

# Multilingual Version

[English](#)

[中文](#)

**PUSH VIDEO**

**MEGAPIXEL WIRELESS  
NETWORK CAMERA SERIES**

**OPERATION GUIDE**

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

## IMPORTANT SAFEGUARD



All lead-free products offered by the company comply with the requirements of the European law on the Restriction of Hazardous Substances (RoHS) directive, which means our manufacture processes and products are strictly "lead-free" and without the hazardous substances cited in the directive.



The crossed-out wheeled bin mark symbolizes that within the European Union the product must be collected separately at the product end-of-life. This applies to your product and any peripherals marked with this symbol. Do not dispose of these products as unsorted municipal waste. Contact your local dealer for procedures for recycling this equipment.



This apparatus is manufactured to comply with the radio interference requirements.

### ***Federal Communications Commission Interference Statement***

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

Any changes or modifications made to this equipment may void the user's authority to operate this equipment. This equipment generates, uses, and can radiate radio frequency energy. 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.
- FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- All external cables connecting to this basic unit must be shielded.  
For cables connecting to PCMCIA cards, see the option manual or installation instructions.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device must not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

### ***RF exposure warning***

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

### ***DGT Warning Statement***

Article 12 Without permission, any company, firm or user shall not alter the frequency, increase the power, or change the characteristics and functions of the original design of the certified lower power frequency electric machinery.

Article 14 The application of low power frequency electric machineries shall not affect the navigation safety nor interfere a legal communication, if an interference is found, the service will be suspended until improvement is made and the interference no longer exists.

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This product doesn't have a standby / off mode.

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Further source codes which are subject to the GPL-licenses are available upon request.

We are pleased to provide our modifications to the Linux Kernel, as well as a few new commands, and some tools to get you into the code. The codes are provided on the FTP site, and please download them from the following site or you can refer to your distributor:

<http://download.dvrtw.com.tw/GPL/IPCAM/F-Series/linux.tar.gz>

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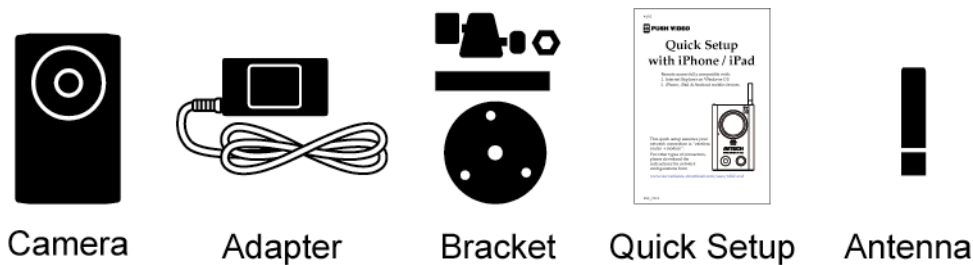
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# 1. OVERVIEW

## 1.1 Product Features

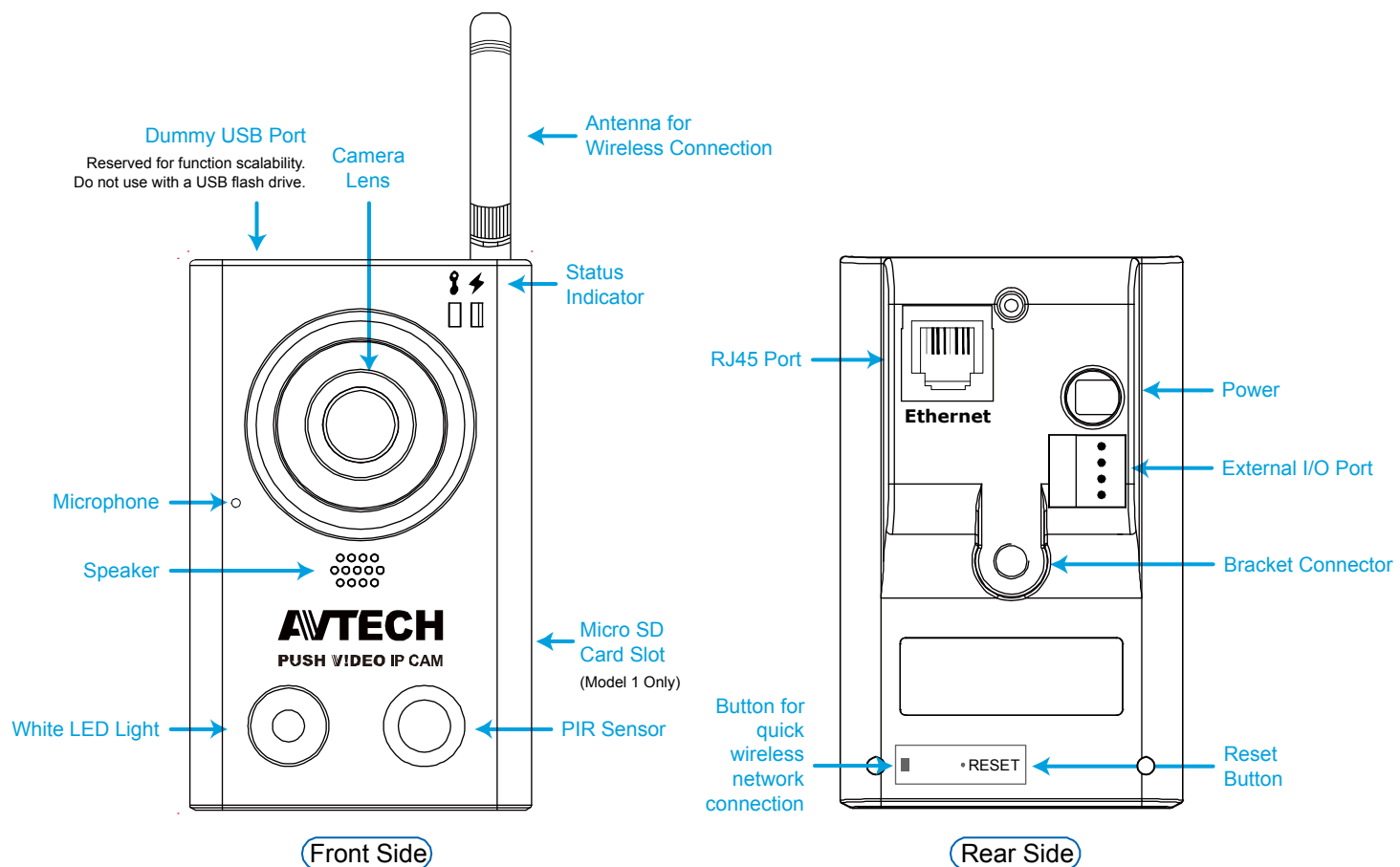
- Easy **network setup** with your **iPhone / iPad**
- Network access via either **wireless IEEE 802.11b/g/n** connection or a **wired Ethernet** connection to provide flexible installation options
- **Interchangeable antenna** – easy to improve wireless signal and expand its range
- **1.3 Megapixel with HDTV 720p** quality, allowing users to notice minor details more easily
- **Push Video** support to send an event notification to your iPad, iPhone and Android mobile device immediately once the specified event type is triggered, and play video recording once you confirm the receipt
- **White LED** built-in to illuminate the scene manually, scheduled by a timer, or triggered by an alarm or a motion event
- **External alarm I/O device** connection
- Microphone & speaker built-in for **two-way audio transmission**
- **Remote Surveillance**
  - Fully compatibility on **iPhone, iPad & Android** mobile devices, and **Internet Explorer®** on Windows® operating system
- (Model 1 Only) Micro SD card support for **video storage**

## 1.2 Package Content



**Note:** If you find Wi-Fi connection is weak, replacing the supplied antenna could be an alternative to improve wireless signal. Please be advised that the antenna you choose should meet the required specifications: (1) IEEE802.11b/g/n 2.4Ghz Wireless Network. (2) Antenna with reverse-SMA male connector.

## 1.3 Product Overview



## 1.4 Rear Panel

RJ45 Port:	Connect your network cable.
Power:	Connect the supplied regulated power supply.
External I/O Port	A 4-pin I/O terminal is supplied with the camera for external alarm device connection. For details, please refer to “1.5 External I/O Port” at page 2.
Reset Button:	With the power connected, press to reset all parameters, including the IP address to factory default settings.  The camera will reboot after default reset. Please do not disconnect your camera during the reset process.
Button for quick wireless network connection:	Used to quickly connect to your wireless network with simply one press if your wireless router also supports this function. For details, please check the user manual of your wireless router, and the instructions in the printed “Quick Setup” supplied with the camera.

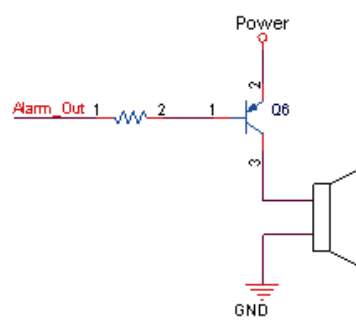
## 1.5 External I/O Port

This camera supports external I/O device connection, and a 4-pin I/O terminal is supplied with this camera for easy connection.

Below shows which input on the I/O terminal you should use for wiring when you want to connect an external device to this camera.





4-pin I/O Terminal



Alarm Out Connection

## 1.6 Status Indicator

ICON	 LAN connection status	 Internet connection status
<b>System Status</b>		
During powering on	Always on	Always on
Reset default	Blinking (on 250 ms, off 250 ms) ●○○●○○●○○●○○	Always off
Upgrade	Blinking (on 250 ms, off 250 ms) ●○○●○○●○○●○○	Blinking (on 250 ms, off 250 ms) ●○○●○○●○○●○○
<b>Connection Status</b>		
LAN connected	Always on	--
LAN disconnected	Blinking (on 100 ms, off 500 ms) ●○○●○○●○○	--
Internet connected	--	Always on
Internet disconnected	--	Blinking (on 100 ms, off 500 ms) ●○○●○○●○○
<b>Network Setup Incomplete</b>		
Port forwarding required	--	Blinking (on 5 sec, off 0.5 sec, on 0.5 sec, off 0.5 sec, on 5 sec) ●●●●○○●●●●

\* LED blinking frequency - ●LED on / ○LED off

## 1.7 Micro SD Card

For local video recording, a micro SD card slot can be found on the side of the camera.

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**Note:** Before inserting a micro SD card, make sure you've copied all important data saved in the card (if any) to other storage media, or the data will be removed after inserting it to the camera.

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With the golden contact toward the slot, slightly push and insert the optional micro SD card to the slot, as indicated on the right.

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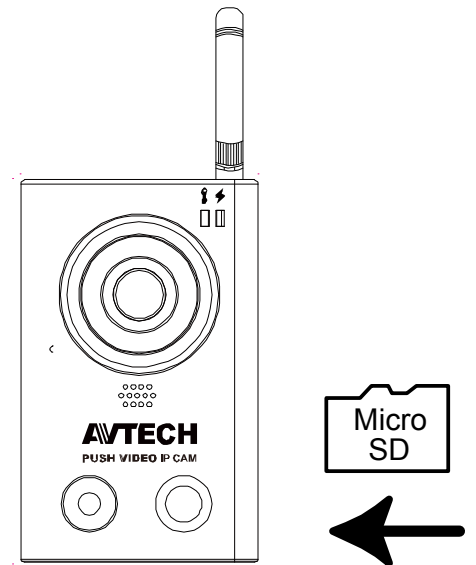
**Note:** It's recommended to insert or remove the micro SD card with power disconnected, or the camera will reboot.

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**Note:** For the compatible list of the micro SD card, please refer to "APPENDIX 3 MICRO SD CARD COMPATIBLE LIST" at page 26.

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## 2. CAMERA ACCESS WITH INTERNET EXPLORER

This network camera can be accessed via Microsoft® Internet Explorer® and iPhone® / iPad® / Android™ mobile devices with our self-developed program “EagleEyes” installed depending on different using situations.

**Note:** For details about accessing network cameras via iPhone / iPad / Android mobile devices, please refer to <http://www.eagleeyesccv.com>.

Before using the camera, make sure you have configured the network settings, and the network connection is fine.

For network configurations, please refer to:

- **“Quick Setup With iPhone / iPad”** supplied with your camera if you’re using iPhone / iPad, and your network environment is wireless.
- **“ADVANCED NETWORK SETUP”** downloadable from [www.surveillance-download.com/user/n812.swf](http://www.surveillance-download.com/user/n812.swf) if your network environment is not wireless.

### 2.1 Camera Login

Step1: Open your web browser, and key in <http://ipaddress:portnum> in the URL address box.

For example, for the IP address 60.121.46.236 and port number 888, please key in “<http://60.121.46.236:888>” into the URL address box, and press “Enter”.

Step2: In the login page, key in the user name and password, and enter the security code from the image below if any. Then, click “LOGIN”.

Step3: The wizard is then started.

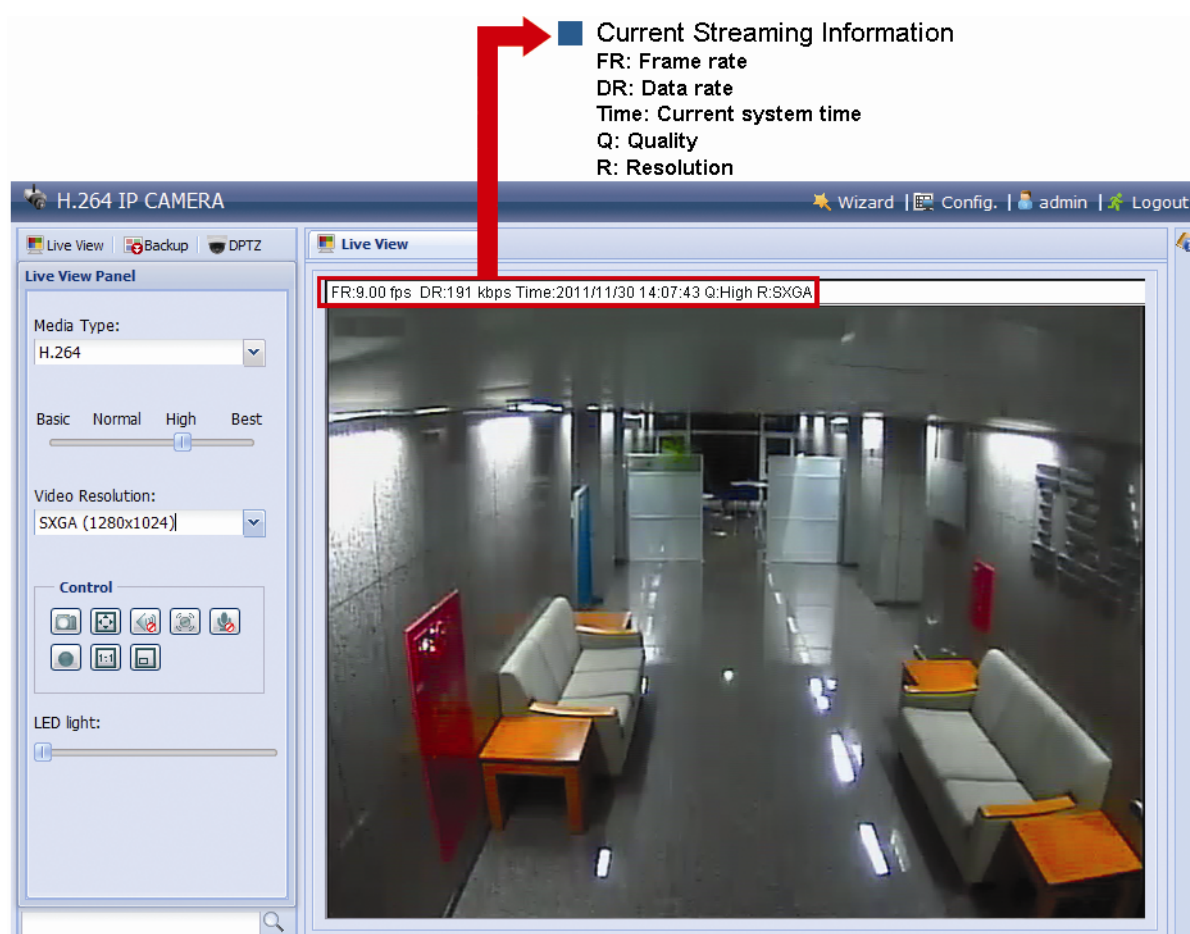
- To skip the wizard and directly access the camera live view, click “Close”.
- To directly access the camera live view without starting the wizard for the login next time, check “Do not start wizard at login”.















**Note:** If you’re prompted to install “VLC player”, “Software” or “H264 Streaming Viewer”, please agree to proceed the installation. Or, you might not be able to see the live view properly.

Step5: When the login is successful, the live view is shown.

