







MPEG-4 IP Camera

User Manual

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Chapter 1. General Introduction

Thank you for purchasing this product. It is a versatile and high image solution for your small office or home surveillance. It's also a stand-alone camera system with a built-in processor and web server that provides highest quality video and system performance.

This IP camera can be accessed remotely, and controlled from any PC/Notebook over the Intranet or Internet via web browser or remote application software. The user-friendly installation procedure and intuitive web-based interface offer easy integration with your LAN environment or Wi-Fi network. IT also comes with a lot of useful alarm tool for notice user any situation. It's a really good choice to build a stable and remote surveillance system.

1.1 Product Package Contents

Before installation, please check your package contents to ensure that all items have been included in product. If any of the listed items are missing, please contact your reseller from where you purchased this product for assistance.

The package includes:

. IP Camera device * 1

IP Camera bracket (white) * 1

AC Power adapter * 1 (None of MPEG-4 IP camera with PoE)

Cat-5 Network cable * 1

Installation CD * 1

Users Manual * 1

If any of above items's missing, please contact your local reseller immediately.

1.2 System Requirements of IE browser

Local Area Network: 10Base-T Ethernet or 100BaseTX Fast Ethernet Wi-Fi Network:
IEEE 802.11 b/g

Configuration Environment of browser:

- ActiveX Enabled and Compliant Web Browser (recommended: Microsoft™ Internet Explore 6.0 or later)
- CPU: Pentium IV, 1.8 GHz or above
- Memory Size: 512MB recommended
- VGA card resolution: 1024*768 (recommended: Support Overlay function VGA Card)
- OS: Windows™ 2000 SP4, XP SP2 and VISTA (32 bits)
- Other suggestion requirement: CD-ROM.

Important! : A fixed IP address is not required to access camera from the Internet.

However, if your IP address is dynamic IP, provided by your Internet service provider. Then signing up for a dynamic DNS (DDNS) service

will make accessing form the Internet much convenient. Singing up for a DDNS is easy and cost-free. More method for dynamic IP connect please sees FAQ for more detail.

1.3 Hardware Diagram and Connection

Front:

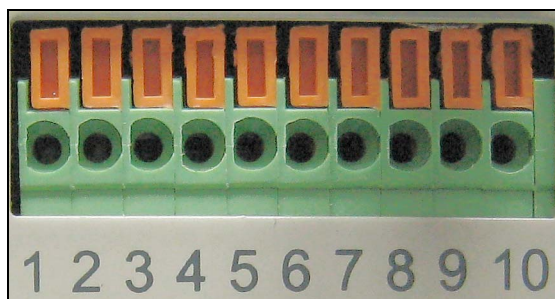


Rear:



NOTE! : To launch the RESET, please push the button down over 10 seconds.

Alarm I/O pins definition:



Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	Pin 10
OUT	OUT 1	IN	GND	RS485+ (Rx)	RS485- (Rx)	RS485- (Tx)	RS485+ (Tx)	RS232 (Rx-IN)	RS232 (Tx-IN)

How to connect the cables with IP camera, please check below steps:

Step 1. Plug the Ethernet cable into the RJ-45 connector at the LAN connector as picture shown.

Step 2. Plug the other end of the Ethernet cable into any available LAN port. A typical home router/gateway connection.

Step 3. Connect the power supply to the Power connector, and then plug the supply into an available power outlet.



LAN (Internet or Intranet) RJ-45

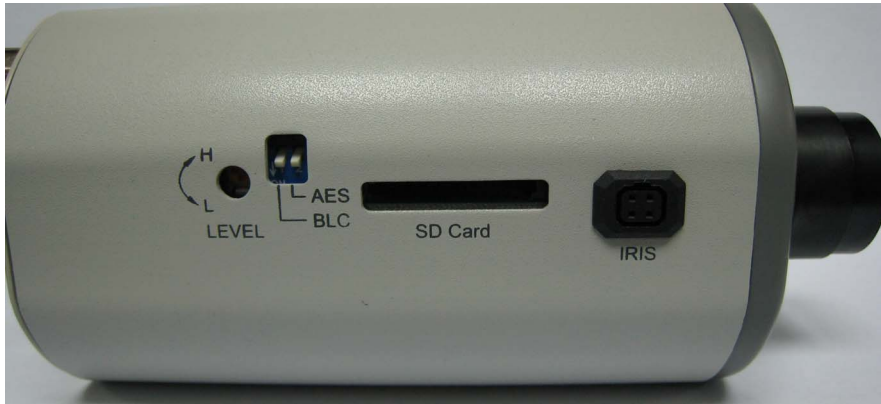


Power

Caution 1: Make sure that you used correct power adapter for SD-605 IP Camera. Using an incorrect power adapter may damage the device.

Caution 2: If you're using SD-605P (PoE IP camera), there's no connection of Power supply.

Side of IP camera:



Adjust the level of Video Signal (H: High, L: Low)



AGC functions (switch down to enable [ON])

AES: Auto Electronic Shutter between 1/60(50) – 1/100000

BLC: White Balance (AUTO)



SD card slot

Please make the golden fingers of SD card face to down side and then plug into the slot well.



Auto IRIS for Lens (optional)

Chapter 2. Basic Introduction of IE

2.1 Foreword

For easy and convenient setup, we recommended to use Windows™ Internet Explorer 6.0 or above version at the first time to login and setup the IP camera. **For IE of Windows™ Vista OS, please refer to [Internet Explorer Security Settings](#).**

Please connect the power core with IP camera well and then use network cable to connect IP camera with hub or switch hub directly. And please note that IP of PC should be under the same network area which's like: 192.168.0.xxx (except 192.168.0.100), subnet: 255.255.255.0

The IP camera had a default IP was: 192.168.0.100

The default account name & password were: admin

Now, we can start to login and setup IP camera as below chapter.

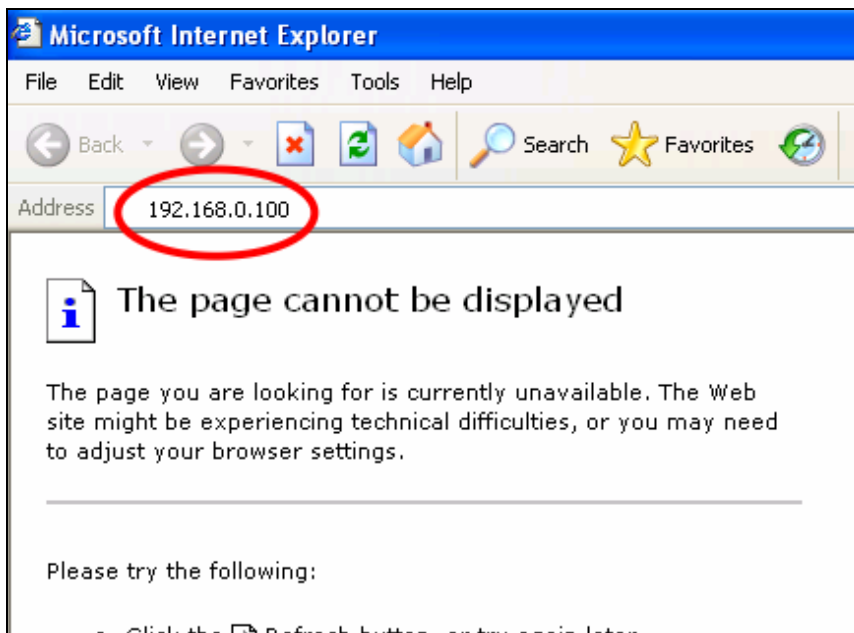
Note! : At the first time to connect and setup the IP camera, we didn't recommend to connect with PC directly because the IP camera needs to download a MPEG-4 codec from Internet as below chapter. The PC will not be able to connect with internet if only have one network card to connect with IP camera directly.

2.2 The first time to login and setup IP camera

Step 1. Please use mouse to double-click the IE icon on desktop or quick launch bar.

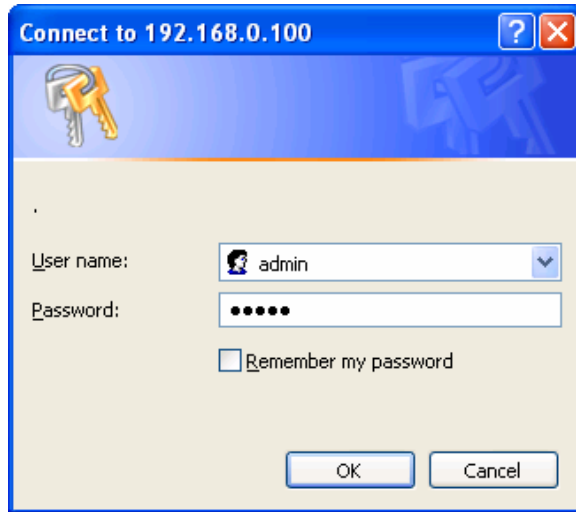


Step 2. After IE launch, please key-in the IP, 192.168.0.100 into the IP address blank as below and then just press “ENTER” on keyboard.

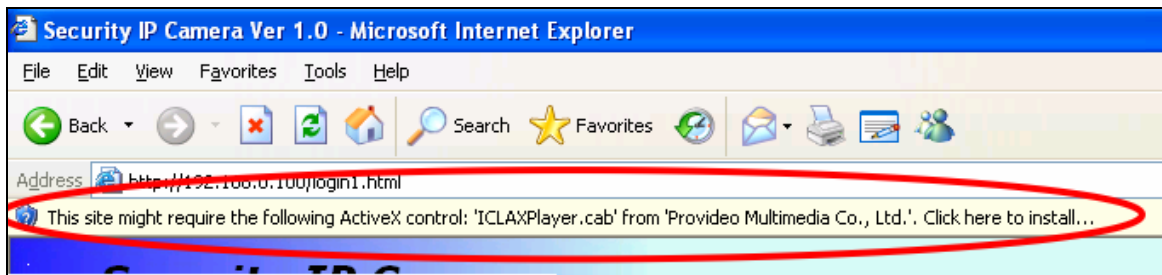


Step 3. The IE will require to the User Name and Password for login. Please input the default Name and Password which both were: **admin**

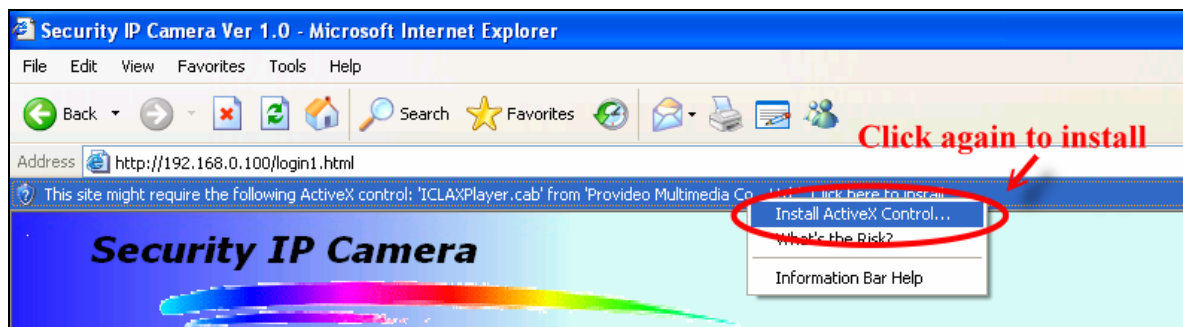
They can be changed in IP camera's configuration, please check [System Set - Account](#).




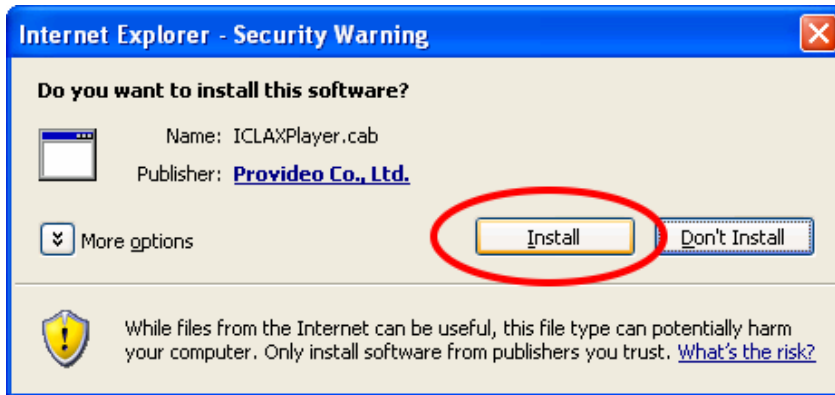
Step 4. After login, you'll see a yellow bar upon the webpage, please do click the bar to install ActiveX™ program or the IP camera cannot work well.



Step 5. After above, please click “Install ActiveX Control” item again to install the program of IP camera.

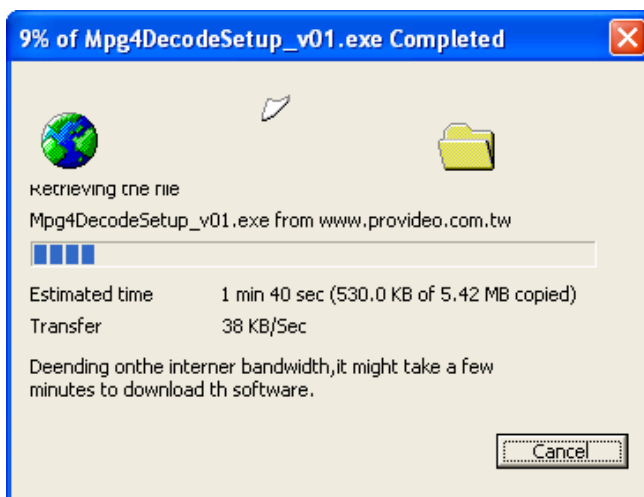


Step 6. Please select  to continue installation.



Step 7. If your PC connect to internet well, the installation will auto download and install all the required programs. Please wait for little time to finish the installation and please DO NOT interrupt the process.

If the installation have not begin to process automatically, please check your internet connection of PC and then download / install the programs according to the IP camera's first webpage description.



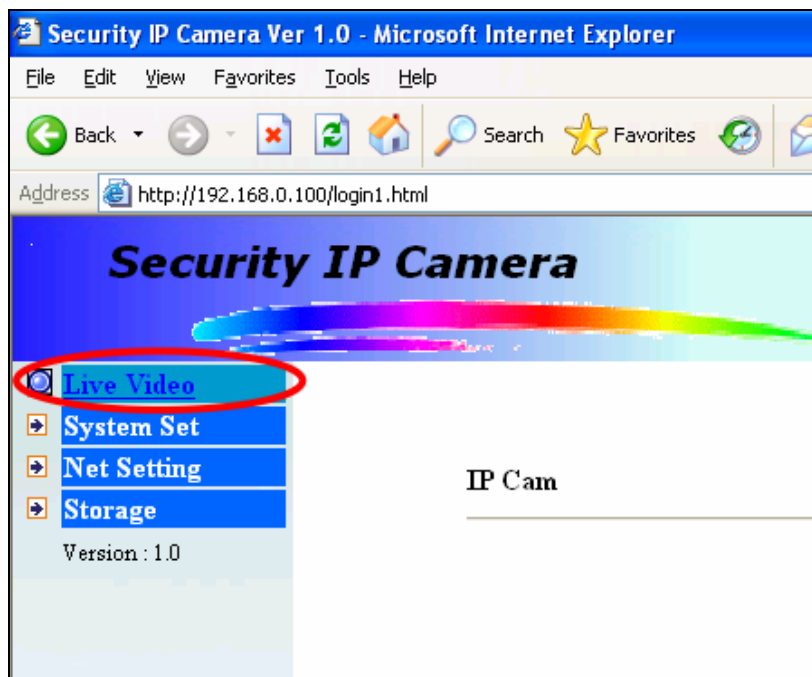
Below contents was the IP camera's first webpage description. For your info.

Important!: It will auto-install the decoder program
while you first time see this webpage. If not, please click
http://www.provideo.com.tw/FFPlayer/Mpg4DecodeSetup_vxx.exe
to download and then install the decoder program by yourself. Thank you.

Step 8. It means FINISH if the auto-installation window shut down, please click

Live Video

to check the Live Video of IP camera.

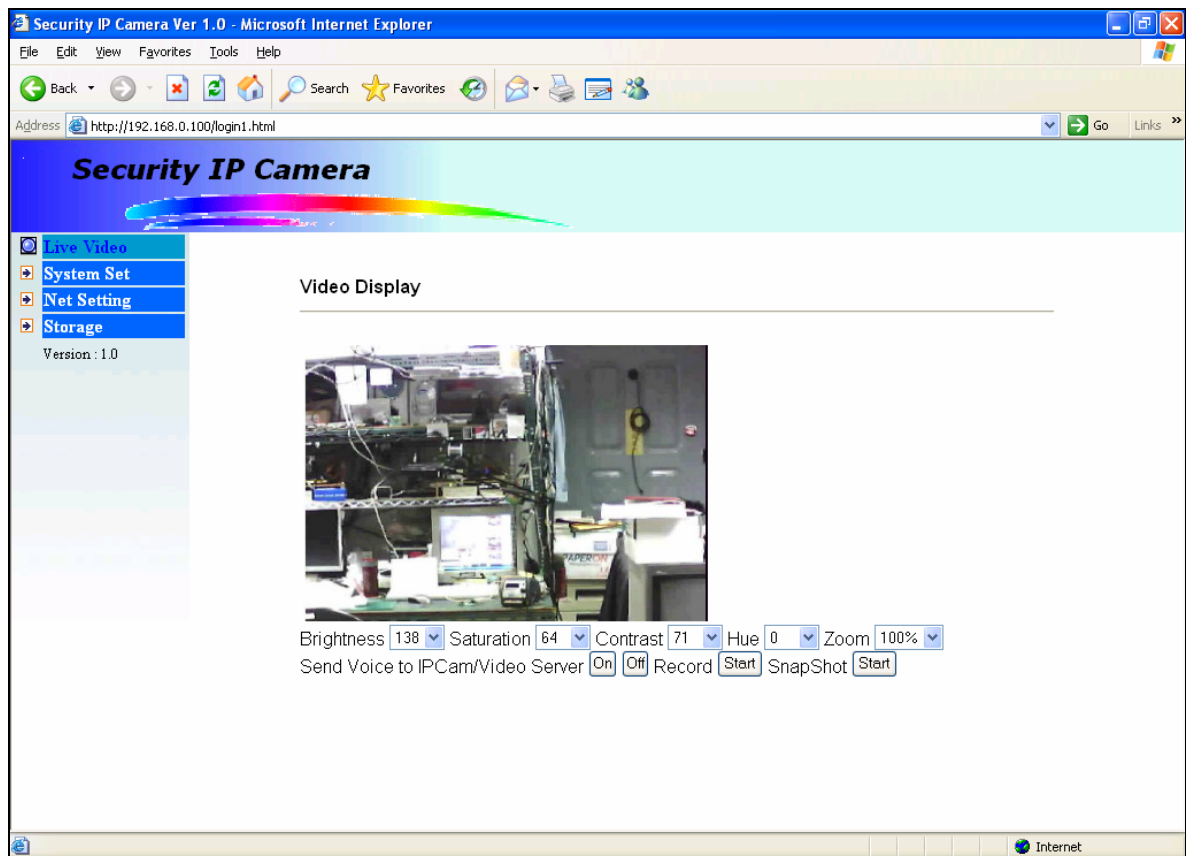


Step 9. At this time, sometimes the Windows™ firewall will popup the alert message to ask for blocking. Please DO NOT block the traffic between IE and IP camera.

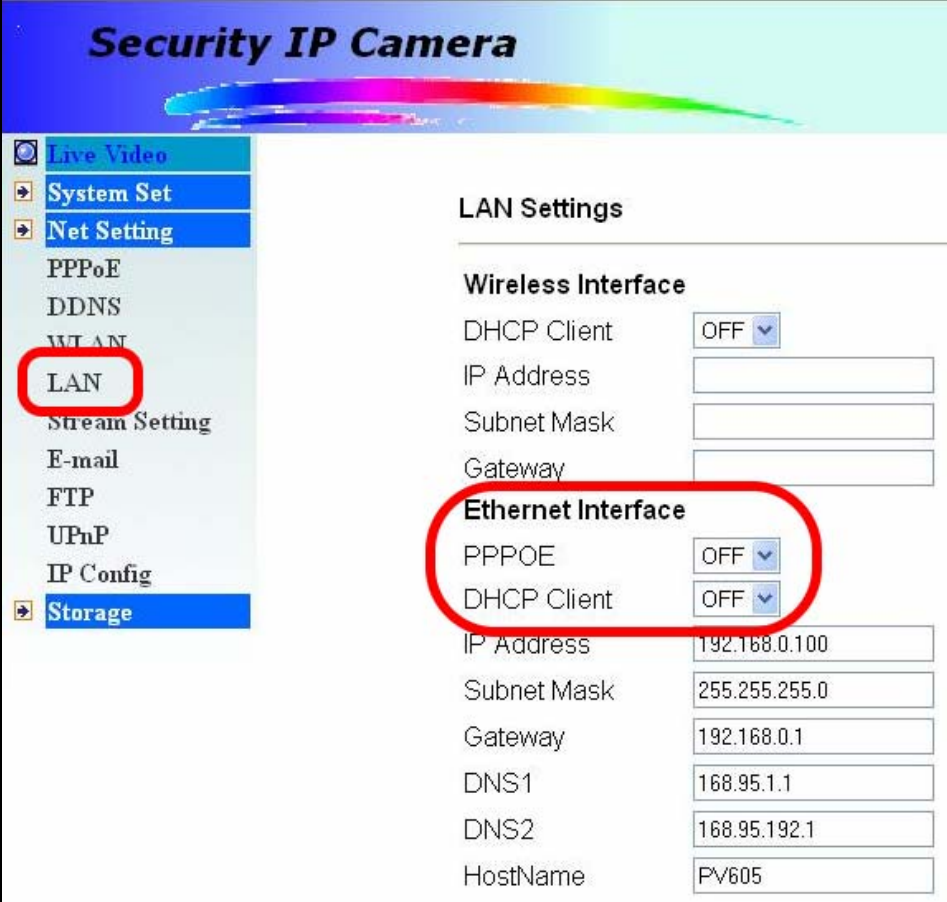
Please select to continue the process.



Step 10. Finally, we can see the Live Video from IP camera. If you cannot see the video, may be caused by the Mpeg4DecodeSetup program didn't install well. Please download and install manually and then check the video again.



Step 11. If the video have no problem, users can setup the basic network configuration which was like: LAN or PPPoE as below diagrams. For advanced setup of the configurations, please refer to [Net Setting - LAN](#).



Security IP Camera

Net Setting

- Live Video
- System Set
- Net Setting
- PPPoE
- DDNS
- WLAN
- LAN**
- Stream Setting
- E-mail
- FTP
- UPnP
- IP Config
- Storage

LAN Settings

Wireless Interface

DHCP Client: OFF

IP Address:

Subnet Mask:

Gateway:

Ethernet Interface

PPPOE: OFF

DHCP Client: OFF

IP Address: 192.168.0.100

Subnet Mask: 255.255.255.0

Gateway: 192.168.0.1

DNS1: 168.95.1.1

DNS2: 168.95.192.1

HostName: PV605

LAN



Security IP Camera

Net Setting

- Live Video
- System Set
- Net Setting
- PPPoE**
- DDNS
- UPnP
- LAN
- Stream Setting
- E-mail
- FTP
- WLAN
- IP Config
- Storage

PPPoE Configuration

User Name:

Password:

Password Retype:

Version : 1.0

PPPoE

Chapter 3. Advanced Configuration of IE

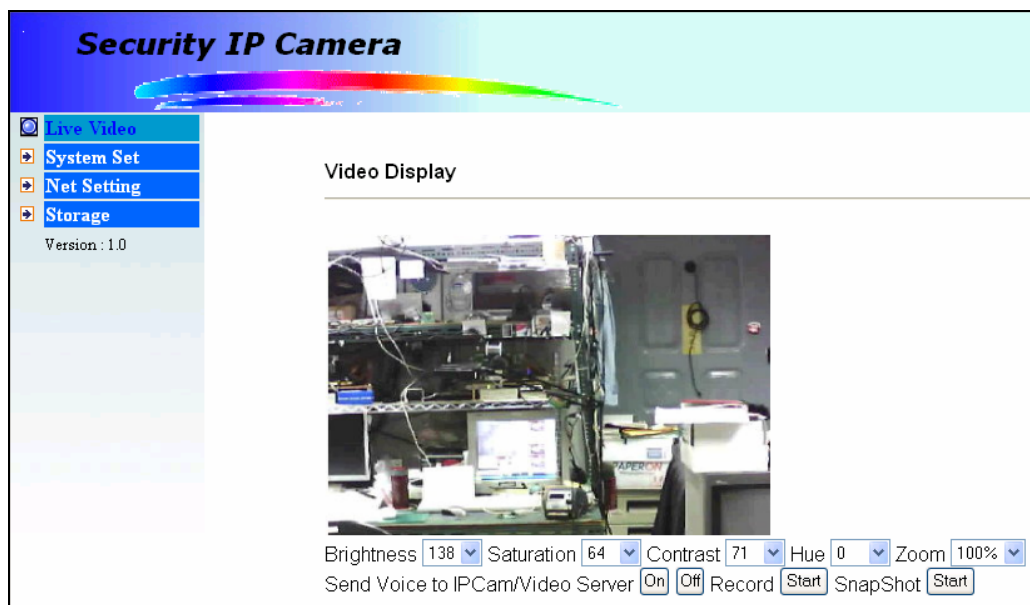
3.1 Foreword

This chapter's mainly to introduce about the IE advanced configurations of IP camera. Users can setup ALL detail in IE's configurations of IP cameras. Thus please pay much attention to read this chapter will help to know more about IP cameras. If you use the IE of Windows™ VISTA operating system, please refer to [Internet Explorer Security Settings](#). We'll have detail introduction of all IE function pages in this chapter. Please read it one by one if need to setup advanced configurations.

