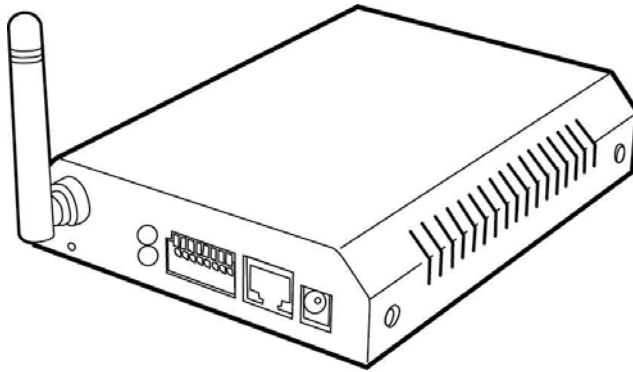


ALS-7111/7111W MPEG4 Video Server



User's Manual

Version 1.0

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Package Contents

The ALS-7111 Video Server is provided with the following accessories. Please contact your dealer if any one of the following is missing.



1. ALS-7111 Video Server



2. 12V DC power cable



3. Quick Guide



4. CD Room

System Requirements

ALS-7111/7111P/7111W Video Server	
Internet Environment	
LAN	10/100M Ethernet
Wireless LAN	802.11b or 802.11g
Monitor System Requirements	
OS support	Windows 2000 Professional SP4, XP Home SP2
Browser support	Internet Explorer 6.x or later
Hardware	CPU: Pentium 4 2.4 GHz or later Memory: 256 MB (512 MB recommended) VGA card resolution: 800 x 600 or higher

Introduction

The ALS-7111/7111P/7111W Video Servers convert any digital camera into a full functional IP camera. You can obtain all of the benefits that digital technology offers without scrapping your investment in an analog system. These products digitize analog video signals and will send digital images directly over any IP network, such as LAN, intranet and Internet. The ALS-7111/7111P/7111W turns an analog video system into a network surveillance system enabling users to view live images using a Web browser or video management software on any local or remote computer on a network. Moreover, the ALS-7111/7111P/7111W MPEG4 Video Server supports 3GPP real-time video streams that allow you to monitor your home or office environment using a 3G mobile phone. The ALS-7111/7111P/7111W MPEG4 Video Server has a built-in CPU and the webpage server enables you to secure people and property, or monitor equipment and facilities remotely from anywhere there is a networked computer.

Features and Advantages

The ALS-7111 MPEG4 Video Server is a stand-alone facility and operates smoothly without the need to install additional software or hardware. All that is needed is a PC equipped with IE browser (6.0 or above) connected to the Video Server via the network to monitor pre-set places remotely. The ALS-7111/7111P/7111W MPEG4 Video Server provides great remote accessibility of people, property, and assets just as though you were really there.

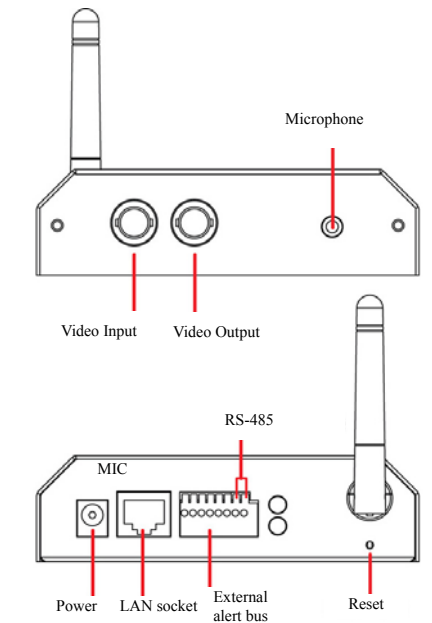
The ALS-7111 MPEG4 Video Server features:

- MPEG4/MJPEG dual video compression mode and dual coding mechanism for multiple applications;
- Support of 3GPP real-time video streams that allow you to control home or office environments using a 3G mobile phone;
- Built-in smart motion detection to monitor abnormal situations automatically and transmit real-time according to pre-set trigger commands;
- Built-in webpage server that allows easy control via the Internet;
- Dynamic IP domain name support for use of the product at locations where a fixed IP is not available;
- Access setting by level to ensure security and protection of life and property;
- Elegant style suitable for homes, studios, offices, clinics, and retail shops;
- Power Over Ethernet version (ALS-7111P) and Wireless Version (ALS-7111W) to meet your special requirements.

System Introduction

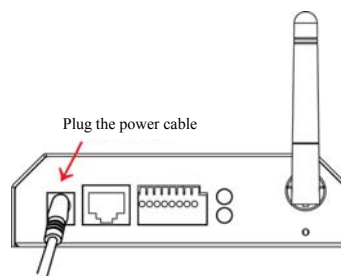
1. DC power cable: The DC input connector has a socket to connect the product to a power source.
2. Ethernet connector: An RJ-45 connector is provided for connection to the 10Base-T Ethernet cable or 100 Base-T High Speed Ethernet cable. This port can automatically detect or coordinate the transmission rate of the network.
3. Use a video/audio output cable for external video/audio transmission if required.

Wiring of the product



DC Power

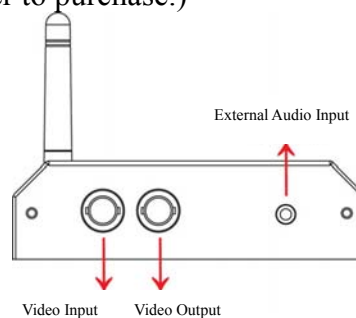
Plug the power cable in the power socket on the product.



Audio/Video Output

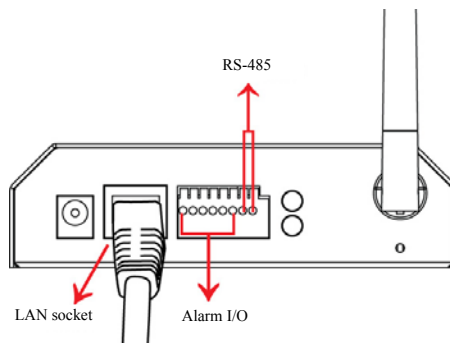
Plug the audio/video source of your camera into the Audio/Video input, and connect your monitor or recording equipment to the Audio/Video output.

(Note: Most cameras use a BNC connector, if your camera does not use BNC, please consult your dealer or retailer to purchase.)



LAN Socket

Connect the LAN cable into the LAN socket.



External alert bus (DI/DO)

For more information about DI/DO, refer to Attachment A.

RS-485 connector

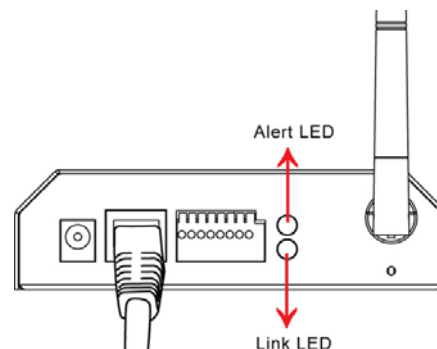
If your camera supports RS-485 interface, please wire your cameras up to the RS-485 socket. The ALS-7111 provides several drivers (Pelco-D, Pelco-P, and Alinking drivers). Refer to your camera user manual and this manual (Basic Setting > PTZ) for further information.

Reset to factory settings

After turning on the power, insert a slim plastic object into the reset orifice and press for five seconds to restore the unit to factory settings.

Link LED and Event LED

1. Link LED: The green LED lights up when you transmit images after turning on the machine.
2. Event LED: The green LED flashes when motion or alert detection is implemented after you turn on the machine.

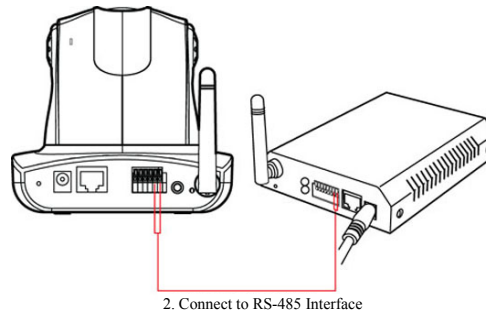


Hardware Installation

1. Select the installed place

This product can be installed on any convenient flat surface, or concealed in a ceiling etc. .

(Note: Please do not install in an enclosed unventilated space. Doing so might cause abnormal operation for the product.)



2. Connect to the RS-485 interface

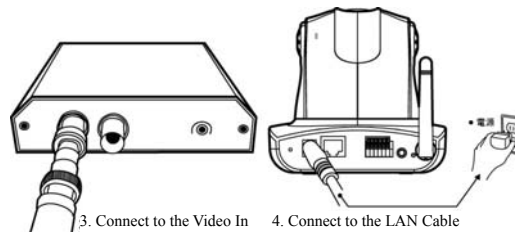
Plug one end of your control cable in the RS-485 socket on the back of the camera and connect the other end to your product.

3. Connect to the Video In

Plug one end of the video source of your analog camera and connect the other end to your product.

4. Connect to the power source for your camera

Plug one end of the attached power cable in the power socket of your camera and connect the other end to the AC power source. (Note: Make sure your analog camera uses BNC connectors for the video in/out. If not, please check with your dealer or retailer.)

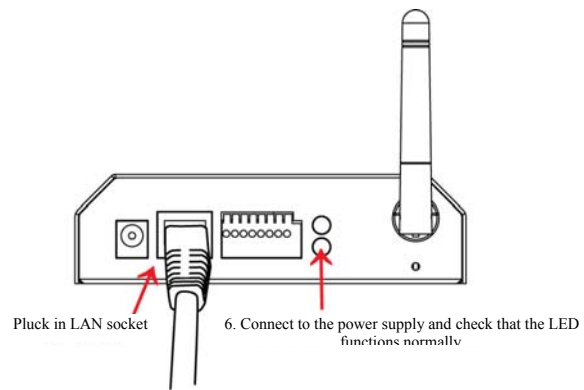


5. Connect to the LAN cable

Plug one end of your LAN cable in the LAN socket on the back of the product and connect the other end to the network that you want to access to.

6. Connect to the power source

Plug one end of the attached power cable in the power socket of the product and connect the other end to the AC power source.



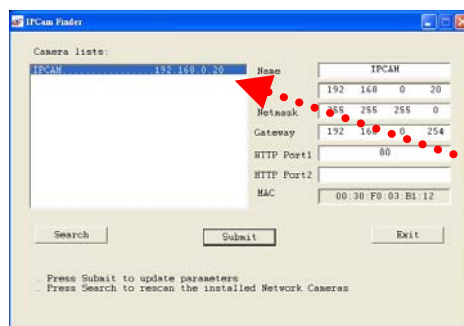
Note :

You can specify three LED statuses by setting: 1.ON; 2.OFF; 3.Flash. For more information about setting of LED status, refer to the "System Setting".

Camera Settings

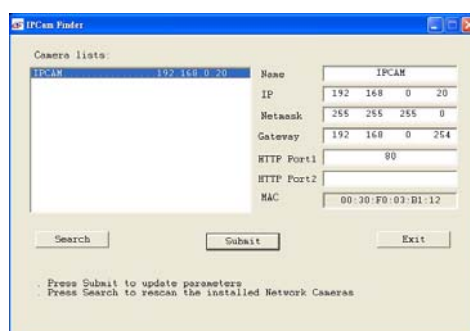
After the hardware has been installed, insert the supplied CD in the computer and execute the file IP FINDER.EX following the steps below to search for and change the IP address of the video server.

1. Start the machine.
Execute the IP Finder.exe from the supplied CD.
2. Find the camera (Search)
Search the product from your LAN. The factory IP setting 192.168.0.20 appears on the screen.



1. Click Search to find the Video Server on the LAN.

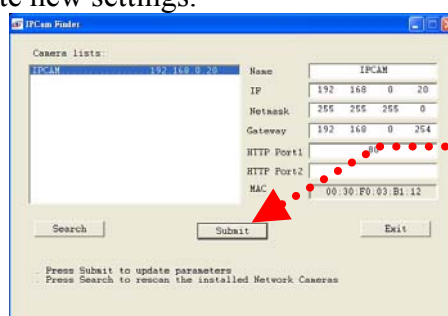
3. Changing the IP address and related settings for the network environment
When you find the camera, click it and the settings will appear on the right side.
Change the settings for the new network environment you need.



2. Enter the settings for the new network environment you need.

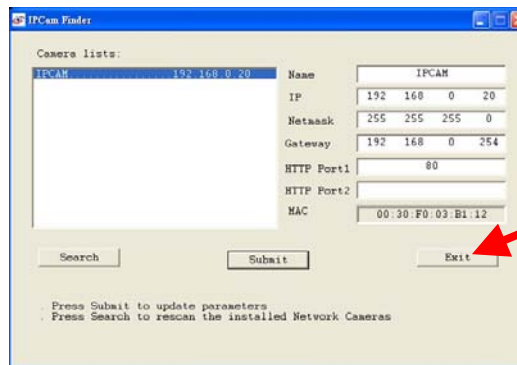
※ You must enter new settings in the IP, Netmask and Gateway fields and keep the settings in other fields unchanged.

4. Submit data (Submit)
Click Submit to validate new settings.



3. Click Submit to validate new settings.

5. Confirmation
When all changes have been confirmed, click Exit to quit.



4. When all changes have been confirmed, click Exit to quit.

Notes:

1. The IP FINDER can only find the IP addresses of a video server that shares the same hub on the LAN. For information about finding IP addresses on the Internet, refer to the “DDNS Setting”, or “UpnP Setting”.
2. All UIC camera/network server products can be found and changed using the IP FINDER software.
3. If the IP FINDER software cannot be executed, check your antivirus software or firewall to remove the block.
4. Field description: You can give a name to your camera (such as “PT_IP” or “PT-IP”). No spaces allowed (such as “PI IP”).

You can change the settings for IP, Gateway Address and Network Mask to meet the requirements of your network environment. The product uses HTTP Port1 and does not support Port2 settings.

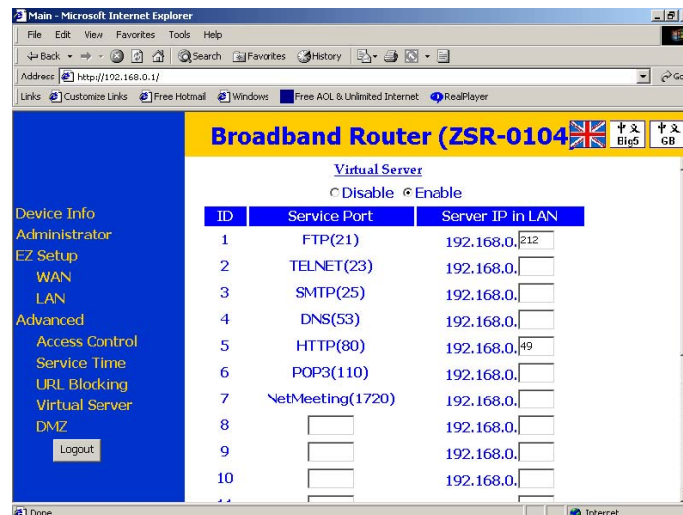
MAC: Factory default network identity of the machine.

Camera Setting from a Router

You can use DHCP when you want to use the video server on the Intranet (LAN). However, the IP must fixed when you want to use the product on a WAN. For this application, it is required to set up a virtual server on the ADSL router. Follow the steps below to complete the setting:

1. Enter the product setting page to set a fixed IP. (Refer to the “Network Setting”.)
Ex.: 192.168.0.49
2. Enter the ADSL router main setting page. Ex.: Zonet ADSL router
3. Enter the Virtual Server setting page.
 - a. Set “mapping of *HTTP Port (80)* to *192.168.0.49*”.
 - b. Restart ADSL router.

After completing the settings, you can operate the product from a WAN IP Address via the ADSL router.



The Virtual Server setting screen of the Zonet ADSL router

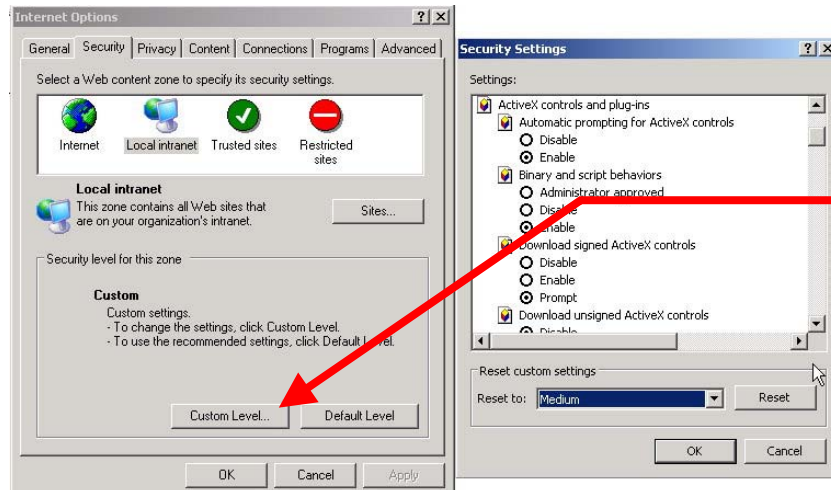
Note: The virtual server setting screen is not the same for all ADSL routers. Refer to the manual of the ADSL router you purchased for more information about the setting.

Change the Internet Explorer Setting

This product uses ActiveX Control to play images and sound on your PC. The ActiveX Control application software will be downloaded to your PC when you connect it to the Internet. To ensure successful download of the software, the Internet Explorer "security settings" must be changed accordingly. Make sure that the security level is set to **Level II**, the commonly used default security level.

Steps:

Open the IE browser → Tools → Internet Options → Security → Custom Level

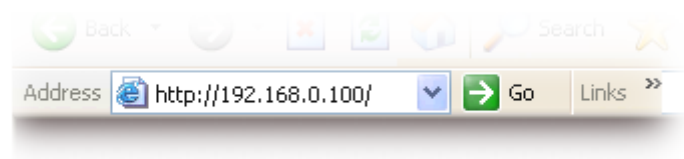


Check the security setting

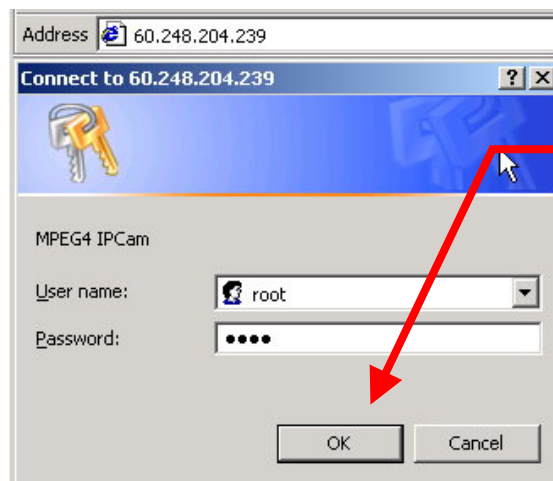
Note: This product supports IE 6.0 or above.

Enter the Main Page

1. Open the IE browser and key in the IP address of the product.



Key in the IP address of the video server



When the login screen appears, key in "root" in the User Name and Password fields. Click OK.

Camera login screen

2. Key in the default “username” and “password”.

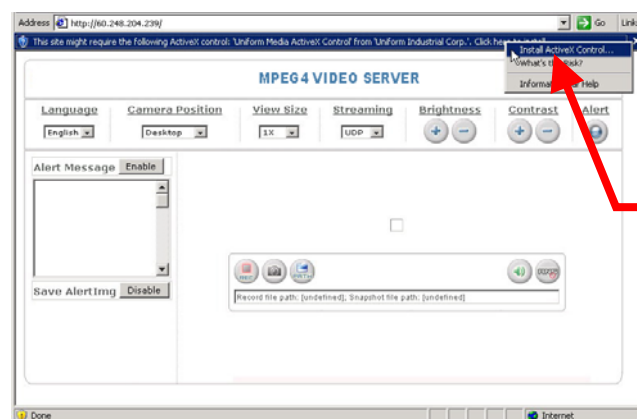
Default Nser Name: **root**

Default Password: **root**

You can access the product as an administrator by default and set up for other users or privileges from the “Basic Settings” -> “User”.