### 2.2 Control Panel Overview

**Note:** The buttons available may depend on the models you have and the user level used to log in.

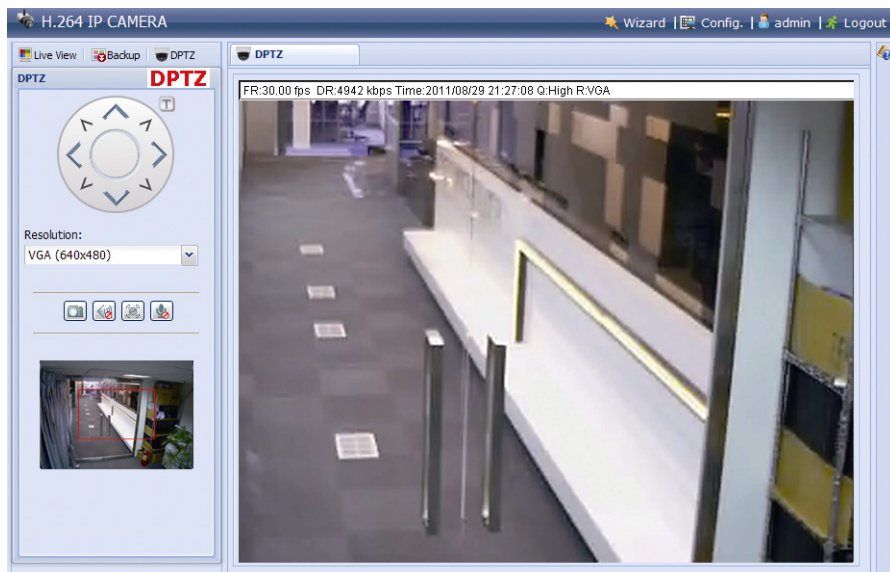


Function	Icon	User Level	Description
Live		Supervisor / Power User / Normal User / Guest	Switch to the live view page.
DPTZ		Supervisor / Power User / Normal User	Switch to the DPTZ configuration page. For details, please refer to "2.3 Digital PTZ (DPTZ) Operations" at page 6.
Backup		Supervisor / Power User	Enter the event record list for video playback. For details, please refer to "2.4 Event Record Search & Playback" at page 6.
Config.		Supervisor	Switch to the system configuration page, and the functions available for "Supervisor" and "Power User" are different. For details, please refer to "3.1 System configuration menu" at page 8.
Media Type	--	Supervisor / Power User / Normal User / Guest	Select the image player from the drop-down list: <ul style="list-style-type: none"> <li>■ H.264 / MPEG-4 / Motion JPEG</li> <li>■ QuickTime</li> </ul> <p>QuickTime is Apple Inc.'s multimedia software. You need to have QuickTime installed in your operating system before selecting "QuickTime". When it is selected, you will be promoted to enter the user name and password to access the camera.</p> <ul style="list-style-type: none"> <li>■ VLC</li> </ul>
Quality	--	Supervisor / Power User / Normal User	Click & drag the slider to select the video quality: Basic / Normal / High / Best.
Video Resolution	--	Supervisor / Power User / Normal User	Select the image resolution from the drop list: <ul style="list-style-type: none"> <li style="width: 50%;">■ SXGA (1280 x 1024)</li> <li style="width: 50%;">■ HD720P (1280 x 720)</li> <li style="width: 50%;">■ QVGA (320 x 240)</li> <li style="width: 50%;">■ VGA (640 x 480)</li> </ul>
Live View Size:		Supervisor / Power User / Normal User	
Normal Size			The current live view size is the same as the selected resolution.
Fit to screen			The selected resolution is resized to fit into the current live view size. <i>This icon doesn't work when the selected resolution is VGA or QVGA.</i>
Scale			Click and hold the movable square on the left bottom corner of the live view to move <i>This icon appears only when the selected resolution is larger than the current live view size.</i>
CIF Resize			The QVGA resolution is resized to fit into the current live view size. <i>This icon appears only when the selected resolution is QVGA (CIF).</i>
Snapshot		Supervisor / Power User / Normal User	Click to take a snapshot of the current view on a new window. Right click on the picture and re-save it to the location you want.
Full Screen		Supervisor / Power User / Normal User	Click to display the image in full screen. To exit the full screen mode, press "Esc" on your keyboard.
Audio On / Off		Supervisor / Power User / Normal User	Click to switch the audio-in on / off.
Alarm Out		Supervisor / Power User / Normal User	Click to force the connected alarm-out device to work. For example, when your alarm device is a buzzer, click this button and your buzzer will start to sound even if there's no alarm event. <i>If no alarm-out device is connected, the internal buzzer of the camera will start to sound.</i>
Microphone		Supervisor	Click to switch the audio-out on / off.
Record On / Off		Supervisor / Power User / Normal User	Click to start / stop video recording. A micro SD card must be inserted for this function to work properly.
LED Light	--	Supervisor / Power User / Normal User	Click and drag the slider to adjust the brightness of the LED light. <i>When the brightness level is adjusted to 100%, the system will enable the brightness of 100% for 3 minutes, reduce to 50% for 1 minute, and return to 100% for 3 minutes, etc. This is to protect and extend the lifetime of the white LED.</i>

## 2.3 Digital PTZ (DPTZ) Operations

This camera has PTZ capability, i.e. digital PTZ (hereafter called “DPTZ”), for wide area monitoring.

STEP1: Click “DPTZ” to show the DPTZ control panel.



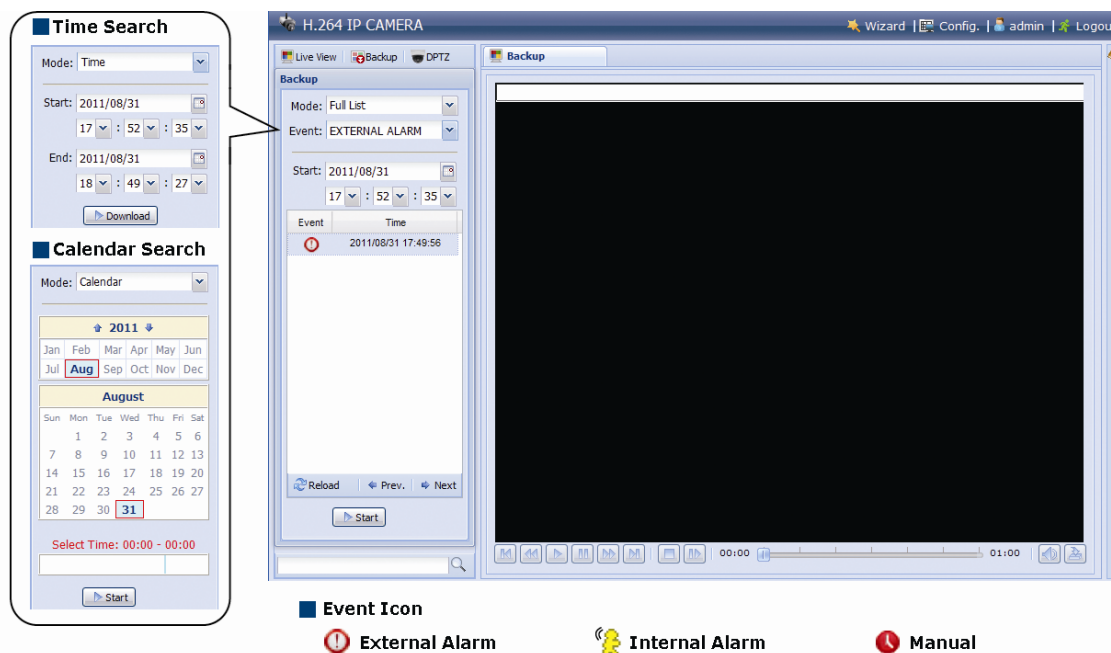
STEP2: Select the functions when needed:










FUNCTION	ICON	DESCRIPTION
Resolution	--	Select the video resolution for the DPTZ function. Only “VGA” and “QVGA” are available.
Take snapshots		Click to take a snapshot of the current view on a new window. Right click on the picture and re-save it to the location you want.
Audio On / Off		Click to switch the audio-in on / off.
Alarm Out		Click to force the connected alarm-out device to work. For example, when your alarm device is a buzzer, click this button and your buzzer will start to sound even if there’s no alarm event. <i>If no alarm-out device is connected, the internal buzzer of the camera will start to sound.</i>
Microphone		Click to switch the audio-out on / off. <i>Available only when you’re a “Supervisor”.</i>

## 2.4 Event Record Search & Playback

This camera can only save up to three alarm recordings. To save more recorded data, it’s recommended to use this camera with a compatible NVR.

**Note:** It’s available for Model 1 to insert a compatible micro SD card to extend video storage. To know how and where to insert a micro SD card, please refer to “1.7 Micro SD Card” at page 3. To know the compatible list of micro SD cards, please refer to “APPENDIX 3 MICRO SD CARD COMPATIBLE LIST” at page 26.



	Previous / Next Hour	Click to jump to the next / previous time interval in an hour, for example, 11:00 ~ 12:00 or 14:00 ~ 15:00, and start playing the earliest event video clip recorded during this whole hour.
	Fast Forward	Increase the speed for fast forward. Click to get 2X, 4X, 8X & 16X speed forward eventually.
	Fast Rewind	Increase the speed for fast rewind. Click to get 2X, 4X, 8X & 16X speed rewind eventually.
	Play	Click to play the current video clip.
	Pause	Click to pause the video playback.
	Stop	Click to stop the video playback.
	Step	In the pause mode, click to get one frame forward.
	Audio	Click to mute the playback if necessary, and click again to restore.
	Download	Click to download the current video clip to the specified path in your PC. <i>The downloaded video can only be opened by our own video player. Please go to "General" → "Maintenance" to download the video player, or get the player from the CD supplied with the sales package.</i>

## 3. CAMERA CONFIGURATIONS

Users can further configure this network camera by accessing via Internet Explorer.

### 3.1 System configuration menu

Click “Config.” to enter the configuration page.

**Note:** You need to be “Supervisor” to enter the system configuration page. If not, please re-log into the camera with the supervisor user level.

The functions are categorized into six menus: Network, Camera, Record Timer, Storage, Trigger and General.

- For details about “Network”, please refer to “3.2 Network” at page 9.
- For details about “Camera”, please refer to “3.3 Camera” at page 13.
- For details about “Record”, please refer to “3.4 Record” at page 15.
- For details about “Storage”, please refer to “3.5 Storage” at page 16.
- For details about “Trigger”, please refer to “3.6 Trigger” at page 17.
- For details about “General”, please refer to “3.7 General” at page 18.

Main Menu	Sub-Menu	Reference
Network	Network	Configure network settings.
	QoS	Limit the data flow for live streaming.
	Wireless	Configure the camera to connect to your wireless network.
	DDNS	Enter DDNS information when the network type is PPPOE or DHCP.
	SNTP	Synchronize your camera time with the networked computer systems.
	FTP	Enter the FTP information for event notifications when “FTP” is chosen in “Trigger” → “Trigger”.
	Mail	Enter Email information for event notifications when “Email” is chosen in “Trigger” → “Trigger”.
	Filter	Choose to permit or block the IP address(es) which can access this camera.
	UPnP	<i>*Suitable for Windows-based operating system.</i> Allow this camera to be detected among devices within the same network area for easy and quick usage.
	Bonjour	<i>*Suitable for Apple Mac-based operating system.</i> Allow this camera to be detected among devices within the same network area for easy and quick usage.
Camera	Camera	1. Set the camera title. 2. Specify the display position of the camera title.
	Video	Adjust video-related settings in different video format.
	Color	Adjust the color performance.
	Audio	Adjust the audio volume of the microphone and speaker.
	LED	1. Set if the LED light will be activated automatically when the monitoring area is dark. 2. Schedule when the LED light will be activated.
	Advance	Adjust the camera parameters if necessary.
Record	Record	Configure the record function.
	Record Timer	1. Enable and schedule the record timer for external alarms. 2. Enable and set the record duration in second for human detection events.
Storage	Memory	Check the current storage capacity and clear all recorded data when needed.
Trigger	Trigger	1. Enable / disable the motion detection. 2. Set the motion detection area. 3. Configure how the camera reacts for any event.
	Push Video	1. Set Push Video rules. 2. Enable and schedule when to enable Push Video.



Main Menu	Sub-Menu	Reference
General	General	<ol style="list-style-type: none"> <li>1. Select the language of the web browser.</li> <li>2. Check the MAC address of the camera.</li> <li>3. Lock camera access after the specified time.</li> <li>4. Enable or disable LED status indication.</li> </ol>
	Time	Set daylight saving time and the current time.
	Server Log	Check the system event logs.
	Online	Check the current online user(s).
	Account	<ol style="list-style-type: none"> <li>1. Create a new user account with different access privilege.</li> <li>2. Modify or delete an existing user account.</li> </ol>
	Maintenance	<ol style="list-style-type: none"> <li>1. Check the current firmware version and upgrade your camera.</li> <li>2. Copy system configurations.</li> <li>3. Reboot the camera.</li> <li>4. Download the video player to play the recorded data.</li> </ol>

## 3.2 Network

### 3.2.1 Network

You can set the network configuration of the network camera depending on your network type.

For details, please refer to “Advanced Network Setup” from [www.surveillance-download.com/user/n812.swf](http://www.surveillance-download.com/user/n812.swf).

### 3.2.2 QoS

QoS, Quality of Service, is the ability to control the data flow for real-time streaming. This function is important if your network bandwidth is insufficient and you have other devices to share the network bandwidth.

Check “QoS Enable”, and set the max. upload rate from 256 to 10240 kbps.

### 3.2.3 Wireless

Configure the camera to connect to your wireless network if you’re not using the quick wireless network connection function. For details, please refer to “Advanced Network Setup” downloadable from

[www.surveillance-download.com/user/n812.swf](http://www.surveillance-download.com/user/n812.swf).

### 3.2.4 DDNS

Select “On” when the selected network type in “Network” is “PPPOE” or “DHCP”.

For details, please refer to “Advanced Network Setup” from [www.surveillance-download.com/user/n812.swf](http://www.surveillance-download.com/user/n812.swf).

### 3.2.5 SNTP

SNTP (Simple Network Time Protocol) is used to synchronize your camera time with the networked computer systems.

Function	Description
GMT	Once users choose the time zone, the network camera will adjust the local area time of the system automatically.
NTP Server	Simply use the default SNTP server (For example, tock.stdtime.gov.tw) or change to another server with which users are familiar.
Sync. Period	Select “Daily” to synchronize the camera time with the network time every day or “None” to turn off this function.
Sync	Click and the network camera will synchronize the time with the network time.

### 3.2.6 FTP

Enter the detailed FTP information and click “Save” to confirm. The information you set here will be applied when “FTP” is selected in “Trigger” → “Trigger”.

### 3.2.7 MAIL

Enter the detailed e-mail information and click “Save” to confirm. The information you set here will be applied when “Email” is selected in “Trigger” → “Trigger”.

The screenshot shows two sections of a web interface. The top section, titled "SMTP Configuration", contains several input fields: "SMTP Server" (smtp.gmail.com), "Port" (465), "Mail From" (manager), "SSL Encryption" (radio buttons for Yes and No, with Yes selected), "Verify Password" (radio buttons for Yes and No, with Yes selected), "Username" (manager), and "Password" (masked with dots). Below these fields are "Save", "Test", and "Reload" buttons. The bottom section, titled "E-Mail Address List", has an "E-Mail Address:" input field with "Add", "Edit", and "Delete" icons. Below is a table with two columns: "Receiver Name" and "E-Mail Address". One row is visible with "boss" and "boss@tech.com".

Function	Description
SMTP Server	Enter the SMTP server address provided from your e-mail system supplier.
Port	Enter the port number provided from your e-mail system supplier. If this column is left blank, the e-mail server will use port 25 to send e-mails.
Mail From	Enter the name of the sender.
SSL Encryption	Select “Yes” if your e-mail server is using SSL encryption to protect your e-mail content from unauthorized access.
Verify Password	Some mail servers are required to verify the password. Please enter the “user name” and “password”.
E-Mail Address List	Add the e-mail address(s) of the assigned recipient(s).
Test	When all information is entered, click “Test Mail” to try if the receipt.

### 3.2.8 Filter

Choose to permit or block the IP address(es) which can access this camera, and click “Save” to confirm.

The screenshot shows the "Filter Configuration" interface. It includes "Error Count" (3), "Error Lock Time" (1 Minute(s)), and "Echo Request" (radio buttons for Non-Block and Block, with Non-Block selected). Below is the "IP/MAC Filter Configuration" section with "IP/MAC Filter" (radio buttons for Enable and Disable, with Enable selected) and "IP/MAC Filter Policy" (radio buttons for Allow and Deny, with Allow selected). The "IP/MAC Filter Rules" section has a "Rule:" input field with "192.168.1.122" and "Add", "Delete", and "Help" icons. Below is a table with one row: "192.168.1.23". At the bottom are "Save" and "Reload" buttons.

Function	Description
<b>Filter Configuration</b>	
Error Count	Set the maximum count for login failure. When the maximum count is reached, the IP address trying to access the network camera will be locked.
Error Lock Time	Set the lock time in minutes when the maximum count of error login for an IP address is reached.
Echo Request	Select “Non-Block” to allow other users to use the ping command to detect the IP address of your network camera, or “Block” to deny the ping command request.
<b>IP/MAC Filter Configuration</b>	
IP/MAC Filter	Choose to enable or disable the filter function.
IP/MAC Filter Policy	If “Enable” is selected, choose whether you want to permit (Allow) or block (Deny) the IP address list below.
<b>IP/MAC Filter Rules</b>	
Rule	<ul style="list-style-type: none"> <li>To add an item to the IP address list, key in the IP address in “Rule”, and click “Add”.</li> <li>To remove an existing item in the IP address list, click the item you want to remove, and click “Delete”.</li> </ul>



### 3.2.9 UPnP / Bonjour

“UPnP” stands for “Universal Plug and Play”, which allows devices to connect seamlessly in the home and corporate environments and simplify installation of computer components, and is only suitable for Microsoft Windows-based operating system.

“Bonjour” functions the same as “UPnP”, but it’s only suitable for Apple Mac-based operating system.

#### ➤ UPnP

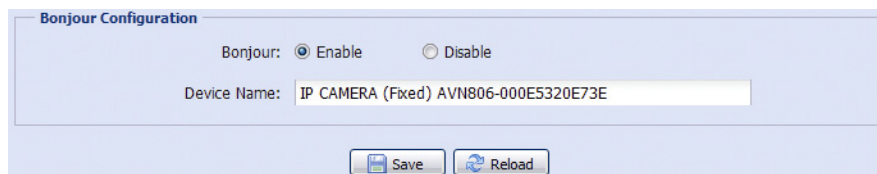


UPnP Configuration

UPnP:  Enable  Disable

Friendly Name:

#### ➤ Bonjour




Bonjour Configuration

Bonjour:  Enable  Disable

Device Name:

Check “Enable” to allow the network camera to be detected among devices within the same network area, and set the identification name of the camera in “Friendly name”.