3.2 IE Function Pages

Live Video page

Live Video



Live Video window:



Display OSD timer

Live Video configurations:

Brightness Saturation Contrast Hue Zoom

Users can adjust the brightness, saturation, contrast and hue values of live video.

To change the zoom's value can enlarge or shrink the display size of live video window.

Reset to default values please refer to [System Setting - Reset](#).

Two-ways Audio:

Send Voice to IPCam/Video Server

Click to start sending the voice from PC sound card to IP camera's speaker. Click to turn-off the function.

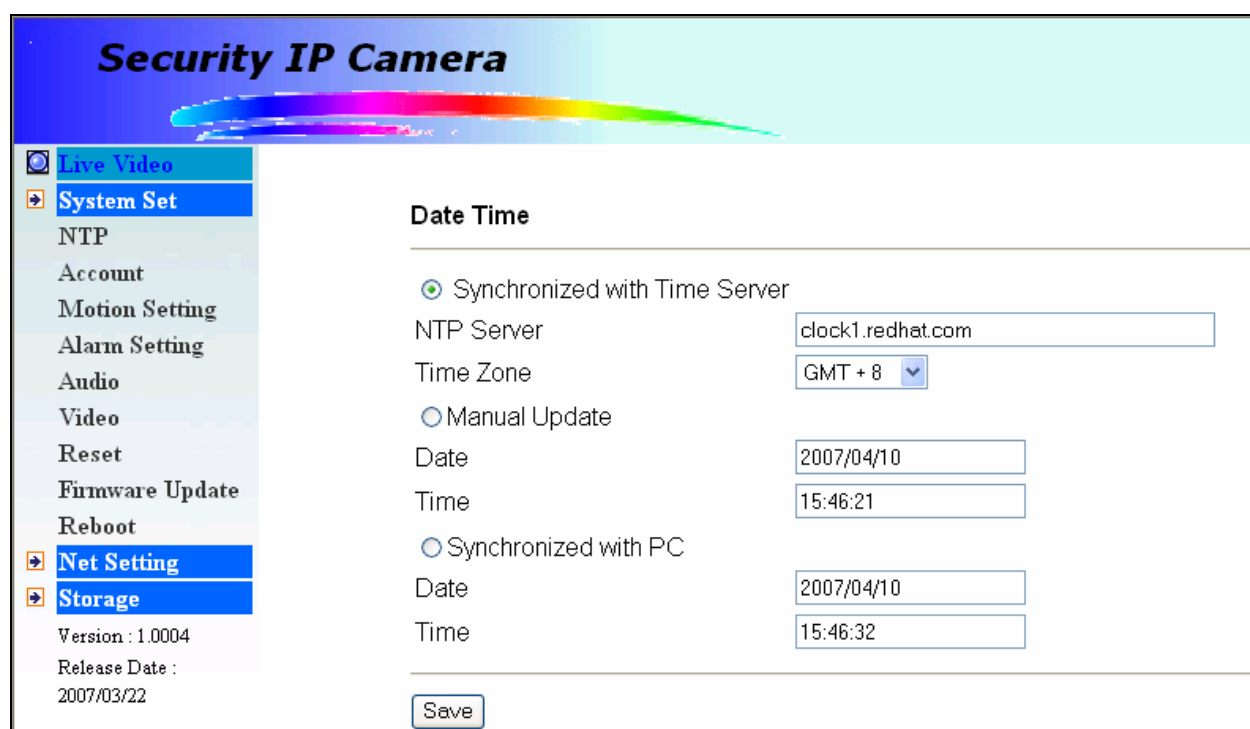
Manual Recording & Snapshot:

Record SnapShot

Click to record or snapshot, and then it will be saved in USB / SD storage.
About how to setup the storage, please refer to [Storage Setting](#).

System Set page – NTP

System Set  NTP



The screenshot shows the 'Security IP Camera' web interface. On the left is a sidebar menu with options: Live Video, System Set (selected), Account, Motion Setting, Alarm Setting, Audio, Video, Reset, Firmware Update, Reboot, Net Setting, and Storage. Below the menu, it displays 'Version : 1.0004' and 'Release Date : 2007/03/22'. The main content area is titled 'Date Time' and contains three synchronization modes: 'Synchronized with Time Server' (selected), 'Manual Update', and 'Synchronized with PC'. Each mode has input fields for 'NTP Server', 'Time Zone', 'Date', and 'Time'. The 'Synchronized with Time Server' mode shows 'clock1.redhat.com' for the NTP Server, 'GMT + 8' for the Time Zone, and '2007/04/10' and '15:46:21' for the Date and Time respectively. A 'Save' button is located at the bottom of the form.

To setup the correct date and time of IP camera in this webpage. Just select one of below three synchronizing modes from A to C and then the program will update the date & timer to the choice.

A. Select ☐ Synchronized with Time Server, then please find and input the IP / address of NTP Server and select the correct Time Zone. The IP camera will auto update with the NTP server to correct date and time.

- B. Select ☐ Manual Update, then input the correct date and time manually. The IP camera will change the time settings as user's setup.
- C. Select ☐ Synchronized with PC, then click to synchronize the date and time with users' PC timer.

NOTE! : Please be assured that you already pressed to save the settings as modified or the IP camera may not work well.

System Set page – Account

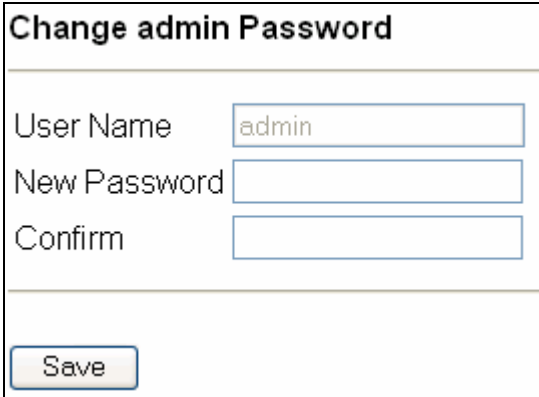
System Set ➤ Account

The screenshot displays the 'Security IP Camera' web interface. On the left is a navigation menu with options: Live Video, System Set (selected), NTP, Account, Motion Setting, Alarm Setting, Audio, Video, Reset, Firmware Update, Reboot, Net Setting, and Storage. Below the menu, it shows 'Version : 1.0004' and 'Release Date : 2007/03/22'. The main content area is titled 'Change admin Password' and contains three input fields: 'User Name' (pre-filled with 'admin'), 'New Password', and 'Confirm'. A 'Save' button is located below these fields. A second section, 'Change user Password', also contains three input fields: 'User Name' (pre-filled with 'user'), 'New Password', and 'Confirm', with another 'Save' button at the bottom.


Users can modify the management of users' accounts in this webpage. We provided

two different levels of Administrator and General User to be used. Please setup the account management as below instruction.

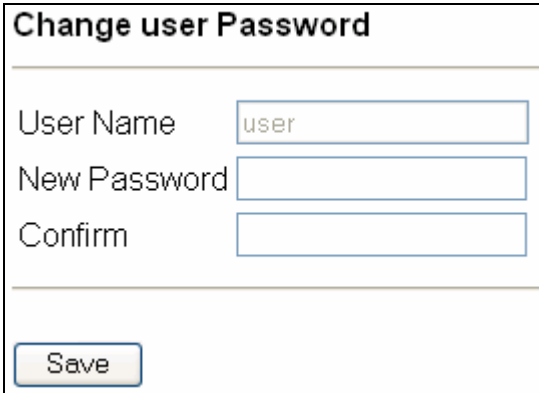
Administrator level: This level had authority to setup and modify all settings of IP cameras, thus please keep this account for higher securing.




The form is titled "Change admin Password". It contains three input fields: "User Name" with the value "admin", "New Password", and "Confirm". A "Save" button is located at the bottom left of the form.


Administrator Name was fixed, 『admin』, it cannot be modified. Please change the password and confirm again, then click  to save the settings.

General User level: This level only had authority of video previewing, thus it cannot modify any setting of IP camera.



The form is titled "Change user Password". It contains three input fields: "User Name" with the value "user", "New Password", and "Confirm". A "Save" button is located at the bottom left of the form.


User Name was fixed, 『user』, it cannot be modified. Please change the password and confirm again, then click  to save the settings.


NOTE! : Please be assured that you already pressed  to save the settings as modified or you may not login to IP camera again.

System Set page – Motion Setting


System Set  Motion Setting


Security IP Camera

 **Live Video**


 **System Set**

NTPAccountMotion SettingAlarm SettingAudioVideoResetFirmware UpdateReboot

 **Net Setting**

 **Storage**

Motion Detection Settings



Motion Setting

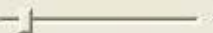
Mask Number

1

Delete

Sensitivity

L



H

01

☒ Picture Capture

☒ Send FTP☒ Send Mail

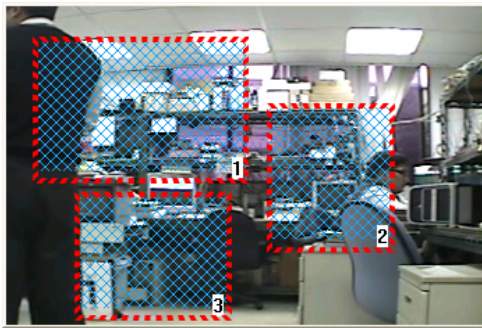
☒ Use Direct Draw

Save

This IP camera supports Motion Detection on-line by itself and also can send alarm out to notify users. About Motion Detect, users can find and modify the settings in this webpage. We'll introduce the detail as following.

Video Window:

This video window displays the camera's video and the marked area of motion detecting (if you haven't arrange the mask area, enable MD will have the program to detect ALL area).



In this picture, we already arranged 3*mask areas for examples, so you can see 3*blue color masks on video window.

Mask Number:

Mask Number	<input type="text" value="3"/>	<input type="button" value="Delete"/>
-------------	--------------------------------	---------------------------------------

If you want to setup the mask of motion detecting, please select the mask number firstly and then use mouse (press left button) to drag on video window for drawing a blue area. You'll see a blue area after dragging (release mouse key) and marked to the mask number on video window.

If you want to delete the mask, also please select the Mask Number firstly. Then click

<input type="button" value="Delete"/>

to delete the mask.

Sensitivity:



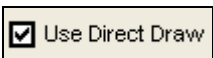
Users can adjust the sensitivity of Motion Detection. Just need to use mouse to click the slide bar and then move on the level between Low (L) and High (H) sensitivity.

Picture Capture:



Enable ☒ **Picture Capture** to snapshot and then send to ☒ **Send FTP** (FTP) or ☒ **Send Mail** (Mail box) while motion being detected. About how to setup the FTP and MAIL, please refer to [Net Setting - Email](#) and [Net Setting - FTP](#)

Use Direct Draw:



If you cannot see the video of Motion Detect video window, please enable this item for more compatibility of VGA display.

NOTE! : Please note that Motion Detect function will work after pressed to save the settings.

System Set page – Alarm Setting

System Set



Alarm Setting

Security IP Camera

Live Video

System Set

NTP

Account

Motion Setting

Alarm Setting

Audio

Video

Reset

Firmware Update

Reboot

Net Setting

Storage

Digital Input Alarm Settings

Alarm Picture

Enable

Off

Alarm Action

Alarm Mail

Off

Alarm Ftp

Off

Video Loss Alarm Settings

Alarm Mail

Off

Output Alarm Settings

Output Alarm Event Select

Off

Output Alarm Action Time

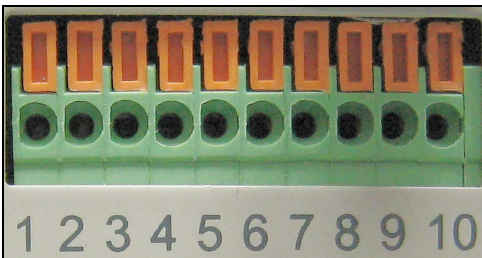
1 sec

Manual Output Test

Trun off Output

Save

This IP camera supports Hardware I/O alarm device (see below picture, it's the hardware IO device).



Back-panel of IP Camera

Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	Pin 10
OUT	OUT 1	IN	GND	RS485+ (Rx)	RS485- (Rx)	RS485- (Tx)	RS485+ (Tx)	RS232 (Rx-IN)	RS232 (Tx-IN)

We'll introduce the detail of IO configuration as following.

Digital Input Alarm Settings:

Digital Input Alarm Settings

Alarm Picture

Enable

Alarm Action

Alarm Mail

Alarm Ftp

This setting's for uses to setup **the Alarm Actions (alarm picture to mail and FTP) as responding to the IO Input.**

For example: We connected a sensor at IO INPUT and then enable (turn ON status) all the Alarm Actions included Alarm Picture to Mail and FTP. When the sensor detects something wrong, it will send the alarm having snapshot to MAIL and FTP at the same time.

Video Loss Alarm Settings:

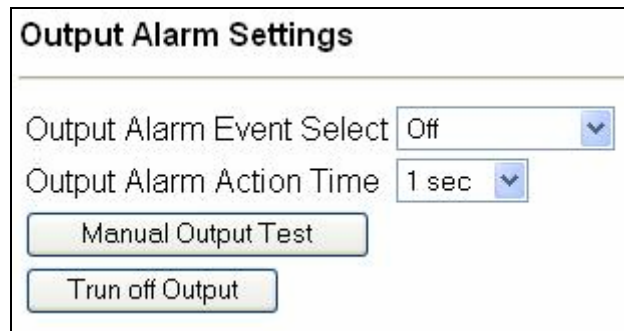
Video Loss Alarm Settings

Alarm Mail

This setting's for uses to setup **the Alarm Actions (alarm picture to mail) as responding to the Video Loss.**

It means that IO Output will send alarm out and send message to mail box if the IP camera lost the video signal.

Output Alarm Settings:



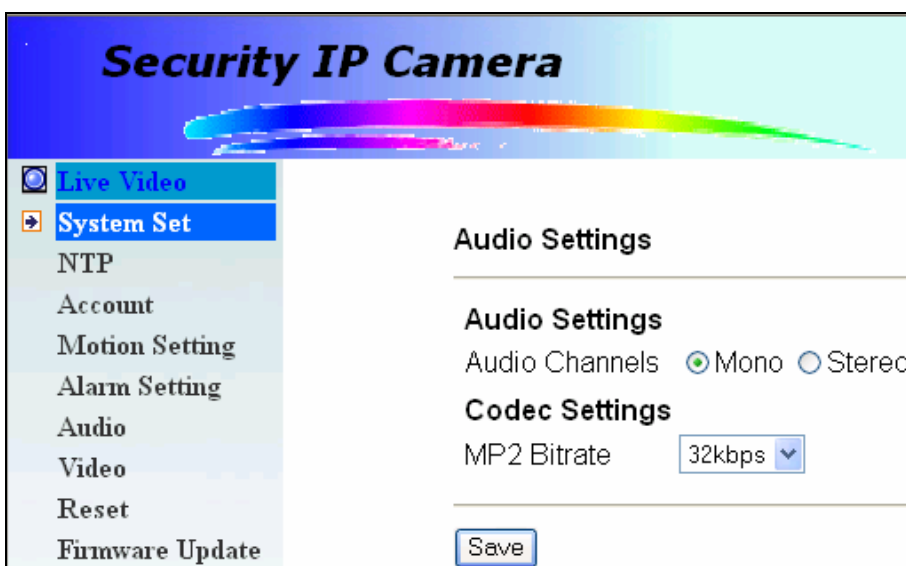
Users can select the one Output Alarm Event in “Motion Detect”, “Digital Input” and “Video Loss”.

This setting's also for uses to adjust the Action Time (from 1 second to 19 seconds) of Output alarm and test the Alarm Output function.

NOTE! : Please note that Alarm functions will work after pressed  button.

System Set page – Audio

System Set ➤ **Audio**



This setting's for users to

setup the compressed audio to storage or transmitting on network.

Audio Channels:

Audio Channels ☒ Mono ☐ Stereo

To select Mono or Stereo of the audio compression.

Codec Settings:

MP2 Bitrate 32kbps ▼

To setup the Bitrate in 32kbps, 48kbps or 64kbps of the audio compression. Set to smaller will get smaller size to storage or transmitting on network.

NOTE! : Please note that Audio will be changed after pressed button.

System Set page – Video

System Set  Video

Security IP Camera

☒ Live Video

☒ System Set

NTP

Account

Motion Setting

Alarm Setting

Audio

Video

Reset

Video Settings

For Professional Users

OSD timer OFF ▼

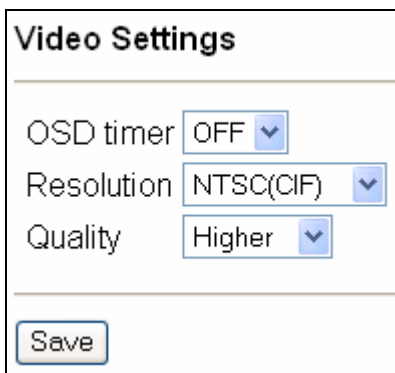
Resolution NTSC(CIF) ▼

Quality Higher ▼

This setting's for users to setup the compressed video to storage or transmitting on network. We designed two different setup modes for user's choice. One is for Beginner and the other's for Professional Users. Generally we strongly recommended to use the Beginner Mode, it's enough to setup the video compression. Below we will introduce the detail about the two modes:

For Beginner

In Beginner mode, we can setup the main video stream simply.



The screenshot shows a 'Video Settings' dialog box. It contains three dropdown menus: 'OSD timer' set to 'OFF', 'Resolution' set to 'NTSC(CIF)', and 'Quality' set to 'Higher'. A 'Save' button is located at the bottom left of the dialog box.

OSD timer: Enable to display the OSD Timer on video.

Resolution: Select the resolution of video to QCIF, CIF or D1. This will have effect on storage and network transmission.

Quality: Select the quality to Highest, Higher, Medium, Lower or Lowest. This will also have effect on storage and network transmission.

Tip: The Quality item's relate to the video's Bitrate, the Bitrate will get higher if set to better quality.

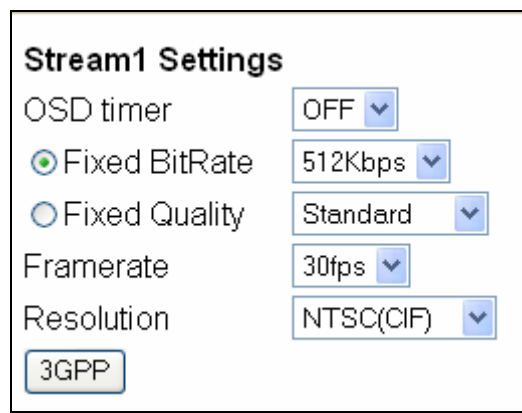
For Professional Users

In Professional mode, we can setup dual-streaming (both of Main stream and sub stream) and the video of 3GPP. Generally we take the Stream1 for main stream and the Stream2 for sub stream.

Of course the two streams can be used to record, analyze, network surveillance or re-process depends on users' requests.

We'll introduce one by one as following:

Stream1 Settings:



The screenshot shows a 'Stream1 Settings' dialog box. It contains several settings: 'OSD timer' set to 'OFF', 'Fixed BitRate' selected with a value of '512Kbps', 'Fixed Quality' selected with a value of 'Standard', 'Framerate' set to '30fps', and 'Resolution' set to 'NTSC(CIF)'. At the bottom, there is a '3GPP' button. To the right of the dialog box, the text 'Main Stream' is visible.

OSD timer Enable to display the OSD Timer on video. Please note that this function was not provided on Stream2.

☒ **Fixed BitRate** Setup the video compression of Fixed BitRate (File Size) to get stable video transmission. (From 48Kbps to 3Mbps) Users can choose either of Fixed Bitrate or Fixed Quality to setup.

☐ **Fixed Quality** Setup the video compression of Fixed Quality to get stable video quality (from Standard to Excellent quality). Users can choose either of Fixed Bitrate or Fixed Quality to setup.

Framerate

Important! Dual-Stream will share the FrameRate to each streaming. The Stream2 will not show-up if Stream1 shared Full FrameRate (NTSC: 30fps, PAL: 25fps). Please setup the Framerate for using or requests.

Resolution

Select the resolution of video to QCIF, CIF or D1. This will have effect on storage and network transmission.

Important! Click 3GPP button will send this stream (1 or 2) out for 3GPP signal. There's also a 3GPP button at the down side of Stream2 settings for choice. Please setup this function depends on the 3G bandwidth and status, of course, please use 3G mobile phone and assure there's 3G signal at local. About the 3G mobile phone compatible list, please refer to [3G Mobile List](#).

Stream2 Settings:

Stream2 Settings
Dual Bitstream
MPEG4 Settings
☒ Fixed BitRate
☐ Fixed Quality
Resolution
Framerate
MJPEG Settings
Quality
Resolution
Framerate

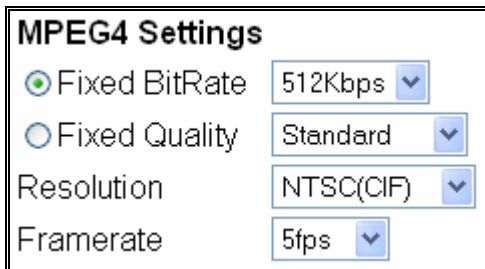
Sub Stream

Dual Bitstream

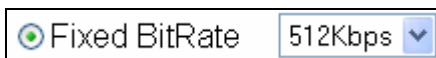
Enable to send Stream2 out for MPEG4 or M-JPEG

(either). Please note that Stream2 will not be enabled if Stream1 shared Full Framerate (25 / 30 fps).

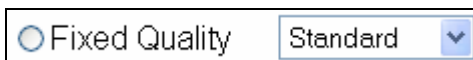
MPEG4:



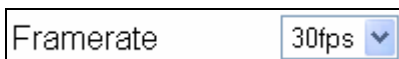
Select MPEG4 for Stream2



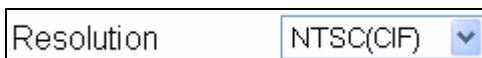
Setup the video compression of Fixed BitRate (File Size) to get stable video transmission. (From 48Kbps to 2Mbps) Users can choose either of Fixed Bitrate or Fixed Quality to setup.



Setup the video compression of Fixed Quality to get stable video quality. (From Standard to Excellent quality) Users can choose either of Fixed Bitrate or Fixed Quality to setup.



Important! Dual-Stream will share the FrameRate to each streaming. For example, under NTSC (Full Framerate: 30 fps), Stream2 can be set to 5fps if Stream1 set to 25fps.



Select the resolution of video to QCIF, CIF or D1. This will have effect on storage and network transmission.

MJPEG:

MJPEG Settings	
Quality	50 ▼
Resolution	NTSC(CIF) ▼
Framerate	1fps ▼

Select JPEG for Stream2

Quality	50 ▼
---------	------

Adjust the video quality of JPEG compression from 1 to 100.

The higher value will get higher quality and bigger file size.

Resolution	NTSC(CIF) ▼
------------	-------------

Select the resolution of video to QCIF, CIF or D1.

This will have effect on storage and network transmission.

Framerate	30fps ▼
-----------	---------

Important! Dual-Stream will share the FrameRate to each streaming. For example, under NTSC (Full Framerate: 30 fps), Stream2 can be set to 5fps if Stream1 set to 25fps.

3GPP

Important! Click 3GPP button will send this stream (1 or 2) out for 3GPP signal. There's also a 3GPP button at the down side of Stream2 settings for choice. Please setup this function depends on the 3G bandwidth and status, of course, please use 3G mobile phone and assure there's 3G signal at local. About how to use it or the 3G mobile phone compatible list, please refer to [3G Mobile List](#).