3. Installation of Internet Explorer ad-hoc components

When the username and password are confirmed, a control setup screen pops up under the IE address bar. Click “Install ActiveX Control” to install the controls.



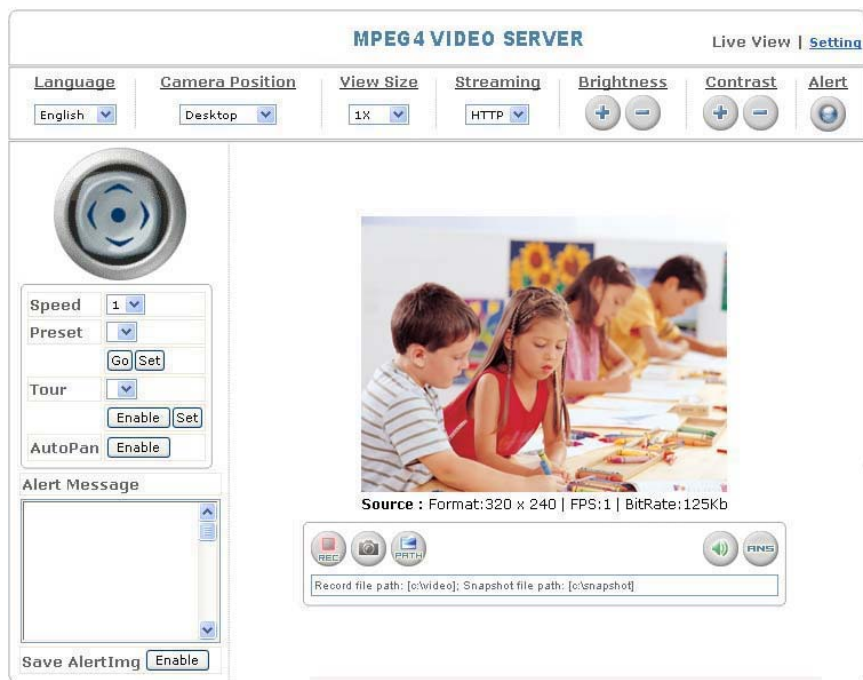
Click “Install ActiveX Control”.

Setup prompt screen

4. The security warning screen appears. Click "Install".
The ActiveX Control is named "UIC ActiveX Control". This software is owned by UIC and well certified. You can use it without any doubts about its validity.



5. When ActiveX Control is installed successfully, you will see the camera image and interface.



Camera main page and image

Camera Main Page

Descriptions:

Source: Information bar

1. Format: resolution of the current video stream
2. FPS: Frames Per Second of the current video stream
3. BitRate: bandwidth per second of the current video stream

Brand Logo – Click to access the latest information from our website.

Product name

Image area

Attention: Please change the streaming setting to HTTP if nothing appears in the image area.

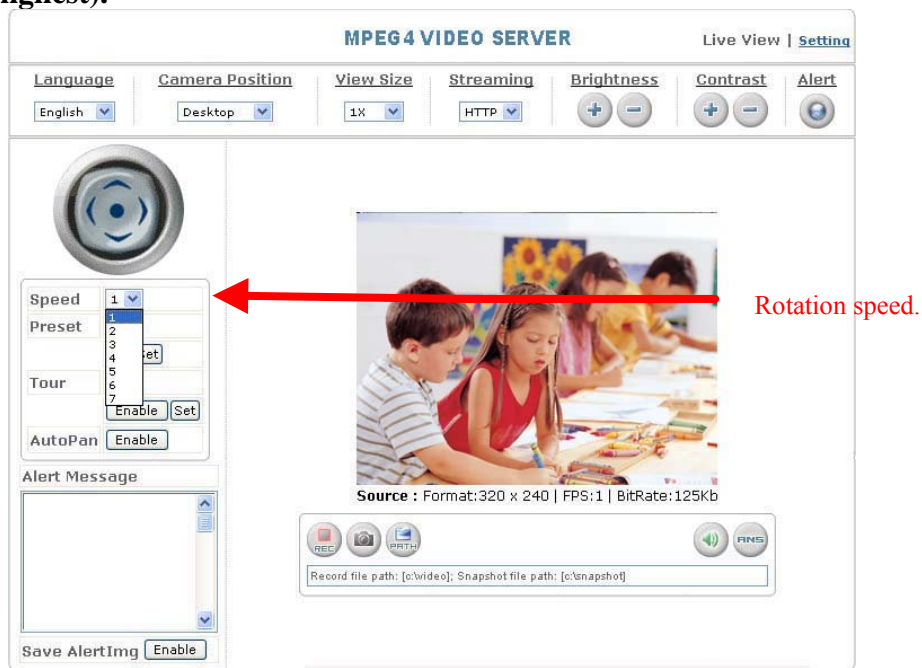
Control panel

All camera/network server products using Pelco-D, Pelco-P, A-linking and UIC drivers can be controlled using the UVS-7111 Video server. For more information, please go to our website.

1. **Camera direction:** controls the direction of the camera (up, down, left, right, home position).



2. **Camera speed:** controls the rotation speed of the camera from “1” (lowest) to “7” (highest).



Speed	1	2	3	4	5	6	7
Angle/Sec.	3	20	40	60	80	100	120

3. Preset: presets the rotation points for the camera (16 points)

1. Click Set to enter the Preset Setting screen.

2. Enter the name of the location.

3. Control the camera direction.

4. Click Update to exit.

5. Select the number you need and click Go. The camera moves to the area automatically as set up by the selected number.

The screenshot shows the MPEG4 VIDEO SERVER interface. The main window has a title bar 'MPEG4 VIDEO SERVER' and a 'Live View | Setting' link. Below the title bar are tabs for 'Language', 'Camera Position', 'View Size', 'Streaming', 'Brightness', 'Contrast', and 'Alert'. The 'Camera Position' tab is active, showing a 'Desktop' dropdown and a '1X' zoom level. The 'Streaming' tab shows 'HTTP'. The 'Brightness' and 'Contrast' tabs have '+' and '-' buttons. The 'Alert' tab has a 'Set' button. The main area shows a camera view of a child. On the left, there are controls for 'Speed' (1), 'Preset' (dropdown), 'Go' (button), 'Tour' (dropdown), 'Enable' (button), 'Set' (button), 'AutoPan' (button), 'Alert Message' (text area), and 'Save AlertImg' (button). A 'Preset Setting' dialog box is open, showing a 'Preset List' table with columns 'No' and 'Name'. Below the table are fields for 'Location Name' and 'Location Number' (1-16). The 'Location Number' dropdown is open, showing numbers 1 through 16. The dialog box has buttons for 'Update', 'Remove', 'Preset', and 'Exit'. A red arrow points to the 'Set' button in the main interface, and another points to the 'Update' button in the dialog box. A third arrow points to the 'Go' button in the main interface, and a fourth points to the 'Preset' button in the dialog box. A fifth arrow points to the 'Location Number' dropdown menu.

4. Tour: enables/disables the tour mode of the camera.

The rotation points of the camera must be set up in advance.

The screenshot shows the 'MPEG4 VIDEO SERVER' interface. On the left, there's a 'Camera' section with a 'Speed' dropdown (set to 1), a 'Preset' dropdown, and a 'Tour' dropdown. Below these are 'Go' and 'Set' buttons, and an 'AutoPan' section with an 'Enable' button. At the bottom left is an 'Alert Message' box and a 'Save AlertImg' button. The main window is titled 'http://60.248.204.239 - User Setting - Microsoft Internet Explorer' and contains the 'Tour Setting' form. This form includes a 'Tour List' section with 'Tour No' (1) and 'Tour Name'. Below is a 'Tour Dwelling' field (3). The main part of the form is a table of 'Tour Sequence' settings (1-16), each with a 'none' dropdown. At the bottom of the form are 'Update', 'Reset', and 'Exit' buttons. Red arrows and numbered instructions are overlaid on the image:

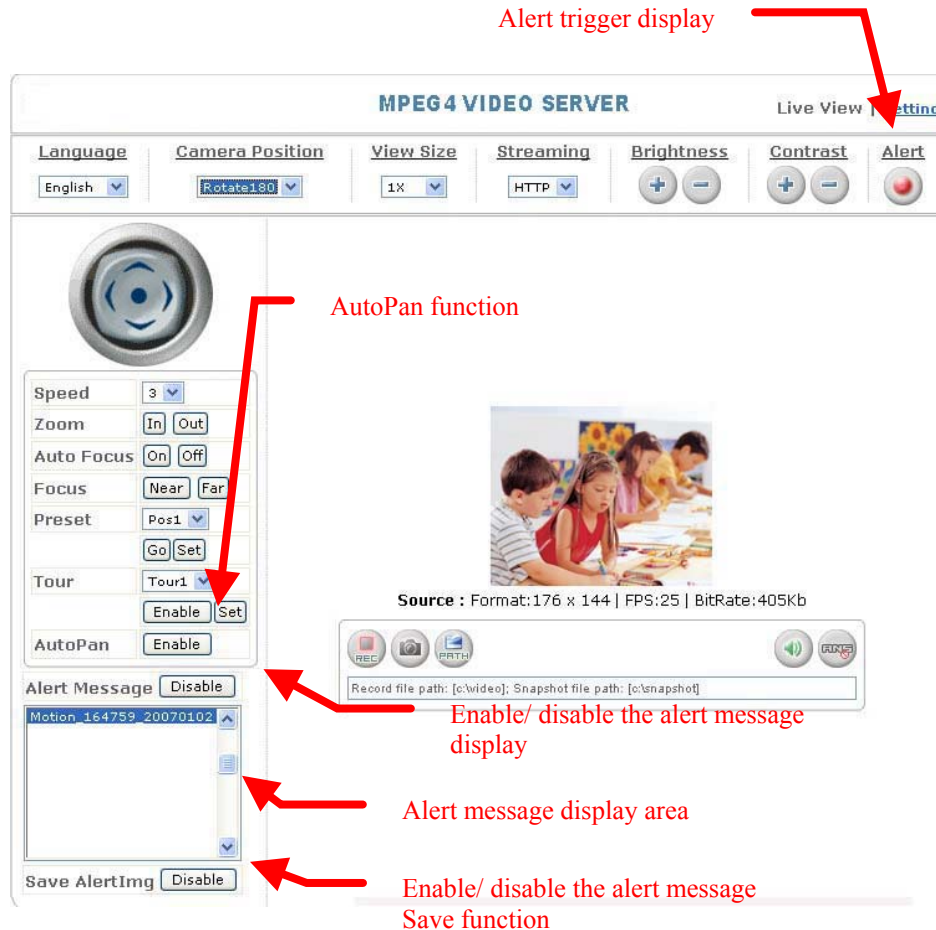
1. Click Set to enter the Tour Setting screen. (Points to the 'Set' button in the 'Go/Set' area.)
2. Name the tour. You can set up 5 tour groups at maximum. (Points to the 'Tour Name' field.)
3. Dwelling time (sec.) at each tour point. (Points to the 'Tour Dwelling' field.)
4. Select a preset location for the camera. (Points to the 'Tour Sequence 1' dropdown.)
5. Click Update to Exit. (Points to the 'Update' button.)
6. Click Enable to activate the tour function. (Points to the 'Enable' button in the 'AutoPan' section.)

5. AutoPan: enables/disables AutoPan.

You can enable the AutoPan function to make the camera automatically move back and forth horizontally. Disable the AutoPan function to stop the scan.

6. Alert: displays alert trigger

This indicator flashes to warn you when a movement or alert is detected. Click to stop the flash.



7. Alert Message: enables/disables the alert message display.

Alert Message: displays the alert message. Press Enable/Disable to enable or disable the alert display message. When this function is disabled, the alert message will not be displayed.

Save AlertImg: saves the alert message. Press Enable/disable to enable or disable the save of the alert image in the Snapshot directory. When the Save AlertImg function is enabled, double-click it to show the alerted image. A message appears whenever an alert is triggered (50 messages at maximum). The message disappears when you quit the screen. (For more information about this setting, refer to the Setting/Application Setting/Event/Event.)

8.8. Language: selects a UI language

Four languages are available: English, Simplified Chinese, Traditional Chinese and Japanese.



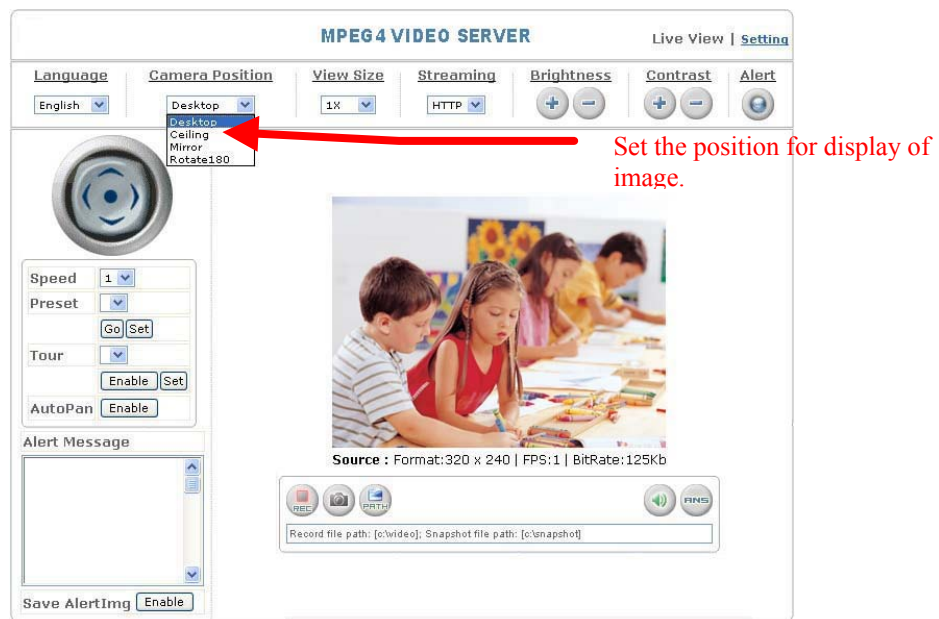
8. Camera Position: sets the position for display of the image

Desktop: Normal image (displays on the desktop; default value)

Ceiling: Upside-down image

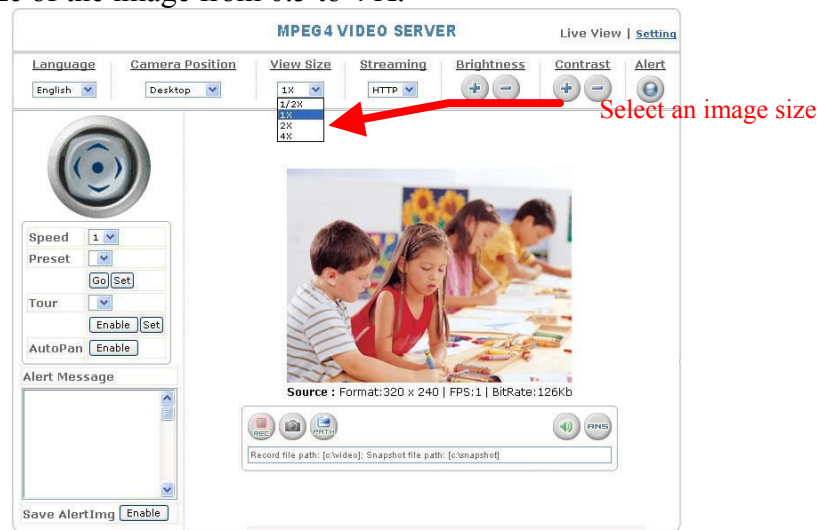
Mirror: Mirror image

Rotate 180: Mirrored and upside-down.



9. View Size: selects the size of the image

Select the size of the image from 0.5 to 4 X.



10. Streaming: sets the video stream protocol (HTTP is recommended)

This product provides three different video streaming protocols: UDP, TCP, and HTTP. HTTP is recommended because it allows the video stream to go through the firewall. (Refer to Setting/Basic Setting/Network/Streaming for more information).

UDP: provides the fastest but most unreliable transmission service. Video streams are transmitted through UDP Port (50000~60000 by default) to ensure the fastest image transmission. However, video fragment or mosaics may occur due to poor transmission quality.

TCP: provides reliable data transmission. Video streams are transmitted through RTSP Port (554 by default) to avoid video fragment or mosaics due to poor transmission quality.

HTTP: video streams are transmitted through HTTP Port (80 by default) to ensure passing through firewalls.



11. Brightness: adjusts video brightness / Contrast: adjusts video contrast

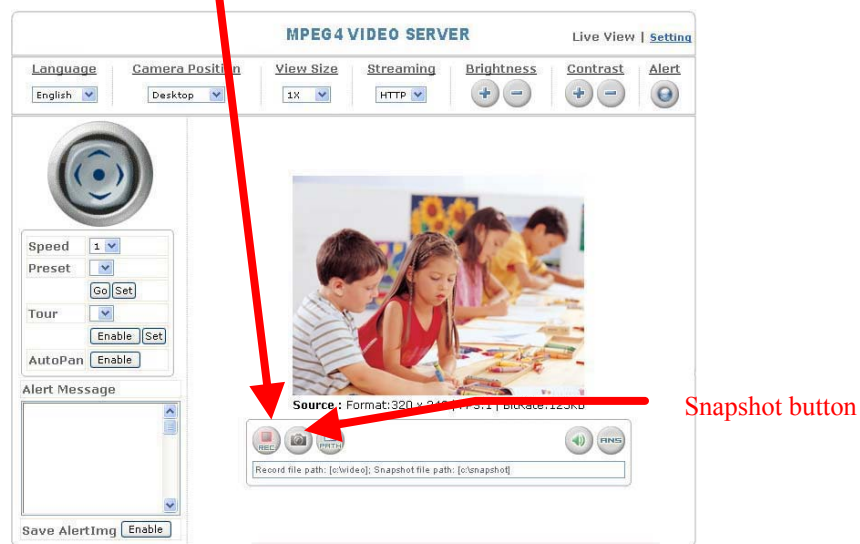
Press + (increase) or - (decrease) from the setting window to adjust the brightness or contrast of the image.



12. REC: executes the video recording function

Click this button to start video recording and save the image file in the preset directory (C:\video). A red mark appears at the bottom left corner of the image when the recording function is running.

Recording button



13. Snapshot: executes the snapshot function

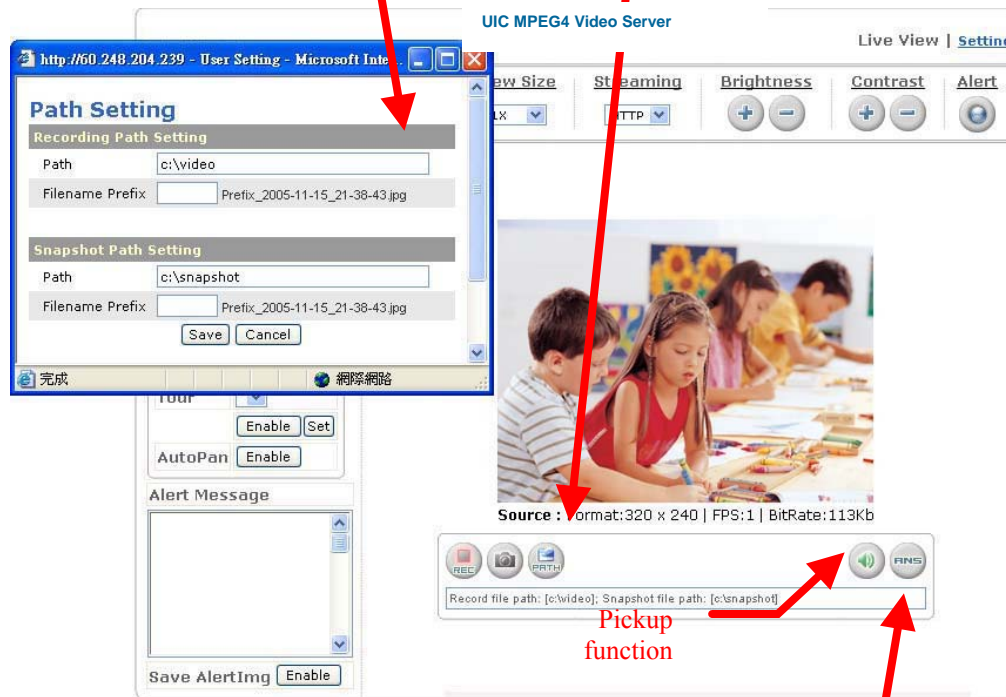
Click this button to capture an image and save it to the preset directory. (C:\snapshot).