When this function is activated, the other PC within the same domain as this camera will be able to search this camera in:

- “Network Neighbor” with the identification name set in “Friendly name” for Windows-based PC, or
- “” (finder) or “Bookmark” with the identification name set in “Device Name” for Mac-based PC.

Double-click it to quickly open the web browser for camera access.

#### **Port Mapping (Available only in UPnP)**

This function can eliminate the need to additionally access the router for port forwarding.

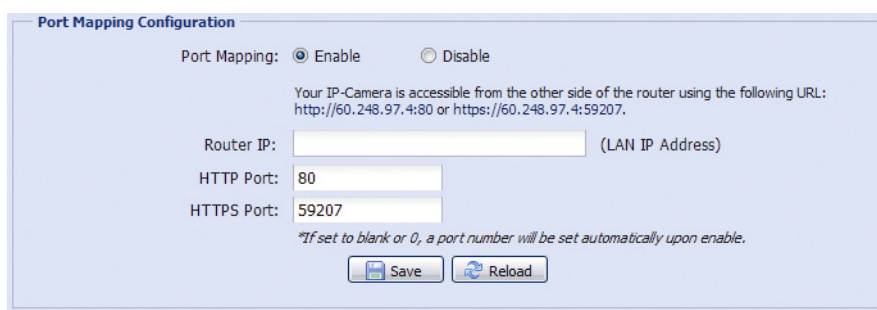
For details, please refer to “Advanced Network Setup” from [www.surveillance-download.com/user/n812.swf](http://www.surveillance-download.com/user/n812.swf).

---

**Note:** Before using this function, make sure your router supports UPnP, and this function is enabled. If not, please access your router additionally for port forwarding.

---

When “Port Mapping” is set to “Enable”, the system will automatically assign an IP address or port number for you if no IP address or port number is entered.



Port Mapping Configuration

Port Mapping:  Enable  Disable

Your IP-Camera is accessible from the other side of the router using the following URL:  
http://60.248.97.4:80 or https://60.248.97.4:59207.

Router IP:  (LAN IP Address)

HTTP Port:

HTTPS Port:

\*If set to blank or 0, a port number will be set automatically upon enable.

---

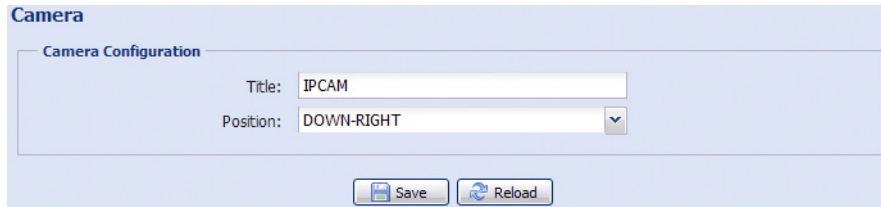
**Note:** When the configurations are saved successfully, you’ll see a message indicating the IP address and port number assigned to this network camera.

---

## 3.3 Camera

### 3.3.1 Camera

In this menu, you can set the camera title, and specify where to display this title on the display.



Camera Configuration

Title: IPCAM

Position: DOWN-RIGHT

Save Reload

### 3.3.2 Video

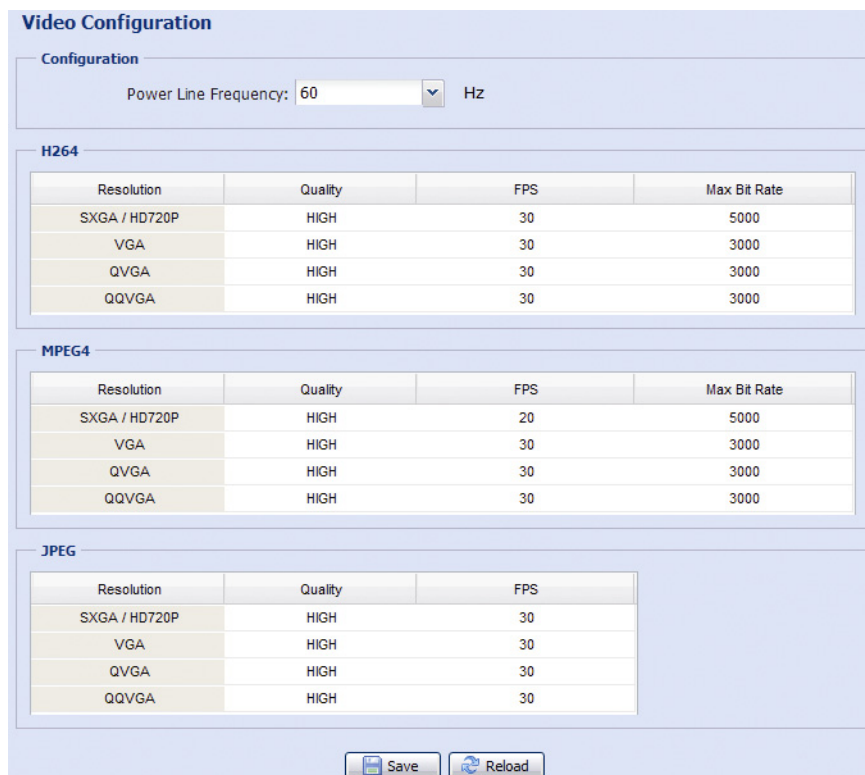
Adjust video-related settings in different video format.

- “Quality” is related to image clearness.
- “FPS” is related to the fluency of the video. The more the FPS, the more fluent the video.
- “Max Bit Rate” is the maximum limitation of data transmission in the selected image format and resolution.

---

**Note:** QQVGA is for mobile surveillance.

---



Video Configuration

Configuration

Power Line Frequency: 60 Hz

H264

Resolution	Quality	FPS	Max Bit Rate
SXGA / HD720P	HIGH	30	5000
VGA	HIGH	30	3000
QVGA	HIGH	30	3000
QQVGA	HIGH	30	3000

MPEG4

Resolution	Quality	FPS	Max Bit Rate
SXGA / HD720P	HIGH	20	5000
VGA	HIGH	30	3000
QVGA	HIGH	30	3000
QQVGA	HIGH	30	3000

JPEG

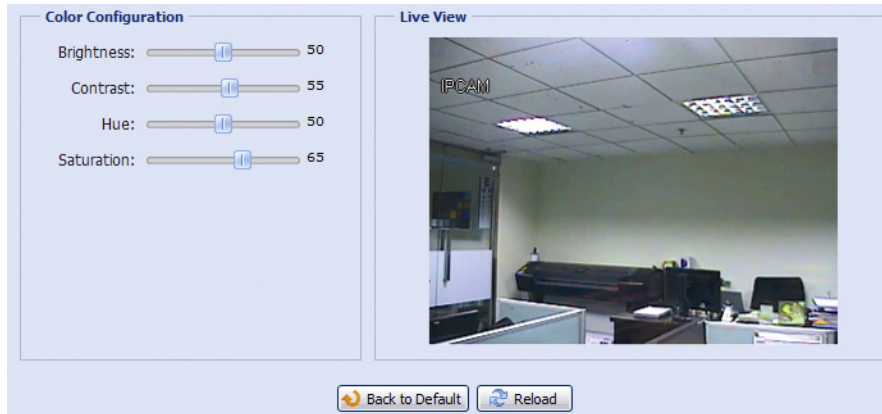
Resolution	Quality	FPS
SXGA / HD720P	HIGH	30
VGA	HIGH	30
QVGA	HIGH	30
QQVGA	HIGH	30

Save Reload

### 3.3.3 Color

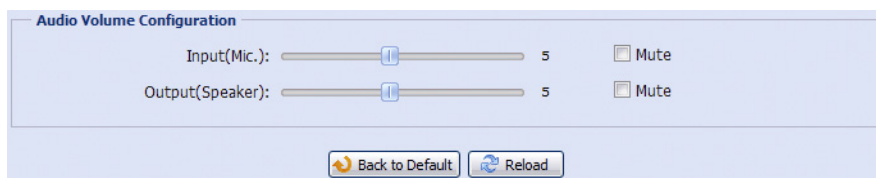
Adjust the color performance from Brightness, Contrast, Hue and Saturation. Click and drag the slider to preview the color change on the right side of this page and adjust the image color.

To restore the default values, click "Back to Default".



### 3.3.4 Audio

Drag the slider to adjust the volume of the microphone and speaker.



### 3.3.5 LED

To enable the LED light when the monitoring area is getting dark, select "Yes" in "Auto Enable".

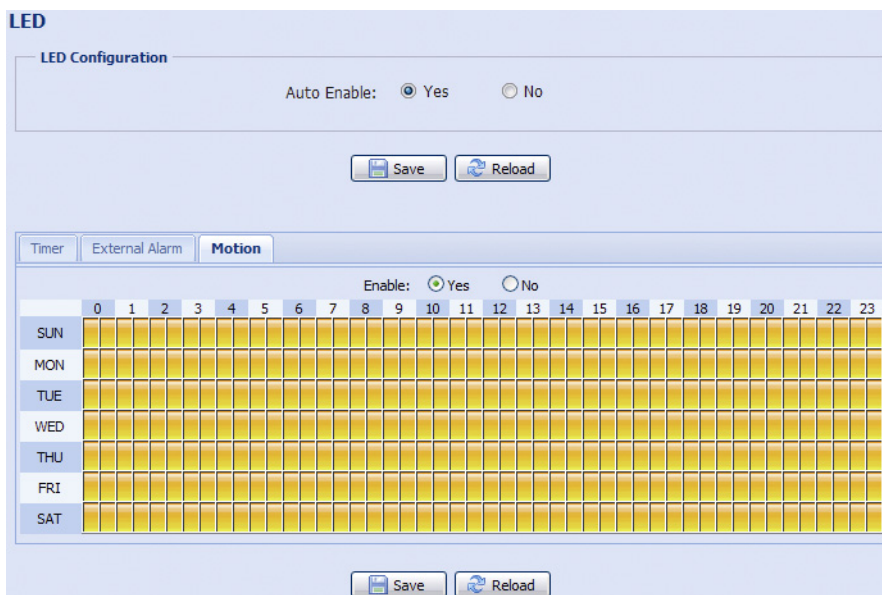
To schedule the LED light to be on, select "Timer" to enable the schedule and set the day and time.

To specify the day and time to enable the LED light when an external alarm or a motion event occurs, select "External Alarm" or "Motion" to enable this function, and set the day and time.

---

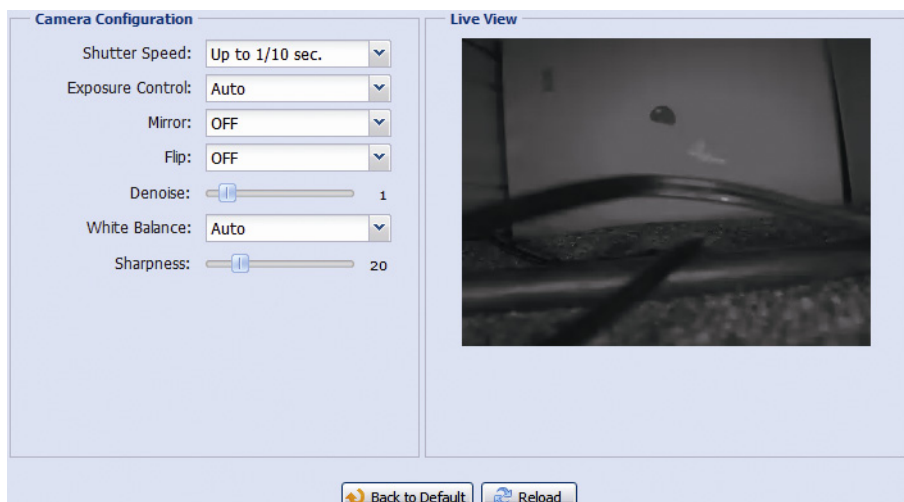
**Note:** For the LED light activation to work properly, please go to "Trigger" → "Trigger" to enable external alarm detection or motion detection, and select the LED alert event. For details, please refer to "3.6.1 Trigger" at page 17.

---



### 3.3.6 Advanced

Adjust the camera parameters if necessary.



Item	Description
Shutter Speed	Set the shutter speed based on your need. The options are: Up to 1/10 sec, Up to 1/30, Up to 1/15, Up to 1/6, Up to 1 and Up to 2.
Exposure Control	This function is used to synchronize the shutter time to the fluorescent light to suppress image flickering.
Mirror	Select "ON" to rotate the images horizontally based on your installation situation when necessary.
Flip	Select "ON" to rotate the image 180° when necessary.
De-noise	Click and drag the slider to adjust the level from 0 ~ 10 to decrease the noise shown in the dark environment.
White Balance	Process the current image to retain color balance over a color temperature range. The options are: Auto, Incandescent Light, Cool Light, sun Light, Cloudy & Sun Shade.
Sharpness	Sharpness enhances the clarity of image detail by adjusting the aperture and sharpening the edges in the pictures. Hold and drag the slider to adjust the level of sharpness from 0 ~ 100. The higher the value, the sharper the image.

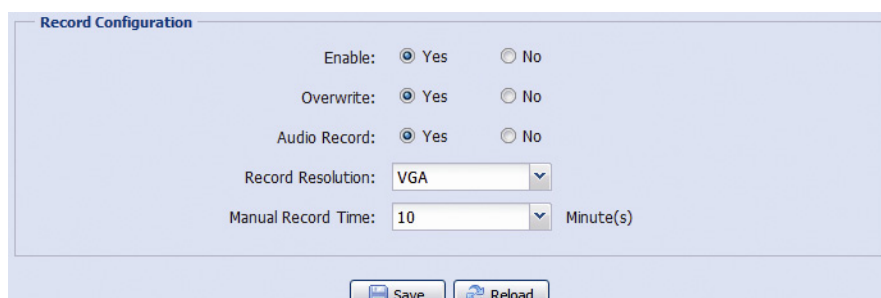
## 3.4 Record

### 3.4.1 Record

In "Record Configuration", you can:

- Enable or disable all the record functions, such as manual record, motion record and alarm record. When "Enable" is set to "No", all record functions are disabled even if you enable any of them in other configuration pages.
- Select if the data should be overwritten when the memory storage is full.
- Enable or disable the audio record function.
- Select the video resolution for event recording: SXGA / HD720P, VGA, and QVGA.
- Set the manual record time in minutes (1 / 5 / 10 / 30 / 60) when you click the manual record icon (📹) on the live page.

**Note:** The higher resolution you choose, the more accuracy and higher image quality the recording will be, but the faster the memory storage is consumed and become full.



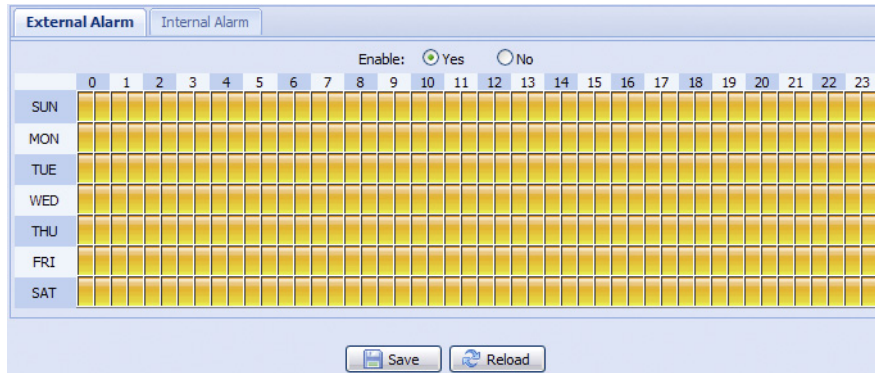
### 3.4.2 Record Timer

To schedule alarm recording or human detection recording, click “External Alarm” or “Internal Alarm” (human detection) to enable the recording, and select the day and time for recording.

---

**Note:** The timer must be enabled for the record function to work properly.

---



## 3.5 Storage

### 3.5.1 Memory

In “Memory”, you can check the remaining capacity for recording, or clear all recorded data saved if needed.

---

**Note:** The recorded data will be removed also for Model 2 when you reset or reboot this camera.

---

This camera can only save up to three alarm recordings. To save more recorded data, it’s recommended to use this camera with the compatible NVR.

---

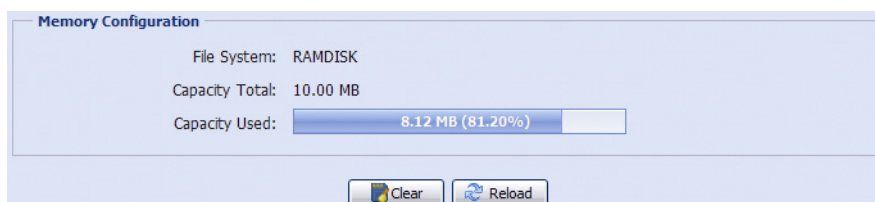
**Note:** It’s available for Model 1 to insert a compatible micro SD card to extend video storage. To know how and where to insert a micro SD card, please refer to “1.7 Micro SD Card” at page 3. To know the compatible list of micro SD cards, please refer to “APPENDIX 3 MICRO SD CARD COMPATIBLE LIST” at page 26.

---

---

**Note:** To know the total recording time per recording resolution, please refer to “APPENDIX 5 RECORDING TIME TABLE” at page 28.