NOTE! : Please note that Video will be changed after pressed

Save

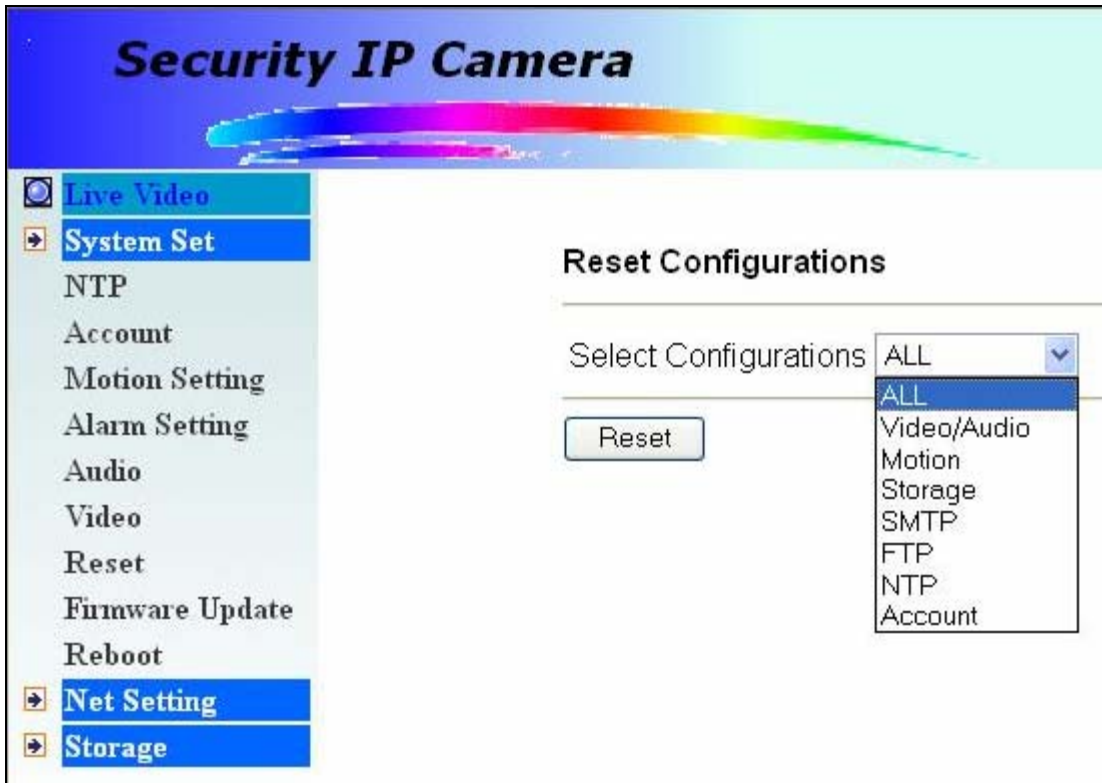
 button.

System Set page – Reset

System Set



Reset



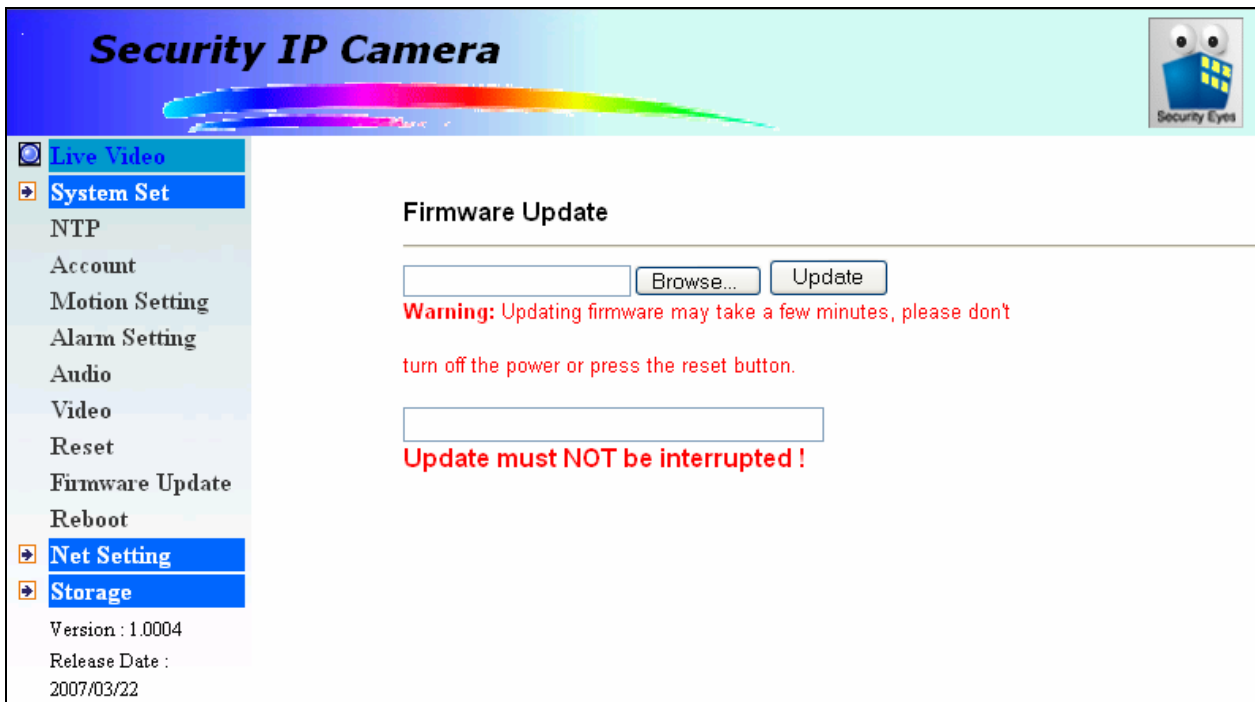
This setting's for users (Administrator) to reset the wrong or trouble settings. Users can reset All, Video/Audio, Motion, Storage, SMTP, FTP, NTP and Account settings. After reset, the selected settings will return to factory default values.



After reset, the IP camera default 1j4vup4settings needs to be rebooted for taking effect. The data stored in ALARM, PPPoE, LAN, WLAN, DDNS, Stream, Email, UPnP, USB and SD will not be deleted after reset process.

System Set page – Firmware Update

System Set ➤ Firmware Update



The screenshot shows the 'Security IP Camera' web interface. On the left is a navigation menu with options: Live Video, System Set (selected), NTP, Account, Motion Setting, Alarm Setting, Audio, Video, Reset, Firmware Update, Reboot, Net Setting, and Storage. Below the menu, it displays 'Version : 1.0004' and 'Release Date : 2007/03/22'. The main content area is titled 'Firmware Update' and contains a file input field, a 'Browse...' button, and an 'Update' button. A red warning message states: 'Warning: Updating firmware may take a few minutes, please don't turn off the power or press the reset button.' Below this is another empty input field and a red instruction: 'Update must NOT be interrupted!'.

This function's for users (Administrator) to update the firmware of IP Camera.


Update Procedures:

Step1. To get or download the new firmware from technical support, sales, retailer or website and save in local disk.

Step2. Login to IP camera, click **System Set** → **Firmware Update** → **Browse...**

Step3. Select the new firmware file

Step4. Click **Update** to start update process and wait for few minutes.

Step5.  **Update must NOT be interrupted !** You'll see the process bar moving from beginning to the end and then screen will become to BLANK when it finish the

update procedure.

Step6. Please download and install the Mpg4DecodeSetup files again. About this, please send request to technical support of Provideo Co., Ltd. We'll have more detail about the firmware update to maintain the product.

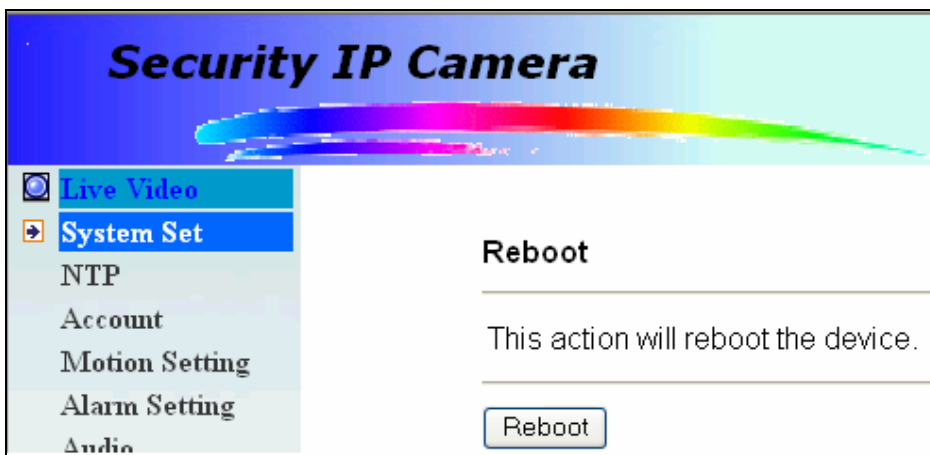
Step7. After above, please close ALL IE browser window and then re-launch it again to login to IP camera.

Step8. Please DO re-setup the settings and check the video display. If any question, please contact the sales or technical support for more help.


NOTE! : Updating firmware may cause some unexpected errors or damage the devices. Please request for more professional opinions and technical support before use this function.

System Set page – Reboot

System Set ➤ Reboot



This function's for users (Administrator) reboot the IP Camera.

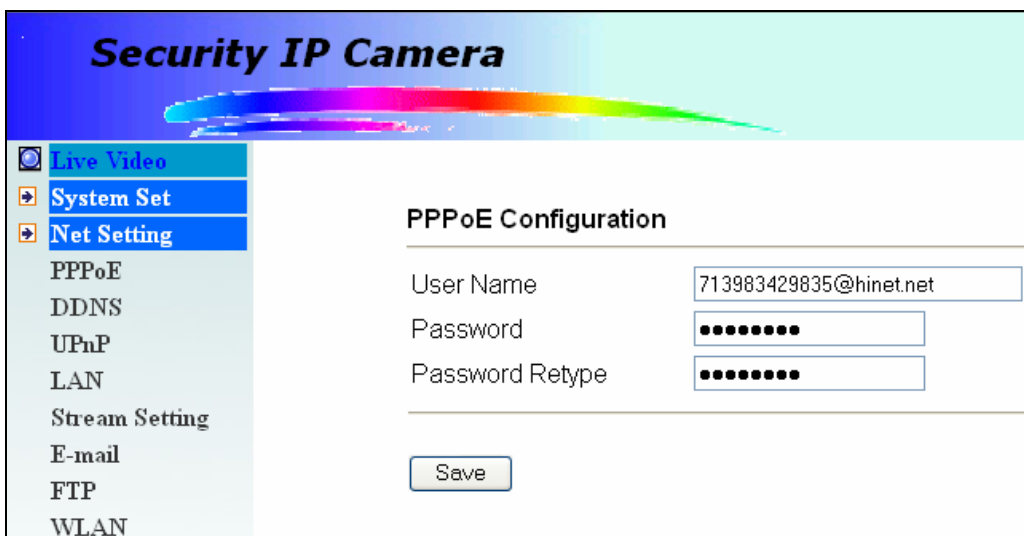
Just press the  button, then the IP camera will auto shut-down and initial again by itself. The time length of **Reboot** procedure will be about 30 seconds.

When to use:

- A. System upgrading, setup or reset errors.
- B. No video display at local (not at remote side).
- C. The device cannot connect to network (wire/wireless, PPPoE or DDNS fail).
- D. Abnormal IP camera working.
- E. Unstable IP camera working.
- F. Unexpected system crash.

Net Setting page – PPPoE

Net Setting ➤ **PPPoE**



The screenshot shows the 'Security IP Camera' web interface. On the left is a navigation menu with options: Live Video, System Set, Net Setting (selected), PPPoE, DDNS, UPnP, LAN, Stream Setting, E-mail, FTP, and WLAN. The main content area is titled 'PPPoE Configuration' and contains three input fields: 'User Name' with the value '713983429835@hinet.net', 'Password' with masked characters, and 'Password Retype' also with masked characters. A 'Save' button is located at the bottom of the configuration section.

This function's for users (Administrator) to setup PPPoE dial network.

Please input the PPPoE information (User Name and password) to:

User Name	<input type="text" value="713983429835@hinet.net"/>
Password	<input type="password" value="....."/>
Password Retype	<input type="password" value="....."/>


Click to save the settings as modified.

Please disconnect the power cable of the IP camera and then re-connect IP camera to PPPoE modem. The IP camera will connect to internet via PPPoE.

Net Setting page – DDNS

Net Setting ➤ **DDNS**

Security IP Camera



- ☒ Live Video
- ☐ System Set
- ☒ Net Setting
 - PPPoE
 - DDNS
 - UPnP
 - LAN
 - Stream Setting
 - E-mail
 - FTP
 - WLAN
 - IP Config

Dynamic DNS

Service Configuration

DDNS Service

Host Name

User Name

Password

This function's for users (Administrator) to setup DDNS.

What's DDNS?

Dynamic Domain Name Server : This function was used for dynamic IP users, especially for xDSL internet connection. If you want to build a surveillance server on internet but you have no physical IP address can be used for the server.

Now the IP camera can support the DDNS service of **DynDNS.org** and **3322.org**

Please register an account at either of these two websites and then you will get the DDNS service information.

Please input the DDNS service information:

Service Configuration	
DDNS Service	<input type="text" value="DynDNS.org"/>
Host Name	<input type="text"/>
User Name	<input type="text"/>
Password	<input type="text"/>

And then please enable **Dynamic DNS**

After above, please remember to press to save the settings and get it work.

Before DDNS work, please assure that your PPPoE function of IP camera can dial-up to internet without any problem.

Then please reboot IP camera and then wait it to initial the DDNS service.

If you want to see the video of the IP camera based on DDNS, just type the DDNS Host Name in address and it will be transferred to the current IP of IP camera's internet connection.

Net Setting page – WLAN

Net Setting



WLAN

Security IP Camera

Live Video

System Set

Net Setting

PPPoE

DDNS

UPnP

LAN

Stream Setting

E-mail

FTP

WLAN

IP Config

Storage

Wireless Network Settings

Mode

Infrastructure

Operation Mode

Auto

Channel

Auto

Wireless AP SSID

PVAP

Preamble Type

Long

Authendication

Open System

Encryption

64

WEP Key use

1

64bits WEP Key1

64bits WEP Key2

64bits WEP Key3

64bits WEP Key4

128bits WEP Key1

128bits WEP Key2

128bits WEP Key3

128bits WEP Key4

WPA Encryption

TKIP

WPA PSK

Save

The wireless of IP camera can be set to Infrastructure or Ad-Hoc mode of the basic transmission. We suggested to setup by MIS person will be better.


Wireless Transmission settings:

Mode	Infrastructure ▼
Operation Mode	Auto ▼
Channel	Auto ▼
Wireless AP SSID	PVAP
Preamble Type	Long ▼

Please select the correct wireless transmission of above settings. Please note that Wireless AP SSID was NOT the SSID of IP camera, this should be inputted the SSID of wireless AP or router, and then the IP camera will connect to the wireless AP or router as the SSID name key-in.

IP camera supported WEP or WPA encryption. Please select the authentication mode and input the key in below items. We DO NOT recommend to setup the wireless as Open System for security reasons.

Authendication	Open System ▼
Encryption	64 ▼
WEP Key use	1 ▼
64bits WEP Key1	
64bits WEP Key2	
64bits WEP Key3	
64bits WEP Key4	
128bits WEP Key1	
128bits WEP Key2	
128bits WEP Key3	
128bits WEP Key4	
WPA Encryption	TKIP ▼
WPA PSK	

After above, please remember to press  to save the settings.

Net Setting page – LAN

Net Setting  LAN

Security IP Camera

Live Video

System Set

Net Setting

PPPoE

DDNS

WLAN

LAN

Stream Setting

E-mail

FTP

UPnP

IP Config

Storage

LAN Settings

Wireless Interface

DHCP Client

OFF

IP Address

Subnet Mask

Gateway

Ethernet Interface

PPPOE

OFF

DHCP Client

OFF

IP Address

192.168.0.100

Subnet Mask

255.255.255.0

Gateway

192.168.0.1

DNS1

168.95.1.1

DNS2

168.95.192.1

HostName

PV605

Save

In LAN settings, users can setup the DHCP or IP information of Ethernet (Wire) or Wireless network connection. We recommended to setup this function by professional MIS people will be better an IP surveillance system.

Wireless:

DHCP Client	<input type="button" value="ON"/> ▼
IP Address	<input type="text"/>
Subnet Mask	<input type="text"/>
Gateway	<input type="text"/>

DHCP Client: Users can have a fix IP or DHCP for Wireless IP camera. Select ▼ to enable DHCP client and then the IP camera will get an IP from the router or server. If no, please turn it off ▼ and then input the information of IP Address, Subnet Mask and Gateway by yourself.


Ethernet: (Wired)

Ethernet Interface	
PPPOE	<input type="button" value="OFF"/> ▼
DHCP Client	<input type="button" value="OFF"/> ▼
IP Address	<input type="text" value="192.168.0.100"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Gateway	<input type="text" value="192.168.0.1"/>
DNS1	<input type="text" value="168.95.1.1"/>
DNS2	<input type="text" value="168.95.192.1"/>
HostName	<input type="text" value="PV605"/>


PPPoE: Users can setup PPPoE dial-up to internet. Select ▼ to enable PPPoE function, about the configuration, please refer to [PPPoE](#).

DHCP Client: Users can have a fix IP or DHCP for Wireless IP camera. Select ▼ to enable DHCP client and then the IP camera will get an IP from the router or server. If no, please turn it off ▼ and then input the


information of IP Address, Subnet Mask, Gateway, DNS and HostName by yourself.


After above, please remember to press  to save the settings and get it work.


Net Setting page – Streaming Setting


Net Setting  **Stream Setting**

Security IP Camera



 **Live Video**

 **System Set**

 **Net Setting**

PPPoE

DDNS

UPnP

LAN


Stream Setting

E-mail

FTP

WLAN

IP Config

 **Storage**

Version : 1.0

Stream Settings

Multicast Enable ☐ on ☒ off

Multicast IP


Multicast Port

RTSP Port

Control Port

Alarm Port

HTTP Port



In Stream Setting, users can setup the Multicast Server IP and define the network ports by themselves. We recommended to setup this function by professional MIS people will be better to build an IP surveillance system. Please check these settings if your network connection's behind a firewall, router or network filter.

Multicast:

Multicast Enable	<input type="radio"/> on <input checked="" type="radio"/> off
Multicast IP	<input type="text" value="234.5.6.11"/>
Multicast Port	<input type="text" value="6000"/>

The Multicast function's general using only for [Client Application](#) on **Intranet**. Using this can reduce the data flow while many remote clients created connections with IP camera in Intranet network at the same time.

Just need to assign a Multicast IP (range: 224.0.0.0 ~ 239.255.255.255) for IP camera using to do Multicast function. After that, the further connections from remote clients will link to the Multicast IP directly for receiving the video/audio. Therefore the data flow will be reduced between the IP camera and Multicast IP.

Ports:

RTSP Port	<input type="text" value="554"/>
Control Port	<input type="text" value="21"/>
Alarm Port	<input type="text" value="22"/>
HTTP Port	<input type="text" value="80"/>

These ports can be changed to the special network transmission policy if the IP cameras were built behind a firewall or router.

Please note that firewall or router may also be set for receiving input and output data to (or from) IP cameras from network.

After above, please remember to press to save the settings and get it work.

Net Setting page – Email

Net Setting ➤ E-mail

The screenshot shows the 'Security IP Camera' web interface. On the left is a navigation menu with options: Live Video, System Set, Net Setting (highlighted), PPPoE, DDNS, UPnP, LAN, Stream Setting, E-mail, FTP, WLAN, IP Config, and Storage. The main content area is titled 'E-mail Settings' and contains the following fields: SMTP Server (ServerIP), Recipient (RecipientInfo), Username (UserName), Password (masked with dots), and Authentication Method (PLAIN dropdown). A 'Save' button is located below these fields. The version 'Version : 1.0' is displayed at the bottom left.

E-mail Settings	
SMTP Server	<input type="text" value="ServerIP"/>
Recipient	<input type="text" value="RecipientInfo"/>
Username	<input type="text" value="UserName"/>
Password	<input type="password" value="....."/>
Authentication Method	<input type="text" value="PLAIN"/>

Version : 1.0

IP camera had the ability to send alarm or message out via Email. Therefore we have to setup a SMTP server for sending email out. **We strongly recommended to have a SMTP server which's not in SPAM blacklist or the users may not receive any email from IP camera.**

SMTP Server information:

SMTP Server	<input type="text" value="ServerIP"/>
Recipient	<input type="text" value="RecipientInfo"/>
Username	<input type="text" value="UserName"/>
Password	<input type="password" value="....."/>
Authentication Method	<input type="text" value="PLAIN"/>

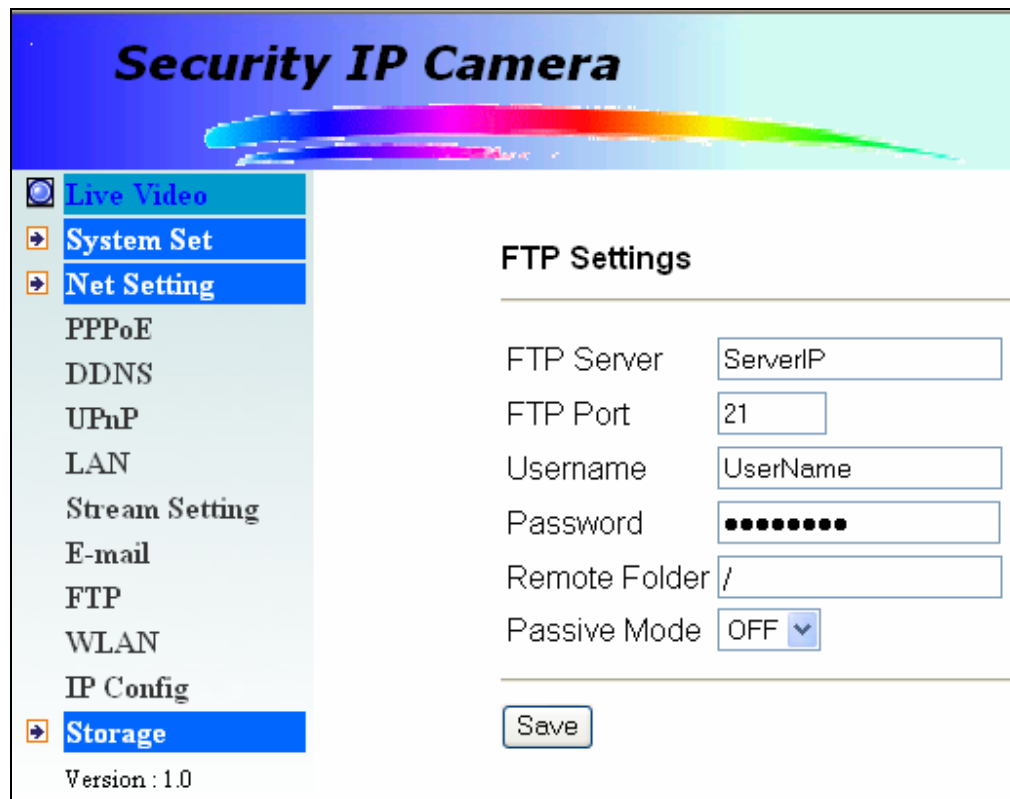
Please input the information of SMTP server and then choose the authentication mode

in

After above, please remember to press to save the settings and get it work.

Net Setting page – FTP

Net Setting  **FTP**



The screenshot shows the 'Security IP Camera' web interface. On the left is a navigation menu with options: Live Video, System Set, Net Setting (highlighted), PPPoE, DDNS, UPnP, LAN, Stream Setting, E-mail, FTP, WLAN, IP Config, and Storage. The main area is titled 'FTP Settings' and contains the following fields: FTP Server (ServerIP), FTP Port (21), Username (UserName), Password (masked with dots), Remote Folder (/), and Passive Mode (OFF with a dropdown arrow). A 'Save' button is located at the bottom of the settings area. The version 'Version : 1.0' is displayed at the bottom left of the interface.

IP camera had the ability to send alarm picture or video out to FTP server. Therefore we can setup a FTP server to save the files. Please follow below instruction to input the settings of FTP.

FTP Server information:

FTP Server	<input type="text" value="ServerIP"/>
FTP Port	<input type="text" value="21"/>
Username	<input type="text" value="UserName"/>
Password	<input type="password" value="....."/>
Remote Folder	<input type="text" value="/"/>
Passive Mode	<input type="button" value="OFF"/> ▼

Please input the information of FTP server.

After above, please remember to press to save the settings.

Net Setting page – UPnP

Net Setting ➞ UPnP

The screenshot shows the 'Net Setting' page of a 'Security IP Camera' interface. The title bar at the top is blue with the text 'Security IP Camera' and a rainbow-colored swoosh. On the left is a vertical menu with the following items: 'Live Video' (selected with a camera icon), 'System Set' (with a plus icon), 'Net Setting' (with a plus icon and highlighted in blue), 'PPPoE', 'DDNS', 'UPnP', 'LAN', 'Stream Setting', 'E-mail', 'FTP', 'WLAN', 'IP Config', 'Storage' (with a plus icon and highlighted in blue), and 'Version : 1.0' at the bottom. The main content area on the right is titled 'UPnP Services' and contains two radio buttons: 'On' (selected with a green dot) and 'Off' (with a blue dot). Below these is a 'Save' button.



This function's for users (Administrator) to setup UPnP.


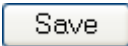
What's UPnP?

Universal Plug and Play : It allows peer-to-peer networking of PCs, networked appliances, and wireless devices. It is a distributed, open architecture based on TCP/IP, UDP and HTTP.

UPnP enables communication between any two devices under the command of any control device on the network (LAN).

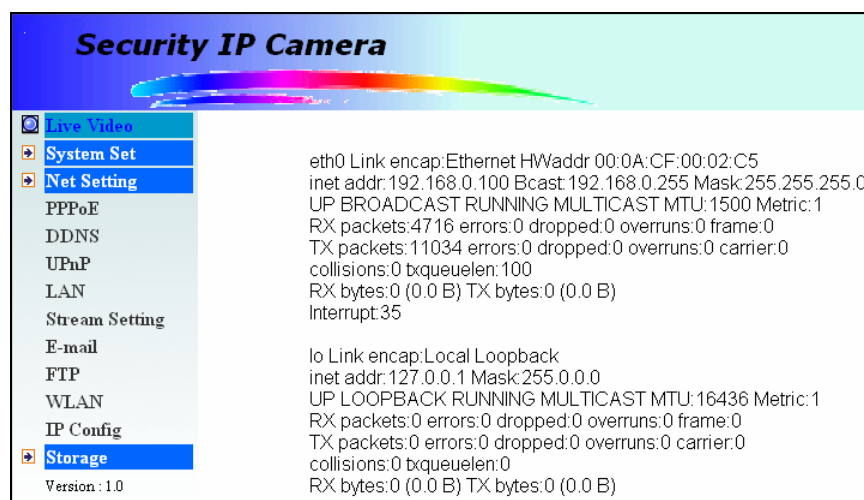
General speak, you'll easy to see the IP camera devices located in 『My Network Places』 in Windows™ operating system after enable this function.