14. Path: sets the save path and name for recorded images and snapshots.

The filename is the recording date by default. You can identify the file by prefix of the filename.

Click the Path field to select the folder to save the file.

Save the path



Pickup function

Automatic Noise Suppression system

15. Audio On/Off: turns on/off the pickup function

This function is only effective when the product is connected to a microphone. Please use a Studio microphone (power type) for best effect.

Click the button to mute the sound from the microphone. A cross-out mark appears on the speaker icon to indicate the mute status.

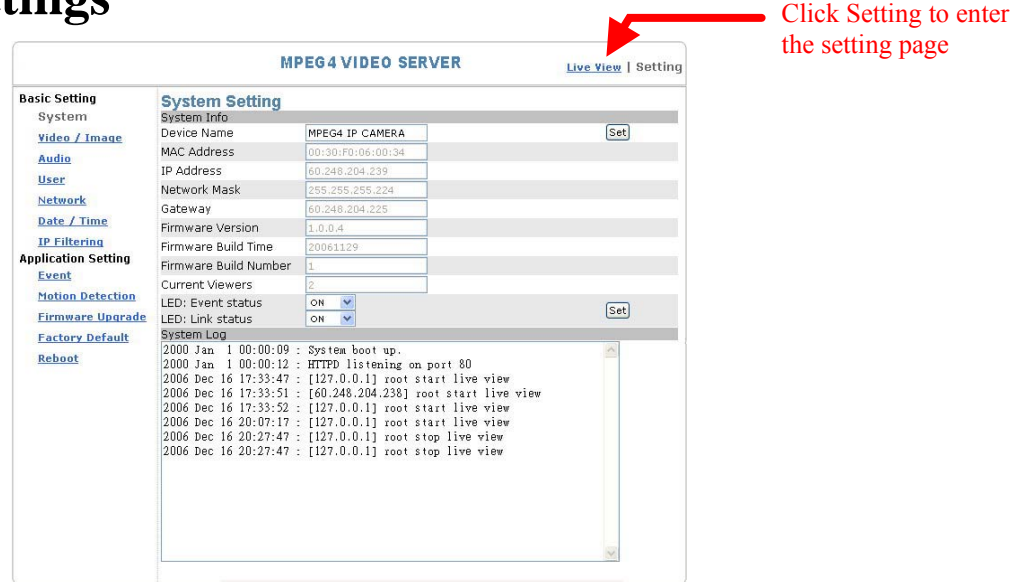
16. ANS: Automatic Noise Suppression system. (The ANS function is enabled by default and it is recommended to keep this function enabled.)

This function can suppress background noise around the camera (such as regular fan noise). Click the button to disable the ANS function. A cross-out mark appears on the ANS icon to indicate the noise suppression status.

System Settings

System setting contains basic and application settings. The basic setting is executed for basic system information, transmission speed, audio/video code, user authorization, date/time, and IP filter, while the application setting is executed for event triggering definition and other relevant settings, definition of the motion detection area, firmware update, reset to factory default, and reboot.

Basic Settings



Basic Setting > System (System info)

■ Basic Setting > System > System Info

Device Name: You can set the name for your product here. Click **Set** to complete the setting.

MAC Address, IP Address, Network Mask, Gateway: Network information.

Firmware: Firmware version information.

Current Viewers: The number of viewers who are currently accessing the video stream.

LED: Event status: You can set the LED display mode (ON, OFF, Flash) here.

ON: The LED flashes when any motion detection or alert trigger is identified.

OFF: LED is turned off.

Flash: LED flashes according to the user-defined interval.

LED: Link status: You can set the LED display mode (ON, OFF, Flash) here

ON: The LED lights up green when a video stream is detected. Otherwise, it does not activated.

OFF: LED is turned off.

Flash: LED flashes according to the user-defined interval.

■ Basic Setting > System > System Log

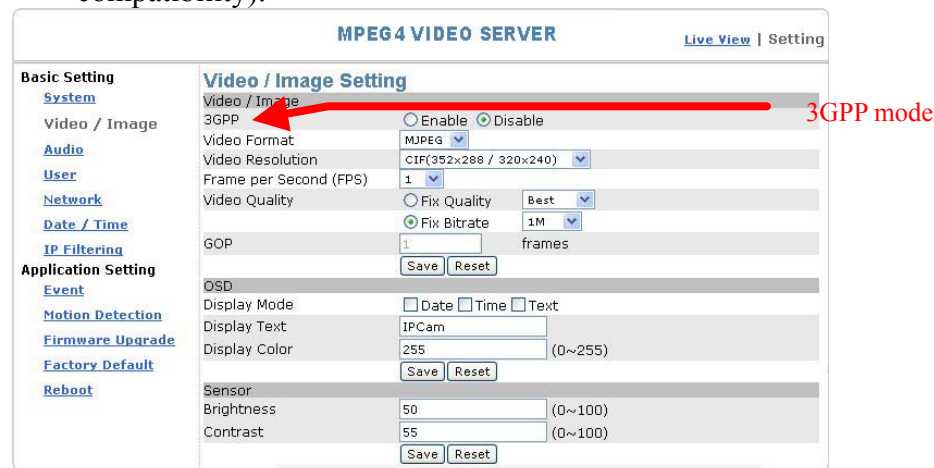
The administrator can view all login information of this product, including boot record, video streaming mode, login IP, changes, and the date/time information. You can copy the entries to a Word document and save them manually. Please note that all information is deleted when you turn off the machine.

Basic Setting > Video/Image

Basic Setting > Video Image > Video Image

■ Basic Setting > Video / Image > Video Image > 3GPP

To view the product image using a 3G cellular phone, click Enable to enable the 3GPP mode. (Note: When the 3GPP mode has been activated, all relevant parameters are set automatically and cannot be changed. This is for the sake of compatibility).

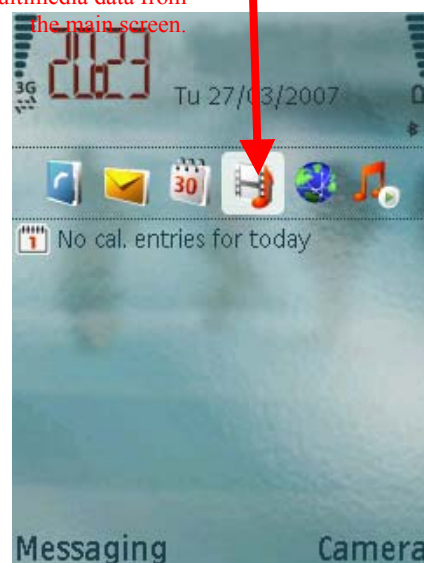


To use the 3GPP function, the following requirements must be met. Contact your telecom company to learn more about the connection conditions):

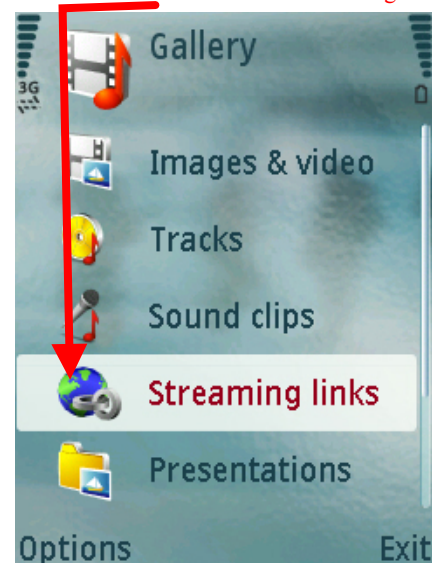
1. 3G phone: Your cellular phone functions properly and supports 3G service.
The compatible cellular phones that have passed our test are: Nokia 6630, Nokia N73, Wibo WinII, Nokia E61, Nokia N70, Nokia N93
2. 3G phone number is available.
3. The 3G wireless networking service is available.
4. The product has a fixed IP address.
5. The 3GPP mode is activated.

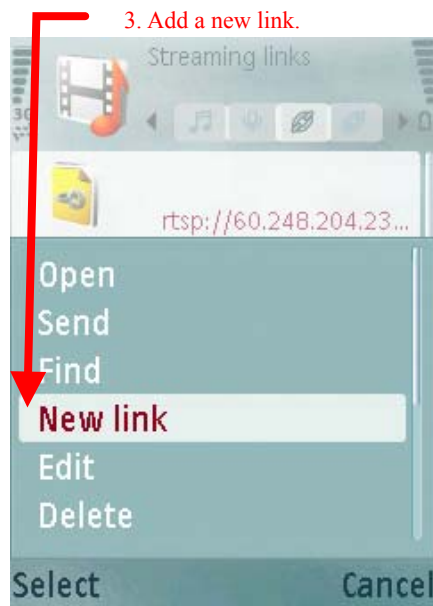
Ex: Nokia N71. Follow these steps to set up your 3G viewing function.

1. Enter multimedia data from the main screen.



2. Select a streaming link





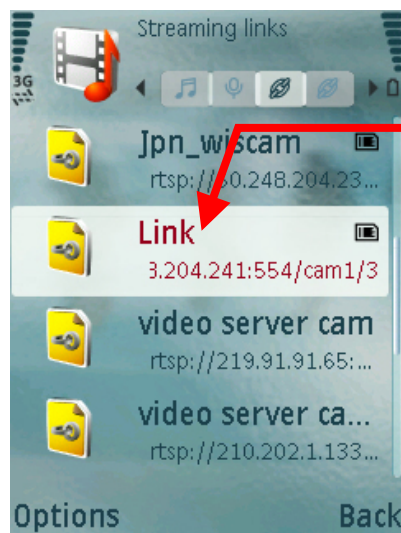
3. Add a new link.



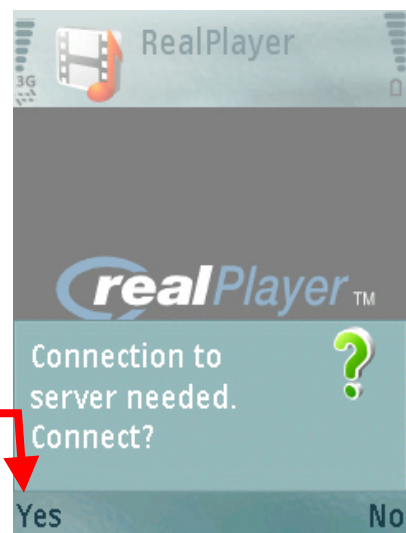
4. Enter the link name.

6. Select OK to save the setting.

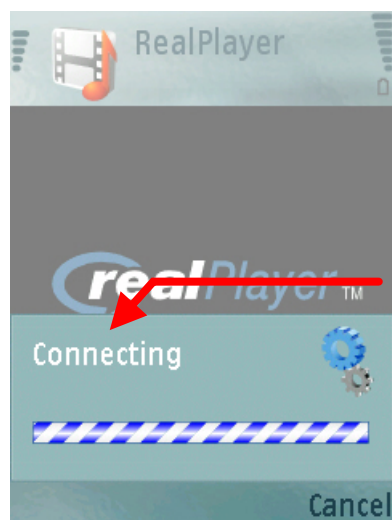
5. Enter the IP address of the camera, e.g. rtsp://xxx.xxx.xxx.xxx:554/cam1/3gpp



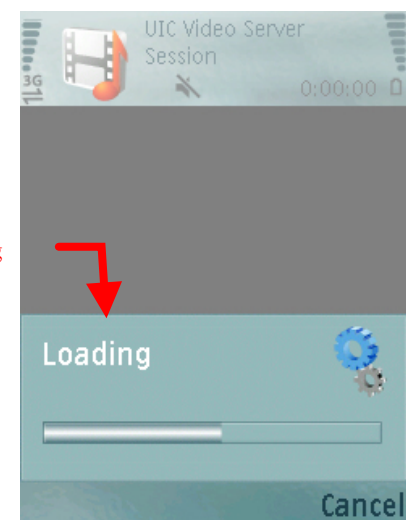
7. Select this stream name to proceed with linking.



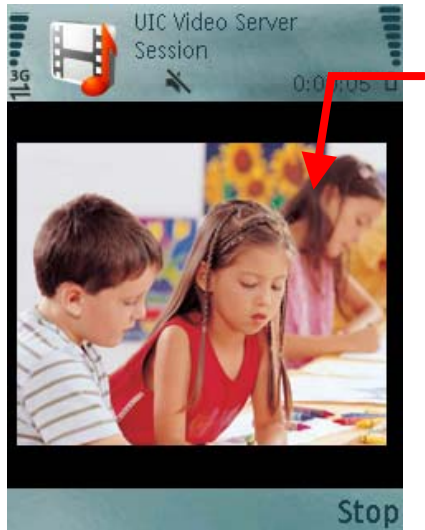
8. Select "Yes" to connect.



9. Connecting.



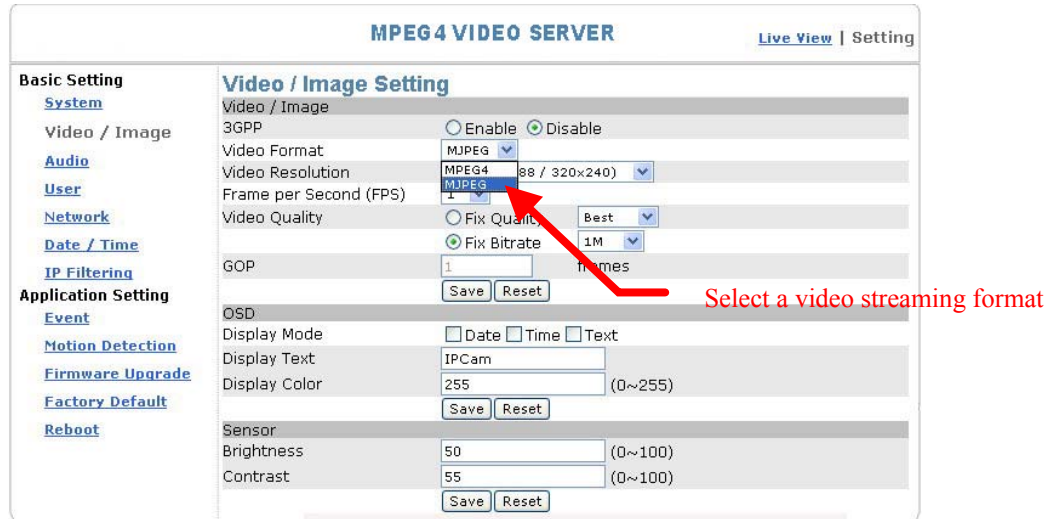
10. Loading the image.



11. Video stream screen .

■ Basic Setting > Video / Image > Video Image > Video Format

You can select MPEG4 or MJPEG as the video format. It is recommended to select MPEG4 for real-time browsing to optimize the bandwidth. MJPEG is a good choice for the best resolution when video recording is required for collection of evidence.



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Video / Image Setting

Video / Image: ☐ Enable ☒ Disable

Video Format: **MJPEG** (dropdown menu open showing MJPEG, MPEG4, MJPEG)

Video Resolution: **384 / 320x240** (dropdown menu)

Frame per Second (FPS): **1** (dropdown menu)

Video Quality: ☐ Fix Quality ☒ Fix Bitrate

Fix Bitrate: **Best** (dropdown menu)

1M (dropdown menu)

GOP: **1** (dropdown menu)

Save **Reset**

OSD

Display Mode: ☐ Date ☐ Time ☐ Text

Display Text: **IPCam** (dropdown menu)

Display Color: **255** (0~255)

Save **Reset**

Sensor

Brightness: **50** (0~100)

Contrast: **55** (0~100)

Save **Reset**

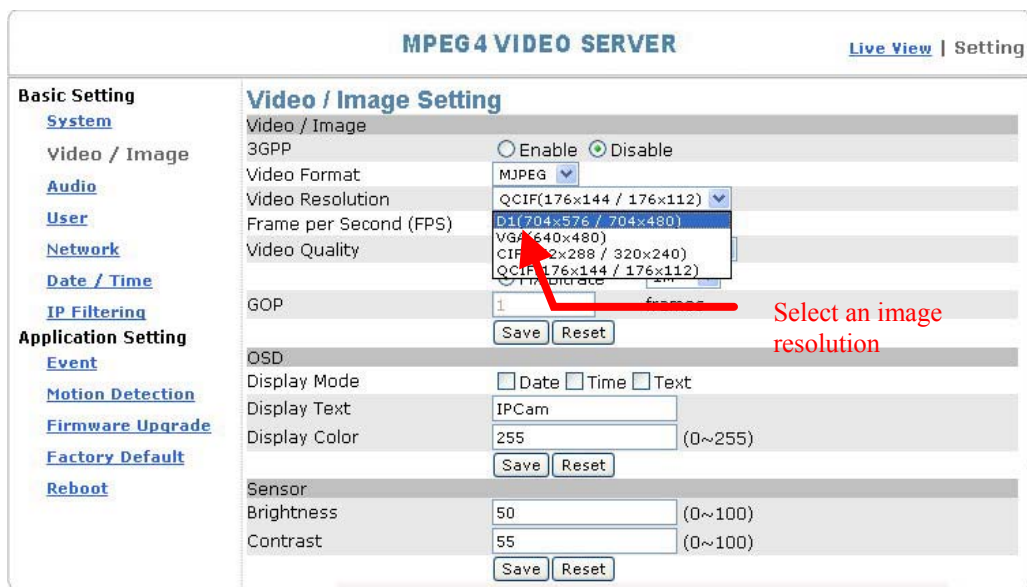
Select a video streaming format

■ Basic Setting > Video / Image > Video Image > Video Resolution

Generally speaking, selection of resolution is dependent on the bandwidth of the network you are using. This product offers different selections for video/audio settings. However, to ensure uninterrupted image transmission, you need a higher uploading bandwidth. Generally, it is recommended to use CIF resolution for normal bandwidth. To meet other requirements, refer to Attachment B for more information.