---

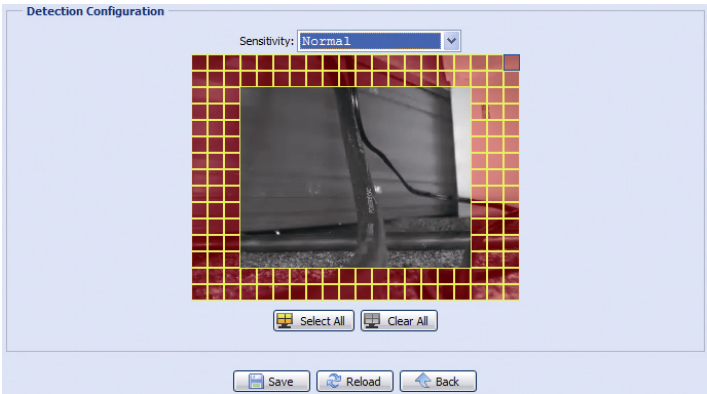


## 3.6 Trigger

### 3.6.1 Trigger

You can configure how this camera reacts when there's an external alarm, a motion or PIR event.

#### ◆ Detect

Item	Description
External Alarm	Enable or disable detection from external alarm-in device, and click the title "External Alarm" (in blue) to set "N.O." or "N.C." depending on the configuration of your alarm-in device.
Motion	<p>Enable or disable motion detection.</p> <p><i>Motion detection is not supported when the stream format is Motion JPEG.</i></p> <p>When "ON" is selected, click "Detection" to enter the motion detection area setting page as follows:</p>  <p><b>Sensitivity:</b> Set the detection sensitivity from the drop-down list: High, Normal or Low.</p> <p><b>Area Setting:</b> Set the motion detection area by selecting the area grids with your mouse. Pink grids represent the area that is not being detected while the transparent grids are the area under detection. You can set multiple areas under detection. Click "Clear All" to set the whole area undetected. Click "Select All" to set the whole area under detection.</p>
PIR	Enable or disable human detection.
Duration	Set the duration time for trigger recording (5 / 10 / 20 / 40 seconds).

#### ◆ Action

Here defines how the camera delivers alerts to you for any event.

Item	Description
E-Mail	<p>Select the event type you want to receive E-mail notifications when it occurs.</p> <p>Then, click the title "E-Mail" (in blue) to configure the media type (H264 / JPEG / MPEG4), file format (AVC / AVI), and record time (1 ~ 5 seconds) for the event video clip.</p> <p>The camera will send the captured video clip to the E-mail address(s) you assigned in "Network" → "Mail" once the selected event type occurs.</p>
FTP	<p>Select the event type you want to receive FTP notifications when it occurs.</p> <p>Then, click the title "FTP" (in blue) to configure the media type (H264 / JPEG / MPEG4), file format (AVC / AVI), and record time (1 ~ 5 seconds) for the event video clip.</p> <p>The camera will upload the captured video clip to the FTP site you assigned in "Network" → "Mail" once the selected event type occurs.</p>
Alarm Out	<p>Select the event type you want to trigger the alarm-out device to work when it occurs.</p> <p>Then, click the title "Alarm Out" (in blue) to configure the trigger rule (LOW / HIGH).</p>



Item	Description
LED Alert	Select the event type you want to enable the LED light when it occurs. <i>For "External Alarm" and "Motion", make sure you also enable the schedule timer in "Camera" → "LED". For details, please refer to "3.3.5 LED" at page 14.</i>
Record	Select the event type you want to enable event recording when it occurs.
Audio Alert	Select the event type you want to enable audio alert when it occurs.

### 3.6.2 Push Video

"Push Video" is an active notification system, different from traditional FTP and Email notification methods.

**Note:** For Push Video to work properly, make sure the record function is on in "Record" → "Record", and the record timer for the external alarm is on in "Record" → "Record Timer".

Item	Description
Guard	Select to enable or disable Push Video. This function can also be enabled from your iPhone or Android mobile devices.
LED Lock	Select to fix the LED light mode to auto (Enable) or remain the current LED light mode (Disable) when Push Video is enabled. When this function is enabled, it could ensure Push Video recording to get enough light when the environment is dark. This function is set to "Enable" by default.
Slow Shutter Lock	Select to fix the slow shutter level to level 2 (Enable) or remain the current slow shutter level (Disable) when Push Video is enabled. When this function is enabled, it could ensure Push Video recording to get clear images when the environment is dark. This function is set to "Enable" by default.
Guard Rule	Select the rule to enable Push Video from "External Alarm", "Internal Alarm", or "Internal Alarm OR External Alarm". <ul style="list-style-type: none"> <li>■ External Alarm – The alarm device additionally connected to your camera</li> <li>■ Internal Alarm – The human detection function built in this camera</li> </ul> This function is set to "Internal Alarm OR External Alarm" by default.
Message	Define the context when you receive the Push Video message on your iPhone or Android mobile device. Up to 28 characters are allowed.

To schedule when to enable or disable Push Video, please enable the Push Video timer, and select and day and time to enable this function.

## 3.7 General

### 3.7.1 General

To change the language of UI interface, select from the drop-down list in “Language”.

To allow the status LED indicators to show the status as indicated in “1.6 Status Indicator” at page 2, select “ON” “Enable” in “Status LED Mode”; to hide the status, select “OFF”; to only show the error status, select “Temporary Disable”.

---

**Note:** The status LED mode will be restored to “Enable” after camera reboot when “Temporary OFF” is selected.

---

To lock camera access when it’s not used after the specified time, select “5 MIN”, “15 MIN” or “30 MIN” from the drop-down list of “Auto Lock Time”, or select “NEVER” to disable this function.

---

**Note:** When the camera access is locked after the specified time, to resume camera access, please enter the password.

---

**General**

**General Configuration**

Language: English

Status LED Mode: Enable

Auto Lock Time: 15 MIN

MAC Address: 00:0E:53:E6:29:B3

Save Reload

### 3.7.2 Time

Set daylight saving time and the current time, and click “Save” to confirm.

**Time**

**Time Configuration**

OSD:  Enable  Disable

Date: 2011/08/30

Time: 21 : 16 : 41

Save Reload

**Daylight Saving Time**

**Daylight Saving Time Configuration**

Daylight Saving Time:  Enable  Disable

Start Time: August First Week Monday 6 : 0 (HH:MM)

End Time: October Fifth Week Monday 10 : 0 (HH:MM)

Adjust Time: 1 : 0 (HH:MM)

Save Reload

Function	Description
<b>■ Time Configuration</b>	
Date	Set the current date.
Time	Set the current time.
<b>■ Daylight Saving Time Configuration</b>	
Daylight Saving Time	Specify whether to use daylight saving time (Enable / Disable).
	If this function is enabled, set the time period (Start Time / End Time), and adjust the daylight saving time in hours (Adjust Time).



### 3.7.3 Server Log

To quickly search the system logs you want by event type, click “Prev. Page” or “Next Page” to find the logs you want, or check the event type(s) and click “Reload” to start searching.

To clear all system event logs, click “Clear All”.

No.	Event	Time	Result
1	Remote Login	2011/08/30 20:54:41	admin
2	Remote Login	2011/08/30 20:29:58	admin
3	Remote Login	2011/08/30 18:22:08	admin
4	SNTP Update	2011/08/30 18:20:06	Failed
5	Remote Login	2011/08/30 18:20:03	admin
6	Power On	2011/08/30 18:19:24	ON
7	Power On	2011/08/30 18:18:46	OFF
8	Remote Login	2011/08/30 18:11:21	admin
9	Remote Login	2011/08/30 18:11:18	admin
10	Remote Login	2011/08/30 18:07:10	admin
11	Remote Login	2011/08/30 18:03:19	admin
12	Remote Login	2011/08/30 18:02:15	admin
13	Remote Login	2011/08/30 18:02:07	admin
14	Remote Login	2011/08/30 18:01:51	admin
15	Remote Login	2011/08/30 17:57:01	admin
16	Remote Login	2011/08/30 17:56:55	admin
17	Remote Login	2011/08/30 17:56:53	admin
18	Remote Login	2011/08/30 17:54:44	admin
19	SNTP Update	2011/08/30 17:50:48	Failed
20	Power On	2011/08/30 17:50:07	ON

### 3.7.4 Online

You can check the current online user(s) with respective online information. To refresh the list, click “Reload”.

- To allow anonymous login, select “Enable” in “Anonymous Viewer Login”.
- To disable image code verification at login, select “No” in “Login with CAPTCHA Image”.

Online Configuration

Anonymous Viewer Login:  Enable  Disable

Login with CAPTCHA Image:  Yes  No

Max Online User:

Username	IP Address	User Level	Media Type
admin	211.75.84.96	SUPERVISOR	H264
admin	60.248.97.4	SUPERVISOR	H264

Reload

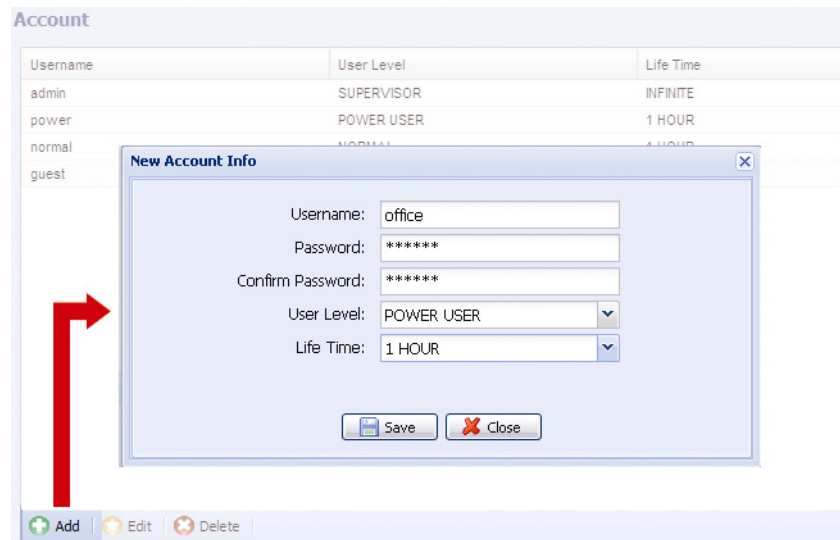
Save Reload

### 3.7.5 Account

You can create a new account with different user access privilege, or delete or modify an existing account setting.

#### How to create a new account

Step1: Click “New”, and fill in the following columns.



Column	Description
User Name	Set a user name that will be used for camera access. The user name allows up to 16 alphanumeric characters.
Password	Set the password that will be used for remote login. The password allows up to 16 alphanumeric characters.
Confirm Password	Enter the password again to confirm.
User Level	Set the security level of an account to give the permission to control different functions. There are four user levels: SUPERVISOR, POWER USER, NORMAL USER and GUEST.
Life Time	Select how long this account is allowed to stay online (1 MIN / 5 MIN / 10 MIN / 1 HOUR / 1 DAY / INFINITE)

Step2: Then, click “Save” to save your setting and create a new account.

#### How to modify or delete an existing account

Step1: Select the account you want to modify or delete.

Step2: To modify the account, click “Edit” to change the settings, and click “Save”.  
To remove the account, click “Delete”.

---

**Note:** It’s not allowed to remove an account when there’s only one account in the account list.

---

### 3.7.6 Maintenance

#### Firmware Upgrade

This function is used when users need to upgrade the camera for function scalability.

---

**Note:** Before using this function, make sure you have the correct upgrade files provided by your installer or distributor.


---

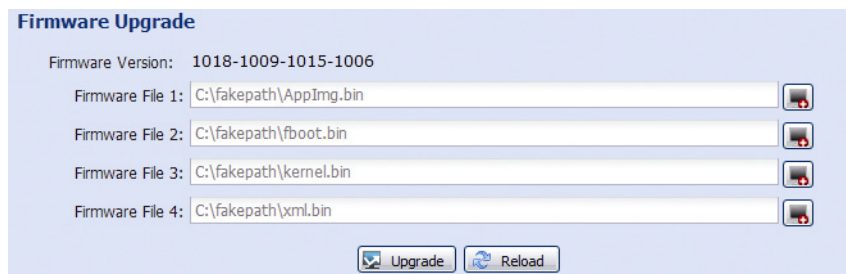


---

**Note:** The event videos saved in the camera will be removed after firmware upgrade. Make sure you’ve copied important events to your PC before firmware upgrade.

---

Step1: Select “” to browse to where you save the upgrade files, and select them one by one until all files are selected (up to four files).



Step2: Select “Upgrade” to start system upgrading.

---

**Note:** It takes a few minutes to finish the upgrade process. Do not disconnect the power during firmware upgrade, or the upgrade may be failed. The camera will reboot after the upgrade.

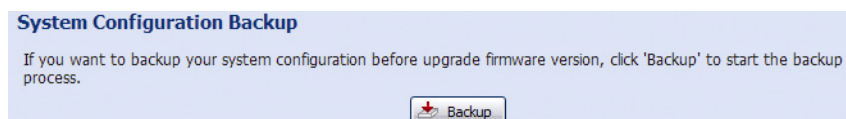
---

## System Configuration Backup

This function is used to copy your system configuration to a “System.bin” file.

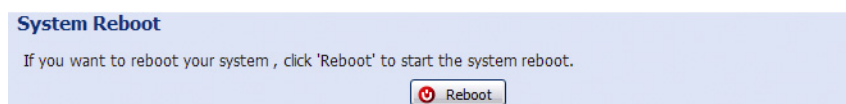
You may import the same system configuration to another camera, or restore your system configuration when the camera is reset to default values.

Select “System.bin” in “Firmware Upgrade”, and select “Upgrade” to import the system configuration.



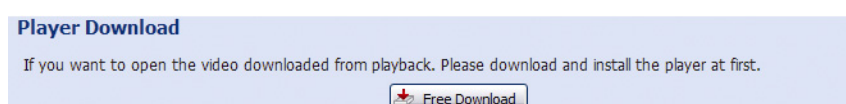
## System Reboot

Select “Reboot” to restart your camera if needed.



## Player Download

To see the event video clips downloaded to your PC, you need to first install our own video player in your PC. Select “Free Download” to download the video player, and double click the file to install it.



# APPENDIX 1 PRODUCT SPECIFICATIONS

	Model 1	Model2
<b>■ Network</b>		
LAN Port	YES	
LAN Speed	10/100 Based-T Ethernet	
Wireless Interface	IEEE 802.11b/g/n	
Antenna Gain	2dBi	
RF Connector	Reverse SMA Plug	
Supported Protocols	DDNS, PPPoE, DHCP, NTP, SNTP, TCP/IP, ICMP, SMTP, FTP, HTTP, RTP, RTSP, RTCP, IPv4, Bonjour, UPnP, DNS, UDP, IGMP	
Number of Online Users	10	
Security	(1) Multiple user access levels with password (2) IP address filtering (3) HTTPS encryption (4) WEP 64/128 bit, WPA/WPA2-PSK	
Remote Access	(1) Internet Explorer® on Windows® operating system (2) EagleEyes on iPhone, iPad & Android mobile devices	
<b>■ Video</b>		
Video Compression	H.264 / MPEG4 / MJPEG	
Video Resolution	SXGA, 720P, VGA, QVGA	
Frame Rate	NTSC:30, PAL:25	
Multiple Video Streaming (Encode Modes, IPS, Resolution)	3 (H.264, MJPEG, MPEG4)	
<b>■ Camera</b>		
Image Sensor	1/4" SONY H.R. image sensor	
Min Illumination	0.1 Lux / F1.5, 0 Lux (White LED on)	
Shutter Speed	1 / 2 to 1 / 10,000 sec.	
S/N Ratio	More than 48dB (AGC off)	
Lens	f3.8mm / F1.5	
Viewing Angle	62.7°	
White LED	YES (1W, 10 meters)	
White Balance	ATW	
AGC	Auto	
IRIS Mode	AES	
PIR Sensor	Detection Range 76° wide angle with up to 6m long distance at 2m height (under 30°C)	
External Alarm I/O	YES	
Microphone	YES	
Speaker	YES	
Power Source (±10%)	5V / 2A	
Operating Temperature	0°C ~40°C	
<b>■ Others</b>		
Mobile Surveillance	iPad / iPhone / Android mobile device	
Quick Wireless Network Connection	YES (With one press)	
RTC (real-time clock)	YES	
Motion Detection	YES	
Digital Pan / Tilt / Zoom	YES	
Event Notification	FTP / Email / <b>Push Video</b>	
Micro SD Card Slot	YES	NO
Minimum Web Browsing Requirements	<ul style="list-style-type: none"> <li>• Pentium 4 CPU 1.3 GHz or higher, or equivalent AMD</li> <li>• 256 MB RAM</li> <li>• AGP graphics card, Direct Draw, 32MB RAM</li> <li>• Windows 7, Vista &amp; XP, DirectX 9.0 or later</li> <li>• Internet Explorer 7.x or later</li> </ul>	

\*\* The specifications are subject to change without notice.

\*\* Dimensional tolerance: ± 5mm

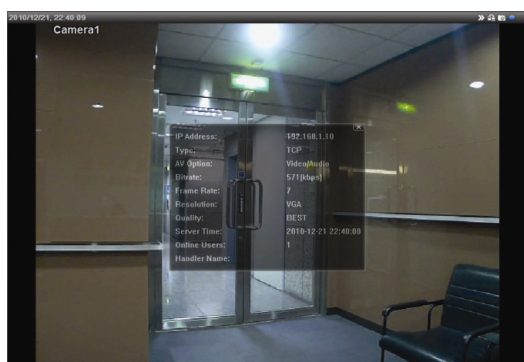
## APPENDIX 2 BIT RATE TABLE FOR REFERENCE

The data below is for reference only.

The bit rates listed here may vary depending on the resolution, image quality & frame rate you choose, the complexity of your monitoring area, and how often the moving objects show in your monitoring area.