Click  and then press  to enable this function.

Click  and then press  to disable this function.

Net Setting page – IP Config

Net Setting  **IP Config**



The screenshot shows the 'Security IP Camera' web interface. The left sidebar contains a menu with options: Live Video, System Set, Net Setting (selected), PPPoE, DDNS, UPnP, LAN, Stream Setting, E-mail, FTP, WLAN, IP Config, Storage, and Version: 1.0. The main content area displays network configuration details for two interfaces: eth0 and lo. The eth0 interface is an Ethernet card with IP address 192.168.0.100, broadcast address 192.168.0.255, and subnet mask 255.255.255.0. It shows statistics for RX and TX packets, errors, and drops. The lo interface is a local loopback with IP address 127.0.0.1 and subnet mask 255.0.0.0, also showing statistics.

Interface	Link encap	HWaddr	inet addr	Bcast	Mask	MTU	Metric	RX packets	RX errors	RX dropped	RX overruns	RX frame	TX packets	TX errors	TX dropped	TX overruns	TX carrier	collisions	txqueue	txlen
eth0	Ethernet	00:0A:CF:00:02:C5	192.168.0.100	192.168.0.255	255.255.255.0	1500	1	4716	0	0	0	0	11034	0	0	0	0	0	100	0
lo	Local Loopback		127.0.0.1		255.0.0.0	16436	1	0	0	0	0	0	0	0	0	0	0	0	0	0

Users can check the ALL network information in this setting. These information's for professional users to check the advanced values of network transmission.

Also general users can check some usual values as below introduction.

MAC Address:

eth0 Link encap:Ethernet HWaddr 00:0A:CF:00:02:C5

NOTE! : “eth0” means “Wire”, “eth1” mean “Wireless.

Network Packets of IP camera receiving or sending:

RX packets: 4716 errors:0 dropped:0 overruns:0 frame:0

TX packets: 11034 errors:0 dropped:0 overruns:0 carrier:0

About other detail, please send request to Technical Support for more available information.

Storage page – Storage Setting

Storage ➤ **Storage Setting**

Security IP Camera

Live Video

System Set

Net Setting

Storage

USB Disk

SD Card

Storage Setting

Manual Action Storage Path Settings

Remove SD

(If you want to remove SD card, please press this button first!)

Remove USB

(If you want to remove USB device, please press this button first!)

Manual SnapShot Picture ☐ SD ☐ USB ☒ OFF

Manual Record Video ☐ SD ☐ USB ☒ OFF

Record Time :

5 sec

Schedule Snapshot

Enable :

On

Interval :

10 min

Save

The storage settings're for users to **Remove** external SD or USB storage devices.

Also the Manual Snapshot and Record Video can be set in this setting.

Before remove SD or USB storage devices, please click

Remove SD

 or

Remove USB

 at first.

Manual SnapShot Picture and Record Video functions' setting:

Manual SnapShot Picture ☐ SD ☐ USB ☒ OFF

Manual Record Video ☐ SD ☐ USB ☒ OFF

Record Time :

5 sec

The Record Time length (for record video) can be set to 1 ~ 5 seconds.

Schedule Snapshot:

Schedule Snapshot	
Enable :	On ▼
Interval :	10 min ▼

Users also can setup the Schedule Snapshot in this setting. The IP camera will save the snapshot picture every a period of time as user setup to SD or USB storage devices.

NOTE! : If the SD or USB storage device's full, the IP camera cannot delete or recycle by itself. Thus please check the storage status anytime or after a period of time.

Chapter 4. Install Client Software

4.1 Foreword

Besides IE browser, we provided a Windows™ based application software in product CD for using to connect, view and control the IP cameras. Now the software supports to install on Windows™ XP/VISTA (32bits) operating system.

The software can connect maximum 16*IP cameras (servers) at the same time and record the video+audio into harddisk. About the detail of the software function, please refer to [Client Software Functions](#).

Configuration Environment of application software:

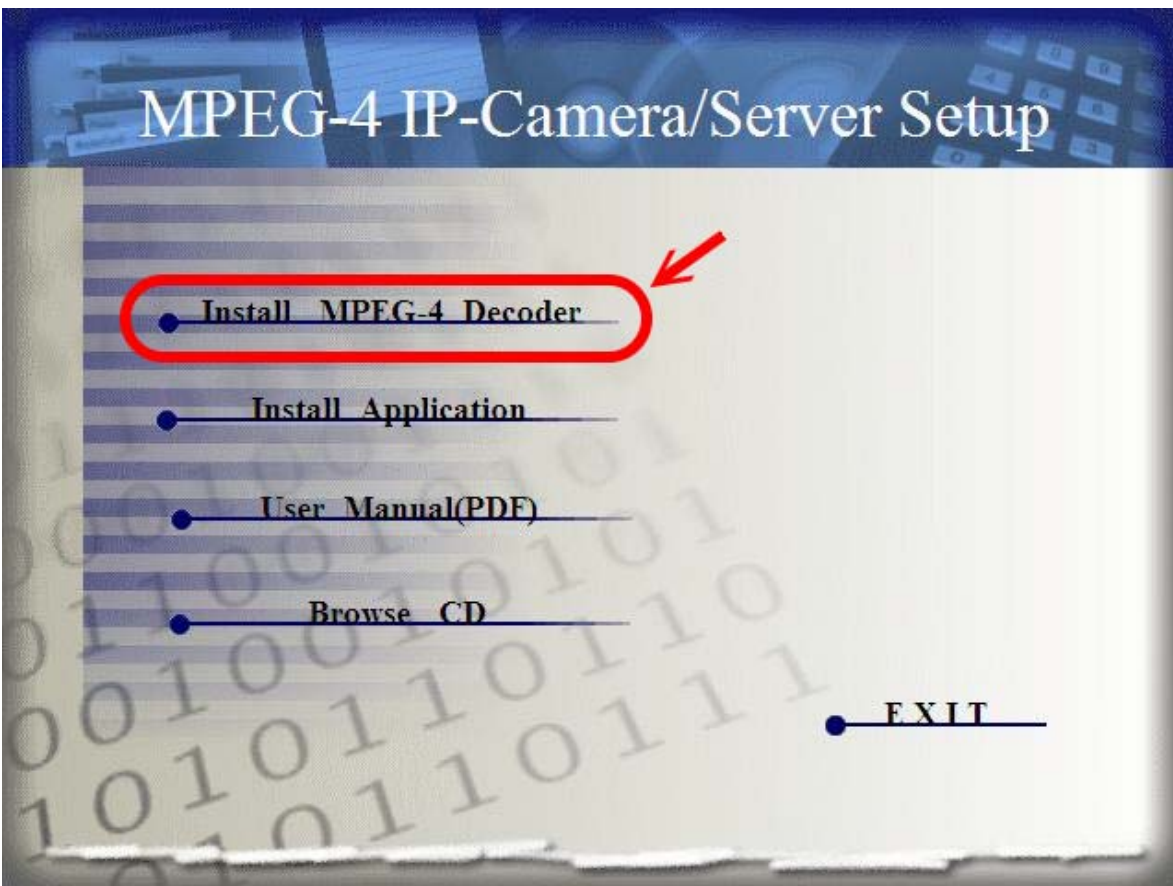
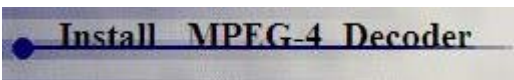
- CPU: Pentium IV, 1.8 GHz or above (for **single** IP camera)
- Memory Size: 512MB recommended
- VGA card resolution: 1024*768 (recommended: Support Overlay function VGA Card)
- OS: Windows™ XP SP1 and VISTA (32 bits)
- Other suggestion requirement: CD-ROM.

NOTE! : For example, if you try to connect total 4*IP cameras (servers), you'll need:
Intel Duo-Core™ 2.8Ghz CPU, 1GB ram and 128MB ram VGA card.

4.2 Installation Instruction

Note before install the Client software

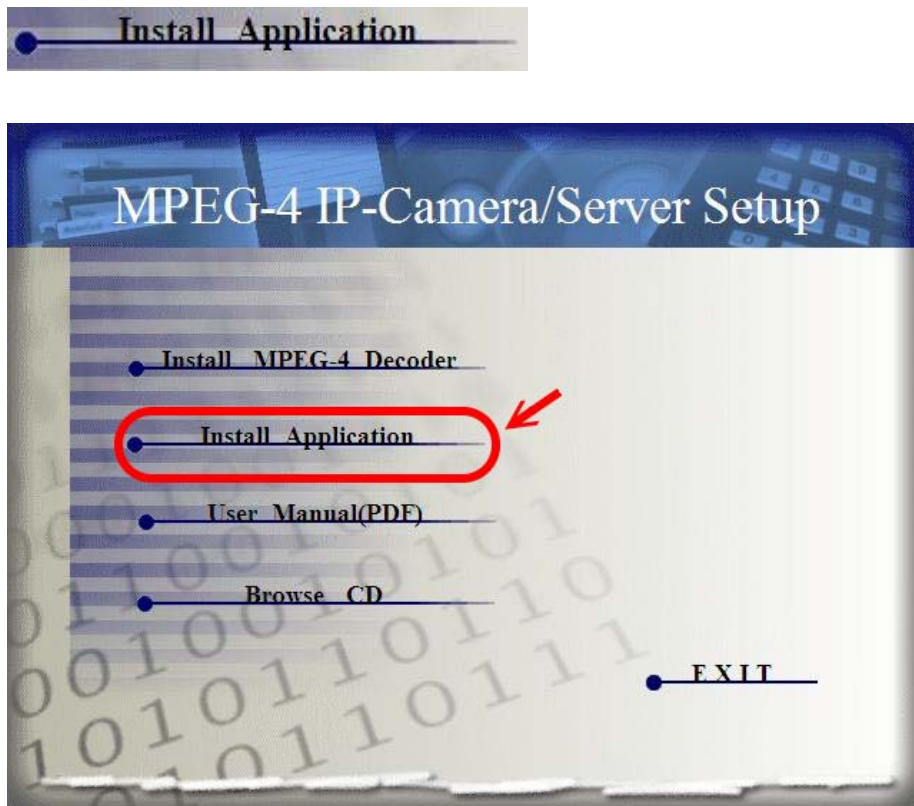
Before install the application software of IP camera, please make sure about if you already used IE browser to view or installed the Mpg4Decoder of IP camera. If not, please DO install the Mpg4Decoder from the Product CD as below picture before install this application software. Please click:



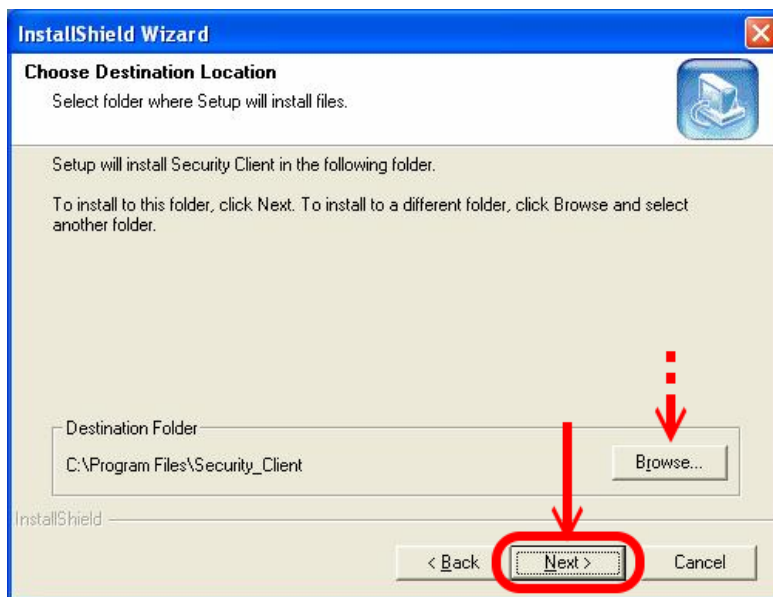
After clicking, it will auto install for few seconds and then it will auto finish.


Installation of Client software

Step 1. Put the Product CD into the CD-ROM (DVD-ROM) device of your PC. Then the Auto-Install menu of CD will pop on the screen. Please click

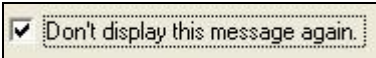



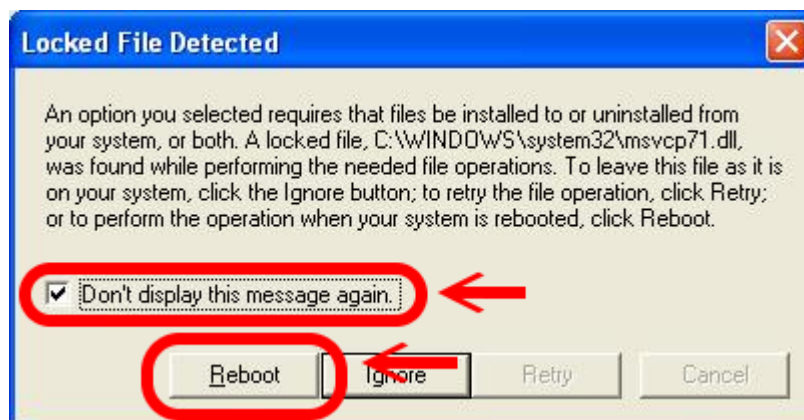
Step 2. Please click to continue installation or click to install to another folder.



Step 3. Please click  to continue the installation and wait for some time to install.





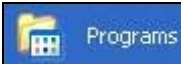

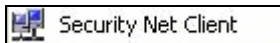
Step 4. If below message pop up on screen, please select  and then click  to continue the installation. If this message doesn't show on screen, just ignore this step.

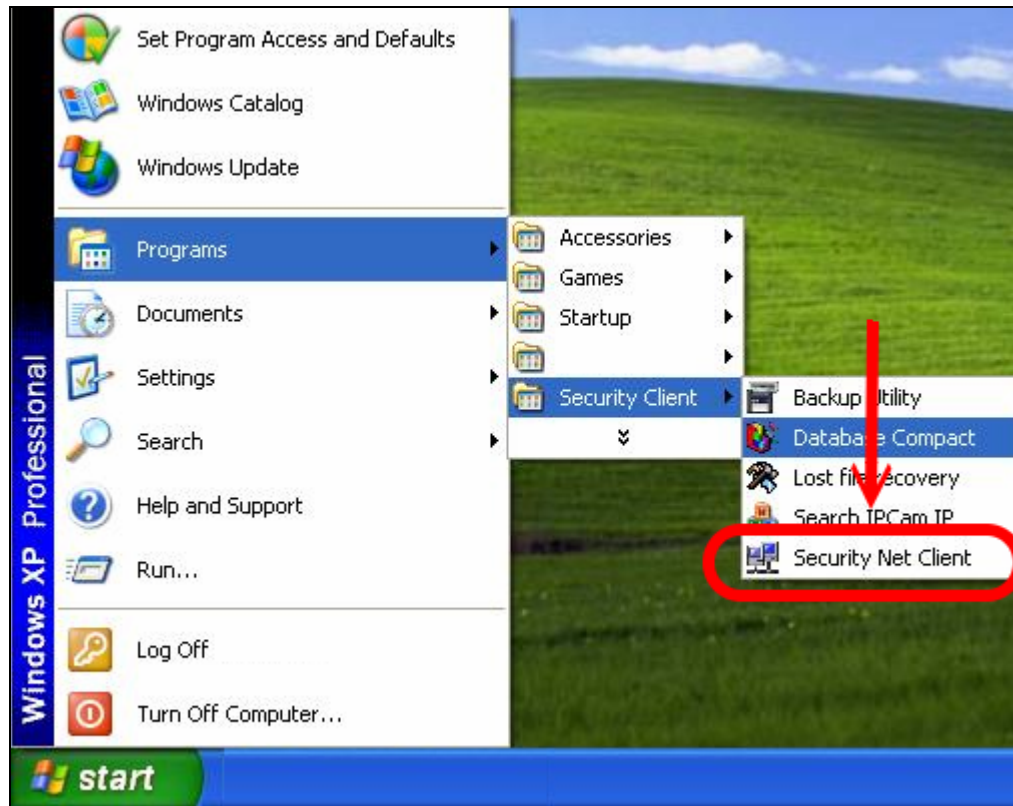


Step 5. After few time, the system will show below message to finish the installation.

Please select ☒ Yes, I want to restart my computer now. and then click to restart PC.



Step 6. After restart, please click  shortcut on desktop or select  →  Programs →  Security Client →  Security Net Client to launch the Client software.



About how to setup and use the client software, please refer to [Client Software Functions](#).

Chapter 5. Client Software Functions

5.1 Foreword

We designed the Client software based on Multi-view of the IP cameras, because users only can see single IP camera by using IE browser.





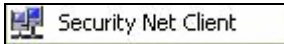
The PC based Client software of IP camera's very easy and convenient to use for setup a surveillance system. Just need to setup the configurations once and then users can connect to the IP cameras/servers anytime in the future.

Now we'll have a general introduction about the first time to setup and use it.




Note! : Before setup the Client software, please check if you know the IP of IP cameras.






If yes, just go ahead to see below instruction of setup the Client software. If not, please refer to [The first time to login and setup IP camera](#).





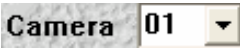





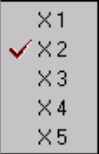
5.2 Brief Introduction of Client software interface




Please click  shortcut on desktop or select  →  →  →  to launch the Client software.



	<p>Quad Vision Modes:</p> <p>Select to display in 1, 4, 6, 8, 9, 10, 13, 16 quads view.</p>
	<p>Focused Camera Setting:</p> <p>Users can click the Camera Number to make it be the focused camera. Take  (6 Quads) for example, if you click camera number 9, the biggest preview window will be changed to Camera 9's view. Others will be Camera 10, 11, 12, 13 & 14. Please note that you cannot make random permutation.</p>

	<p>Status Window:</p> <p>It will only show the data and time if no connection. After connected with server, it will show the Server, IP and CH number.</p>
	<p>Connect Server:</p> <p>Click to get connection with IP cameras which have already been set in settings.</p>
	<p>System Setting:</p> <p>Click to setup the Client software system settings, please refer to System Settings of Client.</p> <p>Event Report:</p> <p>Click to display the log report, please refer to Event Report.</p> <p>Remote Schedule Setting:</p> <p>Click to display the remote schedule settings, please refer to Remote Schedule Setting.</p>
	<p>Record:</p> <p>Click to record the video/audio from IP cameras via network transmission. Please note have to press  to enable recording function.</p>

	<p>Connect Server Setting:</p> <p>Click to setup about how to connect with IP cameras, please refer to Connect Server Setting.</p>
	<p>Switch Channel:</p> <p>Click to enable auto-switch channel.</p>
	<p>Playback:</p> <p>Click to start Local Playback. Please refer to Playback of Client software.</p>
	<p>Remote PTZ Control:</p> <p>Please select the PTZ mode at first according to your used PTZ. Now we support several kinds of PTZ, they are PIH-7000/7600, PELCO D, NICECAM MP-1800, CANNO VC-C4 and FASTRAK II.</p> <p>  → After PTZ settings, please select the correct camera number related to the PTZ. </p> <p> : Move up : Move down : Left : Right </p> <p>Click  to adjust the speed of Auto-Patrol of the PTZ</p> <p>as the picture .</p>

	<p>Zoom In Zoom Out: For users to control PTZ to Zoom-In or Zoom-Out.</p> <p>Focus Far Focus Near: For users to control PTZ to Focus-Far or Focus-Near.</p> <p>+ Diaphragm - Diaphragm: For users to adjust Diaphragm more or less.</p> <p>Auto-Focus: To Auto-Focus the PTZ camera.</p> <p>Auto-Cruise: To Auto-Cruise the location of PTZ.</p>
	<p>Snapshot: Click to have a snapshot of the video and then you can save to disk or any storage device on PC.</p>
	<p>Remote Talk:</p> <p>Click to send voice to IP camera's speaker which been selected in list via microphone of PC sound card. Please install a microphone on Client PC and make sure it can work well. Please note that user will hear the voice from IP camera automatically if you enable this function.</p>
	<p>Remote Speaker:</p> <p>Click to receive the remote sound of the channel from IP camera which been selected in list via network transmission.</p>

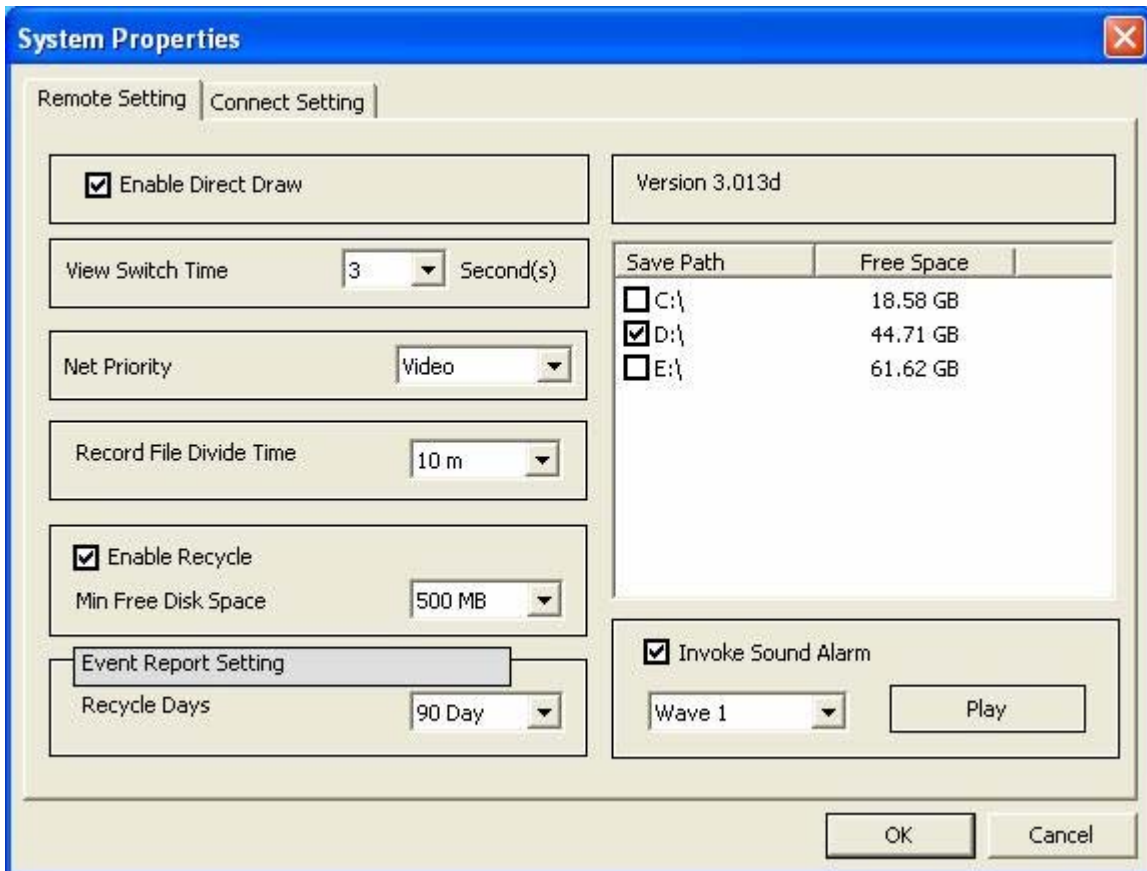
5.3 Advanced Introduction of Client software functions

System Settings of Client

Press “System Setting” button will prompt three options for choosing.

System Setting
Event Report
Remote Schedule Setting

System Setting ➤ Remote Setting:

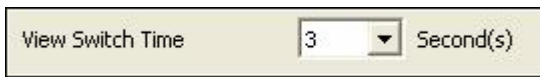


Save Path	Free Space
<input type="checkbox"/> C:\	18.58 GB
<input checked="" type="checkbox"/> D:\	44.71 GB
<input type="checkbox"/> E:\	61.62 GB


<input checked="" type="checkbox"/> Enable Direct Draw
--


Check the box to enable Direct Draw display if

VGA card and driver supported this function.



View Switch Time 3 Second(s)

This setting's related with , to set the time of camera switching from 1 to 10 seconds.



Net Priority Video

To set the priority of VIDEO or AUDIO for network transmission.



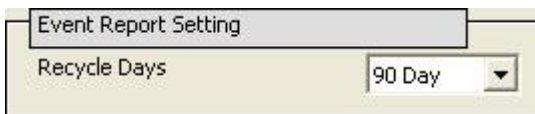
Record File Divide Time 10 m

To set the length of each recording file from 1 minute to 60 minutes.



☒ Enable Recycle
Min Free Disk Space 1300 MB

To set the Recycle recording and the minimum free space for stabled working system. Please set this to 500MB at least.