The product offers 4 image resolutions (PAL/NTSC):

1. D1 (704x576 / 704x480)
2. VGA (640x480)
3. CIF (352x288 / 352x240)
4. QCIF (176x144 / 176x112)



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Video / Image Setting

Video / Image: ☐ Enable ☒ Disable

Video Format: **MJPEG** (dropdown menu)

Video Resolution: **QCIF(176x144 / 176x112)** (dropdown menu open showing QCIF(176x144 / 176x112), D1(704x576 / 704x480), VGA(640x480), CIF(352x288 / 352x240), QCIF(176x144 / 176x112))

Frame per Second (FPS): **1** (dropdown menu)

Video Quality: ☐ Fix Quality ☒ Fix Bitrate

Fix Bitrate: **Best** (dropdown menu)

1M (dropdown menu)

GOP: **1** (dropdown menu)

Save **Reset**

OSD

Display Mode: ☐ Date ☐ Time ☐ Text

Display Text: **IPCam** (dropdown menu)

Display Color: **255** (0~255)

Save **Reset**

Sensor

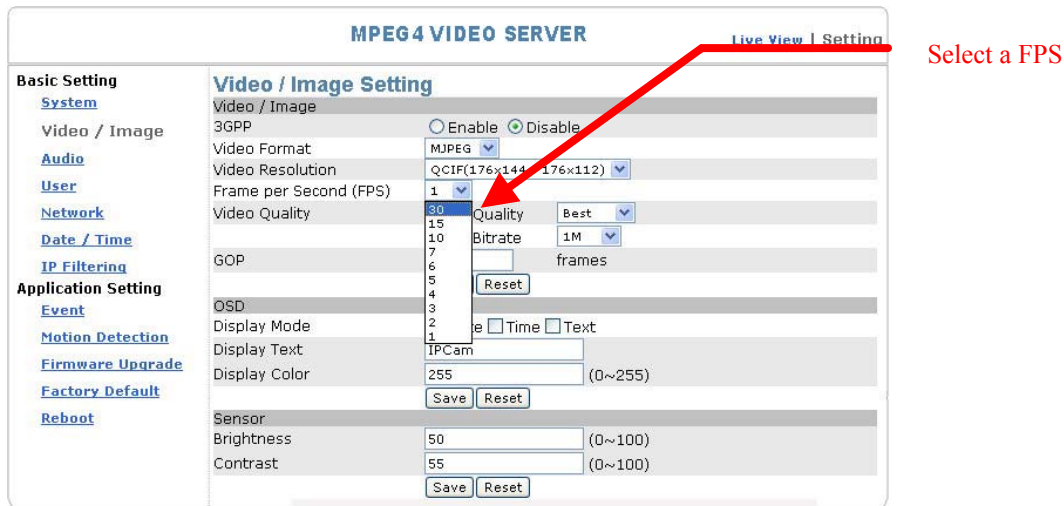
Brightness: **50** (0~100)

Contrast: **55** (0~100)

Save **Reset**

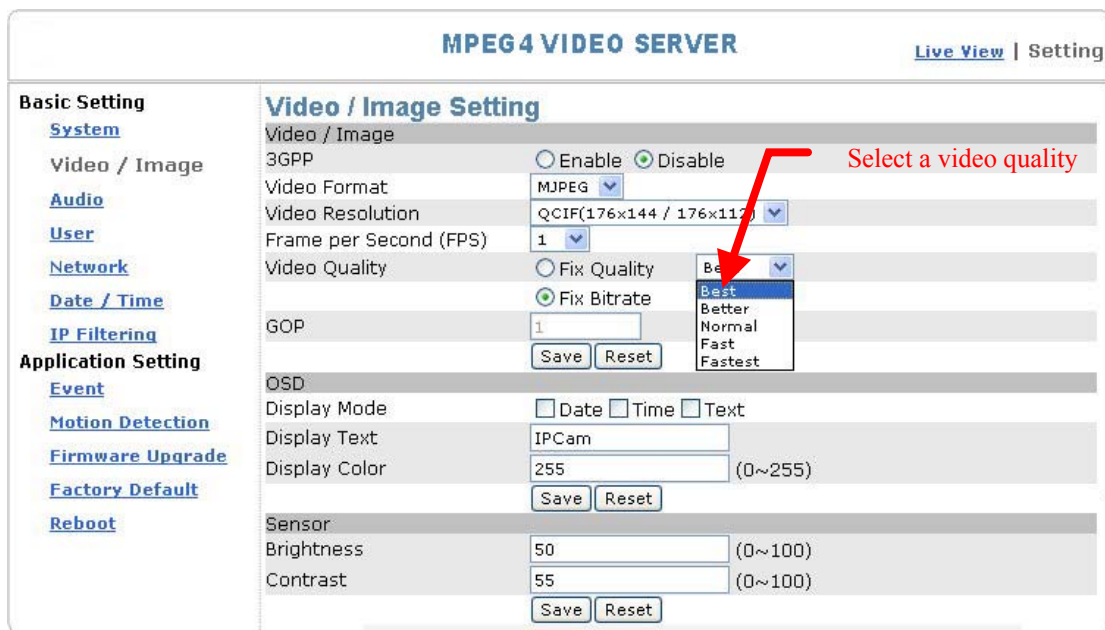
Select an image resolution

- **Basic Setting > Video / Image > Video Image >Frame per Second (FPS):**
With NTSC, you can choose 30, 15, 10, 7, 6, 5, 4, 3, 2, or 1 for video resolution
With PAL, you can choose 25, 12, 6, 5, 4, 3, 2, 1 for video resolution.



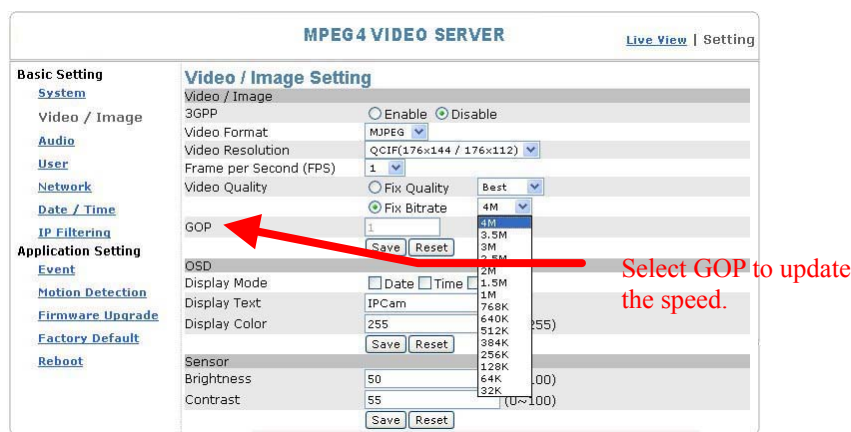
The screenshot shows the 'MPEG4 VIDEO SERVER' interface. On the left is a sidebar with 'Basic Setting' and 'Application Setting' sections. The main area is 'Video / Image Setting'. Under 'Video / Image', '3GPP' is disabled. 'Video Format' is MJPEG. 'Video Resolution' is QCIF(176x144 / 176x112). The 'Frame per Second (FPS)' dropdown is open, showing a list from 1 to 30. A red arrow points to the number 30. To the right of the FPS dropdown, there are 'Quality' and 'Bitrate' dropdowns, both set to 'Best' and '1M' respectively. Below these are 'GOP' (set to 1) and a 'Reset' button. Further down are 'OSD' settings for 'Display Mode' (Time and Text checked), 'Display Text' (IPCam), and 'Display Color' (255). At the bottom are 'Sensor' settings for 'Brightness' (50) and 'Contrast' (55), each with a 'Save' and 'Reset' button.

- **Basic Setting > Video / Image > Video Image >Video Quality**
You can select Fix Quality (resolution priority) or Fix Bitrate (fluency priority) at the same bandwidth.
Five options are available for your choice: Best, Better, Normal, Fast, and Fastest.



This screenshot is similar to the previous one, but the 'Video Quality' dropdown menu is open instead of the FPS menu. It shows five options: 'Best' (highlighted by a red arrow), 'Better', 'Normal', 'Fast', and 'Fastest'. The 'Fix Bitrate' radio button is selected. The 'GOP' is set to 1. The 'OSD' settings and 'Sensor' settings remain the same as in the previous screenshot.

16 transmission speeds ranging from 32K to 4M are available in the Fix Bitrate mode. The higher the transmission speed, the better the quality and fluency.



GOP provides users with the function to set the pages of the I Frame and P Frame to be transmitted in the MPEG4 mode. Basically, the I Frame page contains the entire picture and needs higher bandwidth, while the P Frame page only contains the parts that are different from the I Frame and need lower bandwidth. Hence, when you need to transmit the pages without disruption in a normal network environment, you can set up a higher GOP. For example, if GOP 25 is selected, 24 P Frame pages will follow 1 I Frame page, and so forth. However, packets may be lost when they are transmitted in a congested network environment. In this case, the following P Frame pages may bring about disruption of the transmission because they lose the reference upon which the difference from the I Frame is identified. You may change GOP to 10 with this concern to avoid disruption of the transmission. The GOP is 15 by default.

Basic Setting > Video Image > OSD

You can set to display the date, product name and other information on the screen.

- **Basic Setting > Video Image > OSD > Display Mode**
You can select to display the date (Date), time (Time) or text (Text).
- **Basic Setting > Video Image > OSD > Display Text**
You can key in the text to be displayed on the screen (Ex.: Lobby IP Cam)
- **Basic Setting > Video Image > OSD > Display Color**
256 colors and tones from 0 (deepest black) to 255 (lightest white) are available for display of the text.

Basic Setting > Video Image > Sensor (brightness/contrast adjustment)

You can adjust the brightness and contrast here.

- **Basic Setting > Video Image > Sensor > Brightness**
You can adjust the brightness from 0 (darkest black) to 100 (brightest white).
- **Basic Setting > Video Image > Sensor > Contrast**
You can adjust the contrast from 0 (max. contrast) to 100 (min. contrast)

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Video / Image Setting

Video / Image

3GPP ☐ Enable ☒ Disable OSD setting

Video Format MJPEG

Video Resolution CIF(352x288 / 320x240)

Frame per Second (FPS) 1

Video Quality ☐ Fix Quality Best

☒ Fix Bitrate 1M

GOP 1 frames ←

OSD

Display Mode ☐ Date ☐ Time ☐ Text

Display Text IPCam

Display Color 255 (0~255) ← Brightness/contract adjustment

Sensor

Brightness 50 (0~100) ←

Contrast 55 (0~100) ← Date, time, and text display



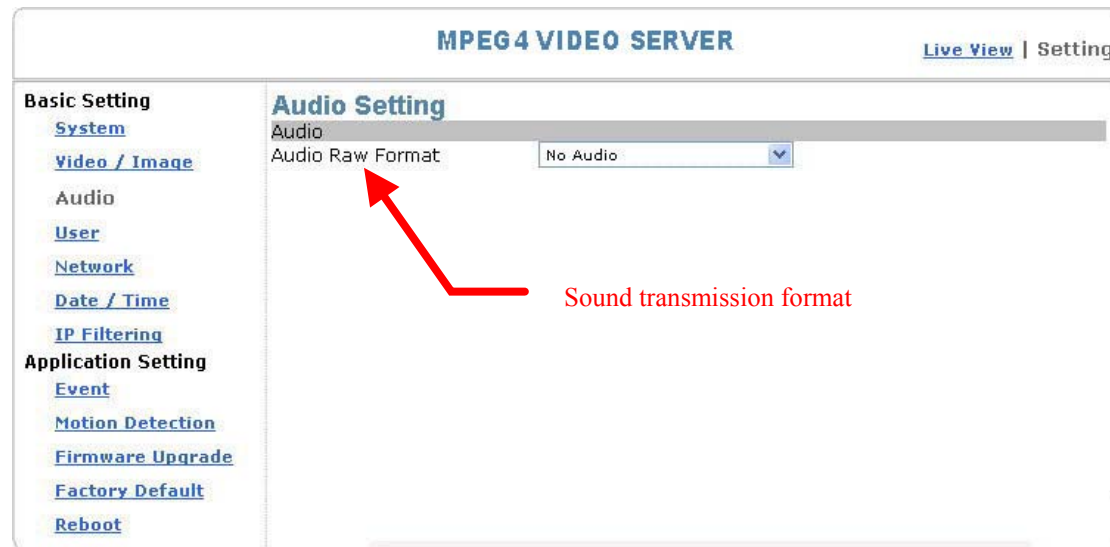
Source : Format:352 x 288 | FPS:25 | BitRate:520Kb

Basic Setting > Audio (Sound)

Basic Setting > Audio > Audio (sound setting)

■ **Basic Setting > Audio > Audio > Audio Raw Format**

You can select No Audio or PCM. When you select No Audio, the sound transmission from the microphone pauses. When you select PCM, the sound transmission resumes. The factory default is PCM.



Basic Setting > PTZ

Basic Setting > PTZ > PTZ



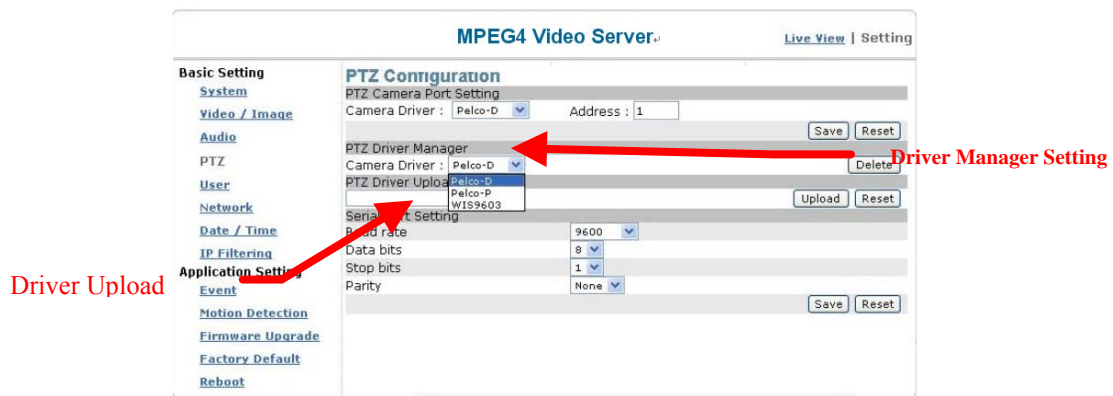
■ **Basic Setting > PTZ > PTZ > PTZ camera Port Setting**

This product supports the PTZ control of those analog PTZ cameras use the drivers of Pelco-D, Pelco-P and A-Linking. Refer to the user manual of your PTZ cameras, and you will know which driver to select. Moreover, select the serial number (address) of the targeted PTZ camera for controlled setting. (Note: RS-485 can cascade numbers of cameras that use same driver. You can control the pan, tilt and zoom of your targeted camera by connecting to the video server control panel through RS-485).



Basic Setting > PTZ > PTZ Driver Manager

In the Camera Driver column, list all the drivers that are installed in the video server. Select "Delete" to eliminate any selected driver.

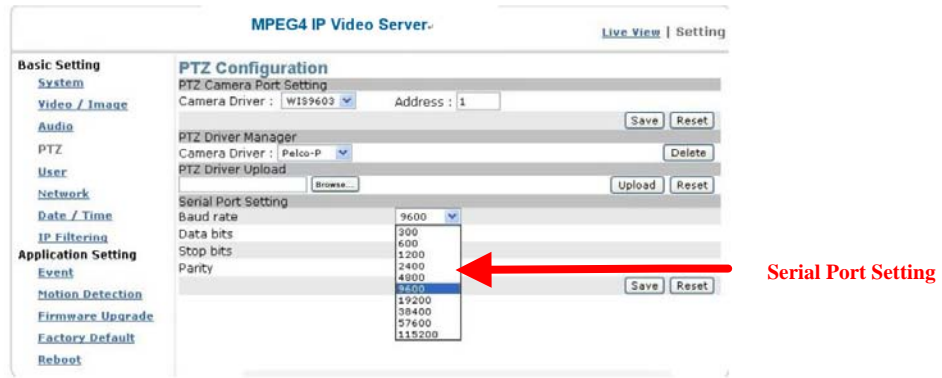


Basic Setting > PTZ > PTZ Driver Upload

Upload other drivers from our website for support of more cameras.

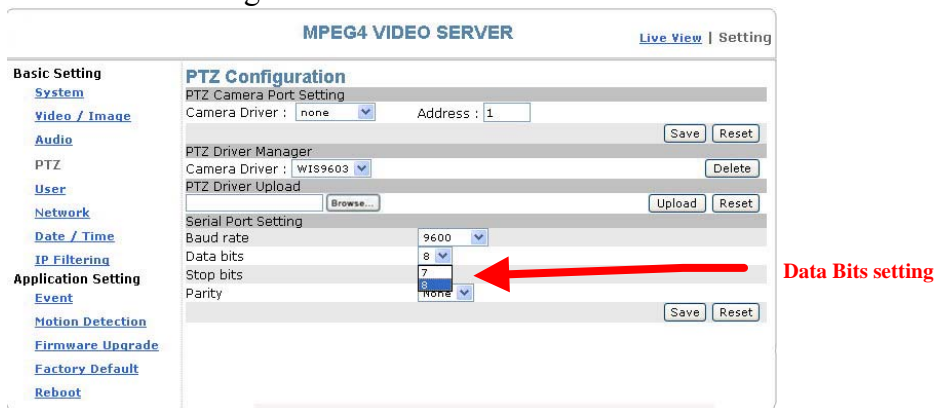
Basic Setting > PTZ > Serial Port Setting

Baud rate is a measure of the symbol rate. Simply refer to the user manual of your camera for the accurate rate.



Basic Setting > PTZ > Serial Port Setting > Data bits

The number of bits used to represent one character of data. Refer to the user manual of your camera for the accurate figure.



Basic Setting > PTZ > Serial Port Setting > Stop bits

Bit used in asynchronous communications to indicate the end of a piece of data. Refer to the user manual of your camera for the accurate figure.



Basic Setting > PTZ > Serial Port Setting > Parity

Parity is a concept of equality of status or functional equivalence. Refer to the user manual of your cameras for the accurate figure.

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PTZ Configuration

PTZ Camera Port Setting

Camera Driver :

none

Address :

1

Save

Reset

PTZ Driver Manager

Camera Driver :

WIS9603

Delete

PTZ Driver Upload

Browse...

Upload

Reset

Serial Port Setting

Baud rate

9600

Data bits

8

Stop bits

1

Parity

None

None

Even

Odd

Save

Reset



同位設定

Basic Setting > User(User)

The administration of this product can be set up access privileges by administrator, operator, and viewer to ensure the security and control of the product. The access privileges and setting steps are described as below.

Basic Setting > User > User List (access privilege list)

The access privileges of the administrator, operator, and viewer are listed as follows. The administrator has the right to define the privilege for each user depending on requirements.

User		Administrator	Operator	Viewer
Live View		v	v	v
System Setting		v	v	
Video Setting		v	v	
	3GPP	v	v	
Audio Setting		v	v	
Date / Time Setting		v		
User Setting		root		
Network Setting		v		
	Wireless	v		
	DDNS setting	v		
	PPPoE setting	v		
	Streaming	v		
	UPnP	v		
	SMTP	v		
	SAMBA	v		
	Notification	v		
IP Filter setting		v		
Event Setting		v	v	
	schedule setting	v	v	
	event server	v	v	
	trigger setting	v	v	
Motion Setting		v	v	
Firmware Upgrade		root		
Factory default		v		
Reboot Setting		v		
PTZ Control		v		User with PTZ privilege

Steps: Click Add (to add a new user), Update (to change the privilege or password of a user on the list), or Delete (to delete a user from the list) and complete required fields. Then Click "Save" to complete the setting.

Options:

Add: Add a new user and set up a different privilege.

Update: Change the privilege or password of a user. You cannot change the name of the user.

Delete: Delete a user from the list.

User setting

Add a new user and set up a different privilege.

Change the privilege or password of a user. You cannot change the name of the user.

Delete a user from the list.

Log in the username, password and privilege as required. You can also define the PTZ control here.

Basic Setting > User > User Setting (privilege setting)

For special business situations, this product allows you to log in to browse without the need of keying in your username and password. For this purpose, you need to check “Enable” at Anonymous Login. To allow the user to control the camera, you need to check “Enable” at Anonymous PTZ Control. However, “Disable” for both options is recommended for the sake of security. Depending on the bandwidth and requirements, a limit up to 10 viewers who are allowed to view the camera simultaneously can be defined.

Activate the anonymous view and camera rotation functions; define the number of viewers who are allowed for online review simultaneously.

Basic Setting > Network (Network setting)

Basic Setting > Network > Network (cable network setting page)

■ Basic Setting > Network > Network > IP Assignment

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- [User](#)
- Network**
- [Network](#)
- [Wireless](#)
- [Streaming](#)
- [PPPoE](#)
- [DNS](#)
- [UPnP](#)
- [SMTP Server](#)
- [Samba](#)
- [Notification](#)
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Application Setting

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- [Reboot](#)

Network Setting

IP Assignment: ☐ ON ☒ OFF

IP Address: 60.248.204.239

Subnet Mask: 255.255.255.224

Default Gateway: 60.248.204.225

DNS 1: 168.95.1.1

DNS 2:

MAC Address: 00:30:F0:06:00:34

[Save](#) [Reset](#)

Cable network setting page

DHCP setting:

DHCP(Dynamic Host Configuration Protocol) is a protocol that enables automatic assignment of TCP/IP information to the client. Each DHCP client connects to the DHCP server to access its network setting information, including IP address, gateway, and DNS server.

