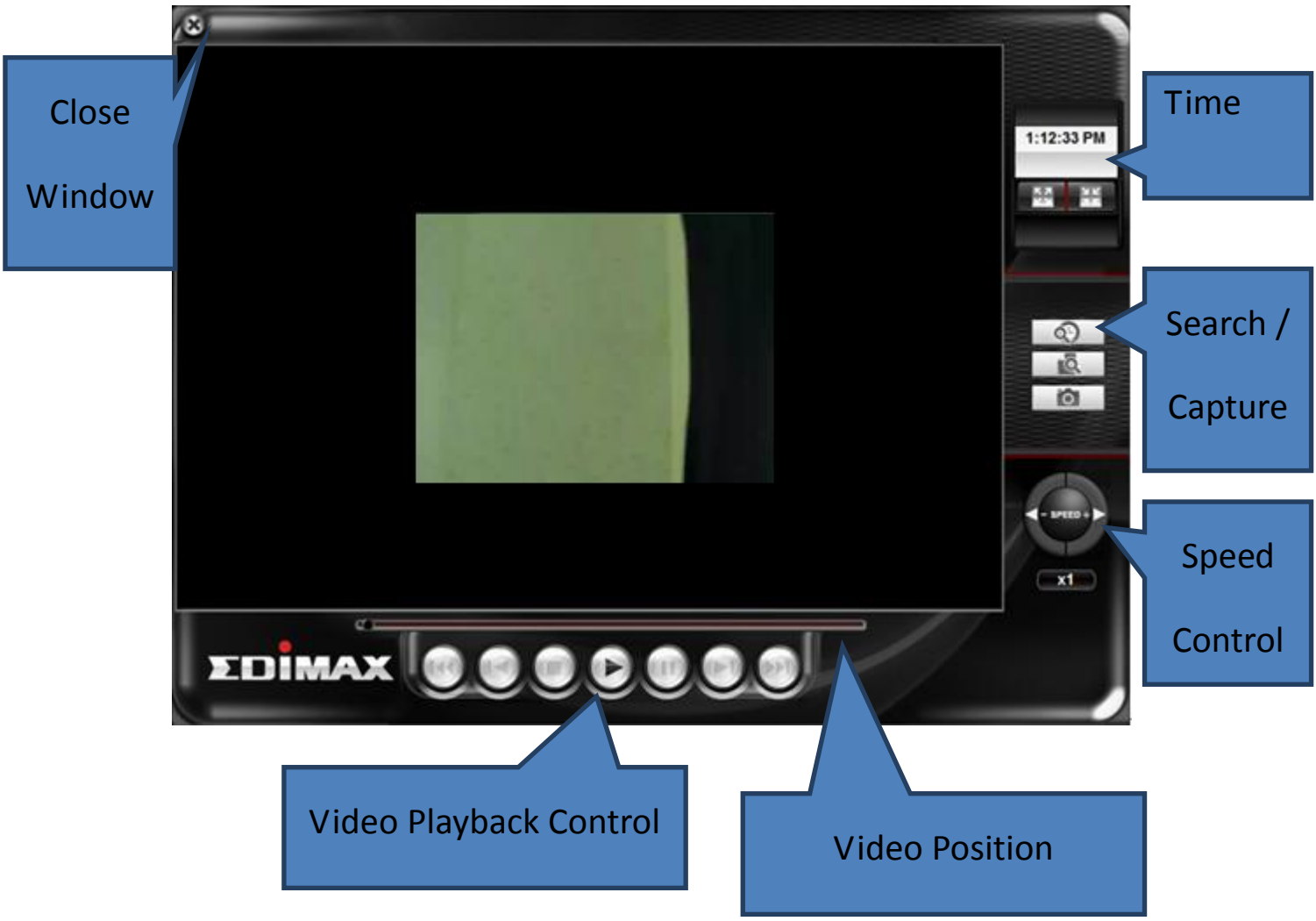


You can select the video clip you wish to play, and click ‘Play’ button.