### Testing Environment

- Place: Office Entrance
- Network translation: H.264
- Camera type: Megapixel camera



*Static: No one coming in and out*



*Dynamic: One or two people coming in and out*

Resolution	Quality	Frame Rate	(Dynamic) kbps	(Static) kbps	
SXGA	Best	FULL	3253	3216	
	High		2375	2160	
	Normal		1571	1266	
	Basic		1465	873	
VGA	Best		2010	1261	
	High		1042	1034	
	Normal		685	572	
	Basic		457	350	
QVGA	Best		646	366	
	High		482	350	
	Normal		302	286	
	Basic		168	161	
SXGA	Best		1/4	1163	1076
	High			989	715
	Normal			855	534
	Basic			719	443
VGA	Best	789		571	
	High	451		447	
	Normal	349		237	
	Basic	217		165	
QVGA	Best	269		147	
	High	182		131	
	Normal	164		113	
	Basic	97		71	


<b>Resolution</b>	<b>Quality</b>	<b>Frame Rate</b>	<b>(Dynamic) kbps</b>	<b>(Static) kbps</b>
SXGA	Best	1/15	581	374
	High		405	342
	Normal		487	248
	Basic		337	141
VGA	Best		358	79
	High		201	63
	Normal		180	28
	Basic		92	15
QVGA	Best		111	84
	High		99	68
	Normal		97	54
	Basic		58	42

## APPENDIX 3 MICRO SD CARD COMPATIBLE LIST

Manufacturer	Capacity	Class	Manufacturer	Capacity	Class
ADATA	2GB	--	Transcend	2GB	--
	4GB	Class 6		4GB	Class 2
Apacer	2GB	--		4GB	Class 4
	4GB	Class 4		4GB	Class 6
SanDisk	2GB	--		8GB	Class 6
	4GB	Class 4	16GB	Class 10	
	8GB	Class 4	Kingston	2GB	--
	16GB	Class 4		4GB	Class 4
	32GB	Class 4		8GB	Class 4
Verico	2GB	--		32GB	Class 4
	4GB	Class 4	TOSHIBA	16GB	Class 4
	16GB	Class 10	TOPRAM	32GB	Class 10

## APPENDIX 4 Q&A

For more details about EagleEyes Q&A, please visit our official website: [www.eagleeyesctv.com](http://www.eagleeyesctv.com).

Question	Answer
<p>I can connect to this camera in my house or office where it's installed with wireless network.</p> <p>But when I leave my house or office, I can't connect to it from my mobile phone (with 3G network), or other PC (connected to Internet). Why?</p>	<p>You didn't configure this camera to Internet, but only in LAN.</p> <p>Please follow the steps in the advanced network setup guide downloadable from <a href="http://www.surveillance-download.com/user/n812.swf">www.surveillance-download.com/user/n812.swf</a> to complete network configurations, or it's recommended for you to check with your local installer or reseller for this service because it's usually hard for a person who doesn't have network knowledge to set network configurations.</p>
<p>My live images are not fluent. Why?</p>	<p>There are two suggestions to improve the image fluency as listed below:</p> <ol style="list-style-type: none"> <li>1) Image fluency is affected by the local network upload bandwidth, router efficiency, client network download bandwidth, complexity of live view, and more. (Recommended) To have the best image fluency, select "QVGA"; to have the best image quality, select "SXVGA"; to have normal image fluency and quality, select "VGA"</li> <li>2) This camera series supports IEEE 802.11b/g/n interface. When in b Mode, delayed live view may be caused if two people or more log into the camera at the same time. In this case, it's recommended to switch to the other modes (g mode / n mode).</li> </ol>
<p>What's "Push Video"?</p>	<p>"Push Video" is an active notification system, different from traditional FTP &amp; Email notification methods.</p> <p>When "Push Video" is enabled and any human detection event occurs, you'll be able to receive notifications on your iPhone / iPad / Android mobile device within 5 seconds.</p> <p>For more details about "Push Video", please refer to "Advanced Network Setup" (APPENDIX3 ENABLE PUSH VIDEO).</p>
<p>The detection range of the built-in human detection sensor seems too short and the sensor is not sensitive enough. Did I do anything wrong on installation?</p>	<p>The human detection sensor might be influenced by the temperature of ambient environment and human beings, and the applicable working temperature is up to 30°C. To get more accurate and precise detection, you may connect external alarm devices, such as magnetic contacts.</p>
<p>The live video keeps flickering. Why?</p>	<p>Please try adjusting the power line frequency to "60 Hz" or "50 Hz" for the camera.</p> <p>For iPhone / iPad users, access the camera, and select  on the top right corner to enter IPCAM Configuration page. Then, scroll down and select "Advanced". Go to "Advanced Setup" → "Camera" to change setting.</p> <p>For access from Internet Explorer, log into the camera, and select "Config." → "Camera" → "Camera".</p>



## APPENDIX 5 RECORDING TIME TABLE

Below shows the estimated total recording time for each recording resolution.

The recording time per resolution is the average value collected from the both alarm trigger conditions indicated in “Testing Environment”, and is for reference only.

The time may vary depending on the resolution, image quality & frame rate you choose, the complexity of your monitoring area, and how often the moving objects show in your monitoring area.

### Testing Environment

- Place: Office
- Monitoring area: 1.5 meters away from the camera
- Alarm trigger conditions:
  - (1) One person walks by the monitoring area and leaves immediately.
  - (2) Two persons walk by the monitoring area. One goes away immediately, and the other one stays a while and goes away.

Recording Resolution	SXGA	VGA	QVGA
Recording time (second)	25	115	211

**PUSH VIDEO**

**AVN812**

**無線網路攝影機系列**

**操作指南**

在使用本機前請務必詳細閱讀安全須知及操作說明，並保存此手冊以備後續參考。

## 安全須知



本公司提供的所有無鉛產品皆符合歐盟有害物質使用限制指引 (Restriction of Hazardous Substances, (RoHS))，意即本公司的生產流程與產品均嚴格遵守無鉛守則，而且不包含該指引內提供的任何有害物質。



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此機器的製造符合無線電波干擾的規範。

### **Federal Communications Commission Interference 聲明**

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

Any changes or modifications made to this equipment may void the user's authority to operate this equipment. This equipment generates, uses, and can radiate radio frequency energy. 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.
- FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- All external cables connecting to this basic unit must be shielded.  
For cables connecting to PCMCIA cards, see the option manual or installation instructions.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device must not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

### **RF exposure warning**

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

### **DGT Warning 聲明**

根據低功率電波輻射性電機管理辦法：

第十二條，經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率，加大功率或變更原設計之特性及功能。

第十四條，低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前項合法通信，指依電信規定作業之無線電信。

低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

## 商標聲明

iPad® 和 iPhone® 是 Apple Inc. 的註冊商標。

Android™ 是 Google Inc. 的商標。此商標的使用必須依 Google Permissions 的規定使用。

Microsoft®、Windows® 和 Internet Explorer® 是 Microsoft Corporation 在美國和/或其他國家的註冊商標。

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本產品不支援待機 / 關機模式。

## MPEG4 授權

THIS PRODUCT IS LICENSED UNDER THE MPEG4 VISUAL PATENT PORTFOLIO LICENSE FOR THE PERSONAL AND NON-COMMERCIAL USE OF A CONSUMER FOR (i) ENCODING VIDEO IN COMPLIANCE WITH THE MPEG4 VISUAL STANDARD ("MPEG-4 VIDEO") AND/OR (ii) DECODING MPEG4 VIDEO THAT WAS ENCODED BY A CONSUMER ENGAGED IN A PERSONAL AND NON-COMMERCIAL ACTIVITY AND/OR WAS OBTAINED FROM A VIDEO PROVIDER LICENSED BY MPEG LA TO PROVIDE MPEG4 VIDEO. NO LICENSE IS GRANTED OR SHALL BE IMPLIED FOR ANY OTHER USE. ADDITIONAL INFORMATION INCLUDING THAT RELATING TO PROMOTIONAL INTERNAL AND COMMERCIAL USES AND LICENSING MAY BE OBTAINED FROM MPEG LA, LLC. SEE [HTTP://WWW.MPEGLA.COM](http://www.mpegla.com).

## GPL 授權



This product contains codes which are developed by Third-Party-Companies and which are subject to the GNU General Public License ("GPL") or the GNU Lesser Public License ("LGPL").

The GPL Code used in this product is released without warranty and is subject to the copyright of the corresponding author.

Further source codes which are subject to the GPL-licenses are available upon request.

We are pleased to provide our modifications to the Linux Kernel, as well as a few new commands, and some tools to get you into the code. The codes are provided on the FTP site, and please download them from the following site or you can refer to your distributor:

<http://download.dvrtw.com.tw/GPL/IPCAM/F-Seriers/linux.tar.gz>

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# 1. 產品概述

## 1.1 產品特點

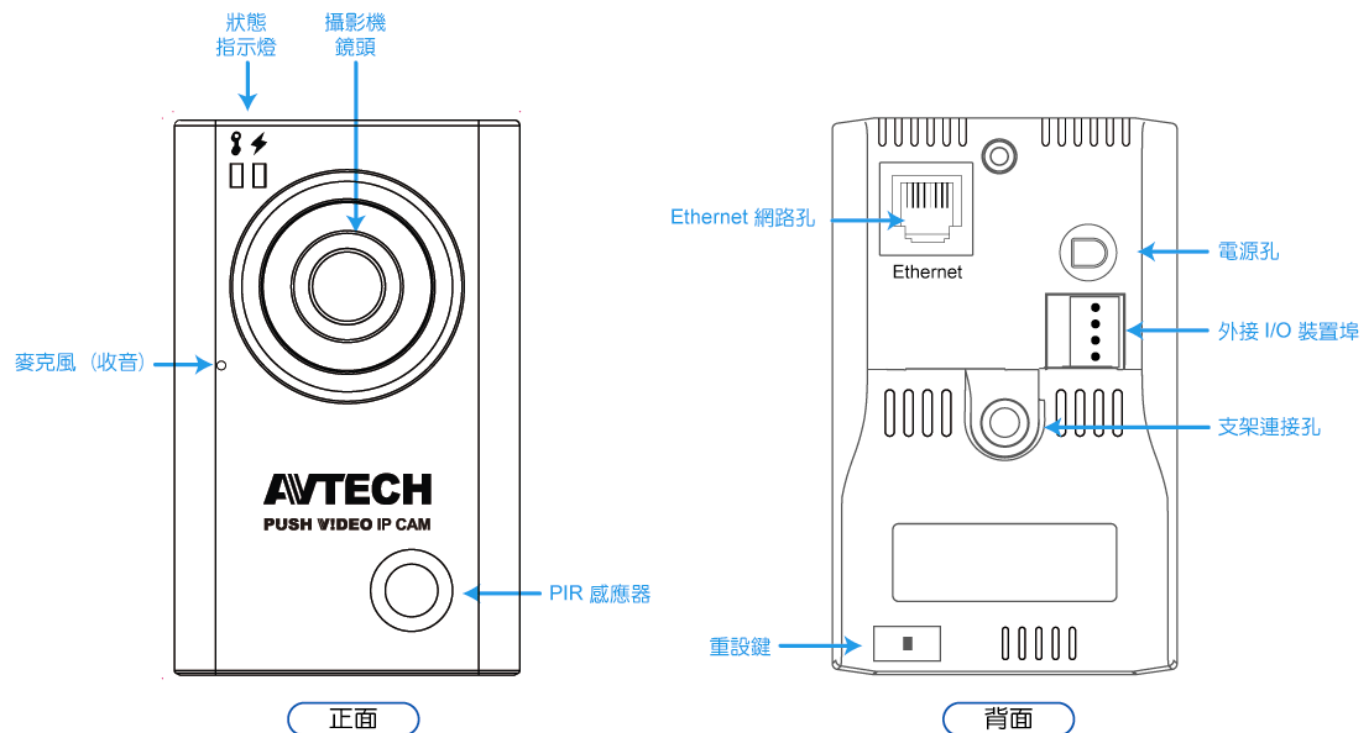
- 使用 **iPhone / iPad**，快速完成**網路設定**
- 支援多樣的網路連線方式，可經由無線網路 **IEEE 802.11b/g/n** 介面連線，或是透過**有線網路**的方式連線。
- 可自由更換天線，輕鬆改善網路訊號不穩的問題。
- **130 萬畫素**的 LIVE MOS 感應元件並支援 **HDTV 720p**，讓使用者能看到更細微的內容
- **Push Video** 主動式影像通知功能，可在指定事件發生時，立即傳送事件通知到 iPhone 和使用 Android 的行動裝置，並在您確認讀取通知時回放事件錄影畫面。
- 內建白光 **LED 燈**讓監控環境不再漆黑一片，您可手動開啓、在指定時間開啓，或者在發生位移偵測、警報或聲音事件時開啓
- 支援**外接警報裝置**
- 內建麥克風和擴音器來**收音和擴音**
- **遠端監控**
  - 可由 **iPhone & iPad**，以及 Windows® 作業系統的 **Internet Explorer®** 進行遠端監控

## 1.2 包裝明細

- |  |                                |
|--|--------------------------------|
| <input type="checkbox"/> 網路攝影機                     | <input type="checkbox"/> 攝影機支架 |
| <input type="checkbox"/> 快速設定指南 (使用 iPhone / iPad) | <input type="checkbox"/> 變壓器   |
| <input type="checkbox"/> 無線天線                      |                                |

註：若發現無線網路訊號微弱，您可更換隨貨附的天線來改善此情形。請注意，新選購的天線必須符合下列規格：  
(1) 支援 IEEE802.11b/g/n 2.4Ghz 無線網路標準 (2) 使用標準 Reverse SMA Male (Plug) 接頭。

## 1.3 產品概觀



## 1.4 背板

Ethernet 網路孔：	連接網路線。
DC 5V 電源孔：	連接隨附的電源變壓器。
外接 I/O 裝置埠：	攝影機有隨附一個 4 PIN 的 I/O 端子，專門用來外接警報裝置。詳情請參閱第 2 頁的「1.5 外接 I/O 裝置埠」。
重設鍵：	在攝影機上電的情況下，長按此鍵會重設所有參數回原廠設定值，包括 IP 位址。 重設完成後，攝影機會重新啟動。請勿在攝影機重設期間拔除攝影機電源。
快速無線網路連線鍵：	只要您使用的無線 Router 支援無線網路連線，按此鍵即可快速連線至無線網路。詳情請參閱您的無線 Router 說明書及隨附攝影機提供的「快速設定 (使用 iPhone / iPad)」。

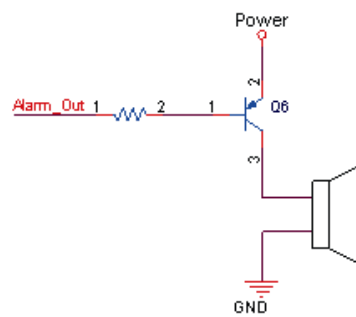
## 1.5 外接 I/O 裝置埠

攝影機有隨附提供一個 4 PIN 的外接 I/O 端子，讓您可以輕鬆連接到警報裝置。

下圖顯示 I/O 端子各個連接 PIN 腳的用途，以及連接 Alarm Out 裝置的接線示意圖。





4 PIN I/O 端子



Alarm Out 連接示意圖

## 1.6 狀態指示燈

圖示	 LAN 區網連線狀態	 Internet 連線狀態
系統狀態		
在開機時	恒亮	恒亮
回復原廠值	閃爍 (亮 250 毫秒，減 250 毫秒) ●○○●○○●○○●	恒滅
升級	閃爍 (亮 250 毫秒，減 250 毫秒) ●○○●○○●○○●	閃爍 (亮 250 毫秒，減 250 毫秒) ●○○●○○●○○●
連線狀態		
區網已連線	恒亮	--
區網斷線	閃爍 (亮 100 毫秒，減 500 毫秒) ●○○●○○●○○●	--
Internet 已連線	--	恒亮
Internet 斷線	--	閃爍 (亮 100 毫秒，減 500 毫秒) ●○○●○○●○○●
網路設定未完成		
需做服務埠轉傳 (Port Forwarding)	--	閃爍 (亮 5 秒、減 0.5 秒、亮 0.5 秒、減 0.5 秒、亮 5 秒) ●●●●○○●●●●

\* LED 燈閃爍頻率示意 - ● LED 燈亮 / ○ LED 燈滅

## 2. 使用 INTERNET EXPLORER 登入攝影機

視您的使用環境而定，您可以使用 Microsoft® Internet Explorer® 登入此攝影機，或者在 iPhone / iPad / Android 行動裝置安裝本公司研發的行動小程序 EagleEyes 來進行登入。

註：如需得知使用 iPhone / iPad / Android 行動裝置登入此攝影機的詳細資訊，請參閱 <http://www.eagleeyesctv.com>。

在使用此攝影機之前，請先確認您已做好網路設定，而且網路連線正常。

如需得知網路設定的相關資訊，請參閱：

- 隨附攝影機提供的「快速設定 (使用 iPhone / iPad)」– 若您有 iPhone / iPad，而且您是使用無線網路來上網
- 「進階網路設定」，可從 [www.surveillance-download.com/user/n812.swf](http://www.surveillance-download.com/user/n812.swf) 下載 – 若您不是使用無線網路來上網

### 2.1 登入攝影機

步驟 1：開啓您的網路瀏覽器，然後在位址列輸入 [http://IP 位址:埠號](http://IP位址:埠號)。

舉例來說，若 IP 位址為 60.121.46.236 且埠號為 888，請在 URL 網址列中輸入 <http://60.121.46.236:888>，然後按 Enter。