The IP address of the product is 192.168.0.20 by default when DHCP is "OFF". When you select "DHCP ON" and access the DHCP network environment, the product will automatically send a DHCP packet to request an IP address. This IP address is assigned automatically from the DHCP server on the network. No additional settings are required for this page unless you need to change the network configuration. The DHCP status of the product is "OFF" by default.

Other settings:

For IP address, Subnet mask, Default gateway, DNS 1, and DNS 2, the DHCP server will assign these values automatically when DHCP is in "ON" status; otherwise, you need to key in the values manually.

Note: Where no IP address is assigned from the DHCP server, the system will set the Link-Local Address automatically. Chunghwa Telecom DNS: 168.95.1.1

Basic Setting > Network > Wireless (wireless network setting page)

Note: Only UVS-7111W provides the wireless networking function. UVS-7111 and UVS-7111P do not provide this function.

The cable network setting procedure shall apply where the LAN socket is connected to the network cable.

Where wireless network is required, you need to remove the network cable after completing the wireless network setting and restart the machine.

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Wireless Setting

Wireless

Mode: Infrastructure

Authentication Type: Open System

SSID: any

WEP Encryption: None

KEY 1: ☐ KEY 2: ☐ KEY 3: ☐ KEY 4: ☐

Wireless IP Assignment: ☐ ON ☒ OFF

DHCP: ☐ ON ☒ OFF

IP Address: 192.168.0.21

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.0.254

DNS 1: 168.95.1.1

DNS 2:

MAC Address: 00:00:10:11:12:00

[Save](#) [Reset](#)

■ Basic Setting > Network > Wireless > Wireless

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Wireless Setting

Wireless

Mode: Infrastructure

Authentication Type: Infrastructure

SSID: any

WEP Encryption: None

KEY 1: ☐ KEY 2: ☐ KEY 3: ☐ KEY 4: ☐

Wireless IP Assignment: ☐ ON ☒ OFF

DHCP: ☐ ON ☒ OFF

IP Address: 192.168.0.21

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.0.254

DNS 1: 168.95.1.1

DNS 2:

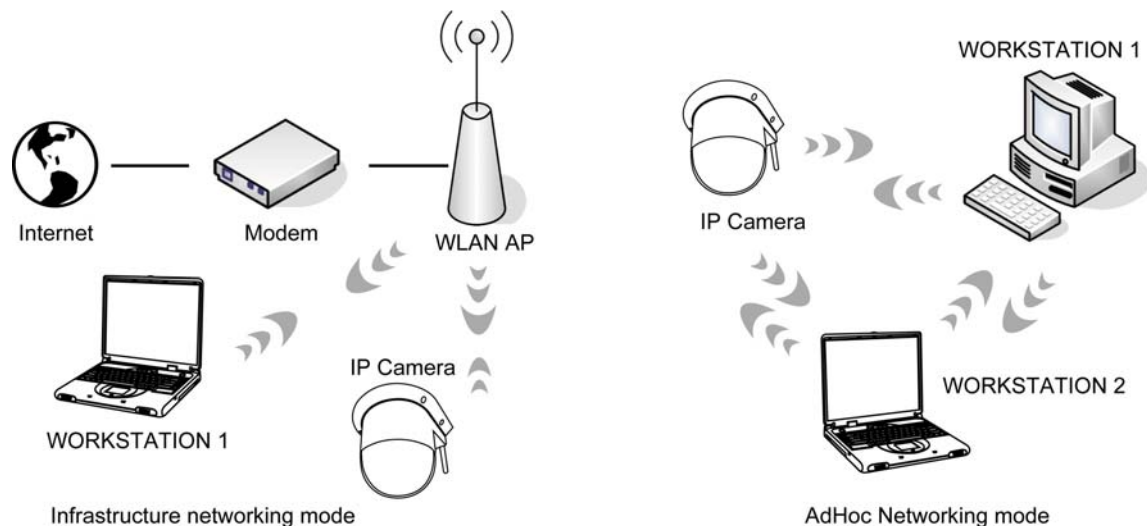
MAC Address: 00:00:10:11:12:00

[Save](#) [Reset](#)

Mode: Selection of the wireless networking mode

1. Infrastructure: Infrastructure networking mode

This product uses the wireless Access Point (AP) as the hub when set to infrastructure networking mode and connects to the network via the wireless AP.



2. AdHoc: Point-to-point networking mode

This product connects to other wireless devices via a wireless network when it is in the AdHoc point-to-point networking mode; i.e. the product connects to other devices equipped with built-in wireless connection function without the need to access from any AP.

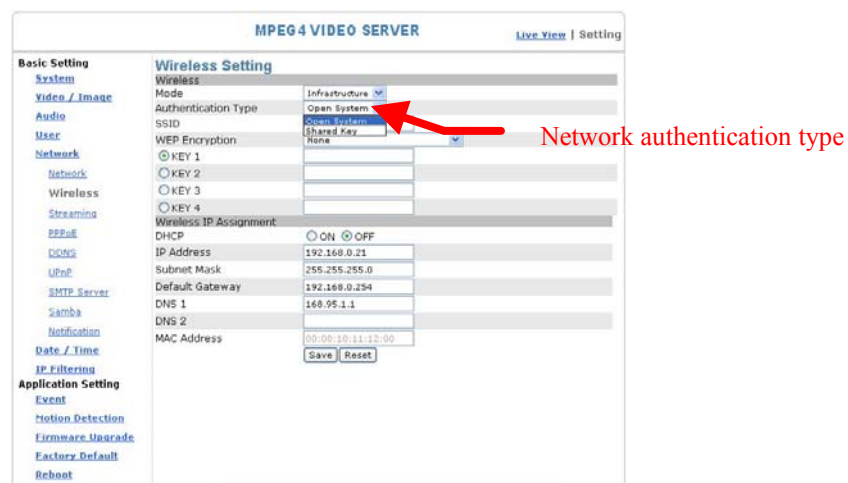
Note: Where no IP address is assigned from the DHCP server, the system will set the Link-Local Address automatically.

Authentication Type: Network authentication type

1. Open System: No encryption.

2. Shared Key: Security of data is highly protected by encryption during transmission.

Note: Refer to the user setting instructions of your wireless IP sharer for more information.



SSID: Service Set Identifier

Enter the name of the base station (AP) to which you want to connect.

The image shows a 'Wireless' configuration window with three main sections: Identification, Options, and Access Point. In the Identification section, the 'Station Name' is 'PL114F04', 'Region' is 'USA', and the 'SSID (Service Set Identifier)' field is empty. In the Options section, 'Mode' is 'g & b', 'Channel No.' is '11', and 'Broadcast SSID' is unchecked. The 'WEP data encryption' is set to 'Off', and there is a 'Configure WEP' button. In the Access Point section, 'Enable Access Point' is unchecked, and there are options for 'Allow LAN access by' and 'Allow Internet access by', both with 'ALL Wireless stations' selected. At the bottom are 'Save', 'Cancel', and 'Help' buttons. Two red arrows point to the 'SSID' field and the 'Configure WEP' button, with labels 'Base station SSID name' and 'Base station encryption settings' respectively.

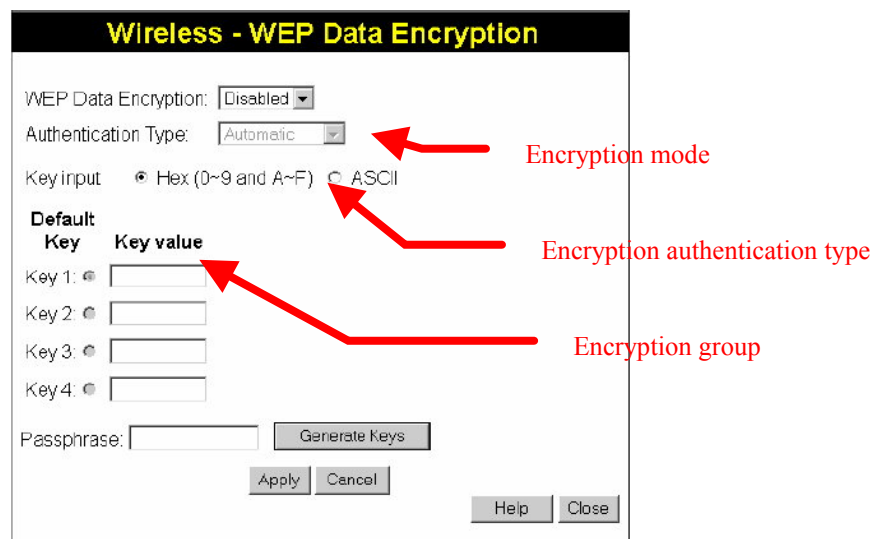
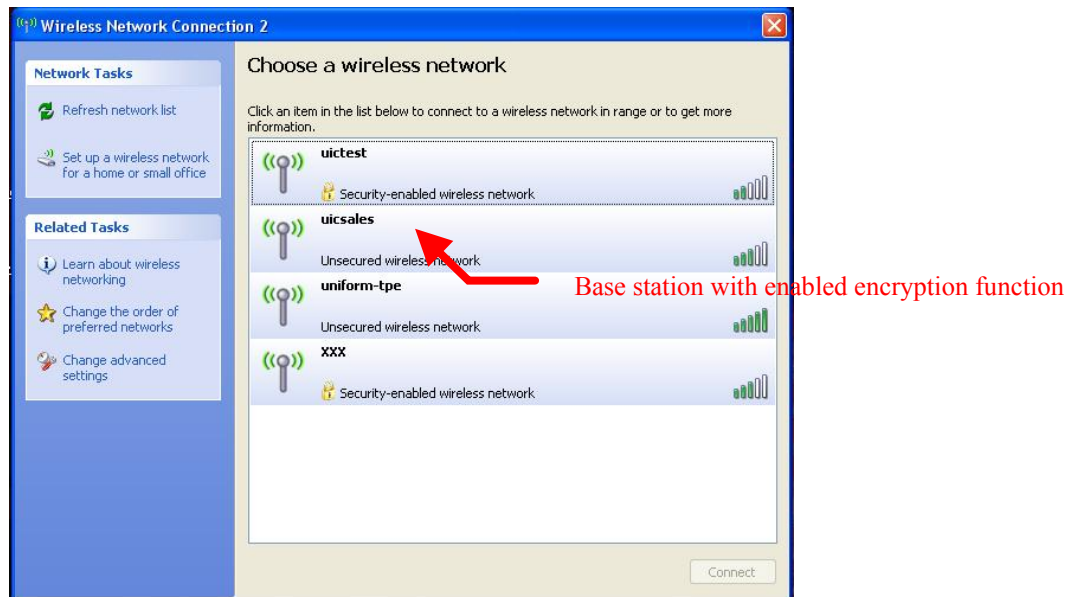
WEP Encryption: WEP encryption function

When the base station (AP) which you want to access has enabled the encryption function, you need to acquire the following information by accessing its encryption settings. You can use a computer equipped with wireless networking function to view the available wireless networks from the Windows system.

- ① Encryption mode (64Bit or 128Bit)
- ② Authentication type
- ③ Group (KEY1, KEY2, KEY3, KEY4)

The image shows the 'MPEG4 VIDEO SERVER' 'Wireless Setting' interface. On the left is a sidebar with various settings categories. The main area is titled 'Wireless Setting' and contains several fields: 'Mode' (Infrastructure), 'Authentication Type' (Open System), 'SSID' (any), 'WEP Encryption' (None), and 'Wireless IP Assignment' (DHCP OFF). A dropdown menu is open for 'WEP Encryption', showing options: 'None', '64 Bit Keys (10 Hex Chars)', '64 Bit Keys (5 ASCII Chars)', '128 Bit Keys (26 Hex Chars)', and '128 Bit Keys (13 ASCII Chars)'. Below these are four radio buttons for 'KEY 1', 'KEY 2', 'KEY 3', and 'KEY 4'. At the bottom are 'Save' and 'Reset' buttons. Two red arrows point to the 'WEP Encryption' dropdown and the 'DHCP OFF' radio button, with labels 'Encryption options' and 'IP setting in the wireless networking mode' respectively.

Then change the settings on the wireless networking setting page to make them conform to the settings of the base station.



WEP security mode: Select an encryption mode from the list. The format is “None” by default, indicating that the security function is disabled.

Authentication mode: One of the following authentication modes is required when you select a WEP encryption mode from the security list.

1. 64 Bit (10 Hex chars)
2. 64 Bit (5 ASCII chars)
3. 128 Bit (26 Hex chars)
4. 128 Bit (26 ASCII chars)

WEP key password encryption mode:

You can set up 64 Bit or 128 Bit WEP key password encryption mode. A set of 64 Bit encryptions is equivalent to 10 sets of hexadecimal digits or 5 sets of ASCII characters. A set of 128 Bit encryptions is equivalent to 26 sets of hexadecimal digits

or 13 sets of ASCII characters.

Encoding	HEX	ASCII
Available characters	0~9, a~f, A~F	0~9, a~f, A~Z
64 Bit	10	5
128 Bit	26	13

Ex.: Wireless mode setting (applicable to most situations)

Selection:

1. Mode: Select Infrastructure to connect the product to a wireless base station.
2. Authentication Type: Select Shared Key.
3. SSID: Enter the server name of the base station.
4. WEP Encryption: Select the encrypted key that is the same as the base station.
5. KEY: Select a group that is the same as the wireless base station. You must select KEY1 for base stations that only have a set of keys.
6. DHCP ON/OFF: DHCP ON is recommended.
7. Save the settings.
8. Restart the equipment.

■ **Basic Setting > Network > Wireless > Wireless IP Assignment (IP setting in the wireless networking mode)**

DHCP setting:

DHCP (Dynamic Host Configuration Protocol) is a protocol that enables automatic assignment of TCP/IP information to the client. Each DHCP client connects to the DHCP server to access its network setting information, including IP address, gateway, and DNS server.

The IP address of the product is 192.168.0.20 by default when DHCP is "OFF". When you select "DHCP ON" and access the DHCP network environment, the product will automatically send a DHCP packet to request an IP address. This IP address is assigned automatically from the DHCP server on the network. No additional settings are required for this page unless you need to change the network configuration. The DHCP status of the product is "OFF" by default.

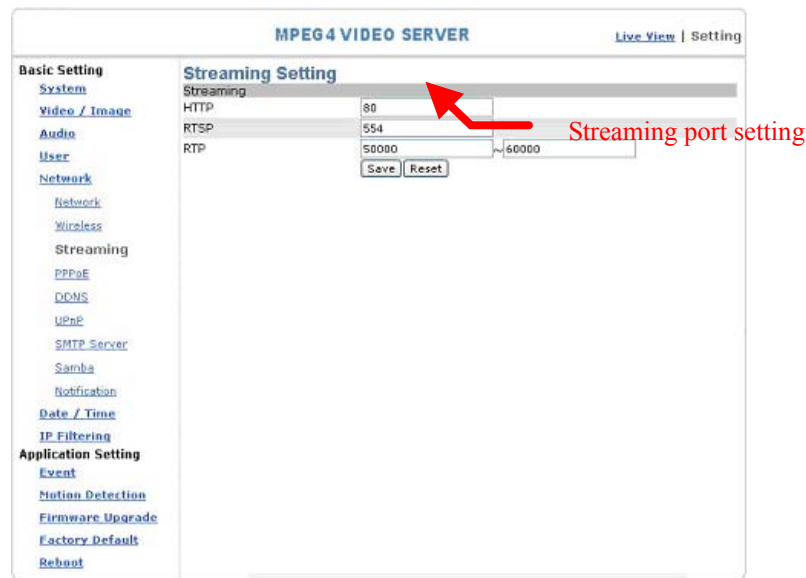
Other settings:

For IP address, Subnet mask, Default gateway, DNS 1, and DNS 2, the DHCP server will assign these values automatically when DHCP is in "ON" status; otherwise, you need to key in the values manually.

Basic Setting > Network > Streaming (streaming setting)

Setting of the video steaming port (**HTTP and factory default are recommended**)

1. HTTP: Port 80 can pass through most firewalls. Video streams are transmitted through HTTP Port (80 by default) to ensure passage through firewalls.
2. RTSP: Port 554 uses a fixed port (i.e. TCP) or can be defined by users to ensure reliable data transmission. Video streams are transmitted through RTSP Port (554 by default) to avoid video fragment or mosaics due to poor transmission quality.
3. RTP: Port 50000 to 60000 are UDP ports and can be defined by users. They provide the fastest but also most unreliable transmission service. Video streams are transmitted through UDP Port (50000~60000 by default) to ensure the fastest image transmission. However, video fragment or mosaics may occur due to poor transmission quality.



Basic Setting > Network > PPPoE (dial-up networking setting)

PPPoE: Point-to-Point Protocol over Ethernet is a protocol that supports access to a high-speed wideband network using a PC and a wideband modem (such as xDSL, Cable, Wireless modem). The user need only to equip the PC with an Ethernet card and apply to an ISP (such as HiNet) and an ADSL provider (such as Chunghwa Telecom) for ADSL service to roam the Internet through ordinary twisted copper wires.

PPPoE: Point to Point Protocol over Ethernet is applicable to networking via a xDSL or cable modem. PPPoE setting must be executed in the LAN environment for your PC to connect to ADSL. Follow the steps below to complete the setting:

1. Dial: You can select whether or not to dial when you boot the machine.
2. Use DHCP or fixed IP for connection to the LAN environment. Key in the IP address of the product and enter "PPPoE Setting" following the route Setting ➔ Basic Setting ➔ Network ➔ PPPoE.
3. Key in the xDSL "Username" and "Password" acquired from your ISP. Click Save to confirm the setting.

4. Where the ADSL modem and the product is connected via a switch-hub, you can press “Reboot” or restart the machine manually to try PPPoE dialing when the setting of the product has been completed.
5. To observe the new IP address acquired when PPPoE dialing has been executed successfully, follow the route Setting → Basic Setting → Network → Notification for the IP information. You can acquire the new IP address via SMTP, FTP, and HTTP. Refer to the “Notification Setting” page for more information.

Note: You can use the DDNS function to access the product. Refer to the “DDNS Setting” page for more information.

PPPoE setting

■ **Basic Setting > Network > PPPoE > PPPoE**

Dial: You can select whether or not to dial when you boot the machine (On Boot or Off).

Username: Enter the username provided by your ISP.

Password: Enter the password.

■ **Basic Setting > Network > PPPoE > PPPoE Information**

IP Address: The IP address acquired when dialing has been executed successfully.

Subnet Mask: The subnet mask information acquired when dialing has been executed successfully.

Default Gateway: The gateway information acquired when dialing has been executed successfully.

DNS: The ISP domain name acquired when dialing has been executed successfully.

Basic Setting > Network > DDNS (Dynamic Domain Name Server Setting)

The IP address (Ex. 210.168.0.22) is like a telephone number, while the website address is like a name in an address book. The DDNS allows the user to access the website by entering the name of the website without memorizing a bunch of cold numbers.

When you apply for an Internet service, you will have at least one IP address from your ISP which is either fixed or dynamic. Most of the ADSL service providers will give you a dynamic IP for ADSL environments which means your IP address will constantly change each time you connect to the Internet. As a result, users from WAN environments will have difficulty finding the correct IP address. The DDNS (Dynamic DNS service) is created for exactly this kind of moment. By updating your WAN IP address each time you connect to the Internet, the DDNS helps you locate your website and access your website easily. You can find a lot of free DDNS service providers on the Internet, such as www.no-ip.com and www.DynDNS.org.

Some gateway-routers can directly communicate with DDNS. In this case, you may directly enter your DDNS account on the setting page in the Internet router, then the router will update your WAN IP status whenever it is changed and report to the DDNS. If your router does not support direct communication with the DDNS, you can download a small application program on the DDNS service page to help you update your WAN IP.

Item Description:

Active: enables/disables DDNS

DDNS Server: currently we only support <http://dyndns.org>. This is a free domain name server provided by DynDNS. You may log on this website for relevant information and apply for free domain names.

Username: your account for the domain name you applied for

Password: your password for the domain name you applied for

Domain Name: the domain name you applied for.