IPCAM
上午 11:48:58
SPEED
x1
EDIMAX

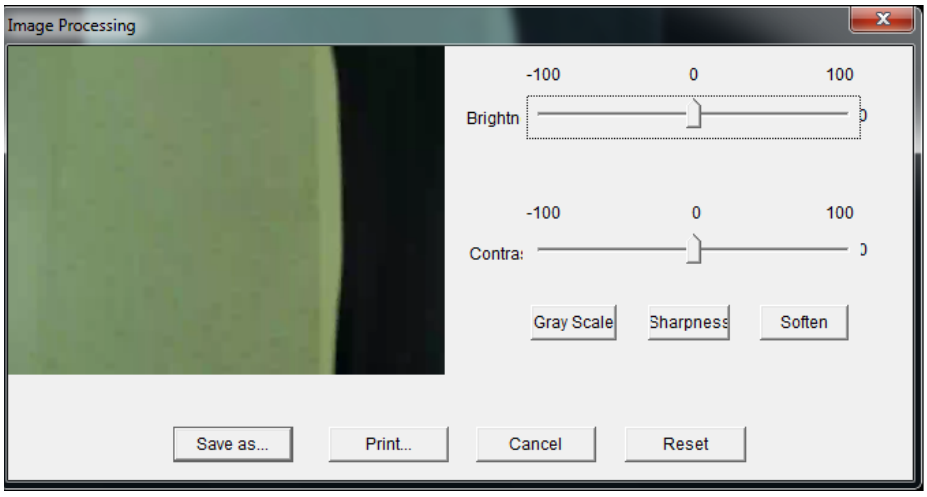
4-4-3Video Playback

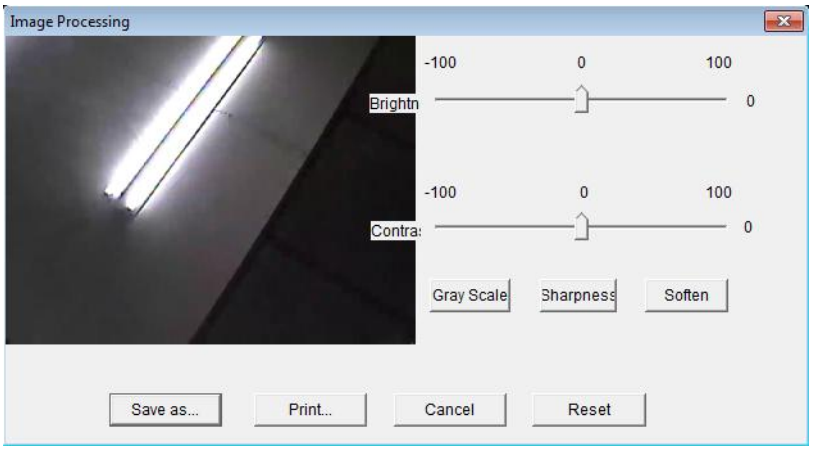
When a video is loaded, the video playback screen will look like this:



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: Skip to the beginning position of video

	 Skip to previous video frame  Stop video playback  Start video playback  Pause a playing video, click 'Play' to resume video playback  Skip to next video frame  Skip to the ending position of video clip
Speed Control	When video is stopped, you can click + or – button to adjust video playback speed: from 1⁄4 to 4x speed. *You cannot adjust video playback speed when video is playing.*
Search / Capture	Click  or  button to search for video (see chapter 3-2 / 3-3 for detailed instruction). Click  button to take a snapshot picture of current video playback position. A new window will appear: 

	 You can adjust image brightness / contrast by dragging corresponding slide bar, or click 'Gray Scale', 'Sharpness', 'Soften' to adjust image parameters. 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. To back to previous menu, click 'Cancel'; click 'Reset' to reset image parameters back to default value.
Time	Current time will be displayed here. You can click ' button to display video zoom in, or click button to display video zoom out.

Chapter V Troubleshooting

Please don't panic when you found this IP Camera is not working properly. Before you send this IP Camera back to us, you can do some simple checks to save your time:

Problem description	**Possible solution(s)**
Can't connect to IP Camera	1) Please check the IP address of IP Camera again. 2) Please make sure the network cable is correctly connected to your local area network. 3) Please make sure power cable is correctly connected to IP Camera. 4) Please make sure IP Camera is switched on (the LED lights on IP Camera will light up).
No IP Camera found	1) 'Auto search' function only works on IP Cameras located on local area network.
No image	1) If the place where IP camera is installed is too dark, try to add some lights when possible. 2) Check if there's anything covering the lens.

