

PUSH VIDEO

**AVN805
MEGAPIXEL
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.



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This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

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This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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- (2) This device must accept any interference received, including interference that may cause undesired operation.

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

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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/076D_Series/arm-linux-2.6.tar.gz

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1. OVERVIEW

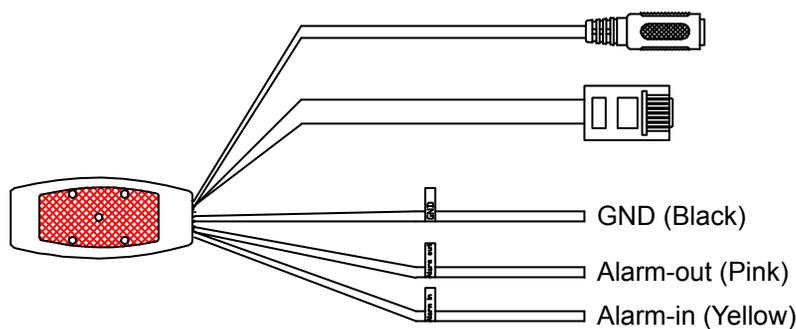
1.1 Product Features

- Easy **network setup** with your **iPhone / iPad**
- **1.3 Megapixel** live MOS sensor with **HDTV 720p** quality, allowing users to notice minor details more easily
- Memory storage built-in for **video recording**
- **Push Video** support to send an event notification to your iPhone, iPad and Android mobile devices immediately once the specified event type is triggered, and play video recording once you confirm the receipt.
- **External alarm I/O device** connection
- **Remote Surveillance**
 - **Fully compatibility** on **iPhone & iPad**, and **Internet Explorer®** on Windows® operating system
- 12 IR LEDs built-in for **night surveillance**
- Special and stylish design, suitable for discreet monitoring

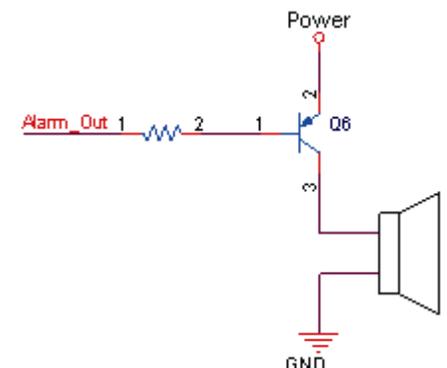
1.2 Package Content

<input type="checkbox"/> Network camera	<input type="checkbox"/> Cable	<input type="checkbox"/> Screws & Wall Plugs
<input type="checkbox"/> Quick Setup with iPhone / iPad	<input type="checkbox"/> Adapter	

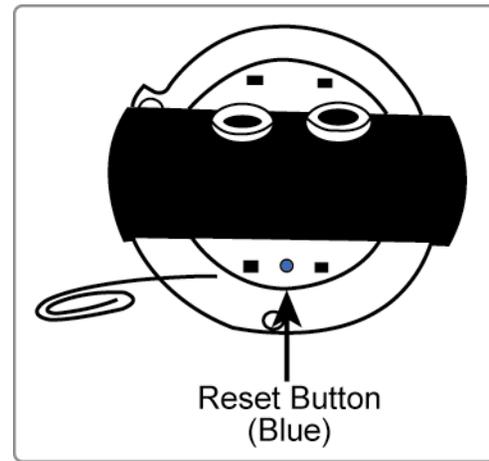
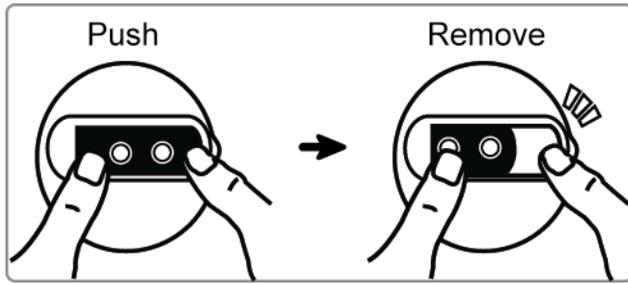
1.3 Cable Overview



Color	Cable	Description
--	Power cable	Connect to DC12V power supply. Note: The power adapter is optional.
--	RJ45 network cable	Connect it to the supplied RJ45 cable extender adapter for cable extension, and prepare another RJ45 network cable with suitable length for your connection.
Black	GND	Ground wire, used for reset default or external device connection.
Yellow	Alarm-in	Reserved for connecting to an external alarm device. For details, please refer the user manual of your alarm device.
Pink	Alarm-out	Reserved for connecting to an external alarm device. For details, please refer the user manual of your alarm device.



1.4 Reset Default



1. Push to remove the white cover from the camera.

2. Insert and slightly push the clip to the reset button, and hold till the camera is rebooted.

Note: This operation will restore all configurations to factory default values, including network setup.

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.eagleeyesccvt.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/n805.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 No. 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.