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- [SMTP Server](#)
- [Samba](#)
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- [IP Filtering](#)

Application Setting

- [Event](#)
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- [Reboot](#)

DDNS Setting

Active: ☐ Enable ☒ Disable

DDNS Server:

Username:

Password:

Domain Name:

DDNS setting

Basic Setting > Network > UPnP (Universal Plug and Play)

If you connect your product to a router, IP allocator, or wireless AP, your product will possibly be blocked by the NAT and can't be located on the Internet. To penetrate the firewall, activate the supportive item- UPnP. The Link URL shows the external IP address and the port of the router. Enter the IP address in the Internet Explorer to penetrate the NAT.

■ Basic Setting > Network > UPnP > UPnP Device

Active: yes (enable)/no (disable)

Device Name: the name of the UPnP device

■ Basic Setting > Network > UPnP > UPnP Traversal

Active: yes (enable)/no (disable)

Port Range: the range of the usable ports, from 32768 to 65535 as default

Link URL: Uniform Resource Locator, the web address

Click "Save" to confirm when you finish.

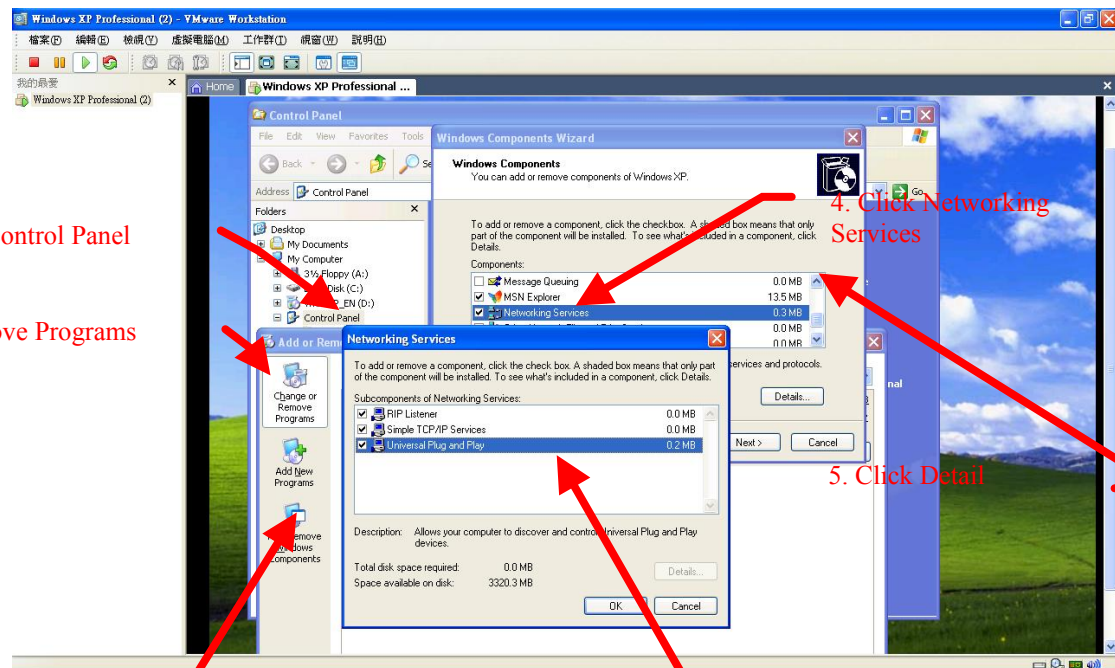
The screenshot shows the 'MPEG4 VIDEO SERVER' web interface. The top navigation bar includes 'Live View' and 'Setting'. The left sidebar lists various settings categories: Basic Setting (System, Video / Image, Audio, User, Network, Streaming, PPPoE, DDNS, UPnP, SMTP Server, Samba, Notification, Date / Time, IP Filtering), and Application Setting (Event, Motion Detection, Firmware Upgrade, Factory Default, Reboot). The main content area is titled 'UPnP Setting' and contains two sections: 'UPnP Device' and 'UPnP Traversal'. The 'UPnP Device' section has 'Active' (radio buttons for yes/no, with 'yes' selected) and 'Device Name' (text input field containing 'MPEG4 IP CAMERA', with 'Save' and 'Reset' buttons). The 'UPnP Traversal' section has 'Active' (radio buttons for yes/no, with 'no' selected), 'Port Range' (text input field containing '32768 ~ 65535'), and 'Link URL' (text input field containing 'not ready', with 'Save' and 'Reset' buttons). A red arrow points to the 'Link URL' field, and the text 'Web address' is written next to it.

UPnP setting

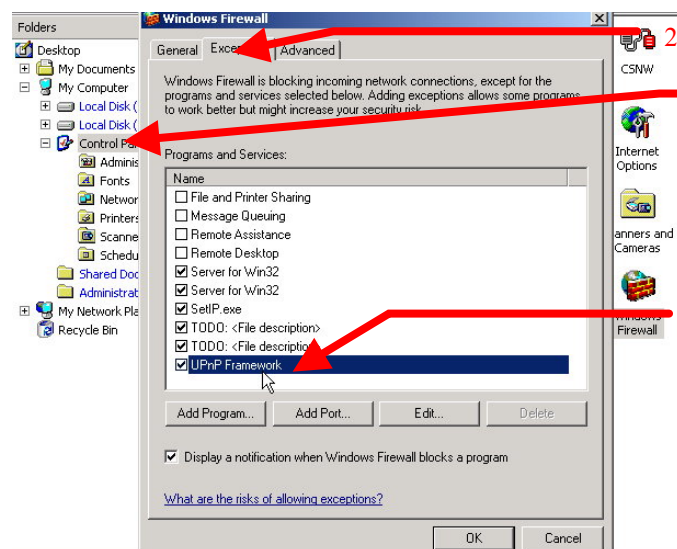
To activate the UPnP function in Windows OS:

Ex: Windows XP:

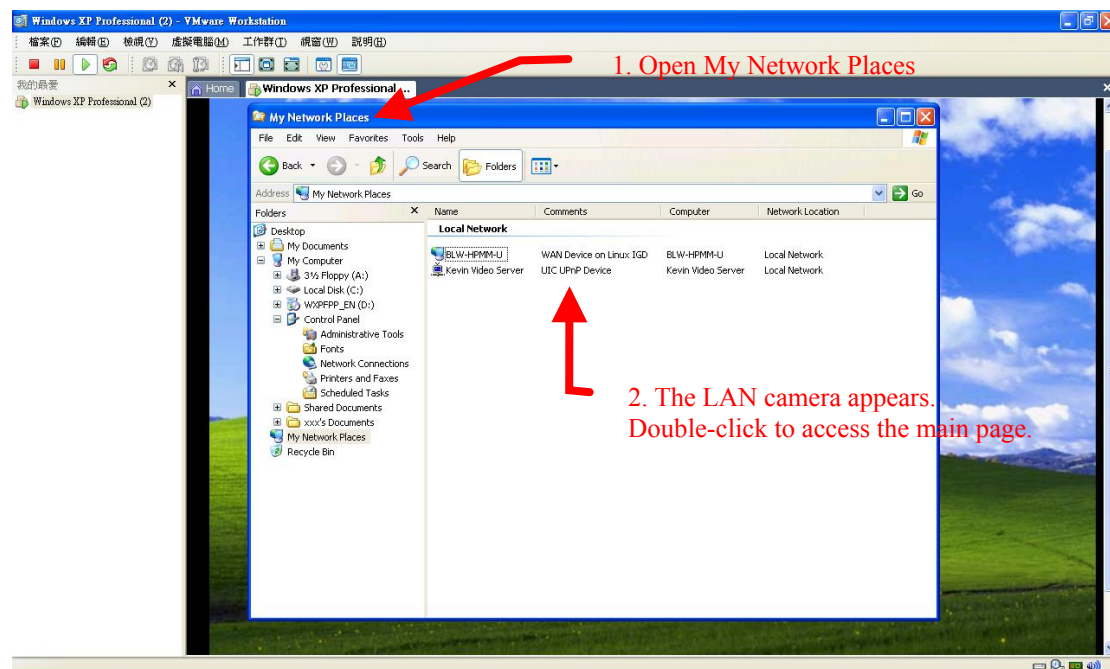
1. Windows component installation.



2. Open Windows firewall option



3. View the connection device using “My Network Places”



Basic Setting > Network > SMTP Server (mail server setting)

This product is able to transmit images to a particular email address when a motion detection event occurs or a sensor is triggered. To use this function, a mail server setting for the product is required.

Enter the following information in sequential order to complete the setting:

- SMTP server: the SMTP server IP address.
- SMTP From: the email of the sender, i.e. xxx@xxx.com
- SMTP Authentication: enables/disables
- User name: the SMTP server username.
- Password: the password of the SMTP server.
- Select “SAVE” to save the setting.

Basic Setting > Network > Samba

This product is able to upload the snapshots to a specified shared folder when an event is triggered. To use this function, a Samba setting is required.

Options:

Active: Enable/Disable

Samba Authentication: Enable/Disable

Username: the username

Password: the password

Path: specify the IP address of the computer you want to share with and the file name, i.e. 192.168.0.X/xxx

Shared Folder Size (MB): the total capacity of the folder. Always remember to set the size of the folder to avoid exhaustion of disk capacity.

Max Record File Size (MB): the upper limit of the record file size. The size should not exceed the total capacity of the folder.

The screenshot shows the 'MPEG4 VIDEO SERVER' interface with the 'Setting' tab selected. On the left is a sidebar menu with categories: 'Basic Setting' (containing System, Video / Image, Audio, User, Network, Network, Wireless, Streaming, PPPoE, DDNS, UPnP, SMTP Server, Samba, Notification), 'Date / Time', 'IP Filtering', 'Application Setting' (containing Event, Motion Detection, Firmware Upgrade, Factory Default, Reboot). The main content area is titled 'Samba Setting' and contains the following fields: 'Active' (radio buttons for Enable and Disable, with Disable selected), 'Samba Authentication' (radio buttons for Enable and Disable, with Disable selected), 'Username' (text input field), 'Password' (text input field), 'Path' (text input field with a 'Testing' button), 'Shared Folder Size (MB)' (text input field), 'Max Record File Size (MB)' (text input field with the value '5'), and 'Recycle Record' (radio buttons for Enable and Disable, with Enable selected). At the bottom of the settings are 'Save' and 'Reset' buttons.

Samba setting

Basic Setting > Network > Notification Of IP Address Change (IP address change notice)

This setting is not necessary for a fixed IP. For a dynamic IP, you need to update the IP address every time you connect to the Internet to access the product. This setting allows you to update the IP address by the automatic notification of IP address change. Choose one of the following three notice options to update the IP address:

1. Notification via SMTP mail server

■ Basic Setting > Network > Notification of IP Address Change > SMTP Notification

SMTP Notification: notification via SMTP mail server

SMTP SendTo: the recipient, i.e. xxx@xxx.com

SMTP Subject: mail subject

Select **Save** to complete and activate your settings.

2. Notification via FTP server

■ Basic Setting > Network > Notification of IP Address Change > FTP Notification

FTP Server: FTP Server name.

FTP Port: FTP port. The default setting is 21 (recommended).

FTP Upload path: the path to upload files.

FTP Login name: the name to log in the FTP.

FTP Login Password: the password to log in the FTP.

Select **Save** to complete and activate your settings.

3. Notification via HTTP server

■ Basic Setting > Network > Notification of IP Address Change > HTTP Notification

Server: the address of the server, i.e. http://.

Port: the port to access HTTP. The default setting is 80 (recommended).

Parameter: the setting of the parameters, refer to the installation setting of your HTTP server.

Refer to the installation setting of your HTTP server for the setting of the parameters (such as Username, Password, and Proxy).

Select **Save** to complete and activate your settings.

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[Live View](#) | [Setting](#)

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Notification of IP address Change

SMTP Notification

SMTP Notification ☐ Enable ☒ Disable

SMTP SendTo

SMTP Subject

FTP Notification

FTP Notification ☐ Enable ☒ Disable

FTP Server

FTP Port

FTP Upload Path

FTP Login Name

FTP Login Password

HTTP Notification

HTTP Notification ☐ Enable ☒ Disable

Server

Port

Parameter

Username

Password

Proxy Address

Proxy Port

Proxy username

Proxy Password

Notification setting

Basic Setting > Date/Time (date/time setting)

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Date / Time Setting

Server Time

Date: 2006-12-16 Time: 21:18:44

PC time

Date: 2005-11-15 Time: 21:18:47

Time Setting

Set Time ☐ Synchronize with PC's time ☒ NTP ☐ User Input

NTP Server 1 198.123.30.132

NTP Server 2 192.43.244.18

NTP Server 3 133.100.9.2

Date 2006-10-24

Time 01:01:01

Time Zone (GMT+08:00) Taipei

Date/Time setting

- **Basic Setting > Date/Time > Server Time (the date/time of the server)**
- **Basic Setting > Date/Time > PC Time (the date/time of your PC)**
- **Basic Setting > Date/Time > Time Setting (date/time setting)**

There are three ways to synchronize the time.

1. Synchronize the time with PC's time:

The preset method of time synchronization of the product time with your PC time.

2. Get Time from an NTP server: synchronize the time with the NTP (Network Time Protocol)

- Click on the "NTP" Button
- Enter the NTP server's IP address.
- Press "SAVE" to activate it.

The product will update its time once obtaining the NTP time.

Note: The default NTP servers are:

- A. NTP Server 1: 198.123.30.132
- B. NTP Server 2: 192.43.244.18
- C. NTP Server 3: 133.100.9.2

3. Change the time manually:

- Click the "User Input".
- Select the format of date display, i.e. "yyyy/mm/dd" format.
- Select the format of date display, "hh:mm:ss" by 24 hours format.
- Select the time zone.
- Select "Adjust" to adjust time.

Basic Setting > IP Filter

This function filters IP addresses and is able to allow or deny visits from particular addresses/target addresses.

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IP Filtering Setting

General

IP Filtering ☐ Enable ☒ Disable

Policy ☐ Allow ☒ Deny

Filtered IP Address

IP filter setting

Basic Setting > IP Filter > General

IP Filtering: enables/disables the IP filter

Policy: allows/denies access

Basic Setting > IP Filter > Filter IP Address (Overview of the set IPs)

Add: enter the IP address you want to allow or deny the access of in the front field.

Remove: removes a set IP addresses

Remove All: removes all the set IP address

Special Attention

Setting rules:

1. Actions that may cause a limited connection are to be denied.
2. Improper use of this function may cause disconnection from Internet. You might need to use hardware reset to reset to the factory default. Please refer to the "Factory Default" for details.

Application Settings

[Application Setting > Event \(event trigger setting page\)](#)

This product is equipped with intelligent security management functions. It ensures security monitoring by allowing user to define “trigger events” based on particular times and situations, and sets the product respond to the event.

Application Setting > Event > Event List (trigger event setting)

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Event Servers
Event Server List

Name	Protocol	Network Address	Upload Path	User Name
------	----------	-----------------	-------------	-----------

[Add Ftp](#) [Add Http](#) [Add Tcp](#) [Modify](#) [Remove](#)

Click Add Event to enter the trigger event setting

http://192.168.18.20 - Event Setting - Microsoft Internet Explorer

Event Setting
General
Name:
Response to event trigger:
☒ Always
☐ During time ☐ Sun ☐ Mon ☐ Tue ☐ Wed ☐ Thu ☐ Fri ☐ Sat
Start from: Duration: (max 168:00 hours)
☐ Never
Trigger by
☐ Alarm input ☐ Alarm input 1 ☐ Alarm input 2
☐ Motion Detection ☐ Area 1 ☐ Area 2 ☐ Area 3
☐ Video Loss
☐ On boot
Response process
☐ Active alarm out Duration:
☐ Send mail To email address: Subject:
☐ Upload image to FTP server
☐ Send HTTP notification Custom parameters: Message:
☐ Send TCP notification Message:
☐ Go to preset location ☐ Return to home after event
☐ Samba
[Save](#) [Cancel](#)

Add Event: Add Event setting page

Options:

- **General:**
 - Name: Name the trigger event here.
- **Response to event trigger: the time setting of the trigger event**
 - Always: Always monitoring
 - During time: Check the date you want to monitor (Sun~Sat) and the duration of monitoring here. For example, if you want to set the product to monitor from 7 pm after work to 7 am next morning from Monday to Friday, check the boxes from Monday to Friday, enter “19:00” in the “Start From” field, and enter “12:00” in the “Duration” field.
 - Never: Do not set the time.
- **Trigger by: sources of trigger events** (Note: You can only set one trigger event once.)
 - Alarm input: The alarm is triggered by the security equipment connected from the DI terminals behind the machine, such as door/window detectors, infrared sensors.
 - Motion Detection: The alarm is triggered when motion is detected. The product will send an alarm when any objects appear in the set detection area.
 - Video Loss: The alarm is triggered by video loss. The product will send an alarm when there is no video transmission due to product sabotage or other reasons.
 - On boot: The alarm is triggered by reboot. The product will send an alarm when the system is rebooted due to power shortage, sabotage, or other reasons.
- **Response process: trigger event response** (Note: Multiple selections are available)
 - Active alarm out: An event is detected by the security equipment connected from the DI terminal behind the machine, such as high-decibel alarms, light projectors. You can set the alarm duration in the “Duration” field.
 - Send mail: The alarm will be sent to you by email.
 - Send HTTP notification: The alarm will be sent to the HTTP server you specified. To use this function, set the coordinative HTTP server in the Event Server setting page in advance.
 - Send TCP notification: The alarm will be sent to the TCP Server you specified. To use this function, set the coordinative TCP server in the Event Server setting page in advance.
 - Go to preset location: The product will move to the location you specified when a trigger event occurs. To use this function, set the present location of the product in the main page in advance.
 - Return to home after event: The product will move back to the home position (center)

Click **Save** to save and activate your settings when you completed setting.

Add Schedule: Add Schedule setting page

The screenshot shows a web browser window with the address bar displaying 'http://192.168.10.20 - Event Setting - Microsoft Internet Explorer'. The page title is 'Schedule Setting'. The 'General' tab is selected. The 'Name' field contains 'New0'. Under 'Response to event trigger', the 'Always' radio button is selected. The 'Response process' section has several checkboxes: 'Active alarm out', 'Send mail', 'Upload image to FTP server', 'Send HTTP notification', 'Send TCP notification', 'Go to preset location', and 'Samba'. Each checkbox has associated input fields for configuration. At the bottom, there are 'Save' and 'Cancel' buttons.

The Add Event setting page and the Add Schedule setting page are basically the same except that the Add Schedule setting page does not have the option “Trigger by” to indicate the sources of the trigger event.

Click **Save** to save and activate your settings when you complete setting.

Delete: delete the event cluster setting.

Modify: modify the event cluster setting.

Application Setting > Event > Trigger (manual test of trigger response)

Whenever the product detects abnormal events during the scheduled time, it will automatically respond by performing trigger response. There are 3 types of trigger responses: alarm sending, LED status indicator flash, and emailing the alarm or recorded image to the specified server. To use this function, enter the server information by accessing Application Setting > Event > Event Server. You may perform manual test as specified in this section once you complete the setting to ensure that all functions are working properly.

The screenshot shows the 'MPEG4 VIDEO SERVER' web interface. The top navigation bar includes 'Live View' and 'Setting'. The left sidebar shows a tree view with 'Basic Setting' expanded, containing 'System', 'Video / Image', 'Audio', 'User', 'Network', 'Date / Time', 'IP Filtering', 'Application Setting', 'Event', 'Trigger', 'Event Server', 'Motion Detection', 'Firmware Upgrade', 'Factory Default', and 'Reboot'. The main content area is titled 'Trigger Setting'. It contains several sections: 'Trigger Alarm output' with 'Alarm output 1' and 'Set'/'Clear' buttons; 'Trigger LED' with 'LED: Event status' and 'LED: Link status', each with 'Set'/'Clear' buttons; 'Trigger mail' with 'To mail address' and 'Subject' fields; 'Trigger FTP' with 'Upload AVI file to FTP server' and 'HTTP Server' fields; 'Custom parameters' with 'Message' field; 'TCP Server' with 'Message' field; and 'Trigger SAMBA' with 'PATH' field. Each of these sections has a 'Set' button.