Event Report Setting
Recycle Days 90 Day

To set the recycle days of EVENT reports.



Save Path	Free Space
<input type="checkbox"/> C:\	1.0 GB
<input checked="" type="checkbox"/> D:\	52.22 GB
<input type="checkbox"/> E:\	61.75 GB

Storage List: To check the box of disk which can be the storage of recording.

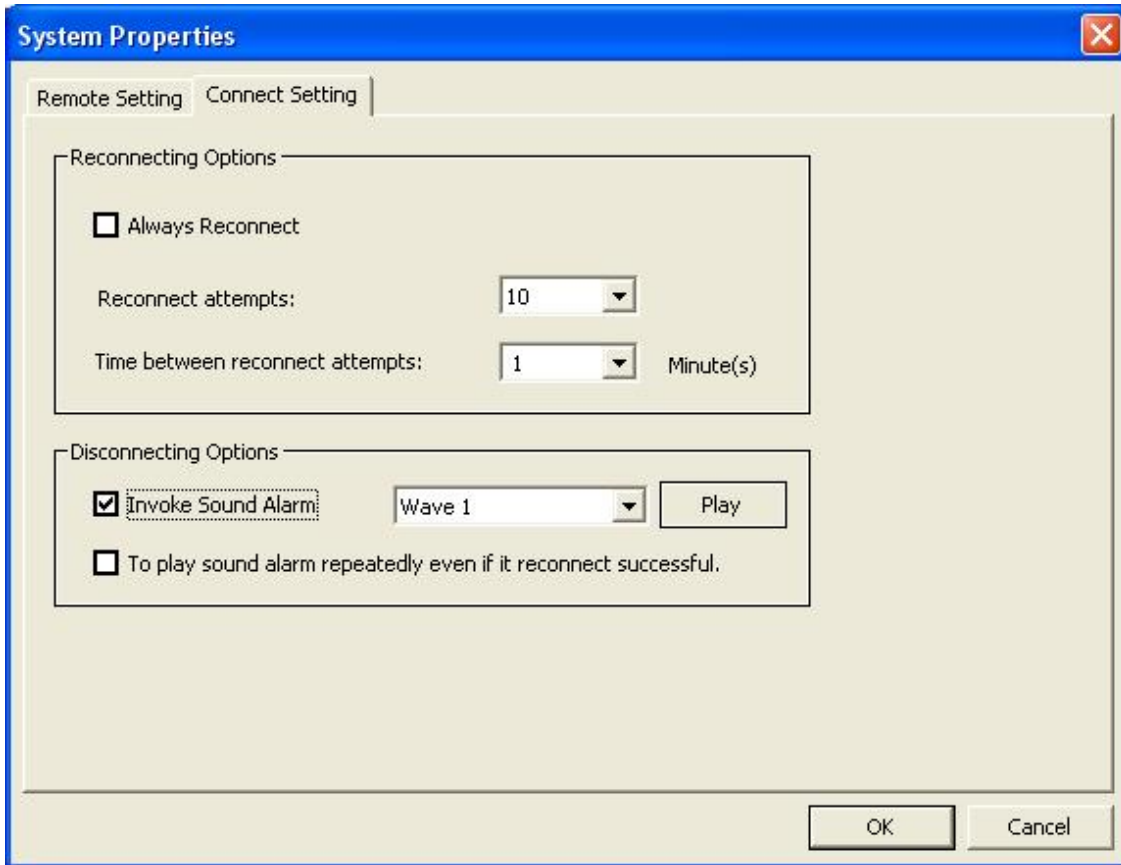


☒ Invoke Sound Alarm
Wave 1 Play

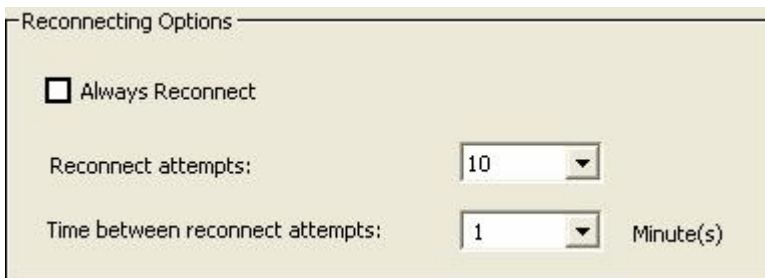
To enable the Sound Alarm of receiving IP Camera's motion detect or IO sensor events.

After all settings, please press  to apply and then just working.

System Setting ➤ Connect Setting:

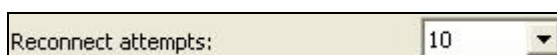


Reconnecting Options:



This function is to reconnect with Main (Server) when the network connection's bad or disconnected. Check the box of ☐ Always Reconnect to enable this function (this will ignore the "Reconnect Attempts" setting, the program will re-connect continuously).

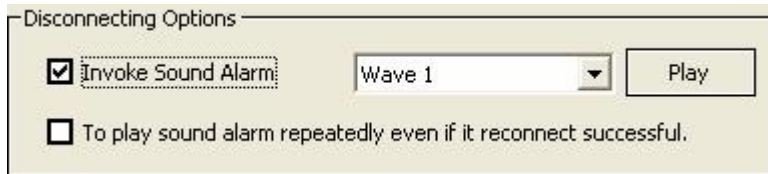
To set the frequency of reconnection attempting in



and then set the interval time between the

attempts in Time between reconnect attempts: 1 Minute(s). Please click OK to apply above settings.

Disconnecting Options

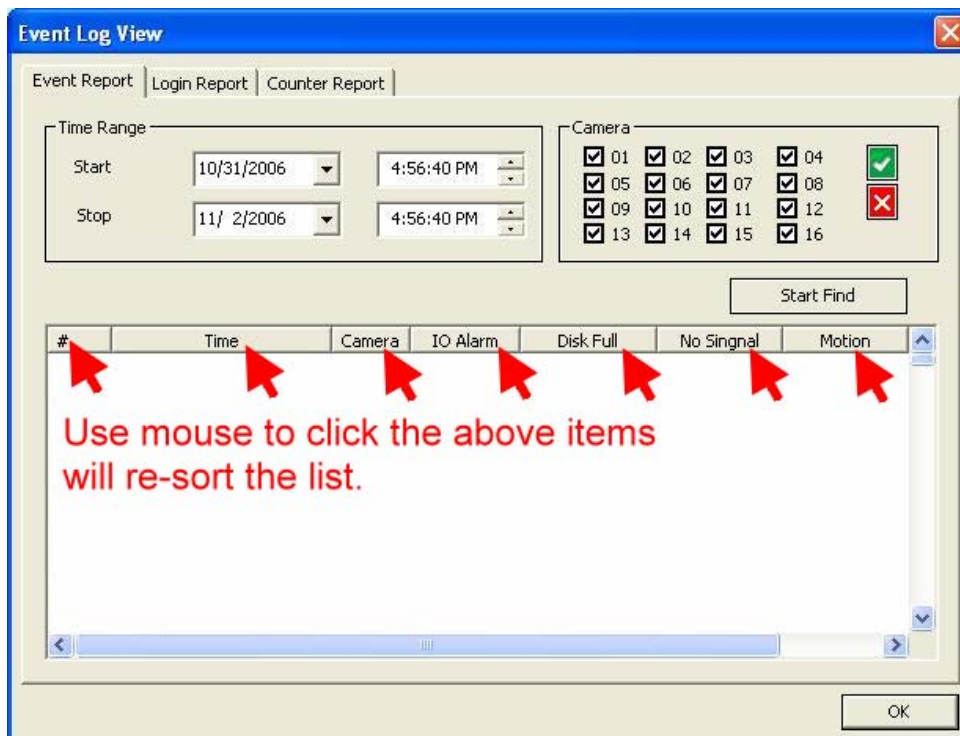


The 'Disconnecting Options' dialog box contains the following elements:

- A checked checkbox labeled 'Invoke Sound Alarm'.
- A dropdown menu currently showing 'Wave 1'.
- A 'Play' button.
- An unchecked checkbox with the text 'To play sound alarm repeatedly even if it reconnect successful.'

This function is to send alarm out when the network's disconnected. Check the box of Invoke Sound Alarm Wave 1 Play to enable sound alarm for disconnection. And then please click OK to apply above settings.

System Setting ➤ Event Report:



The 'Event Log View' window features the following components:

- Navigation tabs: 'Event Report' (selected), 'Login Report', and 'Counter Report'.
- 'Time Range' section with 'Start' and 'Stop' date/time pickers.
- 'Camera' section with a 4x4 grid of checkboxes for cameras 01 through 16. A green checkmark icon is next to the top row, and a red X icon is next to the bottom row.
- A 'Start Find' button.
- A table header with columns: '#', 'Time', 'Camera', 'IO Alarm', 'Disk Full', 'No Signal', and 'Motion'. Red arrows point to each of these headers.
- Red text overlay: 'Use mouse to click the above items will re-sort the list.'
- An 'OK' button at the bottom right.

<Event Report>

Time Range

Start 10/31/2006 4:56:40 PM

Stop 11/ 2/2006 4:56:40 PM

Firstly please select the time of event log searching.

Camera

<input checked="" type="checkbox"/> 01	<input checked="" type="checkbox"/> 02	<input checked="" type="checkbox"/> 03	<input checked="" type="checkbox"/> 04	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> 05	<input checked="" type="checkbox"/> 06	<input checked="" type="checkbox"/> 07	<input checked="" type="checkbox"/> 08	
<input checked="" type="checkbox"/> 09	<input checked="" type="checkbox"/> 10	<input checked="" type="checkbox"/> 11	<input checked="" type="checkbox"/> 12	
<input checked="" type="checkbox"/> 13	<input checked="" type="checkbox"/> 14	<input checked="" type="checkbox"/> 15	<input checked="" type="checkbox"/> 16	

☒ ☐

And then please select the cameras for event log searching. Click ☒ to select all and click ☐ to un-select all.

Finally please press to search the event log in system, please wait for some time. After few time, it will show up the events on list window as below.

#	Time	Camera	IO Alarm	Disk Full	No Singnal	Motion
14811	2006/10/31 17:15:32	13	0	0	None	1
14812	2006/10/31 17:15:33	8	0	0	None	1
14813	2006/10/31 17:15:33	1	0	0	None	1
14814	2006/10/31 17:15:33	15	0	0	None	1
14815	2006/10/31 17:15:33	16	0	0	None	1
14816	2006/10/31 17:15:33	9	0	0	None	1

<Login Report>

Time Range

Start 10/31/2006 4:56:40 PM

Stop 11/ 2/2006 4:56:40 PM

Firstly please select the time of login log searching.

And then please press to search the login log in system, please wait for some time. After few time, it will show up the login logs on list window as below.

#	Type	Name	Login Time	Logout Time	Error
9	LOCAL	1111	2006/10/31 15:39:53	2006/10/31 16:47:20	No
10	LOCAL	1111	2006/10/31 16:48:31	Not Logout	No
11	REMOTE	1111	2006/10/31 17:22:27	Not Logout	No
12	REMOTE	1111	2006/10/31 17:22:27	Not Logout	No
13	REMOTE	1111	2006/10/31 17:22:27	Not Logout	No
14	REMOTE	1111	2006/10/31 17:22:27	Not Logout	No

System Setting ➤ Remote Schedule Setting:

Click to enter Remote Schedule setting window as below.

Remote Schedule Setting

Time
 Start: 2:05:08 PM
 Stop: 2:10:08 PM

Start Setting
☐ Record(S0)
☐ Motion Detect(S2)

Camera
☒ 01 ☐ 02 ☐ 03 ☐ 04
☐ 05 ☐ 06 ☐ 07 ☐ 08
☐ 09 ☐ 10 ☐ 11 ☐ 12
☐ 13 ☐ 14 ☐ 15 ☐ 16

General Date
☐ SUN ☐ MON ☐ TUES ☐ WED ☐ THUR ☐ FRI ☐ SAT

Data Modify Delete Data Add New Data

#	Date	Time	Start Setting	Camera
00	SUN MON TUES WED THUR FRI SAT	06:45:00 ~ 07:30:28	S0 S2	CH01 CH02 CH03 CH04
01	SUN MON TUES WED THUR FRI SAT	07:45:00 ~ 09:30:28	S0	CH01 CH02 CH03 CH04
02	SUN MON TUES WED THUR FRI SAT	09:45:00 ~ 11:30:28	S0 S2	CH01 CH02 CH03 CH04
03	SUN MON TUES WED THUR FRI SAT	11:45:00 ~ 13:30:28	S0	CH01 CH02 CH03 CH04
04	SUN MON TUES WED THUR FRI SAT	13:45:00 ~ 15:30:28	S0 S2	CH01 CH02 CH03 CH04
05	SUN MON TUES WED THUR FRI SAT	15:45:00 ~ 17:30:28	S0	CH01 CH02 CH03 CH04
06	SUN MON TUES WED THUR FRI SAT	17:45:00 ~ 19:30:28	S0 S2	CH01 CH02 CH03 CH04
07	SUN MON TUES WED THUR FRI SAT	19:45:00 ~ 20:30:28	S0	CH01 CH02 CH03 CH04
08	SUN MON TUES WED THUR FRI SAT	20:45:00 ~ 23:30:28	S0 S2	CH01 CH02 CH03 CH04

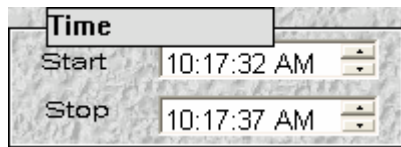
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

OK

Note!: Please enable “Schedule Server” in Start Set of System Setting once you Add New Data in schedule.

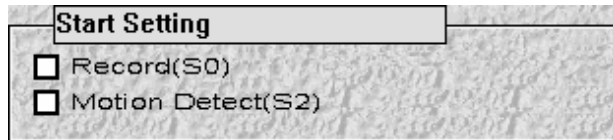
If you have disabled any camera, it will be grayed at Camera part.

A.  : Schedule in WEEKDAY mode [default mode].



A window titled "Time" with two time selection fields. The "Start" field shows "10:17:32 AM" and the "Stop" field shows "10:17:37 AM". Both fields have up and down arrows for adjustment.

: For users to set a period of time in schedule.

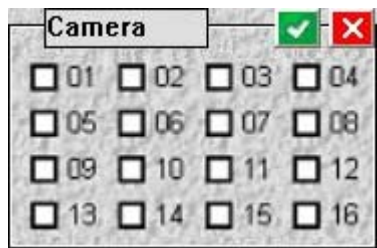


A window titled "Start Setting" with two checkboxes. The first checkbox is labeled "Record(S0)" and the second is labeled "Motion Detect(S2)". Both checkboxes are currently unchecked.

: User can set the events to be started in the
schedule.

Record(S0) : Full Time recording when schedule starts working.

Motion Detect(S2) : Motion Detect Type of Recording when schedule starts
working.



A window titled "Camera" with a green checkmark icon and a red X icon at the top right. Below the icons is a grid of 16 checkboxes, numbered 01 through 16, arranged in four rows and four columns.

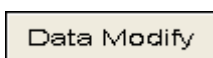
: To set 1 or more cameras to record when schedule starts.

Click  to select all cameras, click  to un-select all.



A window titled "General Date" with seven checkboxes representing the days of the week: MON, TUES, WED, THUR, FRI, SAT, and SUN. All checkboxes are currently unchecked.


: To set 1 or more days in a week to start schedule.




A button labeled "Data Modify".

: Click to modify the setting as marked in list, and check the Start and


Stop time carefully to make sure the setting is matched with the schedule. After modifying, press it again to make the changed schedule record in working list.

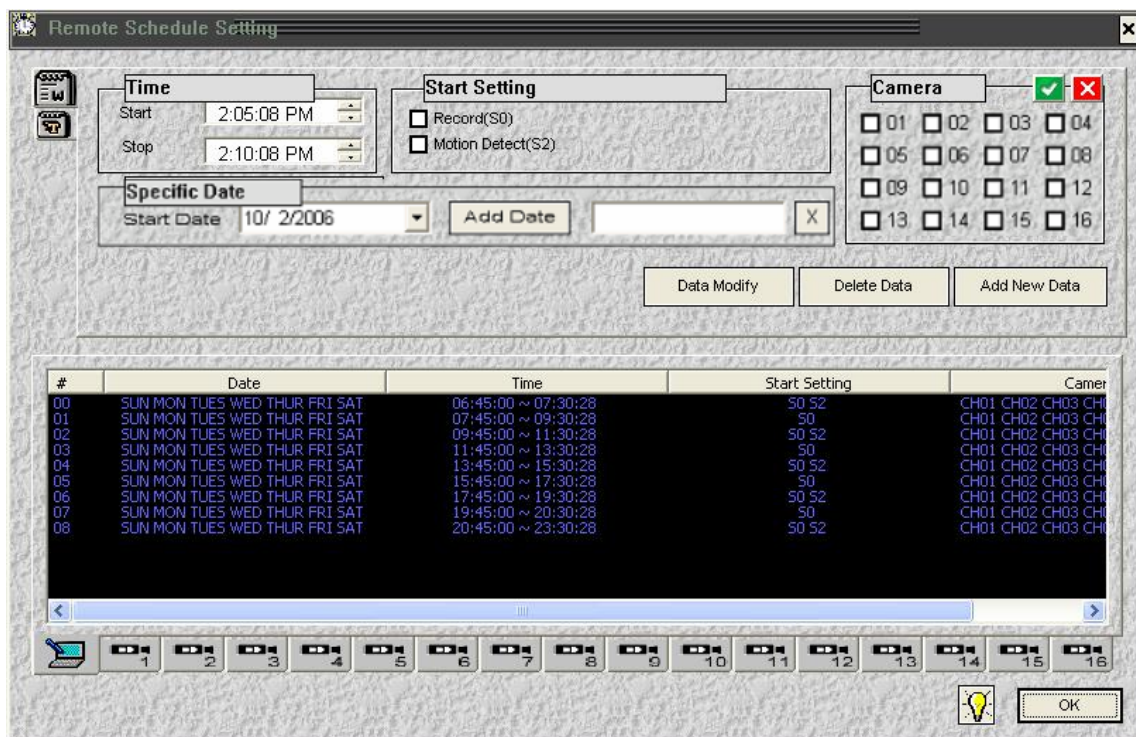
 : Click to delete the setting as marked in list

 : Click to add new settings into list. **If you click this button, the settings of new schedule record will be added in working list.**

If you want to do full time recording, please enable Record(S0), disable Motion Detect(S2).

If you want to record by motion detect, please enable Record(S0) and Motion Detect(S2).

B.  : Schedule settings in SPECIFIC DATES mode.



The screenshot shows the 'Remote Schedule Setting' window. It has a top section with controls for 'Time' (Start: 2:05:08 PM, Stop: 2:10:08 PM), 'Start Setting' (Record(S0) and Motion Detect(S2) checkboxes), and 'Camera' (a 4x4 grid of checkboxes 01-16, with 01 checked). Below these is a 'Specific Date' section with a 'Start Date' dropdown set to '10/ 2/2006' and an 'Add Date' button. At the bottom of the top section are 'Data Modify', 'Delete Data', and 'Add New Data' buttons. The main area is a table with 5 columns: '#', 'Date', 'Time', 'Start Setting', and 'Camer'. It contains 9 rows of schedule data. At the very bottom is a row of 16 camera icons numbered 1 to 16, and an 'OK' button.

#	Date	Time	Start Setting	Camer
00	SUN MON TUES WED THUR FRI SAT	06:45:00 ~ 07:30:28	S0 S2	CH01 CH02 CH03 CH
01	SUN MON TUES WED THUR FRI SAT	07:45:00 ~ 09:30:28	S0	CH01 CH02 CH03 CH
02	SUN MON TUES WED THUR FRI SAT	09:45:00 ~ 11:30:28	S0 S2	CH01 CH02 CH03 CH
03	SUN MON TUES WED THUR FRI SAT	11:45:00 ~ 13:30:28	S0	CH01 CH02 CH03 CH
04	SUN MON TUES WED THUR FRI SAT	13:45:00 ~ 15:30:28	S0 S2	CH01 CH02 CH03 CH
05	SUN MON TUES WED THUR FRI SAT	15:45:00 ~ 17:30:28	S0	CH01 CH02 CH03 CH
06	SUN MON TUES WED THUR FRI SAT	17:45:00 ~ 19:30:28	S0 S2	CH01 CH02 CH03 CH
07	SUN MON TUES WED THUR FRI SAT	19:45:00 ~ 20:30:28	S0	CH01 CH02 CH03 CH
08	SUN MON TUES WED THUR FRI SAT	20:45:00 ~ 23:30:28	S0 S2	CH01 CH02 CH03 CH

The 'Time' window contains two time pickers. The 'Start' picker is set to 10:17:32 AM and the 'Stop' picker is set to 10:17:37 AM. Both pickers have up and down arrows for adjustment.

: For users to set a period of time in schedule.

The 'Start Setting' window has two checkboxes. The first is labeled 'Record(S0)' and the second is labeled 'Motion Detect(S2)'. Both are currently unchecked.

: User can set the events to be started in the schedule.

Record(S0) : Full Time recording when schedule starts working.



Motion Detect(S2) : Motion Detect Type of Recording when schedule starts working.

The 'Camera' window features a 4x4 grid of checkboxes numbered 01 through 16. Above the grid are two status icons: a green checkmark and a red 'X'.

: To set 1 or more cameras to record when schedule starts.

Click  to select all cameras, click  to un-select all.

The 'Specific Date' window includes a 'Start Date' field showing 10/20/2005 with a dropdown arrow. To its right is an 'Add Date' button, followed by an empty text input field, and finally a button with an 'X' icon for deletion.

: At first, please select a day and then click  to add the date into list. Click  will delete the date which added in list.

Data Modify

: Click to modify the setting as marked in list. and check the Start and Stop time carefully to make sure the setting is matched with the schedule. After modifying, press it again to make the changed schedule record in working list.

Delete Data

: Click to delete the setting as marked in list

Add New Data

: Click to add new settings into list. **If you click this button, the settings of new schedule record will be added in working list.**

If you want to do full time recording, please enable Record(S0), disable Motion Detect(S2).

If you want to record by motion detect, please enable Record(S0) and Motion Detect(S2).



[] Connect Server Setting of Client

Connect Server Setting

Connect Server Properties

Connect Server Setting | Edit Server Parameter

☐ Single Server ☒ Multi-Server

CH	Server Name	Stream	Connect Type	Decode type	Network Protocol	Motion	IO	
01	LiveDemo	01	Video&Audio	MP4	TCP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SET
02	LiveDemo	01	Only Video	MP4	UDP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SET
03	LiveDemo	01	Disable	MP4	Multicast	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SET
04	LiveDemo	01	Disable	MP4	UDP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SET
05	LiveDemo	01	Disable	MP4	UDP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SET
06	LiveDemo	01	Disable	MP4	UDP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SET
07	LiveDemo	01	Disable	MP4	UDP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SET
08	LiveDemo	01	Disable	MP4	UDP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SET
09	LiveDemo	01	Disable	MP4	UDP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SET
10	LiveDemo	01	Disable	MP4	UDP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SET
11	LiveDemo	01	Disable	MP4	UDP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SET
12	LiveDemo	01	Disable	MP4	UDP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SET
13	LiveDemo	01	Disable	MP4	UDP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SET
14	LiveDemo	01	Disable	MP4	UDP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SET
15	LiveDemo	01	Disable	MP4	UDP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SET
16	LiveDemo	01	Disable	MP4	UDP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SET

OK Cancel

Click ☐ Single Server will allow Client to connect ONE IP camera only.

Click ☒ Multi-Server will allow Client to connect maximum 16x IP cameras at the same time.

CH	Server Name
01	LiveDemo
02	LiveDemo

Server Name: Under Single Server mode, only can select one server.

Under Multi-Server mode, you can select maximum 16x servers for 16 channels to display & monitor.



The 'Stream' panel contains two dropdown menus, both of which are currently set to '01'.

Stream: IP camera supports dual-streaming, so you can select to receive stream 1 or stream 2 of video network transmission.



The 'Connect Type' panel features two dropdown menus. The top menu is set to 'Video&Audio' and the bottom menu is set to 'Only Video'.

Connect Type: Select one connection type between the “Only Video”, “Video&Audio” and “Disable” settings.



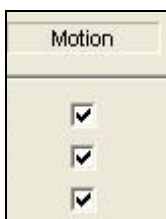
The 'Decode type' panel has two dropdown menus, both of which are currently set to 'MP4'.

Decode Type: If you select stream 1 in above setting, only can have MP4 (Mpeg-4) for decoding to client. If select stream 2, you can choose MP4 or M-JPEG for decoding to client software.



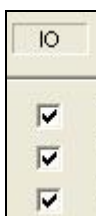
The 'Network Protocol' panel contains three dropdown menus. The top menu is set to 'TCP', the middle menu is set to 'UDP', and the bottom menu is set to 'Multicast'.

Network Protocol: Select the protocol of network (TCP, UDP or Multicast) according to your network environment.



The 'Motion' panel includes three checkboxes, all of which are checked.

Motion: Select to Motion Detect Recording in client software settings.