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.

French: Cet équipement est conforme aux exigences essentielles et autres dispositions de la directive 2004/108/EC, 2006/95/EC.

Czechian: Toto zařízení je v souladu se základními požadavky a ostatními příslušnými ustanoveními směrnic 2004/108/EC, 2006/95/EC.

Polish: Urządzenie jest zgodne z ogólnymi wymaganiami oraz szczególnymi warunkami określonymi Dyrektywą UE 2004/108/EC, 2006/95/EC.

Romanian: Acest echipament este în conformitate cu cerinţele esenţiale şi alte prevederi relevante ale Directivei 2004/108/EC, 2006/95/EC.

Russian: Это оборудование соответствует основным требованиям и положениям Директивы 2004/108/EC, 2006/95/EC.

Magyar: Ez a berendezés megfelel az alapvető követelményeknek és más vonatkozó irányelveknek 2004/108/EC, 2006/95/EC.

Türkçe: Bu cihaz 2004/108/EC, 2006/95/EC direktifleri zorunlu istekler ve diğer hükümlerle ile uyumludur.

Ukrainian: Обладнання відповідає вимогам і умовам директиви 2004/108/EC, 2006/95/EC.

Slovakian: Toto zariadenie spĺňa základné požiadavky a ďalšie príslušné ustanovenia smerníc 2004/108/EC, 2006/95/EC.

German: Dieses Gerät erfüllt die Voraussetzungen gemäß den Richtlinien 2004/108/EC, 2006/95/EC.

Spanish: El presente equipo cumple los requisitos esenciales de la Directiva 2004/108/EC, 2006/95/EC.

Italian: Questo apparecchio è conforme ai requisiti essenziali e alle altre disposizioni applicabili della Direttiva 2004/108/EC, 2006/95/EC.

Dutch: Dit apparaat voldoet aan de essentiële eisen en andere van toepassing zijnde bepalingen van richtlijn 2004/108/EC, 2006/95/EC.

Portugese: Este equipamento cumpre os requesitos essênciais da Directiva 2004/108/EC, 2006/95/EC,

Norwegian: Dette utstyret er i samsvar med de viktigste kravene og andre relevante regler i Direktiv 2004/108/EC, 2006/95/EC.

Swedish: Denna utrustning är i överensstämmelse med de väsentliga kraven och övriga relevanta bestämmelser i direktiv 2004/108/EC, 2006/95/EC.

Danish: Dette udstyr er i overensstemmelse med de væsentligste krav og andre relevante forordninger i direktiv 2004/108/EC, 2006/95/EC.

Finnish: Tämä laite täyttää direktiivien 2004/108/EC, 2006/95/EC, oleelliset vaatimukset ja muut asiaankuuluvat määräykset.

FOR USE IN AT BE CY CZ DK EE FI FR DE GR HU IE IT LV LT LU MT NL PL PT SK SI ES SE GB IS LI NO CH BG RO TR

CE FC *N20379*

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 LVD directive (2006/95/EC) and EMC directive (2004/108/EC).

Equipment:	**3Mpx PoE True Day & Night Network Camera**
	3Mpx True Day & Night Network Camera
Model No.:	**NC-213E**
	NC-213
Report No.:	**T110906219-E; T110906219-LV**

The following European standards for essential requirements have been followed:

European Standard EN 55022:2006+A1: 2007, Class A
CISPR 22: 2008 (Ed 6.0)
EN 61000-3-2:2006, EN61000-3-3:2008
EN 55024:1998+A1:2001+A2:2003
(IEC61000-4-2:2008
IEC 61000-4-3:2006 +A1:2007
IEC 61000-4-4:2004
IEC 61000-4-5:2005
IEC 61000-4-6:2008
IEC 61000-4-8:2009
IEC 61000-4-11: 2004)

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

Date of Signature: February 7, 2012
Signature:

Printed Name: Albert Chang
Title: Director
Edimax Technology Co., Ltd.

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