步驟 2：在登入頁面中，輸入預設的使用者名稱和密碼，然後輸入下圖顯示的驗證碼。接著，按 [LOGIN] 登入。

步驟 3：設定精靈隨即啓動。

- 若要離開精靈並直接登入攝影機，請按 [關閉]。
- 若不要在每次登入時都啓動精靈，而是直接進入攝影機畫面，請按 [登入時不啓動精靈]。

註：若系統要求您安裝「VLC player」、「Software」和「H264 Streaming Viewer」，請同意完成安裝。

步驟 4：登入成功後就會看到即時畫面。

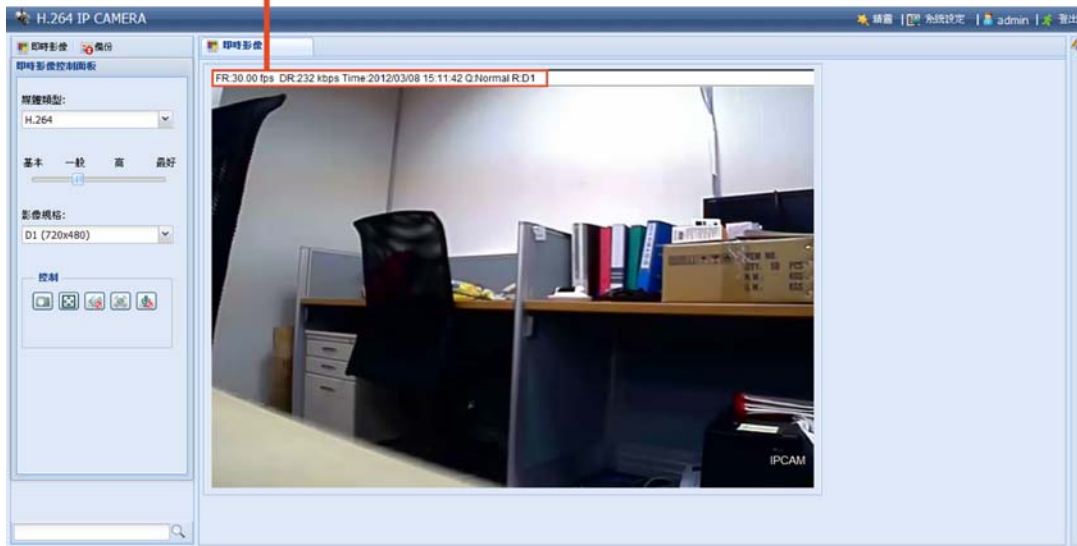
### 2.2 控制面板簡介

註：視各機種和登入權限的不同，可使用的按鈕也會不同。





- 目前連線資訊
- FR: 傳輸速率
- DR: 資料量
- Time: 現在的系統時間
- Q: 畫質
- R: 解析度

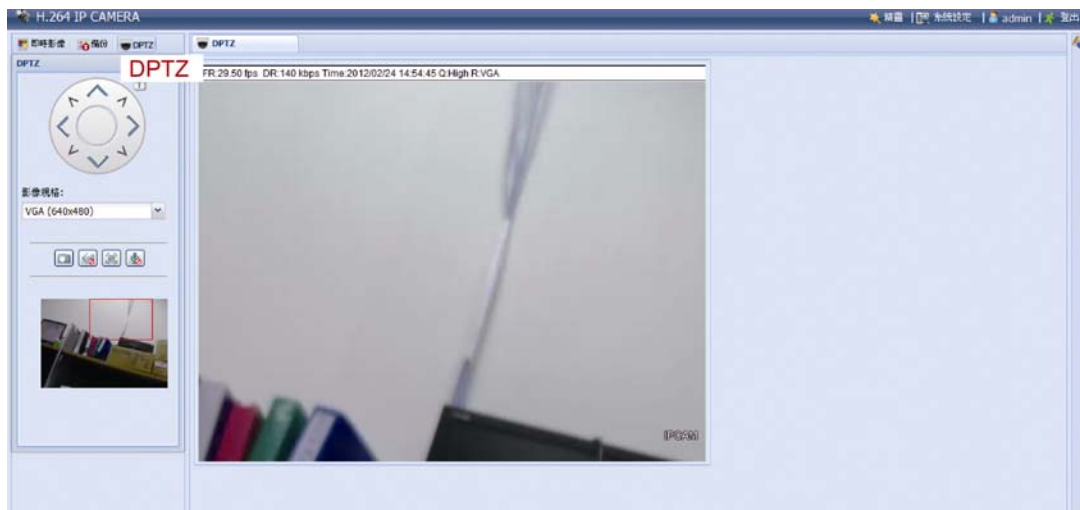


功能	圖示	使用者權限	說明
即時影像		系統使用者 / 超級使用者 / 一般使用者 / 訪客	切換到即時影像頁面。
DPTZ*		系統使用者 / 超級使用者 / 一般使用者	切換到 DPTZ 設定頁面。 詳情請參閱第 6 頁的「2.3 DPTZ 操作」。
備份		系統使用者 / 超級使用者	進入事件錄影清單，搜尋要播放的錄影檔案。 詳情請參閱第 6 頁的「2.4 錄影事件搜尋與回放」。
系統設定		系統使用者	切換到系統設定頁面；使用「系統使用者」和「超級使用者」登入時看到的功 能是不同的。 詳情請參閱第 8 頁的「3.1 系統設定選單」。
即時播放器	--	系統使用者 / 超級使用者 / 一般使用者 / 訪客	從下拉式清單選擇播放軟體： <ul style="list-style-type: none"> <li>■ H.264 / MPEG-4 / Motion JPEG</li> <li>■ QuickTime</li> </ul> QuickTime 是 Apple 公司的多媒體播放軟體。在選取 QuickTime 之前，您必須 先將 QuickTime 安裝到您的作業系統。選取 QuickTime 後，系統會提示您輸入 使用者名稱和密碼來登入攝影機。 <ul style="list-style-type: none"> <li>■ VLC</li> </ul>
影像品質	--	系統使用者 / 超級使用者 / 一般使用者	按住並拖曳滑桿來選取影像畫質：低 / 一般 / 高 / 最好。
影像規格	--	系統使用者 / 超級使用者 / 一般使用者	從下拉式選單選取影像解析度： <ul style="list-style-type: none"> <li style="width: 50%;">■ SXGA (1280 x 1024)</li> <li style="width: 50%;">■ HD720P (1280 x 720)</li> <li style="width: 50%;">■ QVGA (320 x 240)</li> <li style="width: 50%;">■ VGA (640 x 480)</li> </ul> 當啟動 Push Video 主動式通知功能時，即時影像的影像規格會鎖定在「VGA」。
即時影像顯示方式		系統使用者 / 超級使用者 / 一般使用者	
原來大小*			目前影像大小與選取的影像規格相符。
符合螢幕大小*			選取的影像大小已被重新調整以符合螢幕尺寸。 當選取的影像規格為 [VGA] 或 [QVGA (CIF)] 時，就無法使用此功能。
拉框檢視*			按住即時影像左下角的可移動方框來移動畫面。 當選取的影像規格大於目前的即時影像大小時，才能使用此功能。
CIF 調整大小			QVGA 影像大小已被重新調整以符合螢幕尺寸。 當選取的影像規格為 QVGA (CIF) 時，才能使用此功能。
快照		系統使用者 / 超級使用者 / 一般使用者	截取即時影像的畫面；影像檔會儲存在您於 [系統設定] → [攝影機設定] → [攝影機設定] → [快照存放路徑] 指定的位置裡。
全螢幕		系統使用者 / 超級使用者 / 一般使用者	按此鈕來全螢幕顯示影像。 若要離開全螢幕顯示，請按一下鍵盤上的 [Esc] 鍵。
聲音開 / 關		系統使用者 / 超級使用者 / 一般使用者	開啓或關閉收音功能。
警報發出		系統使用者 / 超級使用者 / 一般使用者	強制警報裝置啓動。例如，若您連接了一台蜂鳴器，一旦按下此鈕，就算沒 有發生警報，警鳴器也會放聲大響。 在使用此功能之前，請確認您已接受警報裝置，並在 [系統設定] → [觸發設定] 裡完成 設定。
麥克風		系統使用者	開啓或關閉擴音功能。
LED 燈光控制	--	系統使用者 / 超級使用者 / 一般使用者	按住滑桿來調整白光 LED 燈的亮度。 若將亮度調整到最大，系統在開啟 3 分鐘後，就會自動將亮度降為原先的 50% 長達一 分鐘，然後再回到原來的亮度，以此類推，以延長白光 LED 燈的使用壽命。

## 2.3 DPTZ 操作

此攝影機擁有所謂的數位 PTZ 功能 (之後都稱「DPTZ」)，讓使用者能看到更清楚的畫面。

步驟 1：按 [DPTZ] 顯示 DPTZ 控制面板。



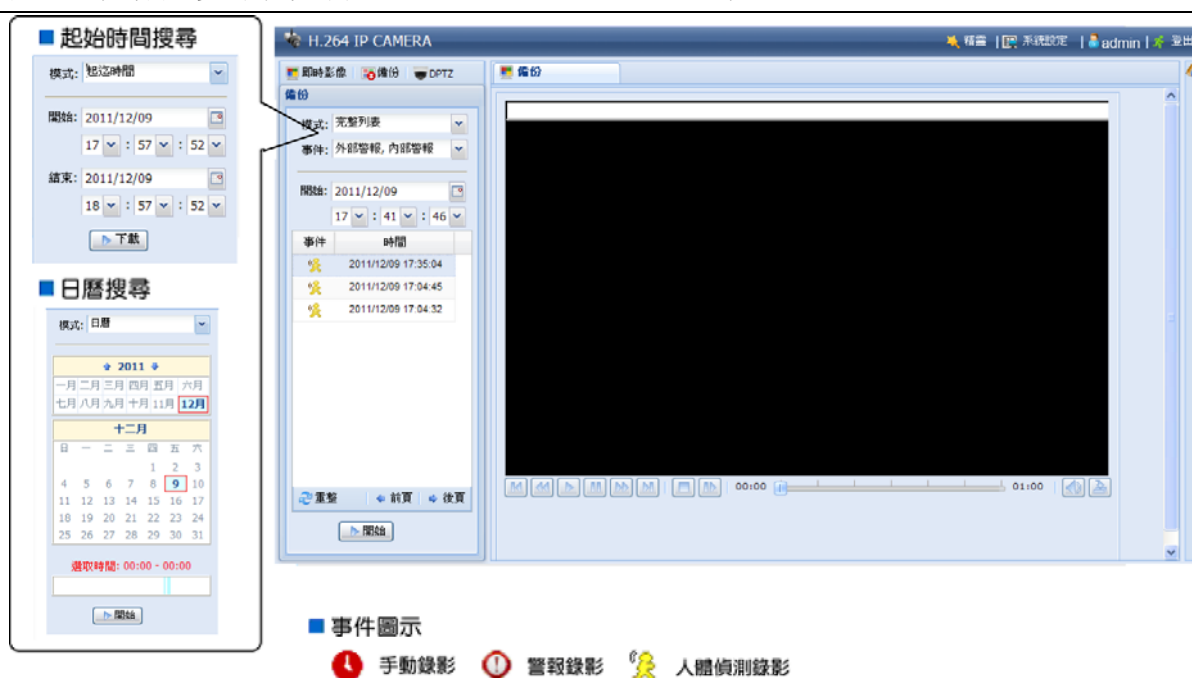
步驟 2：選擇您想使用的功能：

功能	圖示	說明
解析度	--	選擇 DPTZ 功能的影像解析度，包括 VGA 及 QVGA 選項。
快照		截取即時影像的畫面；影像檔會儲存在您於 [系統設定]→[攝影機設定]→[攝影機設定]→[快照存放路徑] 指定的位置裡。
收音 開啓 / 關閉		點選此按鈕切換開啓或關閉收音功能。
警報發出		強制警報裝置啓動。例如，若您連接了一台蜂鳴器，一旦按下此鈕，就算沒有發生警報，警鳴器也會放聲大響。如無外接警報裝置，則攝影機內建的蜂鳴器會開始放聲大響。
麥克風		開啓或關閉擴音功能。 唯系統使用人可切換此功能。






## 2.4 錄影事件搜尋與回放

此攝影機最多可以儲存三筆警報錄影事件。

註：若想要儲存更多錄影資料，建議可搭配相同的 NVR 使用。



	往前一小時 / 往後一小時	往前或往後一小時，例如 11:00 ~ 12:00 或 14:00 ~ 15:00，並開始播放在該時段最早的錄影資料。
	快轉	增加快轉的速度。點一次以 4 倍的速度快轉，兩次 8 倍，以此類推，最高速為 16 倍。
	倒轉	增加倒轉的速度。點一次以 4 倍的速度倒轉，兩次 8 倍，以此類推，最高速為 16 倍。
	播放	播放目前的錄影片段。

	暫停	暫停影片播放。
	停止	停止影片播放。
	單張播放	在暫停影片播放時，按一下格放前進一張影像。
	聲音	關閉或開啓錄音播放。
	備份	將目前播放的錄影片段儲存在電腦的指定位置。 下載的影片只能使用我們專用的影片播放程式開啟。您可以從 [常用設定] → [系統維護] 下載此程式，或者從隨附的光碟裡取得。

## 3. 攝影機設定

使用者可以透過 Internet Explorer 登入攝影機進行更多設定。

### 3.1 系統設定選單

按 [系統設定] 進入設定頁面。

**註：**您必須以「系統使用者」的權限登入才能進入設定頁面。若您不是以此權限登入，就無法進入設定頁面。

系統設定選項分成六個主要目錄選單：「網路設定」、「攝影機設定」、「定時錄影」、「儲存裝置」、「觸發設定」和「常用設定」。

- 如需得知「網路設定」的相關資訊，請參閱第 9 頁的「3.2 網路設定」。
- 如需得知「攝影機設定」的相關資訊，請參閱第 13 頁的「3.3 攝影機設定」。
- 如需得知「定時錄影」的相關資訊，請參閱第 15 頁的「3.4 定時錄影」。
- 如需得知「儲存裝置」的相關資訊，請參閱第 16 頁的「3.5 儲存裝置」。
- 如需得知「觸發設定」的相關資訊，請參閱第 17 頁的「3.6 觸發設定」。
- 如需得知「常用設定」的相關資訊，請參閱第 19 頁的「3.7 常用設定」。

主選單	子選單	說明
網路設定	網路設定	設定網路連線。
	頻寬控制	啓動頻寬限制。
	無線設定	設定攝影機連線到無線網路。
	DDNS	若使用的網路類型為 PPPOE 或 DHCP，需輸入 DDNS 資訊。
	網路對時	將攝影機的時間和網路電腦系統同步化。
	影像上傳	若在 [觸發設定] → [觸發設定] 裡選擇 [FTP]，需在此輸入 FTP 資訊。
	郵件管理	若在 [觸發設定] → [觸發設定] 裡選擇 [E-Mail]，需在此輸入 E-Mail 資訊。
	過濾器	選擇要允許或封鎖能登入此攝影機的 IP 位址。
	UpnP	* 適用於 Windows 操作系統 允許在相同網域下的其他裝置能偵測得到這隻攝影機並可快速使用。
	Bonjour	* 適用於 Mac 操作系統 Bonjour 是一項能夠在區網自動設定並偵測特定的網路服務。
攝影機設定	攝影機設定	1. 設定攝影機名稱。 2. 指定快照儲存位置。
	影像設定	調整不同影像格式的相關影像設定。
	顏色設定	調整色彩效能。
	聲音	調整收音和擴音的音量。
	LED 設定	1. 設定偵測區域為黑暗時，白光 LED 燈自動開啓。 2. 定時啓動白光 LED 燈。
	進階設定	調整攝影機參數。
定時錄影	錄影	設定錄影功能。
	定時錄影	1. 預約外接警報錄影時間。 2. 開啓並設定人體偵測事件錄影時間的錄影時間 (秒)。
儲存裝置	SD 記憶卡	查看記憶卡容量，還可清除所有錄影資料。
觸發設定	觸發設定	1. 啓動 / 關閉 位移偵測功能。 2. 設定位移偵測範圍。 3. 設定攝影機在遇到各個事件時的回應。
	推播通知	1. 設定 Push Video 主動式影像通知規則。 2. 啓動及設定推播通知功能。

主選單	子選單	說明
常用設定	常用設定	<ol style="list-style-type: none"> <li>1. 選擇語言。</li> <li>2. 查看攝影機的 MAC 位址。</li> <li>3. 設定攝影機在指定時間過後自動上鎖禁止存取。</li> <li>4. 啟動或關閉 LED 指示燈。</li> </ol>
	時間設定	設定日光節約時間和目前的時間。
	系統日誌	查看系統事件日誌。
	連線使用者	查看目前的線上使用者資訊。
	權限管理	<ol style="list-style-type: none"> <li>1. 建立具有不同存取權限的使用者帳號。</li> <li>2. 修改或刪除現有使用者帳號。</li> </ol>
系統維護	<ol style="list-style-type: none"> <li>1. 查看目前的韌體版本與升級。</li> <li>2. 複寫系統相關設定。</li> <li>3. 重新啟動攝影機。</li> <li>4. 下載影片播放器播放影片。</li> </ol>	

## 3.2 網路設定

### 3.2.1 網路設定

依您的網路類型而定，在此可設定攝影機的網路設定。

詳情請參閱「進階網路設定」，請由 [www.surveillance-download.com/user/n812.swf](http://www.surveillance-download.com/user/n812.swf) 下載。

**區域網路設定**

IP類型:  固定IP  PPPoE  DHCP

IP位址: 60.250.165.98

閘道: 60.250.165.97

網路遮罩: 255.255.255.0

埠號: 80

DNS1: 168.95.1.1

DNS2: 139.175.55.244

MAC 位址: 00:0E:53:E5:EB:BE

### 3.2.2 頻寬控制設定

頻寬控制設定 (Quality of Service)，是一種控制機制，它提供了針對不同使用者或者不同資料流採用相應不同的優先順序，或者是根據應用程式的要求，保證資料流的效能達到一定的水準。勾選 [開啓]，設定最大上傳速率，設定範圍可從每秒 256 位元 到 10240 位元。