The default status of the digital input pin is set as “Normal Open”, but users can change it to “Normal grounded” by setting the page “Setting->Application->Event->Trigger”:

1. When alarm input is set to be “Normal Open”, then the external device connected to alarm input pin should be in open status. So when the external device is triggered to close status, the alarm input pin will be triggered.
2. On the contrary, when alarm input pin is set to be “Normal Grounded”(see the figure below), then the external device connected to alarm input pin should be in close status. So when the external device is triggered to open status, the alarm input pin will be triggered.

Note: It is recommended to set up the Trigger Setting page(Setting-> Application Setting-> Event-> Trigger) before install the hardware alarm I/O.!

Trigger Alarm output: Alarm output

Click “Set” to trigger the alarm. Click “Clear” to stop the alarm.

Trigger LED: LED indicator display

LED: Event status: click “Set” to turn on the LED event status indicator. Click ”Clear” to turnoff the indicator.

LED: Link status : click “Set” to turn on the LED Link status indicator. Click “Clear” to turnoff the indicator.

Trigger mail: Sending mail

Click “Set” after you enter the email address and subject to test the integrity of the sent mail.

Trigger FTP: Sending AVI file to FTP Server

Upload AVI files to FTP server to test the file integrity.

HTTP Server: Sending message to HTTP Server

Upload message to HTTP server to test the message integrity. Enter the message in the “Message” field. You may go to Application Setting > Event > Event Server to make a complete custom parameters settings.

TCP Server: Sending message to TCP Server

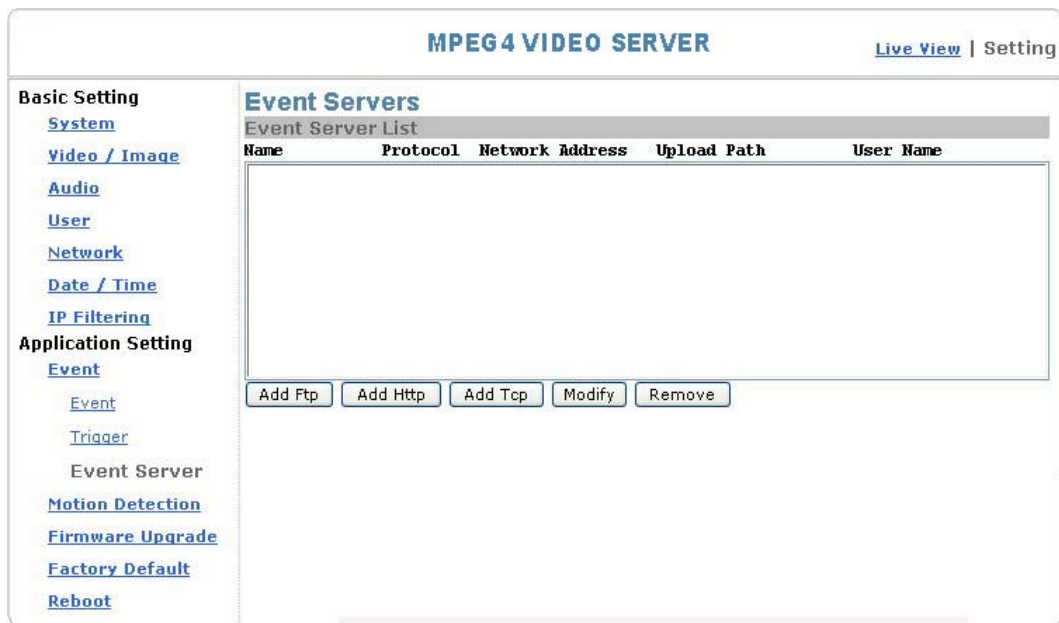
Enter the message in the “Message” field.

Trigger SAMBA: Sending message to Samba shared folder

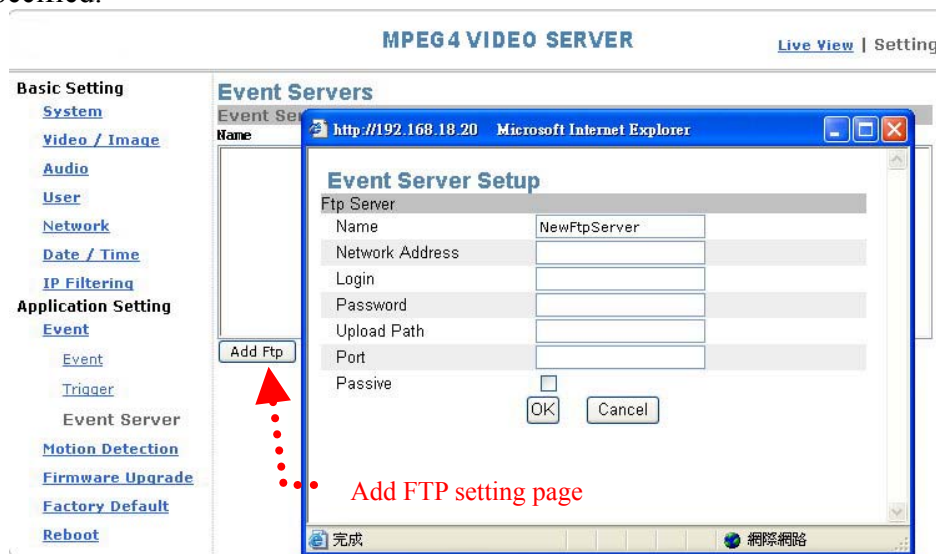
Path: Enter the path of the shared folder in your PC.

Application Setting > Event > Event Servers (setting for uploading trigger event file to the server)

Here you can perform a complete setting for uploading files to the server. Please set servers (SMTP, FTP, SAMBA...etc) in the Event Server setting by the instructions below:



Click **Add Ftp** to go to the setting page and enter the information of the FTP server you specified.



Name: the name of the FTP

Network Address: IP address of the FTP

Login: Log-in name

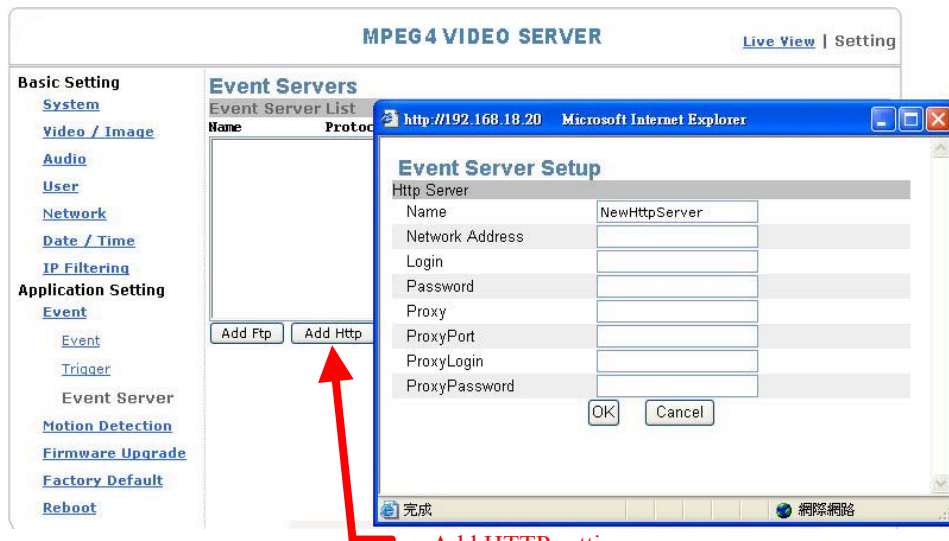
Password: Log-in password

Upload Path: Uploading path

Port: Port

Passive: Check to set the FTP status as passive

Click **Add Http** to go to the setting page and enter the information of the HTTP server you specified.



Add HTTP setting page

Name: HTTP name

Network Address: HTTP IP address

Login: Log-in name

Password: Log-in password

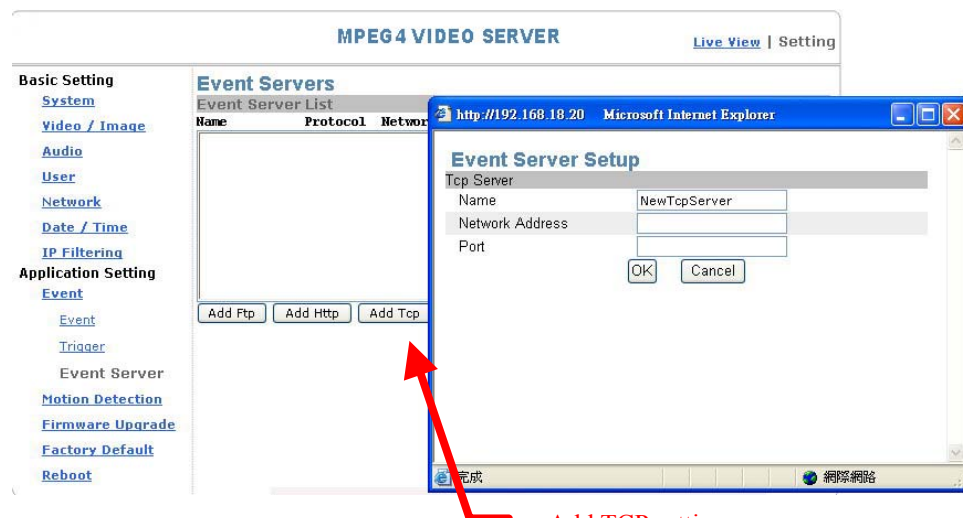
Proxy: Proxy server name

ProxyPort: Proxy server port

ProxyLogin: Proxy server log-in name

Proxy Password: Proxy server log-in password

Click **Add Tcp** to go to the setting page and enter the information of the TCP server you specified.



Add TCP setting page

Name: TCP server name

Network Address: TCP IP address

Port: TCP port

Modify: Modifies the setting value

Remove: Removes the setting value

Application Setting > Motion Detection

You can open the setting frame by clicking on the area to monitor. To move area to monitor, drag the area with your mouse; to adjust the size of the frame, drag the arrow to adjust after you move the mouse to the edge of the area and left-click; There are 3 frames available for setting. You may adjust the sensitivity of the area by entering the degree of sensitivity in the “Sensitive” field. “1” is least sensitive, ”100” is extremely sensitive.

Select **Save** to complete and activate your settings.

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Motion Detection

Motion detection setting

Area setting

Setting frame

☐ **AREA 1**
Sensitive 60

☐ **AREA 2**
Sensitive 60

☐ **AREA 3**
Sensitive 60

Save **Reset**

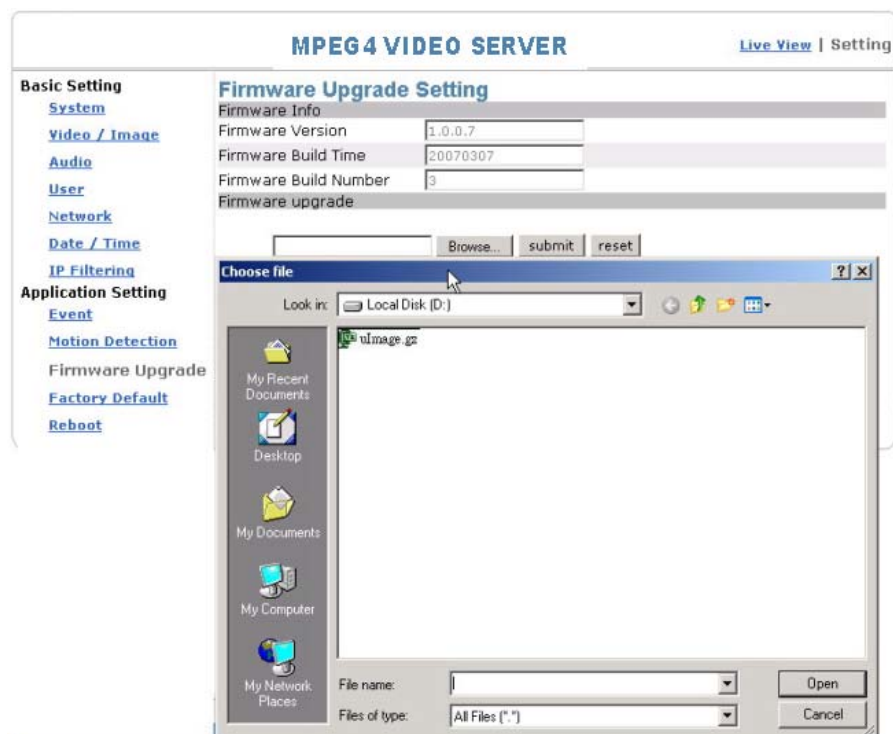
Application Setting > Firmware upgrade

The screenshot shows the 'MPEG4 VIDEO SERVER' web interface. The top bar includes 'Live View' and 'Setting' links. The left sidebar lists various settings categories: Basic Setting (System, Video / Image, Audio, User, Network, Date / Time, IP Filtering) and Application Setting (Event, Motion Detection, Firmware Upgrade, Factory Default, Reboot). The 'Firmware Upgrade' link is highlighted with a red arrow. The main content area is titled 'Firmware Upgrade Setting' and contains a 'Firmware Info' section with fields for Firmware Version (1.0.0.4), Firmware Build Time (20061129), and Firmware Build Number (1). Below this is a 'Firmware upgrade' section with a file input field, a 'Browse...' button, and 'submit' and 'reset' buttons.

Contact your dealer for more information about firmware upgrade. The sales representative will transmit the latest version to you via e-mail. When you receive the firmware, decompress the file (**uImage.gz**) to your PC and follow the steps below to execute the upgrade.

Important! Read Carefully!!

1. Close all active applications on your PC.
2. Select “Firmware Upgrade”
3. The Firmware Upgrade Setting page appears.



4. Click **Browse...** to select the location where the firmware file is stored.
5. Click **submit**.
6. The auto upgrade runs.

The Upgrade Status shows the progress of the upgrade.

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Firmware Upgrade Setting

Firmware Info

Firmware Version	1.0.0.4
Firmware Build Time	20061129
Firmware Build Number	1

Firmware upgrade

Upgrade Status...

2%

When the firmware upgrade has been completed, the machine reboots automatically. Reconnect to the server after 60 seconds.

MPEG4 VIDEO SERVER

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Firmware Upgrade Setting

Firmware Info

Firmware Version	1.0.0.4
Firmware Build Time	20061129
Firmware Build Number	1

Firmware upgrade

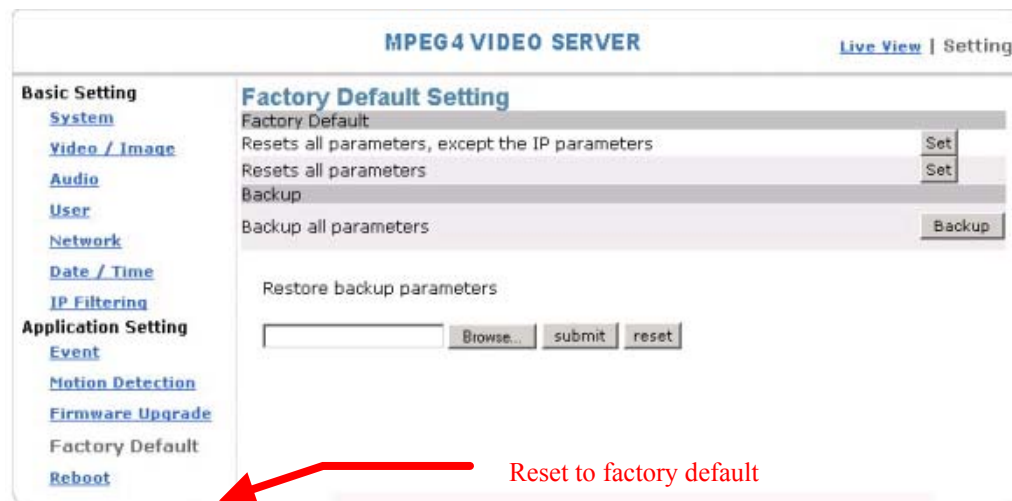
Upgrade complete, please reconnect to the server after 60 seconds.

Note: The new firmware is burned into the Flash ROM during the upgrade, so you must take care during the process and make sure it is not interrupted during the operation. The system may be damaged seriously and need to be returned to the factory for repair if the power cable is removed or becomes loose during the upgrade. Firmware upgrading in a wireless network environment is not recommended because unstable packet transmission may bring about loss of data.

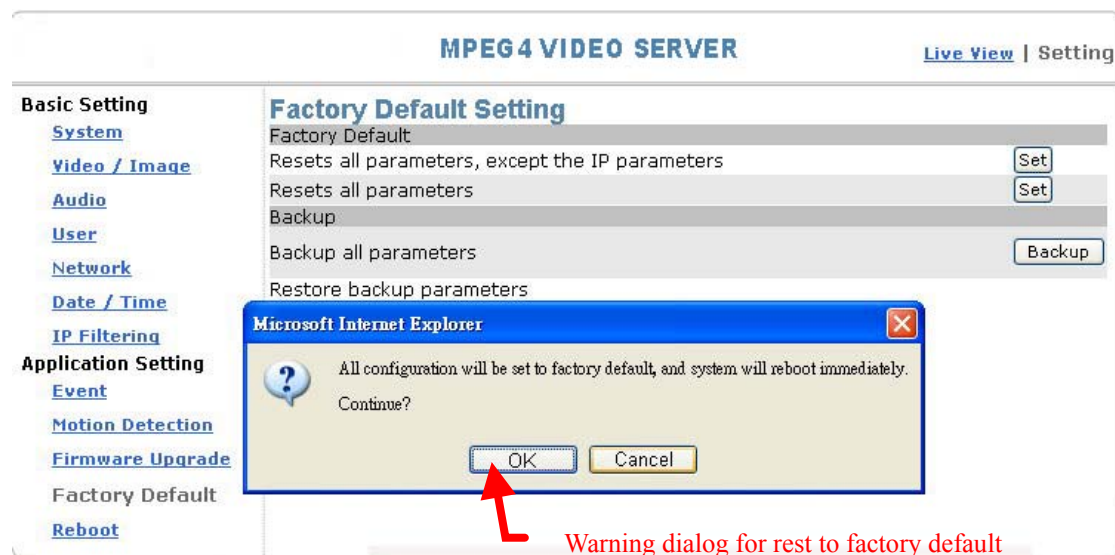
When the firmware upgrade has been completed, you don't need to restart the product manually. The product will reboot automatically after 60 seconds (Reboot OK). Then open the IE browser and key in the IP address (The original IP address remains undeleted).

Application Setting > Factory Default

You can use this function to reset to factory default, but all changes, including the IP address, you have made are deleted.



Factory Default: Reset to factory default.



Resets all parameters, except the IP parameters:

You can use this function to reset to factory default. All changes you have made are deleted but the IP address and all settings relevant to networking remain valid, including cable and wireless network settings. Click **Set** to complete the reset.