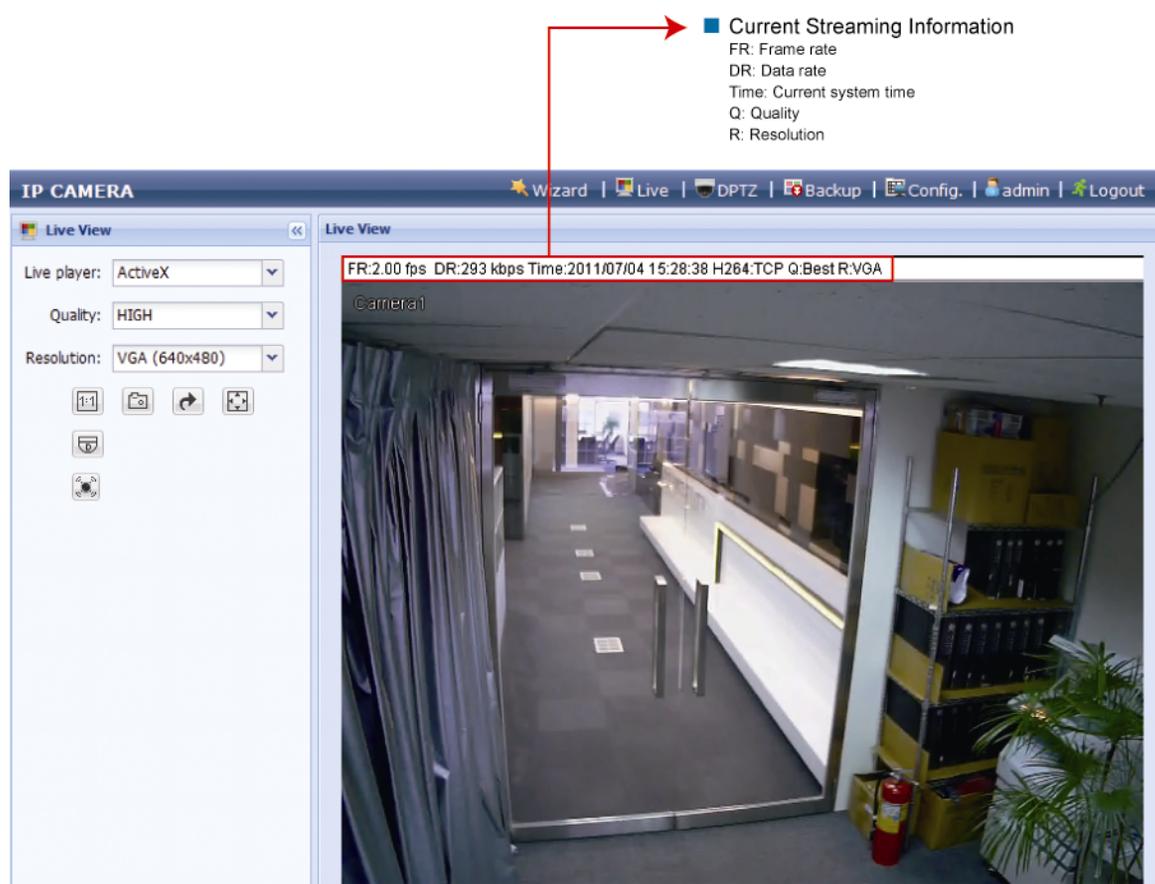
- To skip the wizard and directly access the camera live view, click “Close”.
- To directly access the camera live view without starting the wizard for the login next time, check “Do not start wizard at login”.

Note: If you’re prompted to install “VLC player”, “Software” and “H264 Streaming Viewer”, please agree to proceed the installation.

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

2.2 Control Panel Overview

Note: The buttons available depend on 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 5.
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 / Power User	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 7.
Live player	--	Supervisor / Power User / Normal User / Guest	Select the image player from the drop-down list: <ul style="list-style-type: none"> ■ ActiveX ■ QuickTime <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"> ■ VLC
Quality	--	Supervisor / Power User / Normal User	Click & drag the slider to select the video quality: BASIC / NORMAL / HIGH / BEST.
Resolution	--	Supervisor / Power User / Normal User	Select the image resolution from the drop list: <ul style="list-style-type: none"> ■ SXGA (1280 x 1024) ■ SXVGA (1280 x 960) ■ 720P (1280 x 720) ■ VGA (640 x 480) ■ QVGA (320 x 240) <p><i>When Push Video is on, the live resolution will be fixed to VGA.</i></p>
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, and save to the location specified in "Config." → "Camera" → "Camera" → "Snapshot Path".
Flip		Supervisor / Power User / Normal User	Click to rotate the image 180° when necessary.
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.
DPTZ		Supervisor / Power User / Normal User	Click to enable digital PTZ functions.
Alarm Out		Supervisor / Power User / Normal User	Click to force your 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>Before using this function, make sure your alarm-out device is connected properly to this camera and also configured well in "Trigger" → "Trigger".</i>