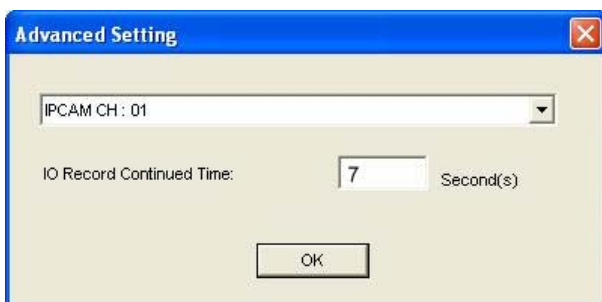


The 'IO' panel features three checkboxes, all of which are checked.

IO: Select to IO Detect Recording in client software settings.

NOTE! : If the Motion and IO were not enabled, then the software will record continuously.

SET SET (for IO only): Click will prompt a setting window as below:



Please input the Record Time Length (from 7 ~ 60 seconds) of IO detection at IP camera number. Press **OK** to save the settings.



[] Connect Server Setting of Client

Edit Server Parameter

Connect Server Properties

Connect Server Setting Edit Server Parameter

Edit Server

IP Address	Server Name	Login Name	Command P...	Data P
192.168.0.100	LiveDemo	admin	7000	7000

Server Name: LiveDemo Quality: Auto

IP Address: 192.168.0.100 Find LAN IP

User Name: admin Command Port: 7000

Password: ***** Data Port(RTSP): 7000

Check Password: ***** Alarm Port: 0

Server category: IPCAM

Add Delete Modify

OK Cancel

Input the Server Name into

Server Name

Select the quality Quality Auto between Auto, Low or High quality.

Then input the IP address of server into

IP Address

User Name

Password

Check Password

Input the User Name and Password and then you can

change the transmission port of network

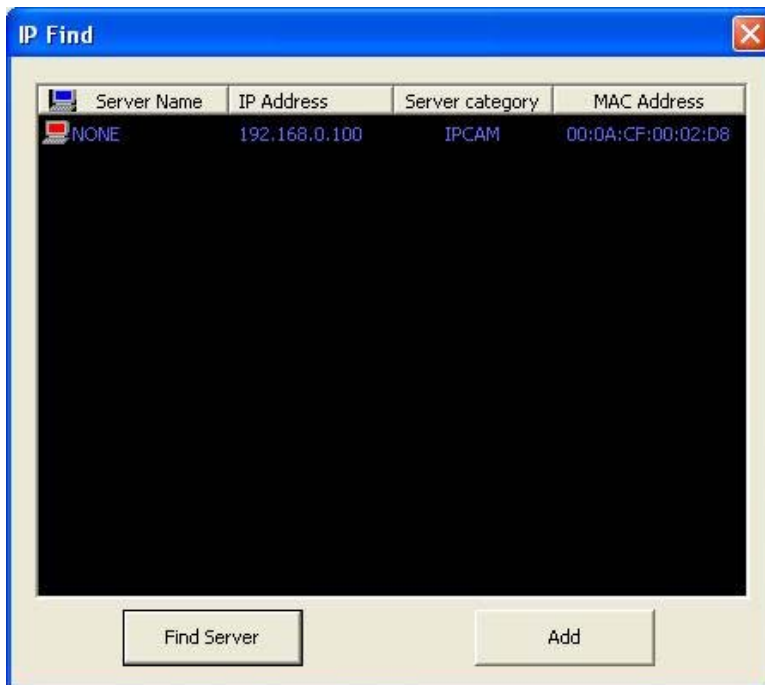
Data Port(RTSP) 7000

We suggested to keep default as the first time using.

Click to add into list, click to delete from list, click to modify the data which already been in list.

If you don't know the IP address of IP camera in Intranet, you can use a tool to search the IP cameras.

Click will start to search the SecurityEyes Main servers in LAN as below. Click to auto-search the SecurityEyes Main server under LAN network. The result will show on list as below.

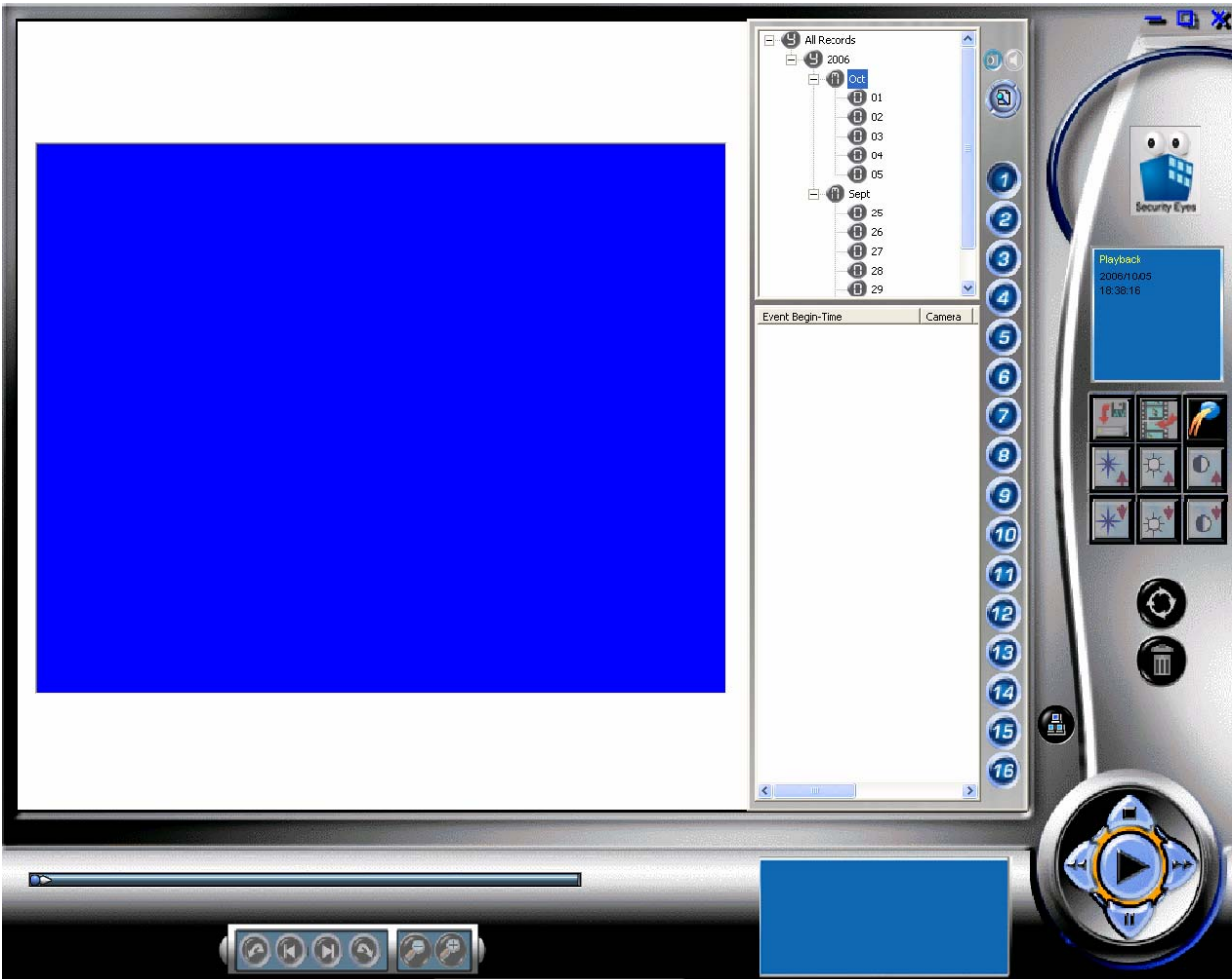


Just use mouse to select one server and then click will add into the server list and then modify the settings.


Playback of Client software

The playback of Client can do Local Playback function, please see below instruction to use it.

Local Playback of Client



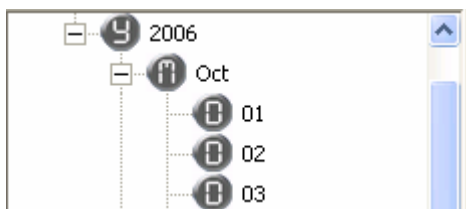
NOTE! : All the files and database only can be deleted in Playback program. Please DO NOT delete or remove the files or database in Windows File Explorer or other ways. The database may be damaged and cannot be fixed.



NOTE! : This program supports SINGLE and MULTI playback, please press  button to change the playback mode between them.


[] Single Playback

The first time to playback, we suggested to learn how to search the file as you want.







Firstly we have to select the date included the recorded files. You can check the date list as below, please select the month and day items.






Click  to show the files list which only included VIDEO, click  to show the files list which included VIDEO + AUDIO (if the hardware supports capturing audio).



Click the camera number  to show the files of the camera recording.

Finally we can select one file to playback in the file list as below.

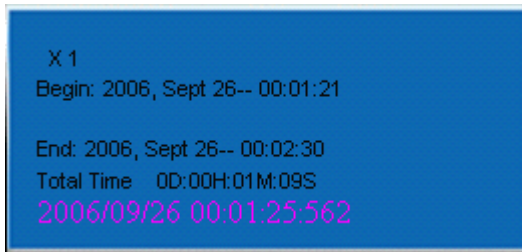
Event Begin-Time	Camera
 00:00:50 - Sept 26, 2006	02
 00:01:49 - Sept 26, 2006	02
 00:07:21 - Sept 26, 2006	02
 00:09:47 - Sept 26, 2006	02
 00:10:01 - Sept 26, 2006	02
 00:16:03 - Sept 26, 2006	02

Click  to start playback process.

Click  to stop, click  to pause.

Please note that click  is speed-up the playback(up to 8X)and click  is speed-low the playback(from 1/2 to 1/8).

Besides, we can check the status of the playback file at below window. This window's showing all the detail information of the playback file.



The first line “X1” means the playback speed.

We can move to some point time to check what I want to see by mouse dragging the slide bar as below.




Click  to increase the sharpness, click  to decrease it.

Click  to increase the brightness, click  to decrease it.

Click  to increase the contrast, click  to decrease it.


Click  to REPEAT the playback.

Click  to delete the file.



Click  to save the AVI file to disk, folder or portable storage devices.

Click  to snapshot one picture of the playback video.




Click  to exit and close the playback program, then back to the surveillance main program to see the live previewing.




Click  to play the last file on list, click  to play the next file on list.





Click  to move forward to previous 1 frame of the playback video, click



 to move after 1 frame of the playback video.




Click  to enlarge the image of the playback video, click  to reduce the image.



NOTE! : Please be advised that above step-forward/back, enlarge/reduce, save to avi and delete functions better be used under STOP or PAUSE playback status or the files may be broken by unexpected errors.




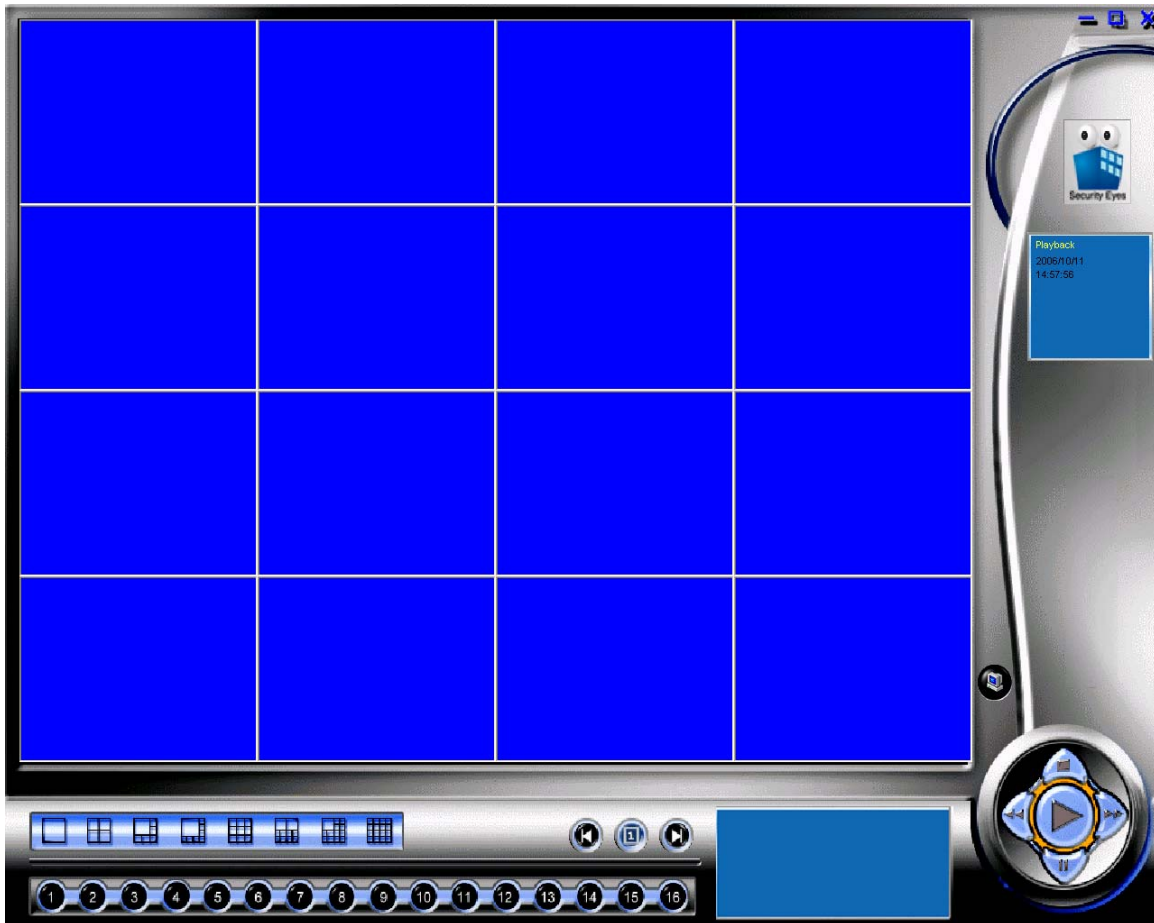
[] Multi Playback




Under SINGLE playback mode, click  and then change to Multi-Playback mode



as below. Under MULTI playback mode, click  will back to SINGLE playback program.



NOTE! : Under MULTI playback mode, please click  to exit the playback

program. Or you can go back to the SINGLE playback program to click  and then back to live previewing. Both ways were okay to exit the playback.

Firstly we have to set a time period of the recorded video to do multi-playback by click



as below. To select the items and then click “OK” to search in database.

Advanced

Time Interval

Start Time: 12/ 7/2006 1:59:14 PM

End Time: 12/ 7/2006 2:04:14 PM

Camera List:

<input checked="" type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input checked="" type="checkbox"/> 4
<input checked="" type="checkbox"/> 5	<input checked="" type="checkbox"/> 6	<input checked="" type="checkbox"/> 7	<input checked="" type="checkbox"/> 8
<input checked="" type="checkbox"/> 9	<input checked="" type="checkbox"/> 10	<input checked="" type="checkbox"/> 11	<input checked="" type="checkbox"/> 12
<input checked="" type="checkbox"/> 13	<input checked="" type="checkbox"/> 14	<input checked="" type="checkbox"/> 15	<input checked="" type="checkbox"/> 16

Audio Select:

<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7	<input type="checkbox"/> 8
<input type="checkbox"/> 9	<input type="checkbox"/> 10	<input type="checkbox"/> 11	<input type="checkbox"/> 12
<input type="checkbox"/> 13	<input type="checkbox"/> 14	<input type="checkbox"/> 15	<input type="checkbox"/> 16


Audio Option:



☒ Enable ☐ Disable



OK CANCEL



Only one point we had to note about multi-playback system: The multi-playback program only can access the searching at THE SAME day in 24 hours. If we want to check the recorded files between different dates will not be allowed to search.

This limit of multi-playback searching was because of the database will be very busy if big range searching of the multi-channels at the same time. For stably working system, we just set the limit in the searching function under multi-playback mode.

Click  to start multi-playback process.

Click  to stop, click  to pause.

Please note that click  is speed-up the playback(up to 8X)and click  is speed-low the playback(from 1/2 to 1/8).

Click  to move forward to previous 1 frame of the multi-playback video, click  to move after 1 frame of the multi-playback video.

The other additional programs of Client software:

About the additional programs of Client software, we provided the hyper-links to check the functions as below:

[The Backup Utility of Client software](#)

[The Database Compact of Client software](#)

[The Lost File Recovery of Client software](#)

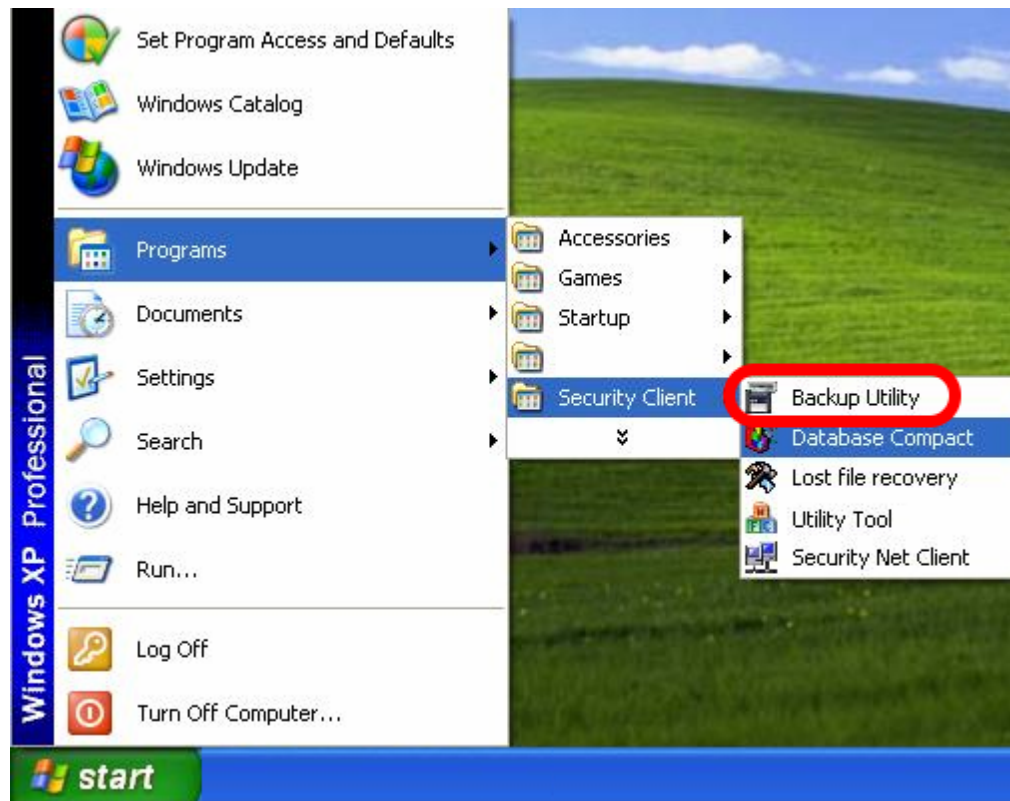
[The Utility Tool of Client software](#)

5.4 The Backup Utility of Client software

How to startup the Backup Utility

Turn off the MONITORING of Client software.

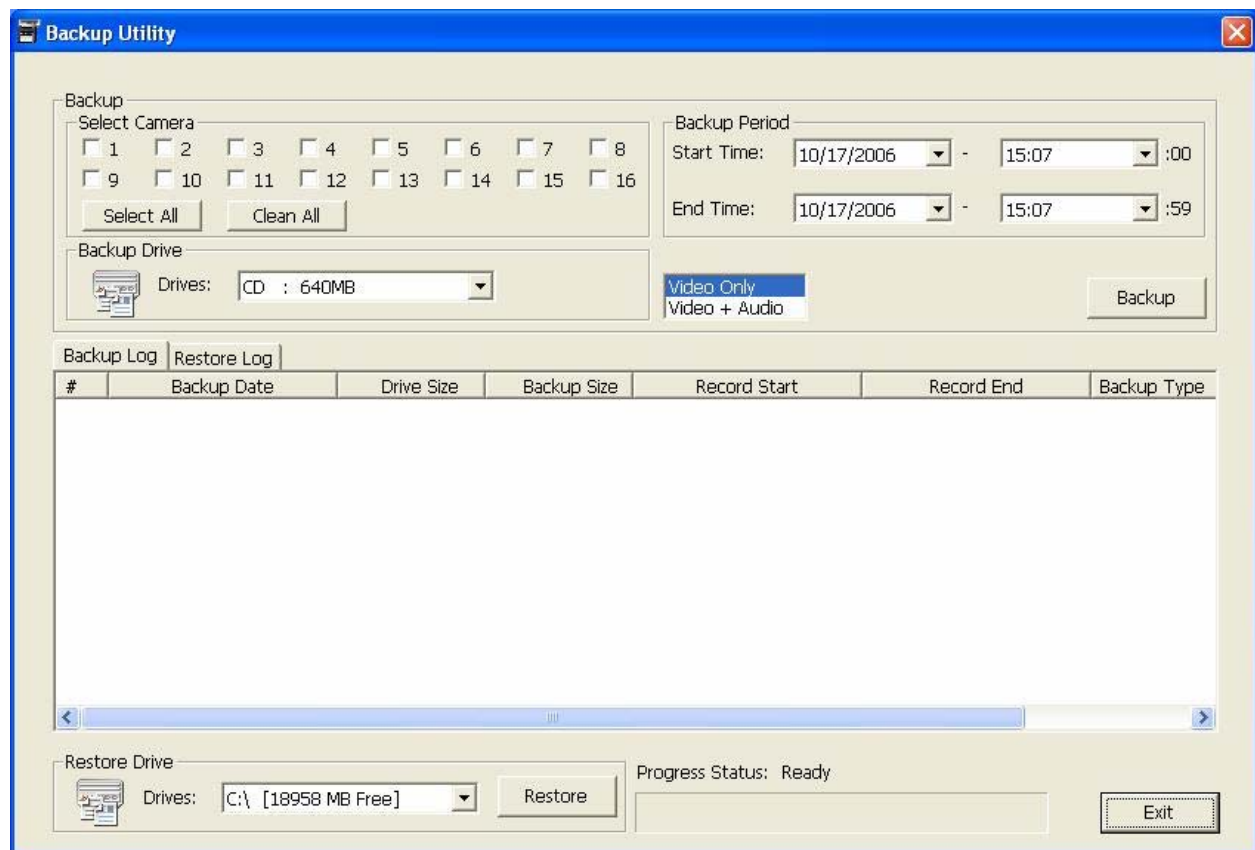
Please click START → PROGRAMS → SECURITY CLIENT → BACKUP UTILITY



This function was used to backup the video or audio+video files which recorded by Client software. It cannot be used to backup other files of other software.

We strongly recommended DO NOT use other methods of backup the recorded files or the whole files will be damaged. Please use BACKUP UTILITY to do backup.

How to backup the recorded files



After startup, you can see above backup program window. The program supports two ways to backup, one is making backup to harddisk and the other is making backup to CD/DVD burner.

Backup to harddisk:

Step 1: To check the box of the camera number and select the cameras for backup.

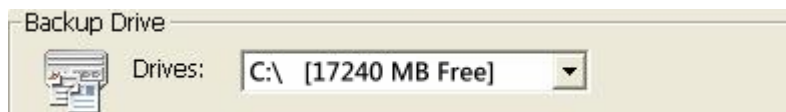


Step 2: To select the date and time for backup period. Please note that file size will be about 300 MB for total 16 cameras recorded with audio for 1 hour.



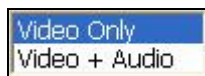
The 'Backup Period' dialog box contains two rows of time selection. The first row is for the 'Start Time', showing '10/17/2006' in a date dropdown, followed by a separator '-', then '15:07' in a time dropdown, and ':00' as the minutes. The second row is for the 'End Time', showing '10/17/2006' in a date dropdown, followed by a separator '-', then '15:07' in a time dropdown, and ':59' as the minutes.

Step 3: To select one harddisk space in your system for backup drive. Please DO select the enough storage for backup.




The 'Backup Drive' dialog box features a floppy disk icon on the left. To its right, the text 'Drives:' is followed by a dropdown menu that currently displays 'C:\ [17240 MB Free]'.

Step 4: To select the backup files which included video only or video+audio.






Two rectangular buttons are shown. The top button is labeled 'Video Only' and has a blue highlight. The bottom button is labeled 'Video + Audio'.

Step 5: Click  to start backup procedure. It may take little time, please wait for it finish and prompt below window.



The 'Backup Information Confirm' dialog box has a blue title bar with a close button. It contains several fields: 'Backup Period' with the value '2006/10/17 00:37:00 - 2006/10/17 16:37:59', 'Backup Size' with '634.77 MB', 'Backup Type' with 'Video + Audio', and 'Drive Size' with 'C:\ [12400 MB Free]'. There is an unchecked checkbox labeled 'Remove Data and Database Record after Backup'. At the bottom are 'OK' and 'Cancel' buttons.

Step 6: Check the box of  will delete all recorded files and database after click . Please DO think about it if you still need the recorded files or database.

Step 7: After click , please go to the drive or folder as set to backup and then check the backup's done or not. Please note that the backup files cannot be deleted or changed which included the file name and format, or you may not restore them back later.

Backup to CD/DVD burner:

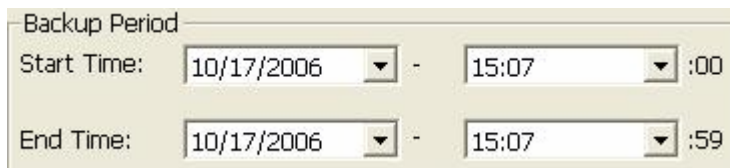
To take CD burner and Nero™ software for an example to backup in this chapter.