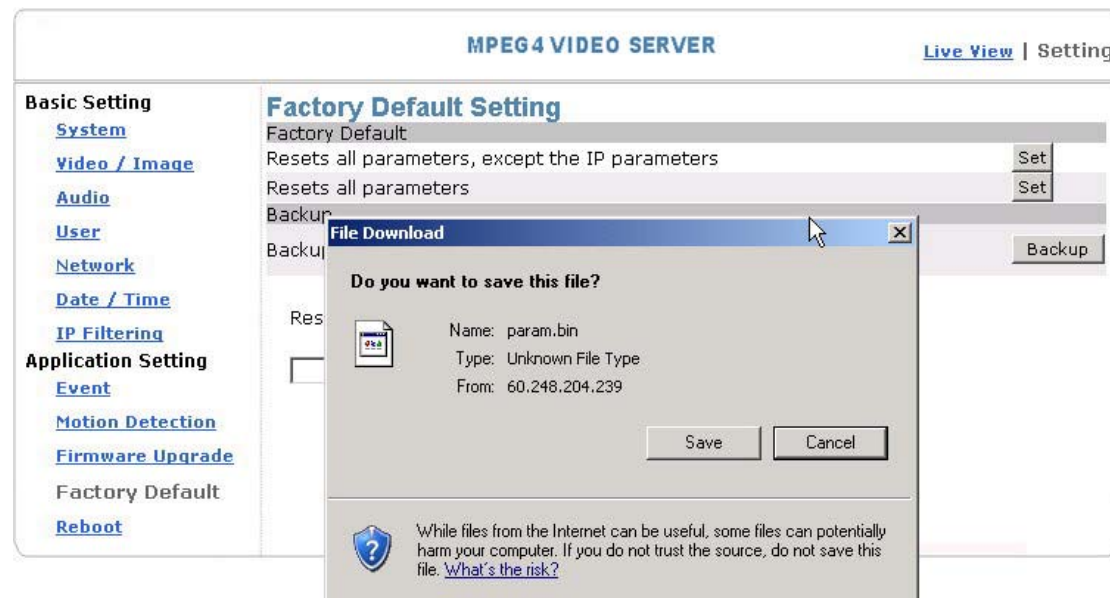
Resets all parameters:

You can use this function to reset to factory default. All changes, including the IP address, you have made are deleted. Click **Set** and a warning window appears to ask if you really want to reset to factory default. Click "OK" to complete the reset.

Backup: Data backup

Back all parameters:

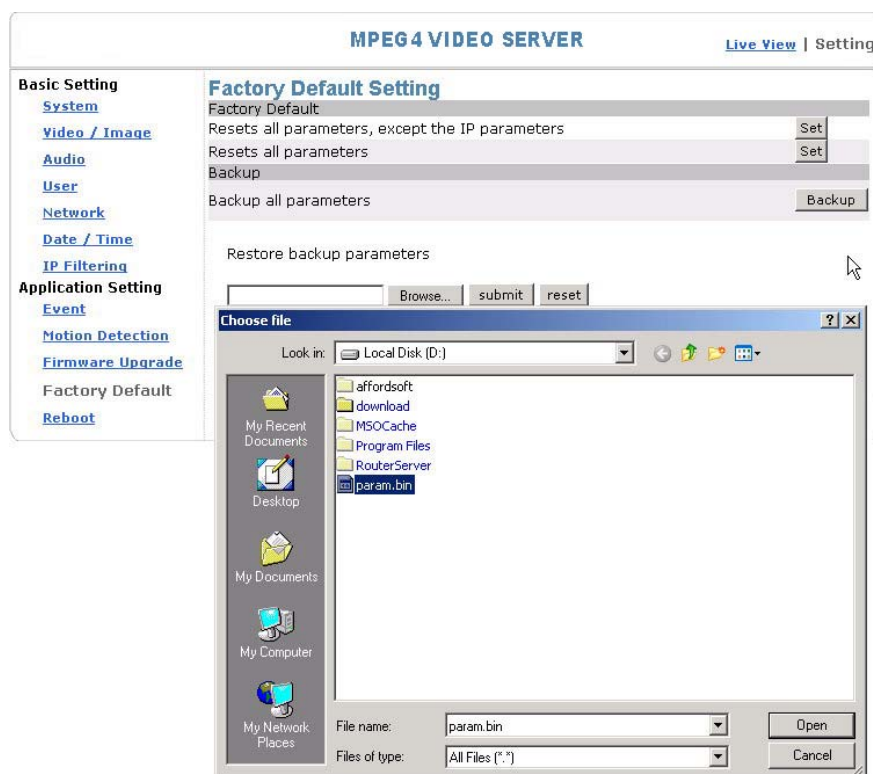
Back up all changes you have made. When you click **Backup**, a file download window appears. Back up the file named param.bin (**Attention: Don't change the file name; otherwise, the backup may fail.**)



File backup

Restore backup parameters:

You can select this function to restore the changes you have made. To do this, click **Browse...** to select a backup file and click **submit** to confirm the restoration.



[Application Setting > Reboot](#)

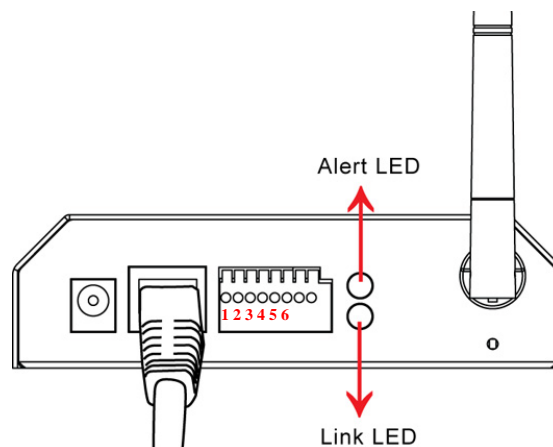
You can enable this function for the product to reboot automatically.

MPEG4 VIDEO SERVER		Live View Setting
Basic Setting System Video / Image Audio User Network Date / Time IP Filtering Application Setting Event Motion Detection Firmware Upgrade Factory Default Reboot	Reboot Setting Reboot Reboot Now <input type="button" value="reboot"/>	

Attachment A: External Alarm

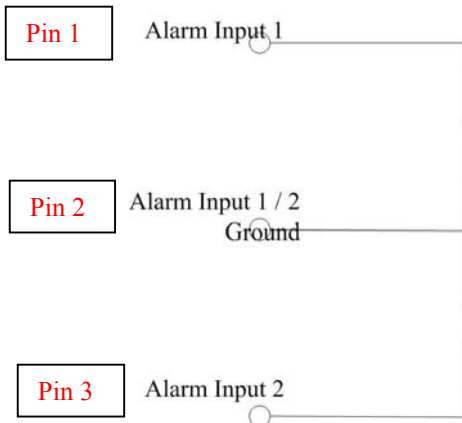
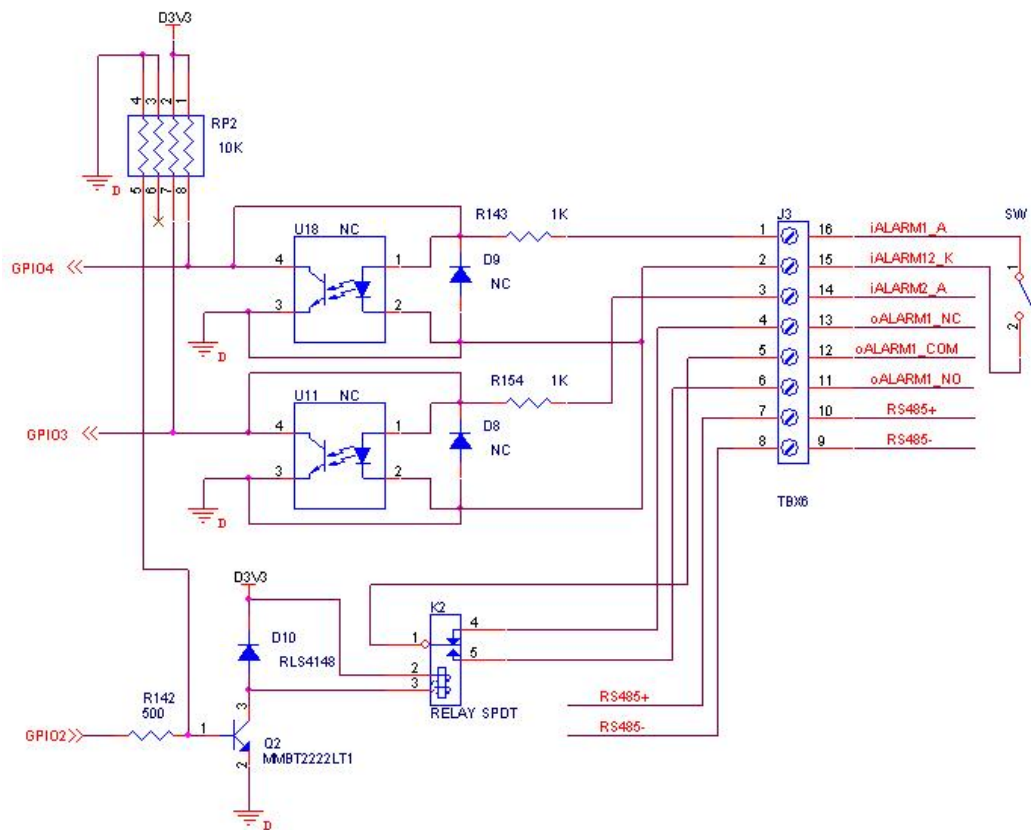
In addition to the motion detection executed by the internal software application, the product can connect to external infrared detectors, beepers, and smoke detectors. For more information about these external devices, contact to your local retailer, dealer or installation service provider. This product provides a standard Alarm I/O for you.

This product is provided with 2 sets of digital inputs and 1 set of digital outputs. Pin 1 and Pin 2 of the terminal are used for external sensor 1, while Pin 2 and Pin 3 are used for external sensors 2. **Please DO NOT connect with any device providing power for these three Pins to avoid burning.** Pin 4, 5, and 6 are relays to control the normal open/normal close of external devices. These three Pins are relay output contains no power output.



Pin	Function
1	Alarm Input #1 (A) Dry Contact
2	Alarm Input #1/2 (K) Dry Contact
3	Alarm Input #2 (A) Dry Contact
4	Alarm Output #1 (NC) Dry Contact
5	Alarm Output #1 (COM) Dry Contact
6	Alarm Output #1 (NO) Dry Contact

External Alarm I/O Circuit Diagram



Warning! The alarm will be triggered when alarm pin 1 & 2 are formed as a short circuit. Please do not connect the electric voltage or current into alarm input pin for the electronic current might burn the product.

Warning! The alarm will be triggered when alarm pin 2 & 3 are formed as a short circuit. Please do not connect the electric voltage or current into alarm input pin for the electronic current might burn the product.

Warning!

- Where connecting of a low or high current loop to the external alarm input/output of the product is required, the wiring and connection shall be conducted by a qualified electrician. Incorrect wiring may bring about damage to the product fatal electric shock.
- Direct connection of the external alarm input/output terminal to high-current equipment is not allowed and a customized repeat circuit might be required (provided by the customer) for some cases to isolate the terminal and the high-current equipment. Where the voltage/current of an external device exceeds the loading capability (5V) of the Alarm I/O, the product would be damaged seriously.

Attachment B: Bandwidth Estimation

Since the FPS is dependent on the bandwidth of the product, the relationship between the size of an image file and the bandwidth is always the major concern of the system construction engineer.

The table below shows the relation between the resolution and size of an MJPEG file in the NTSC system. Please note that the values in the table are for reference only, because the size of an image file is closely related to the complexity of the environment and the actual situation of the place being monitored.

Image Resolution	Average range of Data Sizes
176 x 122 (QCIF)	20 – 40k bit
352 x 240 (CIF)	40– 200k bit
640 x 480 (VGA)	180 – 400k bit
704 x 480 (D1)	200 – 530k bit

Ex.: The transmission speed on the Internet is 2fps under 352 x 240, i.e. $40k \times 2 = 80k$ to $200 \times 2 = 400k$ per second. It is suggested to apply for 512K "upload" bandwidth.

Note 1: What the product needs at the client end is the “upload” bandwidth. However, most ISPs in Taiwan provide download bandwidth that is wider than the upload bandwidth. Therefore, symmetrical bandwidth is a good choice for users who need wider upload bandwidth. Ex. download/upload = 512K/512K

Note 2: 32 kbps to 64kbps are required for transmission of audio signals.

Attachment C: Troubleshooting and FAQs

Question	Answer and Solution
Function	
What encoder and decoder are used by the product for sounds and images?	The product uses MJPEG or MPEG4 compression technology to provide quality images. MJPEG is a standard image compression technology applicable to different browsers without the need to install additional software. MPEG4 is a next-generation image compression standard and can provide high image quality at low bandwidth. The sound decoder uses PCM (Stereo, 16bit, 8kHz) compression technology.
How many users are allowed to view the product simultaneously?	The maximum number of viewers depends on the bandwidth of the client accessing the video server. About 5~6Mbps are used to process data of the video server, so the maximum number of viewers changes in proportion to FPS and the resolution of the image. Obviously, the higher the number of viewers, the lower the performance at each client end.
Is it possible to catch the image from the video server in a real-time manner?	Yes, you can use the snapshot function from the main control page.
Video server Installation	
Can the video server be used outdoors?	The video server is not waterproof, so a special waterproof cover must be available for outdoor use. Please note that the waterproof cover may affect the built-in pickup function of the video server.
Link LED does not light up.	<ul style="list-style-type: none"> • Check that the attached standard transformer is not damaged. Plug the power cable and reboot the machine. • If the problem remains, contact your dealer for help.
What network cable is used for the video server?	The video server uses a 10 or 100 Base-T Category 5 UTP network cable.
How to install and operate the video server behind a firewall?	If you have a firewall in your network environment, please select HTTP mode (Port80). Generally the port 80 is always open for the browser to access the Internet.
What are the username and password for the first use and after reset to factory default?	Username = root Password= root . Please change your password immediately after entering the system to ensure information security.
I forgot the username and password I used for the setting. What should I do?	Please proceed as follows: <ol style="list-style-type: none"> 1. Hold the Reset button for 4 seconds after booting to reset the password to preset. 2. Change the username and the password.
I forgot the IP address of the video server. What should I do?	Use IP Finder to locate the IP address of the video server. Please connect the video server and the PC on which the IP finder is executed to the same hub.
IP Finder cannot find the video server.	<ul style="list-style-type: none"> • When the video server still can't be located over 1 minute, re-activate the video server. • Do not connect the video server to more than one router. The IP Finder will not be able to detect the video server. • If the IP of PC on which the IP Finder is executed is not correctly set, the IP Finder will not be able to locate the video server.

	<p>Please confirm that the IP address has been properly set.</p> <ul style="list-style-type: none"> The anti-virus applications on the PC or the firewall might block the IP Finder from execution. If you can not execute the IP Finder, please disable your anti-virus applications or firewall.
Internet Explorer does not display the video server screen correctly.	<p>Please be sure that the version of your Internet Explorer is 6.0 or later. Should you have any difficulties, please log on the Microsoft website to update your browser. Microsoft website: http://www.microsoft.com/windows/ie.</p>
IP Finder cannot store network parameters.	<ul style="list-style-type: none"> Do not use spaces. Use underline “_” or dash “-”. Your connection might have problems. Please ensure that the network parameters and the video server connection are correctly set.
Access to Video server	
I cannot enter the login screen and video server page from Internet Explorer. What should I do?	<ul style="list-style-type: none"> The IP address of the video server is possibly being used by another PC or device. Please disconnect the network cable from the video server and execute PING to confirm if the IP address has been used. It is possibly due to the network cable. Please use the cross-line network cable to connect the PC and the video server, and see if the log-in screen appears. Be sure that the network connection and the settings are properly configured. Be sure to enter correct IP address in the Internet Explorer. If you use dynamic IP address, the address might have been changed after your last check. Internet traffic might slow down the webpage access. Please wait. Be sure that you are using http port. The default setting is Port 80. It will be converted to the private video server IP address. The port assigned for your video server might not be able to access the Internet. Contact your ISP to acquire a usable port. The proxy server might be blocking you from connecting to the video server. Do not set the proxy server. Please be sure that the default gateway address is correct. Your router might need Port conversion. Refer to the user manual of your router for details. The package filtering function of the router might have blocked the access to the external Internet. Refer to the user manual of your router for details. If you are using DDNS, please remember to set the default gateway and server address. If none of the procedures above is working, please reset to the factory default values and re-install. If the problem still persists, there might be some problems with the product. Contact the dealer who sold you the product for more help.
No image appears on the main control screen.	<ul style="list-style-type: none"> When using PC to connect to the video server for the first time, a security warning window will tell you that you need to download the ActiveX control. When you are using Windows 2000 or Windows XP, you might need a properly-authorized user account to install the application. Network traffic might slow down the video streams. If the video is extremely slow, select a lower resolution for a lower bandwidth requirement.

Check whether the Active X control of the video server has been installed in your computer.	Select C:\Windows\Downloaded Program Files to check if the file "Media Viewer Class" is registered . The status bar should indicate the file has been installed. If you do not see this file, be sure that your Internet Explorer security is properly set (the default value is moderate). Re-connect to the video server main page and download the file again. Incomplete download or installation of the video server ActiveX control is the major reason for this problem. Check the security setting of your Internet Explorer. Close and re-open Internet Explorer, and enter the main page to see if you can log in.
Internet Explorer displays the following message: Downloading the ActiveX control is prohibited under the current security setting."	Change the IE security setting to allow downloading unsigned ActiveX control. IE→Tools→Internet Options→Security→Custom Level. Change "Inactive" to "Tips" for the ActiveX control if required.
The video server can operate only in the LAN rather in the Internet environment.	<ul style="list-style-type: none"> • A firewall mechanism might have been activated. Check the setting of your system or ask your network administrator. To access the video server from the Internet, you may need to change the setting of the firewall. • Make sure that your video server does not conflict with other servers on the same LAN. • Check the router and make sure that its setting allows it to access your video server from the Internet.
The number of frames transmitted are less than the defined value.	<ul style="list-style-type: none"> • Congestion of the network or objects of the image may affect the number of frames transmitted. The number of frames may be less than the defined value when they are transmitted via a congested network. • The number of frames transmitted may become less when multiple users are viewing the video stream. • The network hub might be another reason for this problem, especially when multiple video server video streams are viewed simultaneously.
When the audit function is activated, the video streaming area becomes black or the transmission becomes slower.	<ul style="list-style-type: none"> • When you connect your PC to the video server, no sufficient bandwidth is available to support more frames with the current resolution of video streams. Reduce the resolution to QCIF(176x144) or CIF (320x240) and deactivate the audio function. • The audio signal needs 32 to 64 kbps of your bandwidth. You can deactivate the audio function to improve the image quality. Your Internet service may have not sufficient bandwidth to support audio transmission.
Images cannot be transmitted via e-mail or FTP.	<ul style="list-style-type: none"> • Make sure the IP address of the gateway and domain server (DNS) have been defined correctly. • Where FTP still fails, contact your ISP or network administrator to check the FTP server.
I can't control the camera to move up, down, right, left or to the center or preset point.	<ul style="list-style-type: none"> • When communication to the camera stops, click "Refresh" on your IE browser to refresh the transmission. • It might be that other users are controlling the movement of the camera. • The horizontal/vertical movement of the camera has reached its limit. • The horizontal/vertical remote control option of the camera might have been deselected.

I can't control the camera to move up, down, right, or left smoothly.	Delay might occur when you are accessing a video stream and remotely moving the camera horizontally. Where significant delay is identified when you move the camera horizontally or vertically deactivate the audio streams and/or reduce the size of the video stream...
Video server Image Quality	
Camera has a problem focusing.	<ul style="list-style-type: none"> The lens might be contaminated with dust, fingerprints, or other dirt. Use a special cleaning cloth to clean the lens or adjust the focus manually. Focusing might be impossible in some cases. If the object is too close to the lens, move it away from your camera.
Color of the video stream is too deep or light.	<ul style="list-style-type: none"> Please confirm that the image your are watching has the best quality. Adjust the setting of your display card (color quality) to at least 16 bits (24 bits or more are recommended). Incorrect video setting. You may need to adjust some parameters, such as brightness, contrast, color, and saturation.
Video stream flashes.	<ul style="list-style-type: none"> Incorrect power cord frequency may cause flashing of the image. Confirm that your video server uses NTSC or PAL system. The image flashes if the objects are black. In this case, adjust the illumination brighter around your camera.
This is noise problem during transmission of the image.	Noise may be produced if you install your camera at a very dark place. Adjust the illumination around your camera.
Others	
How to reboot my video server?	If you only need to re-boot the system and don't want to change any setting, enter the Setting page and select the Reboot option at the bottom of the screen. The system will reboot automatically.
I can't replay recorded files.	Confirm that you have installed Microsoft®'s DirectX 9.0 or above and use Windows Media Player 9 or above.

NOTE :

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

You are cautioned that any change or modifications to the equipment not expressly approve by the party responsible for compliance could void your authority to operate such equipment.