**頻寬控制設定**

頻寬控制:  開啓  關閉

介面: Ethernet

最大上傳速率: 4096 kbps

### 3.2.3 無線設定

若非透過快速無線網路連線功能，可在此設設定攝影機連線到無線網路。詳情請參閱「進階網路設定」，請由 [www.surveillance-download.com/user/n812.swf](http://www.surveillance-download.com/user/n812.swf) 下載。

無線

無線設定

IP類型:  固定IP  DHCP

IP位址: 192.168.2.10

網速: 192.168.2.254

網路遮罩: 255.255.255.0

埠號: 88

MAC位址: 00:19:94:25:76:60

儲存設定 重新載入

設定檔名稱列表

啟用 WPS 掃描 新增 修改 刪除

啟用	設定檔名稱
<input checked="" type="checkbox"/>	Default

設定檔明細

設定檔名稱: Default  
 SSID: IP-CAMERA  
 網路類型: Ad Hoc  
 認證模式: OPEN  
 加密類型: NONE  
 頻道: 1

### 3.2.4 DDNS

若在 [網路設定] 選取的網路類型為 [PPPOE] 或 [DHCP]，請選擇 [開啓]。

詳情請參閱「進階網路設定」，請由 [www.surveillance-download.com/user/n812.swf](http://www.surveillance-download.com/user/n812.swf) 下載。

DDNS設定

DDNS:  開啓  關閉

系統名稱: default

主機名稱: MAC000e5320d47c .ddns.eagleeyes.tw

E-Mail: manager@tech.com

儲存設定 重新載入

### 3.2.5 網路對時

網路對時是用來同步化攝影機和網路電腦系統的時間。

網路對時設定

GMT: (GMT+08:00) Taipei

NTP伺服器: tock.stdtime.gov.tw

同步週期: 每天

主機時間: 2011-12-09 20:56:21

時間同步

儲存設定 重新載入

功能	說明
GMT	只要選好時區，網路攝影機就會自動調整系統的本機時間。
NTP 伺服器	您可以選擇保留預設的 SNTP 伺服器 (例如， <a href="http://tock.stdtime.gov.tw">tock.stdtime.gov.tw</a> )，或者改成您知道的其他伺服器。
同步週期	選擇“每天”將每天的網路時間同步到攝影機，或選擇“無”來關閉此功能。
時間同步	按此按鈕後，網路攝影機的時間即會與網路時間同步。

### 3.2.6 影像上傳

輸入詳細的 FTP 資訊，然後按 [儲存] 確認。在 [觸發設定] → [觸發設定] 選取 [FTP] 時，則會套用設定於此的功能。

影像上傳設定

帳號: manager

密碼: .....

主機名稱: 192.168.2.32

埠號: 21

路徑: upload

儲存設定 測試 重新載入



### 3.2.7 郵件管理

輸入詳細的電子郵件資訊，然後按 [儲存] 確認。在 [觸發設定] → [觸發設定] 選取 [E-Mail] 時，則會套用設定於此的功能。

功能	說明
郵件主機名稱	輸入您從電子郵件系統供應商取得的 SMTP 伺服器位址。
埠號	輸入您從電子郵件系統供應商取得的埠號。若沒有填寫此欄，則會預設使用 25 做為傳送郵件的埠號。
寄件人信箱	輸入寄件人名稱。
SSL 加密	如果您是使用 SSL 加密協定來防止重要的資訊遭到攔截，請選擇“是”。
密碼驗證	有些郵件伺服器需要驗證密碼。請輸入 [帳號] 和 [密碼]。
收件人信箱	新增指定收件人的電子郵件位址。
測試	當您輸入完所有資料，請點選“測試”來確認是否可以收到訊息。

### 3.2.8 過濾器

選擇要允許或封鎖能登入此攝影機的 IP 位址，然後按 [儲存] 確認。

功能	說明
<b>■ 過濾器設定</b>	
錯誤次數	設定登入失敗的最大可接收次數。登入失敗次數達到設定上限後，該 IP 位址就會被封鎖。
錯誤封鎖時間	設定被封鎖的 IP 位址，要被封鎖多久時間。
回應要求	選擇 [不封鎖] 讓其他使用者可以 ping 到此網路攝影機的 IP 位址，而選擇 [封鎖] 則可拒絕回覆 ping 指令。
<b>■ IP/MAC 過濾設定</b>	
IP/MAC 過濾	選擇要啟用或停用過濾器功能。
IP/MAC 過濾方法	若選擇 [開啓]，請確認要允許或拒絕指定的 IP 位址。
<b>■ IP/MAC 過濾條件</b>	
條件	<ul style="list-style-type: none"> <li>若要新增 IP 位址，請在 [條件] 輸入 IP 位址，然後按 [新增]。</li> <li>若要刪除現有 IP 位址，先點選要刪除的位址，然後按 [刪除]。</li> </ul>



### 3.2.9 UPnP / Bonjour

UPnP 為 Universal Plug and Play (通用隨插即用) 的縮寫，即允許此裝置可以在家用與企業的網路環境中被偵測與使用，且可簡化安裝與設定流程。

勾選 [開啓] 後，此網路攝影機就可以被位在同一網域的其他裝置偵測到。而且，您還可在 [裝置名稱] 處為此攝影機設定一個好記的名稱。

Bonjour 在功能面和 UPnP 完全一樣，不過 Bonjour 只適用在 Mac 作業系統。

#### ➤ UPnP




#### ➤ Bonjour



勾選 [開啓] 讓此攝影機可以在同網域下被偵測到，並將您的 [裝置名稱] 設定為好記的名稱。

啓用此功能後，其他與此攝影機位在相同網域下的電腦就可在 [網路上的芳鄰] 搜尋到此攝影機。

- 在 Windows 作業系統環境下，請將 [網路芳鄰] 和 [裝置名稱] 皆設定為好記的名稱。
- 在 Mac 作業系統環境下，請將 “” (finder) 或是 “Bookmark” 及 [裝置名稱] 皆設定為好記的名稱。

連接兩下找到的攝影機，即可快速開啓網路瀏覽器並進入登入頁面。

### 埠號轉址設定

依此功能，您不需要額外進入 Router，也可設定埠號轉址。

詳情請參閱「進階網路設定」，請由 [www.surveillance-download.com/user/n812.swf](http://www.surveillance-download.com/user/n812.swf) 下載。

---

**註：**在使用此功能之前，請先確認您的 Router 有支援 UPnP，而且此功能已開啓。如果沒有，您就還是要另外進入 Router 設定埠號轉址。

---

將 [埠號轉址] 設為 [開啓] 後，若沒有特別指定 [路由器 IP] 或 [HTTP 埠號]，系統就會自動偵測一組 IP 位址或指定一個埠號給您使用。



---

**註：**當設定成功時，您會在此頁面看到分配給此攝影機的 IP 位址和埠號。

---

## 3.3 攝影機設定

### 3.3.1 攝影機設定

您可以在此設定攝影機的基本設定。

攝影機

攝影機設定

名稱: IPCAM

位置: 下-右

儲存設定 重新載入

### 3.3.2 影像設定

在不同影像格式下變更影像相關設定

- 畫質與畫面清晰度相關。
- FPS 表示影像的流暢度。FPS 的值越大，影像呈現越順暢。
- Max Bit Rate 表示在選定的影像格式和像素內，資料所能傳輸的最大限度。

系統類型設定

電源頻率: 60 Hz

H264

解析度	品質	FPS	最大 Bit 速率
SXGA / HD720P	高	30	5000
VGA	高	30	3000
QVGA	高	30	3000
QQVGA	高	30	3000

MPEG4

解析度	品質	FPS	最大 Bit 速率
SXGA / HD720P	高	20	5000
VGA	高	30	3000
QVGA	高	30	3000
QQVGA	高	30	3000

JPEG

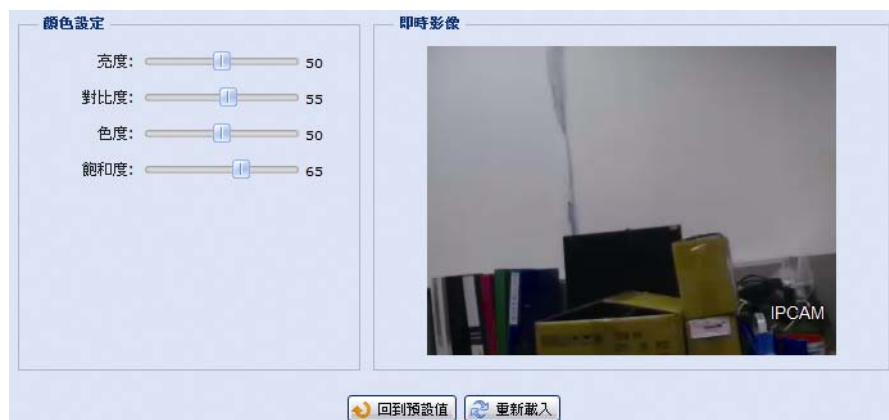
解析度	品質	FPS
SXGA / HD720P	高	30
VGA	高	30
QVGA	高	30
QQVGA	高	30

儲存設定 重新載入

### 3.3.3 顏色設定

調整色彩效能：亮度、對比度、色度和飽和度。按住滑桿做調整即可預覽色彩變更。

若要回復預設值，請按 [回到預設值]。



### 3.3.4 聲音

拖曳滑桿來調整麥克風和喇叭的音量。



### 3.3.5 LED 設定

若偵測區域為黑暗的時候，開啓白光 LED 燈功能，請在 [自動開啓] 下，選擇 [開啓]。

預設開啓白光 LED 燈功能，請在 [時間] 下選擇設定特定日期與時間。

若欲在特定日期與時間內且發生外部警報或移動時，開啓白光 LED 燈，請在 [外部警報] 或 [移動] 下選擇設定特定日期與時間，來開啓功能。

**註：**若欲啓動白光 LED 燈功能，請在 [觸發設定] 下選擇 [觸發設定]，開啓外部警報偵測或移動偵測，並選擇 LED 警報的事件項目。詳情請參閱第 17 頁的 3.6 觸發設定。



### 3.3.6 進階設定

視需求調整攝影機相關參數。



功能	說明
快門速率	依您的需求設定快門速率。 選項有：1/10 秒、1/30 秒、1/15 秒、1/6 秒、1 秒和 2 秒
鏡射	依您需求的架設環境，點選此功能後，畫面將水平旋轉。
翻轉	依您需求的架設環境，點選此功能後，畫面將旋轉 180 度。
消除雜音	依您需求的架設環境，按住並拖曳滑桿來選取在黑暗環境下的適當參數。等級從 0 ~ 10，級數越高，雜音越少。
白平衡	白平衡的設定是爲了表現出當時的色溫，並且讓原本白色的東西，在不同色溫下仍看到白色。 選項有：自動、白燈、冷光、日光、陰天及遮陽。
清晰度	藉由調整相機光圈大小及影像邊緣銳利化，可以讓影像的小細節看起來更清楚。 按住並拖曳滑桿來選取適當參數。等級從 0 ~ 10，級數越高，影像越清晰。

## 3.4 定時錄影

### 3.4.1 錄影

在 [定時錄影設定] 下：

- 啟動或停用所有錄影功能。將 [啟動] 設成 [否] 時，就會停用所有的錄影功能。
- 選擇是否要在儲存裝置容量滿時覆蓋之前的檔案繼續錄下去。
- 選擇是否要啓用錄影收音功能。
- 選擇錄影影像解析度：SXGA / HD720P、VGA 和 QVGA。

註：選擇越高的解析度，影片的畫質就會越好，但記憶體就會消耗的越快。



### 3.4.2 定時錄影

若要設定警報或人體偵測錄影，請選擇【警報】或【人體偵測】，然後選擇要啟動錄影的時間。

**註：**警報功能請務必選擇開啓以使錄影功能正常進行。



## 3.5 儲存裝置

### 3.5.1 記憶體

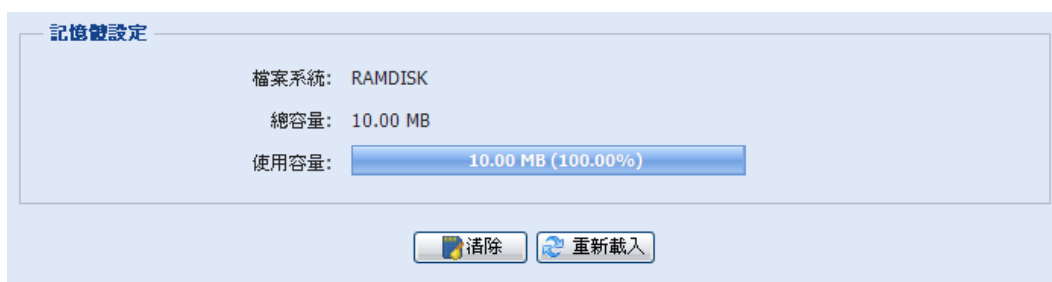
在【記憶體】，您可以查看可錄影的剩餘容量，還可選擇清除所有儲存在記憶體中的錄影資料。

**註：**已記錄的資料將會在您按重設鍵後及重新開啓攝影機時被移除。

此攝影機最多可以儲存三筆警報錄影事件。

**註：**若想要儲存更多錄影資料，建議可搭配相同的 NVR 使用。

**註：**欲知不同錄影解析度下能錄製的總預計時間，請參閱第 24 頁的「附錄 4 錄影時間表」。



## 3.6 觸發設定

### 3.6.1 觸發設定

設定在發生警報、位移偵測和人體偵測後，攝影機的后續回應動作。

#### ◆ 偵測

項目	說明
警報	視您連接的警報裝置而定，選擇 [N.O.] 或 [N.C.]。
移動	<p>開啟或關閉位移偵測功能。</p> <p>若將影像格式設為 [Motion JPEG]，就無法使用位移偵測功能。</p> <p>選取 [開啟] 後，按 [移動偵測] 進入移動偵測區域頁面如下：</p> <p><b>靈敏度：</b> 設定偵測靈敏度，從 1 到 10。</p> <p><b>區域設定：</b> 使用電腦滑鼠設定移動偵測區域。粉紅色格子代表未被偵測的區域，而透明的格子代表有偵測的區域。您可以設定多個偵測區域。 按 [全部清除] 清除先前選擇的偵測區域，變成全部不偵測。 按 [全部選擇] 選取全區域進行偵測。</p>
人體偵測	開啟或關閉人體偵測功能。
警報持續時間	設定觸發時的錄影時間 (5 / 10 / 20 / 40 秒)。

#### ◆ 動作

設定攝影機在發生事件時傳送通知給您的方式。

項目	說明
E-Mail	<p>先選取要收到 E-Mail 通知的事件類型。</p> <p>接著，按 [E-Mail] 字樣設定媒體類型 (H.264 / JPEG / MPEG4)，檔案格式 (AVC / AVI) 及事件錄影時間 (1 到 5 秒)。</p> <p>當發生選取事件時，攝影機就會將錄好的影片傳送給在 [網路設定] → [郵件管理] 內指定的收件人。</p>
FTP	<p>先選取要收到 FTP 通知的事件類型。</p> <p>接著，按 [FTP] 字樣設定媒體類型 (H.264 / JPEG / MPEG4)，檔案格式 (AVC / AVI) 及事件錄影時間 (1 到 5 秒)。</p> <p>當發生選取事件時，攝影機就會將錄好的影片上傳到在 [網路設定] → [影像上傳] 內指定的位置。</p>
警報發出	<p>先選取要觸發警報裝置的事件類型。</p> <p>接著，按 [警報發出] 字樣設定觸發規則。(低 / 高)</p>
LED 警報	<p>先選取要啟動白光 LED 燈的事件類型。</p> <p>如欲啟動 [外部警報] 和 [移動] 事件類型，請先確認您已在 [攝影機設定] → [LED 設定] 下，開啟白光 LED 預設功能。詳情請參閱第 14 頁的「3.3.5 LED 設定」。</p>



項目	說明
錄影	選取要啟動事件錄影的事件類型。
聲音警報	選取要啟動聲音警報的事件類型。

### 3.6.2 推播通知

「推播通知」(Push Video) 是一種主動式事件通知系統，與一般常見的 FTP 和 Email 通知方式不同。

**註：**請確認錄影功能已開啓，以利推播通知功能正常運作。另外，若外部警報需要定時錄影，請確認 [定時錄影] 功能已開啓。

項目	說明
警戒	選擇要開啓或關閉「推播通知」(Push Video) 功能。此功能也可從 iPhone 或 Android 行動裝置開啓。開啓此功能後，影像解析度會固定在 [VGA]。
警戒自動 LED	選擇要在開啓「推播通知」(Push Video) 功能時，設定 LED 燈自動判斷開啓時機 (開啓) 或維持目前的 LED 燈設定 (關閉)。開啓此功能後，就能確認「推播通知」功能在周遭環境太暗時也能得到足夠的光線。此功能預設為 [開啓]。
警戒自動曝光	選擇要在開啓「推播通知」(Push Video) 功能時，設定曝光時間等級為 2 (開啓) 或維持目前的曝光時間設定 (關閉)。開啓此功能後，就能確認「推播通知」功能在周遭環境太暗時也能得到清楚的影像。此功能預設為 [開啓]。
警戒規則	選擇「推播通知」的觸發規則：[外部警報]、[內部警報]，或 [內部警報或外部警報]。 <ul style="list-style-type: none"> <li>■ 外部警報 – 另外連接到攝影機的警報裝置</li> <li>■ 內部警報 – 攝影機內建的人體偵測功能</li> </ul> 此功能預設為 [內部警報或外部警報]。
簡訊通知訊息	輸入當發生事件時，要傳送到 iPhone 或 Android 行動裝置的「推播通知」訊息內容。最多只能輸 28 個字元。