Step 1: To check the box of the camera number and select the cameras for backup.



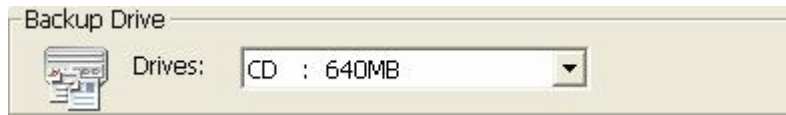
The 'Select Camera' dialog box contains 16 checkboxes arranged in two rows of eight, numbered 1 through 16. Below the checkboxes are two buttons: 'Select All' and 'Clean All'.

Step 2: To select the date and time for backup period. Please note that file size will be about 300 MB for total 16 cameras recorded with audio for 1 hour. For general CD burning, the space's about 640 MB.

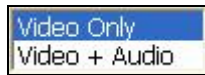




The 'Backup Period' dialog box features two rows of time selection. The 'Start Time' row has a date dropdown set to '10/17/2006', a time dropdown set to '15:07', and a ':00' suffix. The 'End Time' row has a date dropdown set to '10/17/2006', a time dropdown set to '15:07', and a ':59' suffix.

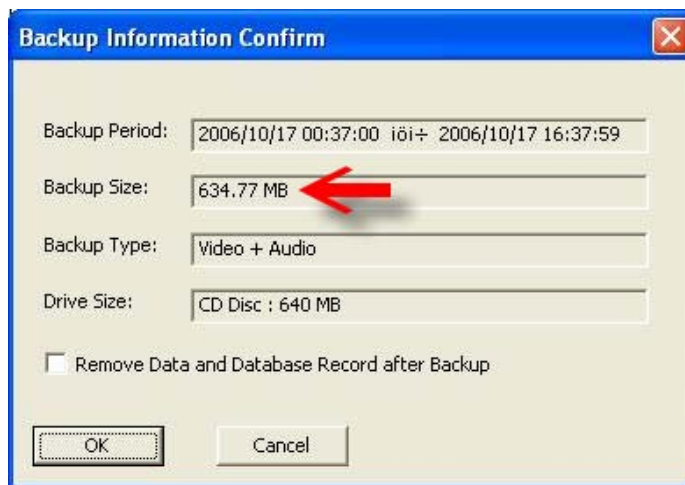
Step 3: To select 『CD: 640MB』 for backup storage and then put the recordable CD into the drive in system.





Step 4: To select the backup files which included video only or video+audio.



Step 5: Click  to start backup procedure. It may take little time, please wait for it finish and prompt below window. Please note that Backup Size as below picture, please click  if the size over 640 MB.




Step 6: Check the box of  will delete all recorded files and database after click . Please DO think about it if you still need the recorded files or database.

Step 7: After above step, you'll see below prompt message. Please DO NOT click




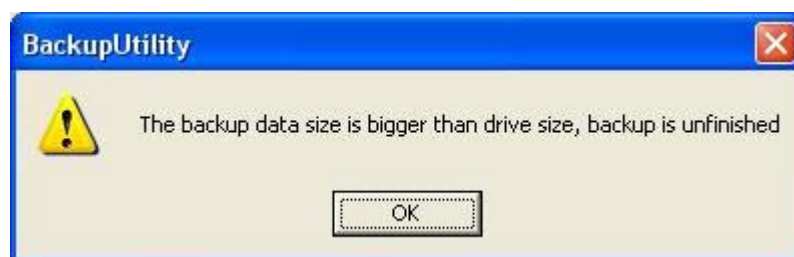
. At the meantime, please start-up Nero™ software to burn a CD.



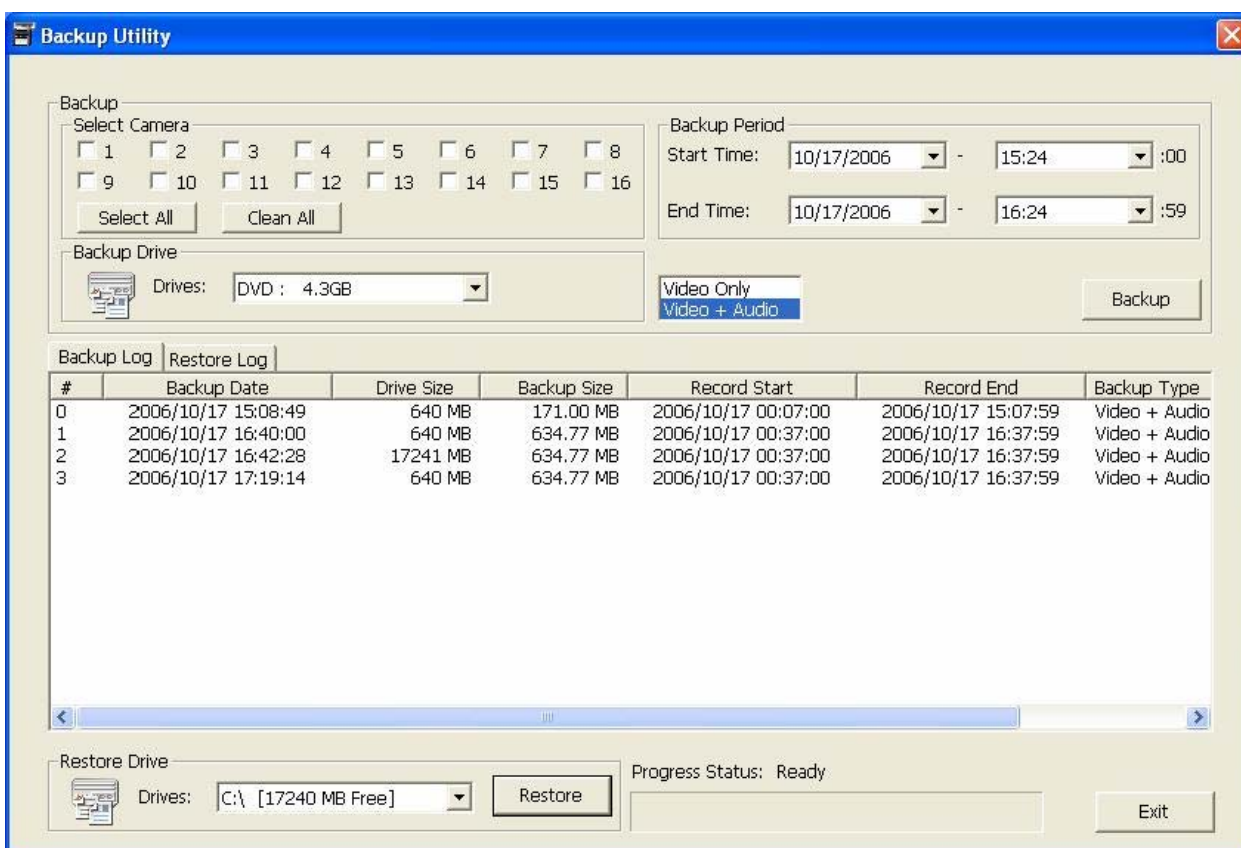
Step 8: After Nero™ software running, please select to burn a 『DATA CD』 and then the Nero™ will prompt to ask for adding files to burn. Then you'll see the backup files were already in the list. Just follow general step to click “Next” and burn the CD. If you don't see any files in the burning list, just click the right button of mouse and press 『PASTE』 to copy the files into the list. Now you can press  at above window if the backup files were already in the Nero™ burning list.



NOTE! : In the backup steps, it means the backup size was bigger than the backup drive or device. Please click  to re-select the items and then backup again.



How to restore the backup files



After startup, you can see above backup program window. The program supports two ways to restore from backup file from harddisk or CD/DVD burner. Firstly we

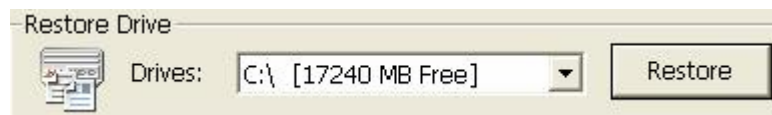
recommended to check the Backup Log for your restoring history as below if you want to restore from local disk.

#	Backup Date	Drive Size	Backup Size	Record Start	Record End	Backup Type
0	2006/10/17 15:08:49	640 MB	171.00 MB	2006/10/17 00:07:00	2006/10/17 15:07:59	Video + Audio
1	2006/10/17 16:40:00	640 MB	634.77 MB	2006/10/17 00:37:00	2006/10/17 16:37:59	Video + Audio
2	2006/10/17 16:42:28	17241 MB	634.77 MB	2006/10/17 00:37:00	2006/10/17 16:37:59	Video + Audio
3	2006/10/17 17:19:14	640 MB	634.77 MB	2006/10/17 00:37:00	2006/10/17 16:37:59	Video + Audio

Restore steps:

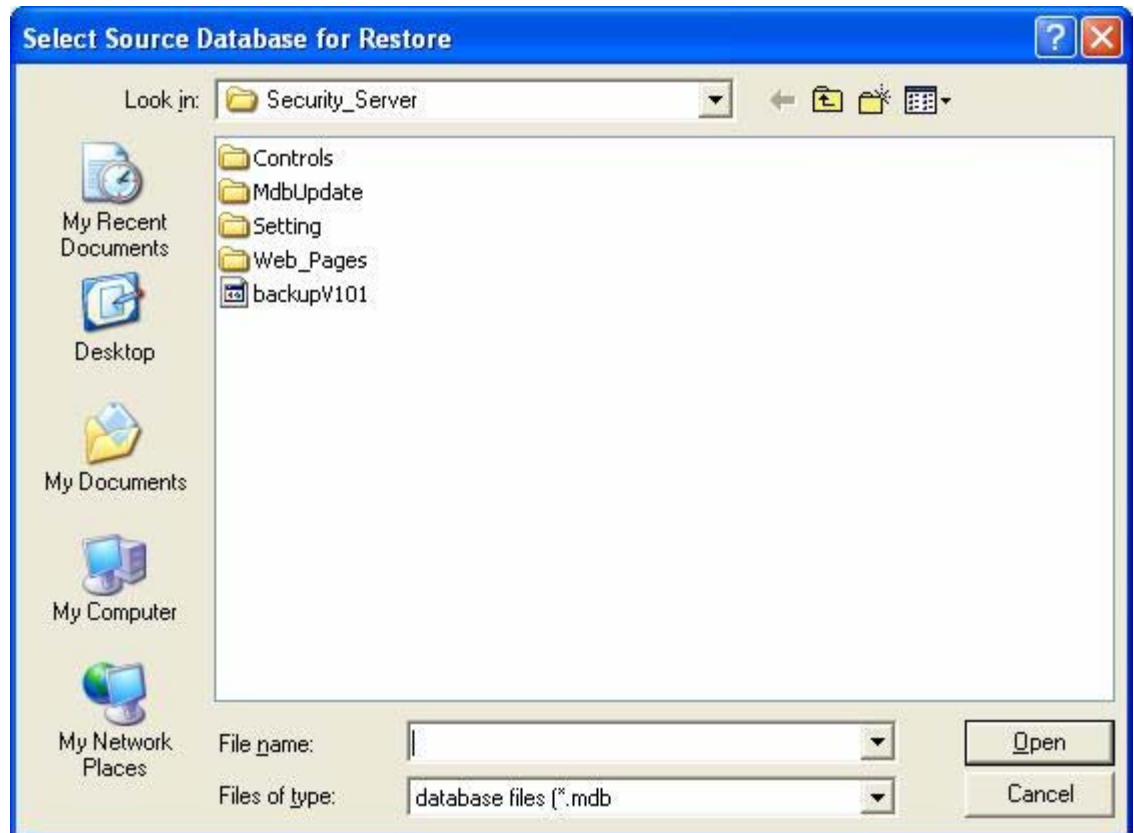
Step 1: To select the TARGET drive for restoring and then click


Restore

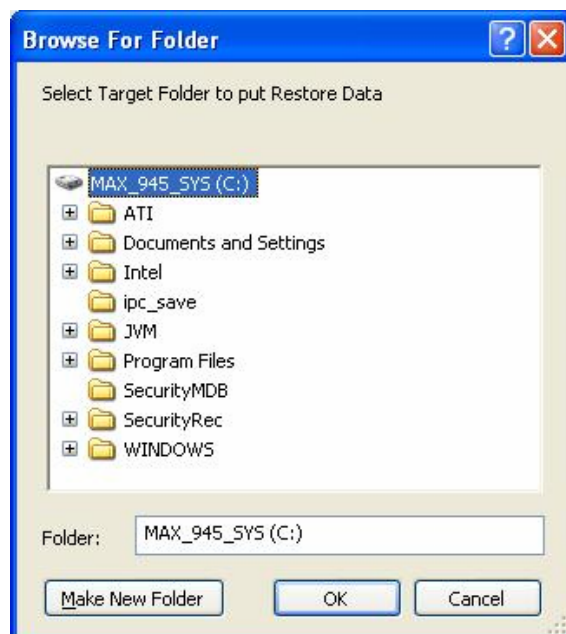


Step 2: To select the database file (.mdb) which already been backup in disk and then click Open. Of course, it allows to select the database in CD/DVD.

Please note that file size should not over the space of target space.

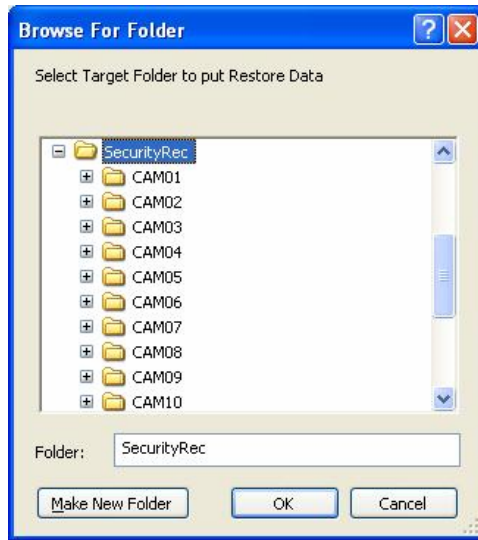


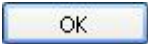
Step 3: And then please select the folder or make a new folder to restore the backup files. To make a new folder, please press .




Click  to start restoring.

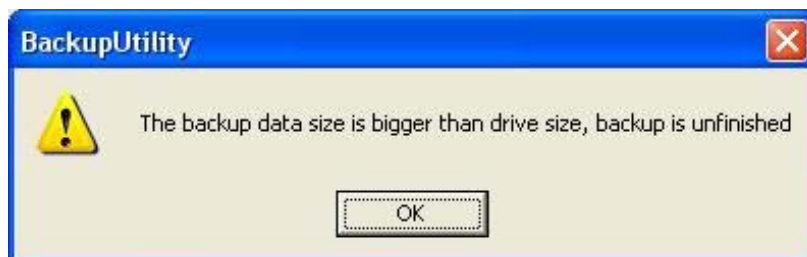
Step 4: If you want to restore the backup files to playback list of Client software, please restore to “C:\SecurityMDB_Client\”.



Step 5: After restoring finished, it will prompt a message to inform users. Please click  to continue.



NOTE! : In the backup steps, it means the backup size was bigger than the backup drive or device. Please click  to re-select the items and then backup again.



5.5 The Database Compact of Client software

What's Database Compact?

Database Compact program was designed to fast-scan and re-build the database logs quickly to more compact and stable.

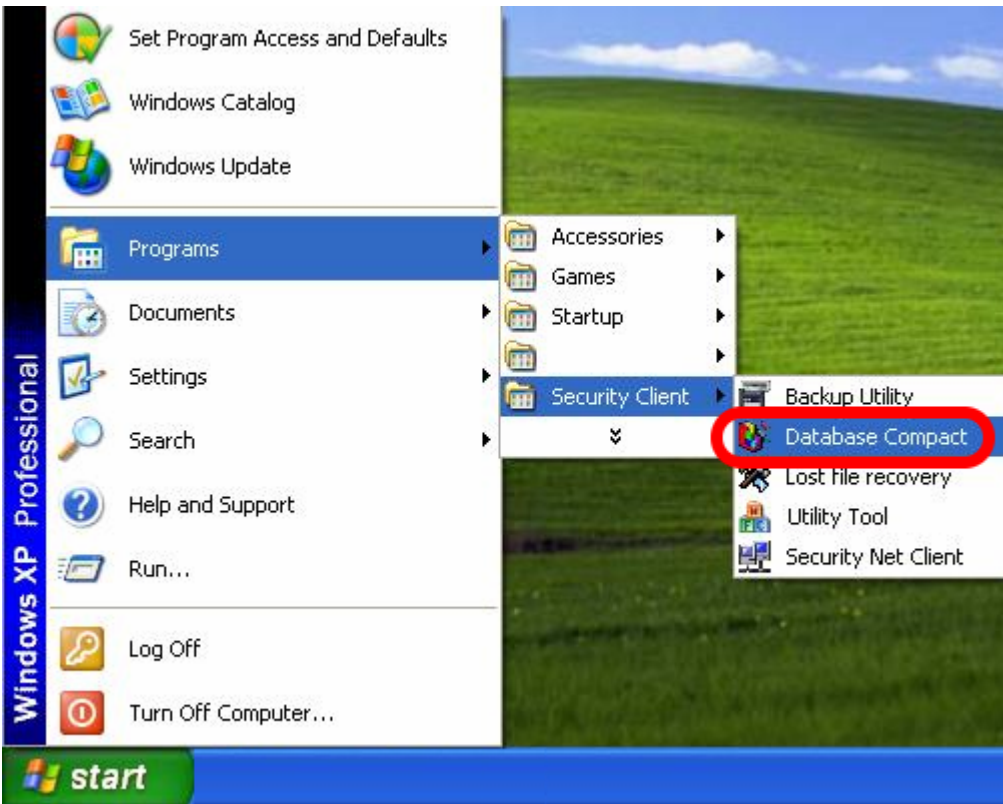
When need to do Database Compact?

We suggested to run this program every half or one year. Especially to do it when you find some errors on playback or searching the recorded files. This may help to optimize the database for playback. Usually to use it with “Lost File Recovery” program together.

How to startup the Database Compact?

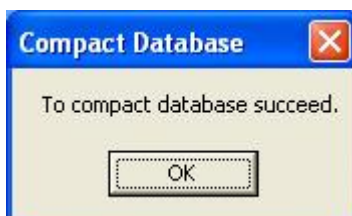
Stop monitor and then turn off the Client software.

Please click START → PROGRAMS → SECURITY CLIENT → DATABASE COMPACT



This function was used to compact the database which was recorded by Client software. It cannot be used to compact other database files of other software.

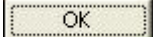
After press the Database Compact, please wait for a little time to scan and compact. And then below message window will prompt to inform users:



Please click  to finish.

If you see below message window prompt on screen:



Please click  and then check the database again.

5.6 The Lost File Recovery of Client software

What's Lost File Recovery?

Lost File Recovery program was designed to fast-scan and re-build the lost recorded files.

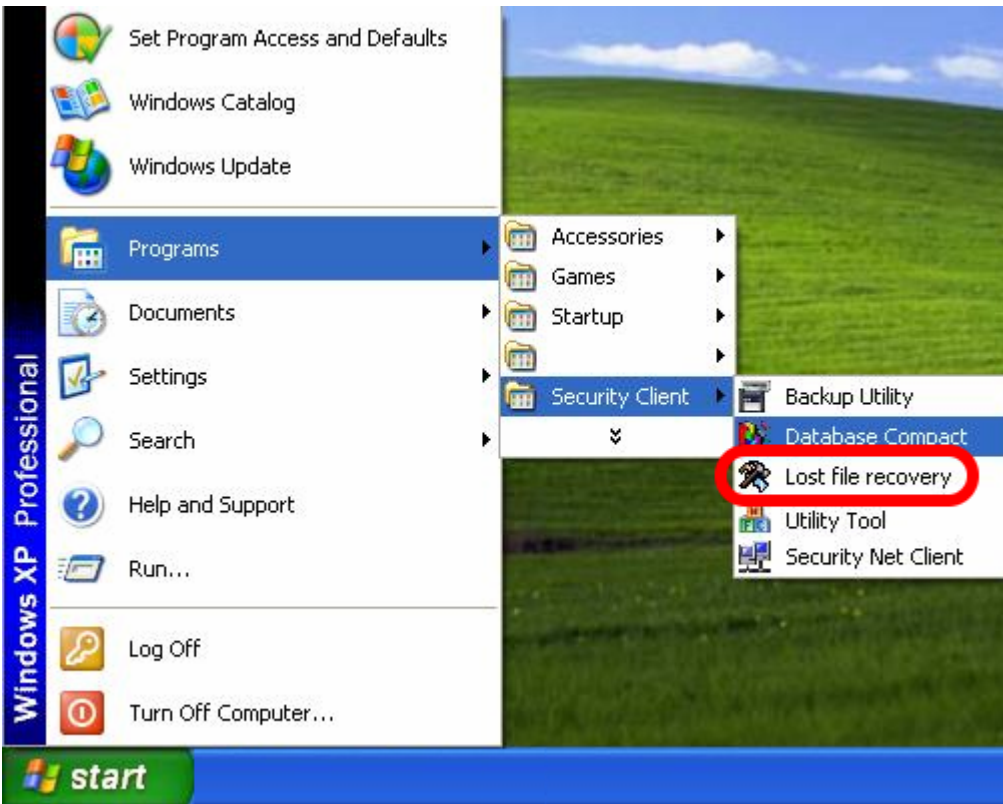
When need to do Lost File Recovery?

We suggested to run this program especially when you find some errors on playback or searching the recorded files. This may help to search and re-build the lost recorded files for playback. Usually to use it with “Database Compact” program together.

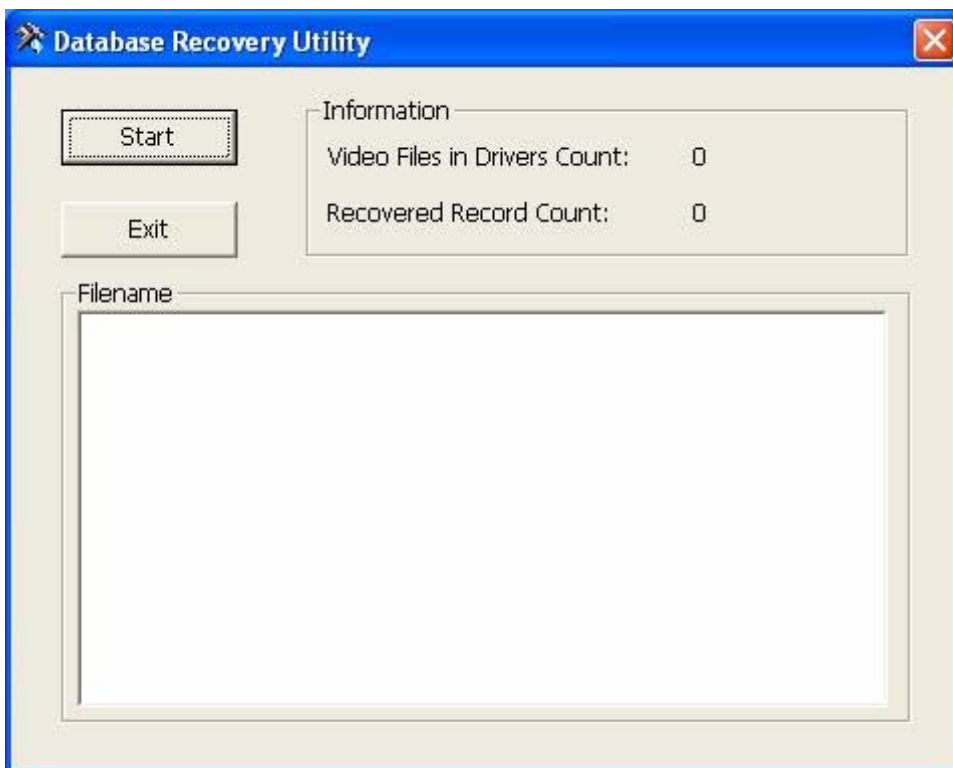
How to startup the Lost File Recovery?


Stop monitor and then turn off the Client software.