當您開啓或關閉推播通知功能時，請開啓推播通知定時功能，並選擇日期及時間。

## 3.7 常用設定

### 3.7.1 常用設定

在 [常用設定] 裡，您可以選擇介面語言並查看攝影機的 MAC 位址。

若要讓 LED 狀態指示燈如第 2 頁的「1.6 狀態指示燈」所述顯示各個狀態，請在 [狀態 LED 使用模式] 選擇開啓；若要隱藏狀態，請選擇 [關閉]；若只要顯示錯誤狀態，請選擇 [暫時關閉]。

註：若重新啓動攝影機，狀態 LED 模式就會從[暫時關閉]回復為 [開啓]。

若要在閒置一段時間後鎖住攝影機登入，請在 [自動鎖定時間] 選擇 [5 分鐘]、[15 分鐘] 或 [30 分鐘]，或選擇 [從不鎖定] 關閉此功能。

註：要從攝影機鎖定的狀態下回復，請輸入登入時使用的密碼。



### 3.7.2 時間設定

設定日光節約時間和目前的時間，然後按 [儲存] 確認。



功能	說明
<b>■ 時間設定</b>	
日期	設定今天的日期。
時間	設定現在的時間。
<b>■ 日光節約時間設定</b>	
日光節約時間	選擇是否要使用日光節約功能 (開啓 / 關閉)。 若啓動了此功能，請設定 [開始時間] 和 [結束時間]，並調整日光節約時間，以小時為單位。



### 3.7.3 系統日誌

若要依事件類型來快速搜尋想要的系統日誌，按 [上一頁] 或 [下一頁]，或者勾選想要搜尋的事件類型，然後按 [重新查詢]。

若要清除所有系統日誌，請按 [清除全部日誌]。

系統日誌清單

編號	事件	時間	結果
1	遠端登入	2011/12/09 23:14:49	admin
2	遠端登入	2011/12/09 23:14:02	admin
3	遠端登入	2011/12/09 23:01:07	admin
4	遠端登入	2011/12/09 22:55:31	admin
5	遠端登入	2011/12/09 22:33:25	admin
6	遠端登入	2011/12/09 22:27:37	guest
7	遠端登入	2011/12/09 21:34:55	guest
8	遠端登入	2011/12/09 21:29:16	guest
9	遠端登入	2011/12/09 21:23:52	guest
10	遠端登入	2011/12/09 21:14:09	guest
11	遠端登入	2011/12/09 21:05:47	guest
12	遠端登入	2011/12/09 20:55:36	guest
13	遠端登入	2011/12/09 20:47:26	guest
14	遠端登入	2011/12/09 20:41:30	guest
15	遠端登入	2011/12/09 20:36:21	guest
16	遠端登入	2011/12/09 20:19:32	guest

← 上一頁   下一頁 →   重新查詢   清除全部日誌

### 3.7.4 連線使用者

您可以查看目前連線到此攝影機的使用者與其連線資訊。若要重新整理清單，請按 [重新查詢]。

- 若要允許匿名登入，請在 [影像匿名登入] 選擇 [開啓]。
- 若不要在登入時輸入影像驗證碼，請在 [Login with CAPTCHA Image] 選擇 [否]。

連線使用者設定

影像匿名登入:  開啓    關閉

登入驗證碼:  是    否

最大上線人數:

帳號	IP位址	權限	媒體類型
admin	61.63.7.65	系統管理者	H264
admin	61.63.7.65	系統管理者	H264

重新查詢

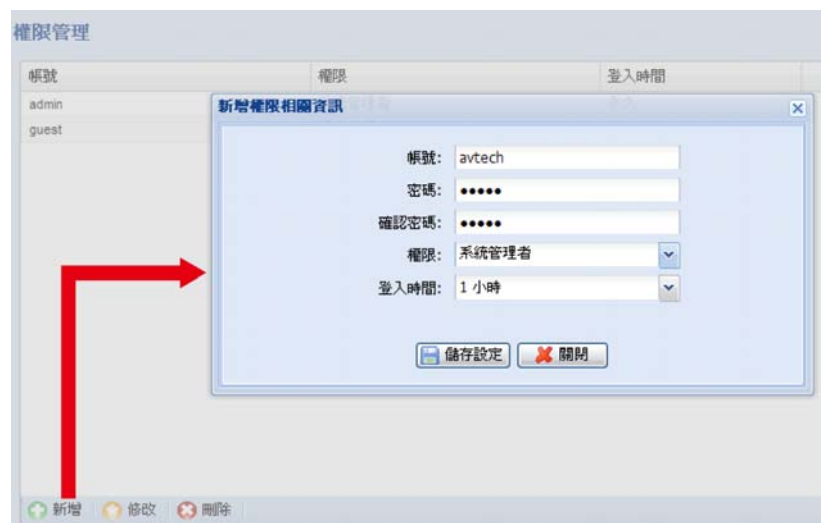
儲存設定   重新載入

### 3.7.5 權限管理

您可以新增擁有不同使用者權限的帳號，或者刪除或修改現有帳號設定。

#### 如何新增帳號

步驟 1：按 **[New]** (新增)，然後輸入以下欄位。



欄位	說明
帳號	設定要用來登入攝影機的帳號。帳號最多只允許 16 個由字母和數字組成的字元。
密碼	設定要用來進行遠端登入的密碼。密碼最多只允許 16 個由字母和數字組成的字元。
確認密碼	再輸入一次密碼確認。
權限	設定帳號的安全權限，以允許控制不同的功能。使用者權限共有四種：「系統使用者」、「超級使用者」、「一般使用者」和「訪客」。
登入時間	選擇此帳號可停留線上的時間：1 分鐘 / 5 分鐘) / 10 分鐘) / 1 小時) / 1 天) / 永久

步驟 2：接著，按一下 **[儲存設定]** 來儲存與完成帳號的建立。

#### 如何修改或刪除現有帳號

步驟 1：選取想要修改或刪除的帳號。

步驟 2：若要修改帳號，請選擇 **[修改]** 變更設定，然後再按 **[儲存設定]**。若要刪除帳號，請按 **[刪除]**。

---

**註：**若帳號清單中只有一個帳號，則無法刪除該帳號。

---

## 3.7.6 系統維護

### 韌體更新

此功能可用來升級與更新攝影機功能。

---

註：在使用此功能之外，請確認已從安裝商或經銷商處取得升級檔案。

---

---

註：更新韌體將自動移除原先儲存於攝影機的事件影片。欲進行更新韌體前，請確認重要影像已經備份到您的電腦。

---

步驟 1：按  搜尋儲存更新檔的位置，然後選擇其中一個。(至多可選四個)



步驟 2：按 **[開始更新]** 即可開始系統升級。

---

註：升級需要一些時間，請勿在這期間中斷電源，否則升級可能會失敗。升級完成後，攝影機會重新啟動。

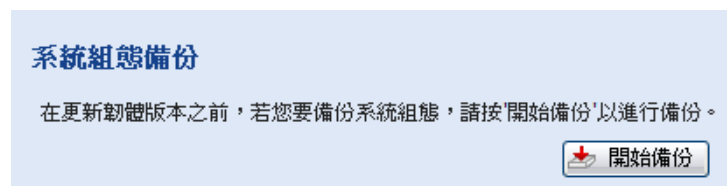
---

### 系統組態備份

此功能是您將您的系統設定複製到 **System.bin** 的檔案裡。

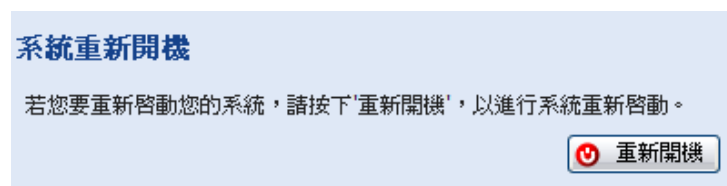
您可以匯入相同的系統設定到另一台攝影機 (舉例：AVN801)，當 AVN801 重新被設為預設值時，您將可以選擇恢復為您原先的系統設定值。

在 **[韌體更新]** 選項裡，選擇 **System.bin** 檔案，並點選 **[開始備份]** 以匯入系統設定。



### 系統重新開機

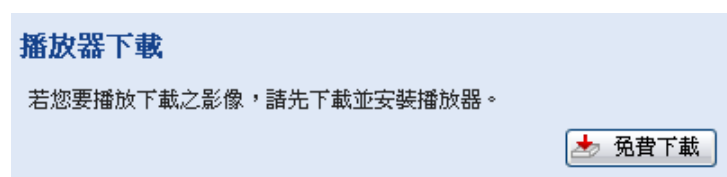
若您需要重新啟動您的系統，請按下 **[重新開機]** 以進行系統重新啟動。



### 播放器下載

若您要播放下載之影像，請先下載並安裝播放器。

選擇 **[免費下載]** 以進行播放器下載，點選兩下即開始安裝。



## 附錄 1 產品規格

■ 網路	
LAN 埠	支援
LAN 速度	10/100 Based-T Ethernet
無線網路介面	IEEE 802.11b/g/n
天線	2dBi
RF 連接器	Reverse SMA Plug
支援的協定	DDNS, PPPoE, DHCP, NTP, SNTP, TCP/IP, ICMP, SMTP, FTP, HTTP, RTP, RTSP, RTCP, IPv4, Bonjour, UPnP, DNS, UDP, IGMP
線上使用者人數	10
安全性設定	(1) 多種使用者存取權限與密碼設定 (2) 過濾 IP 位址 (3) HTTPS 加密 (4) WEP 64/128 bit, WPA/WPA2-PSK
遠端監控	(1) 在 Windows 作業系統使用 Internet Explorer (2) iPhone、iPad 和 Android 行動裝置使用 EagleEyes 監控軟體
■ 影像	
壓縮格式	H.264 / MPEG4 / MJPEG
影像解析度	SXGA, 720P, VGA, QVGA
Frame 速率	NTSC:30, PAL:25
多重影像傳輸 (Encode 模式、IPS、解析度)	3 (H.264, MJPEG, MPEG4)
■ 攝影機	
影像感測器	1/4" SONY 影像感測器
最低照度	0.1 Lux / F1.5, 0 Lux (白光 LED 燈啟動)
快門速度	1 / 60 (1/50) to 1 / 100,000 sec.
信噪比	超過 48dB (AGC 關閉)
鏡頭	f3.8mm / F1.5
角度	62.7°
白光 LED 燈	支援 (1W、10 米)
白平衡	ATW
AGC	自動
IRIS 模式	AES
人體偵測感應器	在高度 2 米的情況下，最多可偵測長達 6 米寬 76° 的範圍 (溫度在 30°C 以下)
外接警報 I/O 埠	是
麥克風	是
喇叭	是
電源 (±10%)	5V / 2A
操作溫度	0°C~40°C
■ 其他	
行動監控	iPad、iPhone & Android
快速無線網路連線	是
RTC (網路對時)	是
移動偵測	是
數位 PTZ	是
事件通知方式	推播通知 ( <b>Push Video</b> ) / 影像上傳 / 郵件傳送
網路瀏覽最低設備需求	<ul style="list-style-type: none"> <li>• Pentium 4 CPU 1.3 GHz 或更高等級，或同級 AMD</li> <li>• 256 MB RAM</li> <li>• AGP 圖形顯示卡、Direct Draw、32MB RAM</li> <li>• Windows 7、Vista &amp; XP，DirectX 9.0 或更新版本</li> <li>• Internet Explorer 7.x 或更新版本</li> </ul>

\* 規格變動以實際產品為準，將不另行通知。

\*\* 尺寸誤差範圍：±5mm

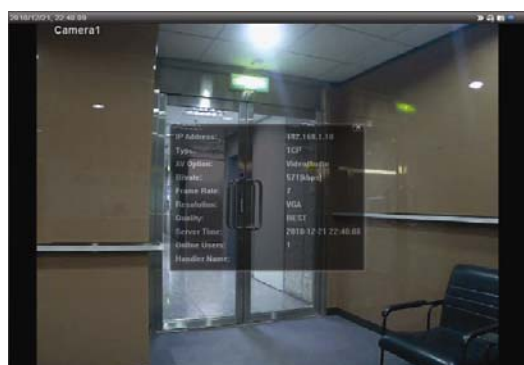
## 附錄 2 傳輸速度參照表

以下資料僅供參考用。

下表所列的傳輸速度會因您實際選取的影像大小、影像品質和影像張數，以及監控畫面複雜度和物體移動頻繁度而有所差異。

### 測試環境

- 地點：辦公室入口
- 網路傳輸格式：H.264
- 攝影機類型：百萬畫素網路攝影機



靜態畫面：無人出入



動態畫面：僅有一、兩人出入 (不頻繁)

影像規格	影像品質	Frame 速率	(動態畫面) kbps	(靜態畫面) kbps	
SXGA	最好	FULL	3253	3216	
	高		2375	2160	
	一般		1571	1266	
	基本		1465	873	
VGA	最好		2010	1261	
	高		1042	1034	
	一般		685	572	
	基本		457	350	
QVGA	最好		646	366	
	高		482	350	
	一般		302	286	
	基本		168	161	
SXGA	最好		1/4	1163	1076
	高			989	715
	一般			855	534
	基本			719	443
VGA	最好	789		571	
	高	451		447	
	一般	349		237	
	基本	217		165	
QVGA	最好	269		147	
	高	182		131	
	一般	164		113	
	基本	97		71	

影像規格	影像品質	Frame 速率	(動態畫面) kbps	(靜態畫面) kbps
SXGA	最好	1/15	581	374
	高		405	342
	一般		487	248
	基本		337	141
VGA	最好		358	79
	高		201	63
	一般		180	28
	基本		92	15
QVGA	最好		111	84
	高		99	68
	一般		97	54
	基本		58	42

## 附錄 3 常見問題

如需得知更多常見問題與解答，請至我們的官網：[www.eagleeyescctv.com/supp\\_QnA.aspx](http://www.eagleeyescctv.com/supp_QnA.aspx)。

問題	解答
當我在家中或是辦公室時，即使是沒有無線網路的情況下，還是可以成功連上攝影機。但是一旦離開家裡或是辦公室，我卻無法從手機（已連上 3G 網路）或是桌電（已連上網路）登入攝影機，為什麼？	您尚未成功連上網際網路，您連上的網路為區域網路。所以，請參閱產品隨附光碟內或從 <a href="http://www.surveillance-download.com/user/n812.swf">www.surveillance-download.com/user/n812.swf</a> 下載「進階網路設定」來完成網路設定，或是建議您與當地安裝商或供應商聯繫，協助安裝事宜。因為網路設定對於初次設定的人而言，難度較高。
影像看起來很不流暢。為什麼？	可能造成上述情形的原因： 1) 影像的流暢度會受到 iPhone / iPad 上傳頻寬、Router 的硬體效能、攝影機下載頻寬和畫面複雜度等因素有關。(僅適用百萬畫素攝影機) 如需看到非常流暢的影像，解析度請選取 [QVGA]；如需看到最好的畫質呈現，解析度請選取 [SXVGA]；如對影像流暢度和畫面沒有特殊要求，建議解析度則選取 [VGA]。 2) AVN812 支援 IEEE 802.11b/g/n 介面。在 b Mode 時，如果同時兩人(以上) 連上攝影機，會造成頻寬不足、影像畫面延遲的狀況。如遇此情形，建議使用其他模式 (g mode / n mode)。
何謂「推播通知」(Push Video)？	「推播通知」(Push Video) 是一種主動式事件通知系統，與一般常見的 FTP、Email 和 SMS 通知方式不同。 當偵測到人或外接警報器被觸發時，Push Video 系列智慧型攝影機會即時在 5 秒內傳送監控影像到您的手機，並啟動 EagleEyes 軟體，讓您立即觀看事件回放影片。
此攝影機內建的人體偵測感應器，感應距離好像不遠，而且還會有感應不到的情形發生。為什麼？	此人體偵測感應器可能會受到周遭環境的溫度和人體溫度的影響而失判斷，其適用工作溫度應在 30°C 以內。若想要提升偵測的準確度和感應率，建議可外接其他警報裝置，例如：磁簧開關。 在安裝此攝影機時有一些小訣竅，詳情請至 <a href="http://www.eagleeyescctv.com/supp_QnA.aspx">www.eagleeyescctv.com/supp_QnA.aspx</a> 。
即時的影像畫面一直閃爍。為什麼？	請試著切換電源頻率為 [60 Hz] 或 [50 Hz]。 若您是使用 iPhone，請登入到攝影機，然後在選擇畫面右上角的  進入設定頁面。接著，選擇 [進階設定] → [攝影機] 變更設定。 若您是使用 Internet Explorer，請登入攝影機，然後選擇 [系統設定] → [攝影機設定] → [攝影機設定]。

## 附錄 4 錄影時間表

下表列出在各個錄影解析度下能錄製的總預計時間。

每種解析度測出的錄影時間，是在以下兩種警報觸發情況時所得出的平均值，僅供參考。

錄影時間會因您選擇的錄影解析度、影像品質和影錄張數、監視畫面複雜度，以及監視畫面出現移動物體的頻繁度，而有所不同。

### 測試環境

- 地點：辦公室
- 監控區域：離攝影機 1.5 公尺遠的位置
- 警報觸發情境：
  - (1) 一個人經過監控區域，然後馬上離開。
  - (2) 兩個人經過監控區域，一個人馬上離開，另一個人停留一會兒才離開。

錄影解析度	SXGA	VGA	QVGA
錄影時間 (秒)	25	115	211