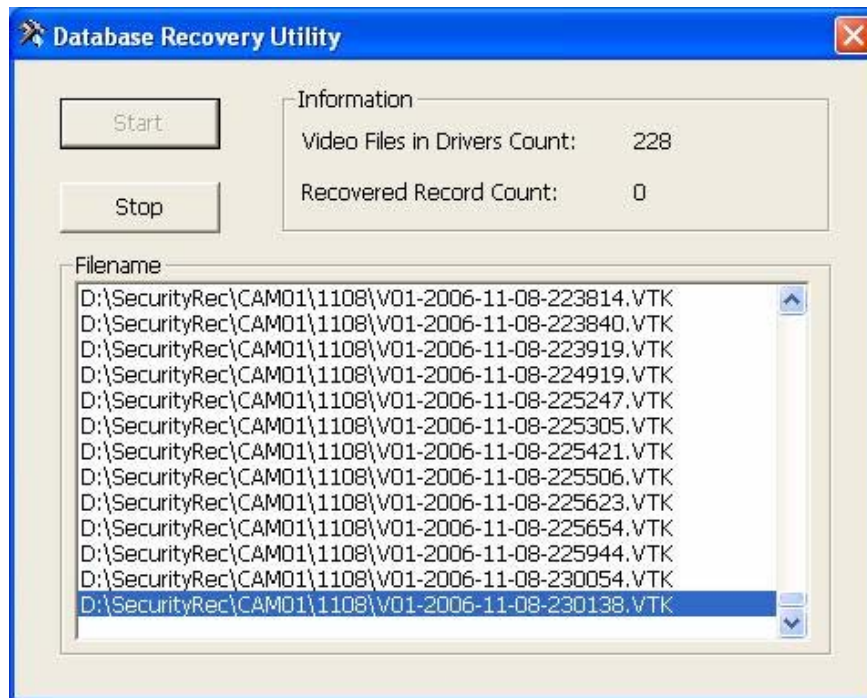
Please click START → PROGRAMS → SECURITY CLIENT → LOST FILE RECOVERY




This function was used to recover the files which were recorded by Client software. It cannot be used to recover other recorded files of other software. After press the program to launch as below message window will prompt:

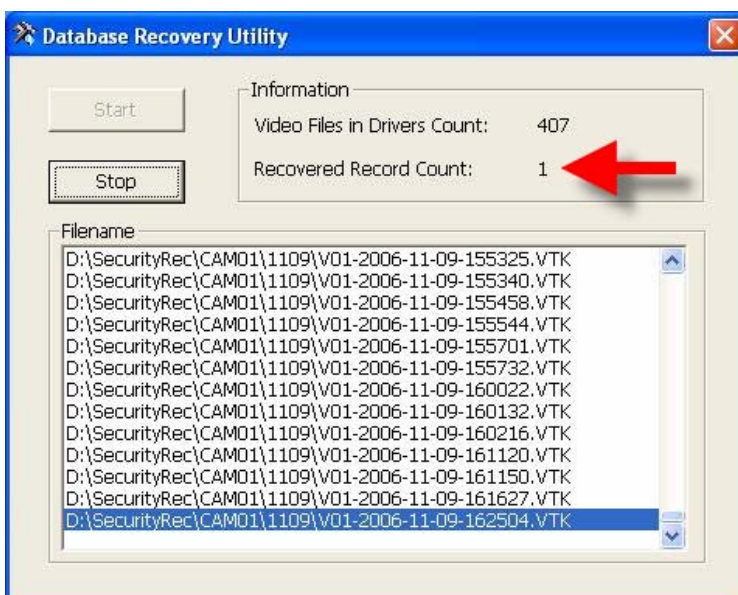



Please click  to start the recover process. After above, please wait for the recover process working as below window.

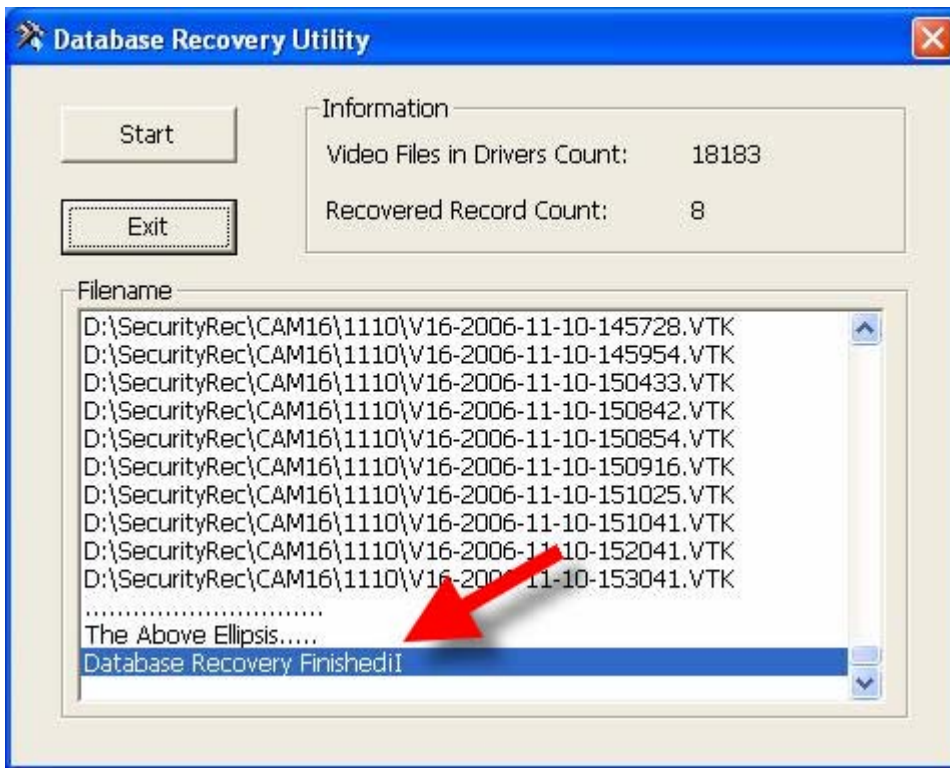


NOTE! : Click  will stop the recover process, please note it may cause some error of recovery.

It will show the recover result if the record file has an error which already been recovered as below.



It will prompt the finish message in list as below picture. Please click  to exit the “Lost File Recovery” program.



NOTE! : Please DO NOT use other disk-rebuild or defragmenter to do anything on recorded files or the files may be damaged by unexpected errors.

5.7 The Utility Tool of Client software

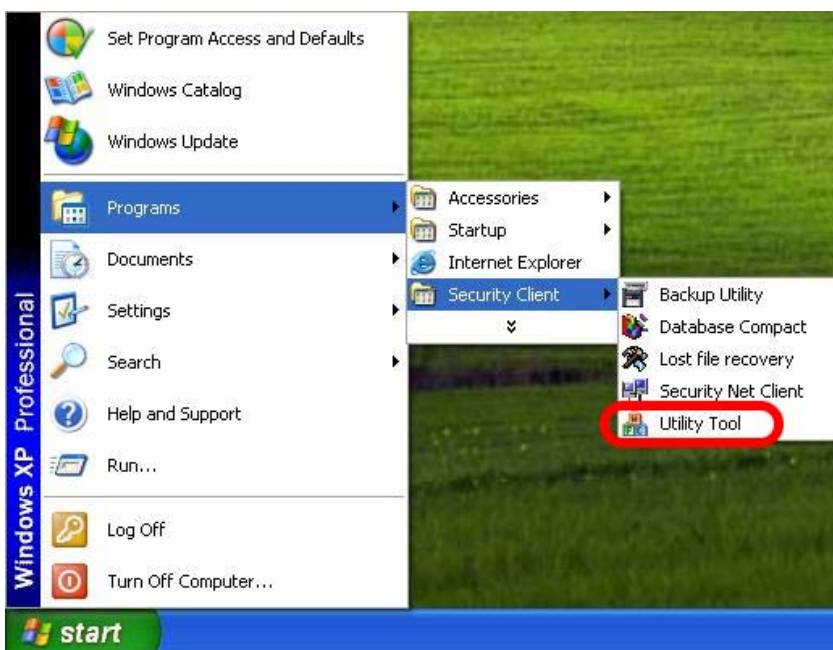
What's Utility Tool?

It's a program help users to search and find out the IP cameras/servers faster, easier and much more convenient under Intranet environment. Just needs to press one button to find them out.

When need to use Utility Tool?

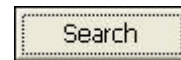
We suggested to use this program especially while you want to search and setup the IP cameras or servers in Intranet. So, if the IP camera or server located on Internet, this program will not search and find them out.

How to startup the Utility Tool?

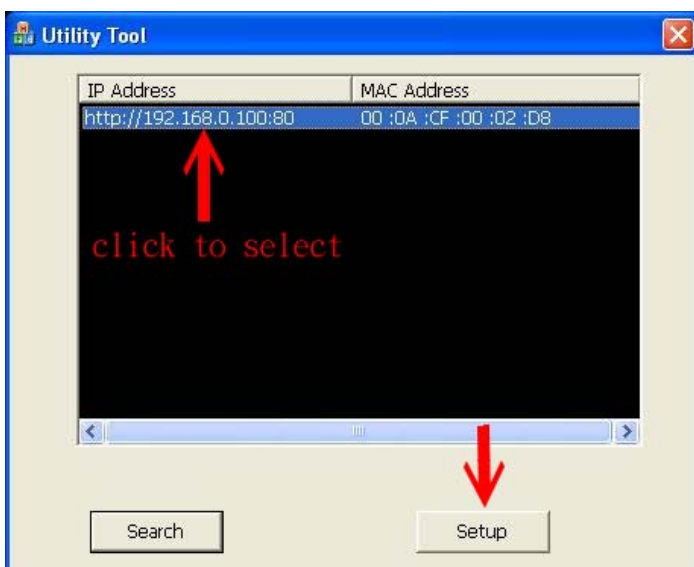




Press



After few time, the program will list the result in window, please use mouse clicking to select one in list. And then click



Then the program will launch Microsoft™ Internet Explorer for users to login and setup the IP camera or server. About the setup detail please refer to [To login and setup IP camera.](#)

Appendix A: Reset and Factory Default Value

Press and hold the **Hardware Reset** button on IP camera over 10 seconds to reset the camera to the factory defaults. You will see the Red indicator LED light again when it is finish reset procedure.

Tip: The system will reset to the Default IP (192.168.0.100).

Note! : You'll need to reconfigure the IP camera settings after resetting the camera. The IP Camera will recover to the factory default username (admin) and password (admin). The network settings on your camera will also restore to the default value, therefore you may need to reconfigure the camera using the Utility Tool program.

Factory Default Value Sheet

Video

Item	Default Value
Video Resolution	D1
Video Format	NTSC
OSD Timer	Disable
BitRate	1Mbps

Frame Rate	30 fps (stream 1) Disable of stream 2
Brightness	138
Contrast	71
Saturation	64
Hue	0
Flip	Disable
Zoom	100%

NTP

Item	Default Value
Synchronized with Time Server	Enable
NTP Server	--

Account

Item	Default Value
Administrator Name	admin
Administrator Password	admin
User Name	user
User Password	user

Motion Setting

Item	Default Value
Motion Detection	Disable
Mask	All clear
Sensitivity	1
Use Direct Draw	Enable
IO Alarm	Disable

Motion Capture Post I Frame	1
Picture Capture	Disable
Video Capture	Disable

Alarm Setting

Item	Default Value
Alarm Picture	Off
Alarm Mail	Off
Alarm FTP	Off
Video Loss Alarm Mail	Off
Output Alarm Event Select	Off
Output Alarm Action Time	1 sec

Audio

Item	Default Value
Audio Channel	Mono
MP2 Bitrate	32kbps

PPPoE

Item	Default Value
User Name	--
Password	--
Password Retype	--

DDNS

Item	Default Value
Dynamic DNS	Off
DDNS Service	DynDNS.org

Host Name	--
User Name	--
Password	--

WLan

Item	Default Value
Mode	Infrastructure
Operation mode	Auto
Channel	Auto
Wireless AP SSID	PVAP
Preamble Type	Long
Authentication	Open System
Encryption	Off
WEP Key use	1

WEP Key	--
WPA Encryption	TKIP
WPA PSK	--

LAN

Item	Default Value
DHCP Client	Off
PPPoE	Off
IP Address	192.168.0.100
Subnet Mask	255.255.255.0
Gateway	192.168.0.1
DNS 1	168.95.1.1
DNS 2	168.95.192.1
HostName	PV605

Stream Setting

Item	Default Value
Multicast Enable	Off
Multicast IP	234.5.6.11
Multicast Port	6000
RTSP Port	554
Control Port	21
Alarm Port	22
HTTP Port	80

E-mail

Item	Default Value
SMTP Server	--
Recipient	--

Username	--
Password	--
Authentication Mode	PLAIN

FTP

Item	Default Value
FTP Server	ServerIP
FTP Port	21
Username	UserName
Password	--
Remote Folder	--
Passive Mode	Off

UPnP

Item	Default Value
UPnP Service	Off

Storage Setting

Item	Default Value
Manual SnapShot Picture	Off
Manual Record Video	Off
Record Time	5 seconds
Schedule Snapshot	Off
Interval	10 minutes

NOTE:

*"--" means that default value had no meaning.

*MAC address was assigned in factory which cannot be changed by users.

Appendix B: Network problematic Utilities

Windows™ operating system includes various network information utilities to determine various network configurations. To determine your IP address and network settings, please follow the procedures.

1. Click on “***Start***” => “***Run***” and type in: **cmd** and then press “***ENTER***”
2. Type command: ipconfig and then press “***ENTER***”.
3. This will display your network card’s IP address, Subnet Mask, and Default Gateway.
Please remember it, we will use it later.
4. Ping IP Camera’s IP address, the Default IP is 192.168.0.100. Please type in the same command windows: ping XXX.XXX.XXX.XXX. The XXX.XXX.XXX.XXX is your IP Camera’s IP address. For example: ping 192.168.0.100.
5. If there is a camera, or a PC or other network device online and using this address, you will see:

Pinging 192.168.0.100 with 32 bytes of data:

Reply from 192.168.0.100: bytes=32 time<1ms TTL=128

Reply from 192.168.0.100: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.0.100:

Packets: Sent = 4, Received =4, Lost = 0 (0% loss),

Approximate round trip times in million-seconds:

Minimum = 0ms, Maximum = 0ms, Average = 0ms

6. If there is NO response on this address you'll see

Pinging 192.168.0.100 with 32 bytes of data:

Request timed out.

Request timed out.

Ping statistics for 192.168.0.100:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

This indicates that the address is available for use. However, there could still be a device which is currently offline which is configured to use the address. To be certain, make sure all your network devices are on and connected to your network when checking for address availability.

Appendix C: Internet Explore Security Settings

The IP Camera's web environment Communications using both JavaScript and ActiveX control technologies. The ActiveX control must be downloaded from the camera and installed on your PC. There are four things that your Internet Explorer security settings must allow for the web page to work correctly.

1. **Download signed ActiveX controls**
2. **Run ActiveX control and Plug-ins**
3. **Script ActiveX controls marked safe for scripting**
4. **Active Scripting (Java Scripts)**

All these things are enabled by the default Internet Explorer Security settings. You can restore the default settings in Internet Explorer by clicking "***Tool***" => "***Internet Options***" => "***Security***" => "***Default Level***".

You can also click "***Custom Level***" and set each of the four items listed above to "**Enable**". The default security level in Internet Explorer is set to "**Medium**".

CAUTION! : You do not need to enable the option for downloading **unsigned** ActiveX controls. Unsigned ActiveX controls may cause problems on your computer or allow hackers or a virus to be installed on your system without notice. Signed controls have a digital signature encoded in them verify the identity of the author.

Appendix D: Frequently Asked Questions

IP Camera Features

Q: What is an IP Camera?

A: The IP Camera is a standalone system connecting directly to an Ethernet or Fast Ethernet network and supported by the wireless transmission based on the IEEE 802.11b standard. It is different from the conventional PC Camera; the IP Camera is an all-in-one system with built-in CPU and web-based solutions providing a low cost solution that can transmit high quality video images for monitoring. The IP Camera can be managed remotely, accessed and controlled from any PC / Notebook over the Intranet or Internet via a web browser.

Q: What is the maximum number of users that can be allowed to access IP camera simultaneously?

A: Maximum number of users that can log onto the IP Camera at the same time is 6. Please keep in mind the overall performance of the transmission speed will slow down when multiple users are logged on.

Q: What algorithm is used to compress the digital image?

A: The IP Camera utilizes JPEG image compression technology and Motion JPEG image compression technology to provide high quality images. JPEG is a standard for image compression and can be applied to various web browser and application software without the need to install extra software.

Q: Can I capture still images from the IP Camera?

A: Yes, you are able to capture still images with the snapshot function from the Client Software supplied with the IP Camera CD-ROM. You may also use the first page that shows up when you type in the IP Address of the camera. When viewing this page, click the “**refresh**” button on your web browser to update the image. You can right-click the mouse on it and save to a new file. Also you can type: <http://{IP address}:{port}/cgi-bin/image.cgi> on IE browser and then the browser will get a current JPEG file of the live video.

IP Camera Installation

Q: What username and password do I use for the first time access the IP Camera or after a factory default reset?

A: User Name = admin, password = admin (all lowercase).

Q: What do I do if I can't remember my username and password?

A: Restore the factory default settings by pressing and holding down the **reset** button for 10 seconds. Caution: Any configuration settings you have entered will be lost.

Q: Can the IP Camera be used outdoors?

A: The IP Camera is not weatherproof. It needs to be equipped with a weatherproof case to be used outdoors and it is not recommended.

Q: What network cabling is required for the IP Camera?

A: The IP Camera uses RJ-45 Category 5 UTP Twisted-pair cable allowing 10 Base-T and 100 Base-T networking.

Q: Can the IP Camera be setup as a PC-cam on the computer?

A: No, the IP Camera is used only on Ethernet and Fast Ethernet network or supported by wireless transmission.

Q: Can the IP Camera be connected on the network if it consists of only private IP Addresses?

A: Yes, the IP Camera can be connected to a LAN with private IP Addresses.

Q: Can the IP Camera be installed if a firewall exists on the network?

A: If a firewall exists on the network, port 80 is open for ordinary data communication. You will need to do port forwarding by opening a port to the camera (NAT function). Please refer to your firewall's product manual for detailed instructions. Another way is modify the DMZ function on the Router, re-director the Internet connection Real IP to the IP Camera's intranet Virtual IP.

Q: I cannot access the IP Camera from a web browser.

A1: The possible cause might be the IP Address for the IP Camera is already being used by another device. To correct the possible problem, you need to first disconnect the

IP Camera from the network. Then run the PING utility (follow the instructions in [Appendix B: Network problematic Utilities](#))

- A2:** Check the Ethernet status LED around the Ethernet ends. It should blink Green and orange light. If not, check that both ends of the Ethernet cable connection are secure.
- A3:** Confirm that you are using the correct IP address and port number. You can use the Utility Tool to observe the status. Please confirm that Camera's gateway setting matches the LAN IP of the gateway / router connection it to the Internet. The gateway may be configured not to respond to pings on its WAN IP.
- A4:** Confirm that the http port used by the camera (default = 80) is forwarded to the camera's LAN IP address in the gateway / router's configuration. Please refer to your gateway / router's manual.
- A5:** If IP Camera is inside the intranet (Behind a NAT router). Then the Internet Explorer outside the NAT router can't access the IP Camera's IP address. You can modify Router's DMZ function or NAT forwarding function let Internet connection can access the IP Camera. Also you can use DDNS function together to access you IP Camera in Web address around the world.

Q: How Can I Register DDNS service?

- A:** Please go to the following DDNS provider or the other DDNS provider company. Register a account and finish the register procedure. Then apply a Domain on the DDNS provider. Then input the Domain name (from by DDNS provider), User Name (account of the DDNS), Password (password for the DDNS) and DDNS Server address (Please find in the DDNS provider Web Page) or the IP Server address in Your IPCam configuration. Then presses apply for Enable the DDNS services.

For example:

User Name: xxxxxxxx

Password: ●●●●●●●●

Server: dynupdate.dyndns.org

Here are some Free DDNS providers:

. [http: //www.dyndns.org/](http://www.dyndns.org/) (recommended DDNS provide)

. [http: //www.3322.org/](http://www.3322.org/)

DDNS Service must operation under Real IP environment, if the IPCam is behind the NAT router or the Firewall. Please set NAT redirection or DMZ functions to the IPCam IP address.

Q: Why E-mail configuration's correct but cannot send E-mail?

A: Some times user configure E-mail setting is correctly, however the LAN or Wireless setting configure didn't setup the DNS server address. Therefore the IPCam cannot find the correct E-mail server address. So E-mail cannot be sent. So, correction the DNS server address can solve this problem.

Q: Why camera cannot be pinged?

A: Check the camera is on and the Ethernet status LED is on and blinking. Cycle the power off and then on and re-check. Confirm that the IP address of the camera does not conflict with another device on the network by ping the address with the camera power off. Make sure your internet connection is not cross the NAT router.

Q: Why does the Power LED not light up constantly?

A: The power supply used might be at fault. Confirm that you are using the provided power supply, which is DC 12V, for the IP Camera and verify that the power supply is well connected.

Q: Why does the LAN LED not light up properly?

A1: There might be a problem with the network cable. To confirm that the cables are working, ping the address of a known device on the network. If the cabling is OK and your network is reachable, you should receive a reply similar to the following (...bytes = 32 time = 2 ms).

A2: The network device utilized by the IP Camera is not functioning properly, such as hubs or switches. Confirm the power for the devices are well connected and functioning properly. And please shut-down and restart again.

Q: Why does the IP Camera work locally but not externally?

A1: Might be caused from the firewall protection. Check the Internet firewall with your system administrator. The firewall may need to have some settings changed in order for the IP Camera to be accessible outside your local LAN.

A2: Make sure that the IP Camera isn't conflicting with any web server you may have running on your network.

A3: The default router setting might be a possible reason. Check that the configuration of the router settings, allow the IP Camera to be accessed outside your local LAN.

Q: The focus on the IP Camera is bad, how can I correct it?

A: Adjust the IP Camera focus manually, it can turn left and right to adjust for the correct focus.

Q: Internet Explorer displays the following message: “Your current security settings prohibit downloading ActiveX controls”.

A: Restore the default IE security settings (Medium) or configure the individual settings to allow downloading and scripts of signed ActiveX controls. Refer to [Appendix C: Internet Explore Security Settings chapter](#) for more detail.

Q: Internet Explorer displays message: “Error on Page in the status bar in the lower left corner of the web page”.

A: Most likely, the camera ActiveX control did not download and install correctly. Check your Internet Explorer security settings and then close and restart Internet Explorer. Try to browser and log in again.

Q: How can I tell if the camera’s ActiveX is installed on my PC?

A: Go to *C: \Windows\Downloaded Program files* and check to see if there is an entry for the file *Cam Image Class*. The status column should show “Installed”. If the file is not listed, make sure your Security Settings in Internet Explorer are configured properly and then try reloading the camera’s home page.

Q: My browser does not seem to work too well with the IP Camera?

A: Make sure that you are using Internet Explorer 5.0 or higher. If you are experiencing problems, try upgrading to the latest version of Microsoft's Internet Explorer from the Microsoft website at: <http://www.microsoft.com/windows/ie>

Q: Noisy images occur. How can I solve the problem?

A: The video images might be noisy if the IP Camera is used in a very low light environment. To solve this issue you need more lighting.

Q: There are no images available through the web browser?

A1: The ActiveX might be disabled. If you are viewing the images from Internet Explorer 7.0 above and make sure ActiveX has been enabled in the Internet Options menu. Please see [Appendix C: Internet Explore Security Settings](#) to configure your Internet Explorer.

A2: Make sure that your web browser supports ActiveX. If you are using Internet Explorer with a version number of lower than 4, then you will need to upgrade your web browser software in order to view the streaming video transmitted by the IP Camera.

Q: When I use IPCam Wi-Fi mode, seems it always can't connect. But the Wi-Fi setting is correct. What should I Do?

A: Sometimes according to your environment, some channel of Wi-Fi is jam or too much noise. So better changes a channel for better signal for IPCam. Please configuration

your Wi-Fi AP or Wi-Fi AP Router Wi-Fi Channel to another channel. Then restart the IPCam to connect the new channel of Wi-Fi signal.

Q: What can I do if I have more questions?

A: We hope your experience with IP Camera is enjoyable; you may experience some issues or have some questions that this Q&A has not answered. To obtain the newest information and support for your IP Camera, please call or mail to our Sales dept. (sales@provideo.com.tw) for additional help.

Appendix E: PoE (optional) Technical specifications

Important of POE (Power over Ethernet) pins definition:

Pin	Alternative B
1	--
2	--
3	--
4	Vport Positive
5	Vport Positive
6	--
7	Vport Negative
8	Vport Negative

Appendix F: 3G Mobile Surveillance compatible list

Dopod CHT9100

Dopod 595

Nokia N93

Nokia N80

Motorola E1070

Motorola raza 3.x

Motorola V3x

Sony Ericsson K608i

Sony Ericsson K610i

Sony Ericsson W900i

How to connect IP camera with 3G mobile phones.

Step 1. Use mobile phone to link 3G network and then launch the Internet browser of 3G mobile. (Note! : **For 3G mobile surveillance, the IP cannot be virtual IP**)

Step 2. In the network address, please input the IP address of your IP camera follow below examples (assume the IP camera's IP is 192.168.0.100).

For STREAM 1 3GPP, please input: **rtsp://192.168.0.100/3g**

For STREAM 2 3GPP, please input: **rtsp://192.168.0.100/3gv2**

About the streaming settings, please refer to [System Set - Video](#)

Appendix G: Note of Network Ports and SD/USB compatible list

1. the ports used on IP camera
 - a. Unicast (TCP), port=554, 21
 - b. Unicast (UDP), port=554, 21
 - c. Multicast (UDP), port=554, 21, 6000, 6002

Please be noted that, On IE, Multicast mode only can be enabled, and the Multicast mode is really running on Client software only, it can not be run on IE.

Http port=80

Alarm port=22

Audio port (from PC to IP camera) = 1500

2. Some limitation on SD and USB
 - a. the maximum capacity of SD is 4GB
 - b. the maximum capacity of USB interfaced storage is 80GB
 - c. only support NTFS file system on USB interfaced storage
 - d. the power of USB interfaced storage should be self-powered, rather than the IP Camera.
 - e. the suggested models of USB interfaced storage are PNY, ASUS, Sandisk, NuSlim, eSENSE

3. How to identify the IP Camera is wired or wireless by our firmware?

If you want use wired mode, please have the Ethernet cable connected, if you have the Ethernet cable disconnected, the firmware will detect it and set the IP camera to be wireless mode.