2.3 Digital PTZ (DPTZ) Operations

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

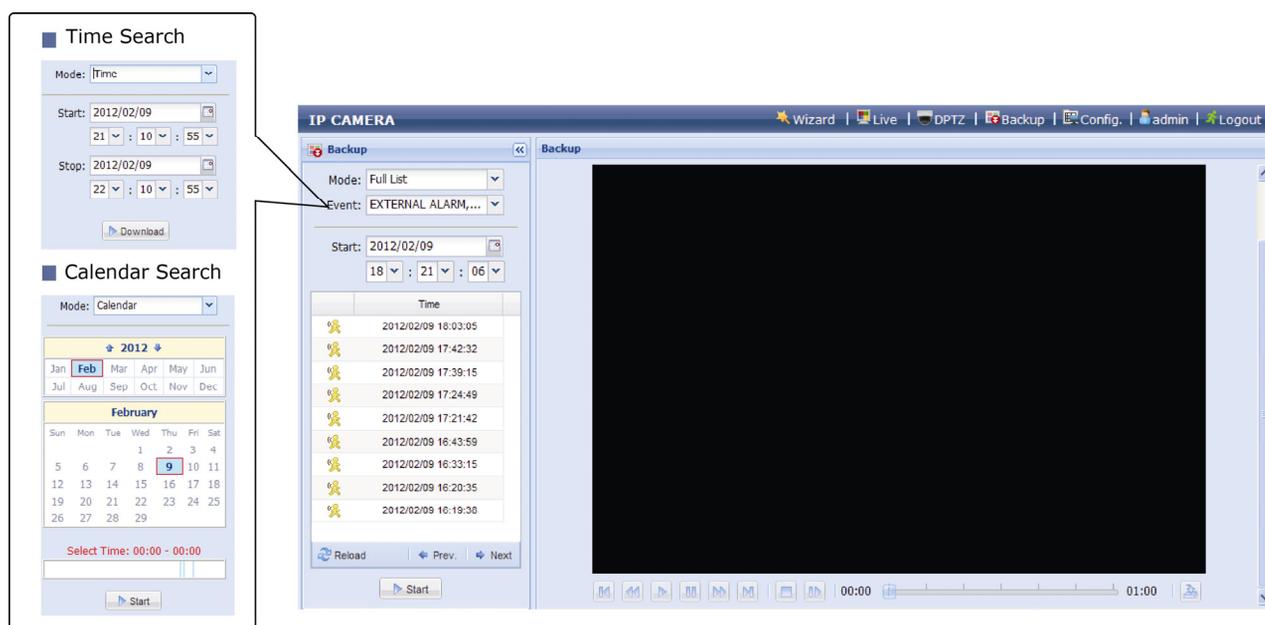
STEP1: Click “DPTZ” to show the DPTZ control panel.



STEP2: Select the functions when needed:

ICON	FUNCTION	DESCRIPTION
	Fit to screen / Original size	<p>There are several display resolutions available. When the selected resolution is out of your current live view support, a part of your surveillance area might get covered on the screen, and you need to manually move on the screen to check the covered part.</p> <p>: This shows the selected resolution is scaled to fit in the current live view size. Click to restore the scaled resolution to its original size.</p> <p>: This shows the live view resolution is in its original size.</p>
	Take snapshots	Click to take a snapshot of the current view, and save to the location specified in “Config.” → “Camera” → “Camera” → “Snapshot Path”.
	Enable Auto mode	<p>Click to activate the auto mode of the camera. The auto mode could be “Sequence” or “Auto Pan” specified in “Config.” → “Camera” → “Cruise” → “Active Mode”.</p> <p>Note: This function is available only when DPTZ is enabled.</p> <p>Sequence: Move to several preset points accordingly and regularly specified in “Config.” → “Camera” → “Cruise” → “Active Mode” → “Sequence”.</p> <p>Note: Preset points are set in “Config.” → “Camera” → “Preset”.</p> <p>Auto Pan: Pan automatically and horizontally.</p>
	Enable DPTZ	<p>Click to activate the digital PTZ function. When this function is enabled, the following operations are available:</p> <ul style="list-style-type: none"> ■ Auto mode ■ Move up / down / left / right after digital zoom-in.
	Zoom in / out	Click to zoom in / out the image.
	Max. zoom in / out	Click to zoom in / out the image.

2.4 Event Record Search & Playback



	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 & 32X speed forward eventually.
	Fast Rewind	Increase the speed for fast forward. Click to get 2X, 4X, 8X, 16X & 32X 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.
	Download	Click to download the current video clip to the specified path in your PC.

3. CAMERA CONFIGURATIONS

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

Note: You need to be "Supervisor" or "Power User" to enter the system configuration page. If not, please re-log into the camera with the supervisor user level.

3.1 System configuration menu

Click "Config." to enter the configuration page.

Note: You need to be "Supervisor" or "Power User" to enter the system configuration page, and the functions available for these two user levels are different. If you're not either of these two user levels, please re-log into the camera with one of them.

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 8.
- For details about "Camera", please refer to "3.3 Camera" at page 10.
- For details about "Record Timer", please refer to "3.4 Record Timer" at page 13.
- For details about "Storage", please refer to "3.5 Storage" at page 14.
- For details about "Trigger", please refer to "3.6 Trigger" at page 14.
- For details about "General", please refer to "3.7 General" at page 16.

Main Menu	Sub-Menu	Reference
Network	Network	Configure network settings.
	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	Allow this camera to be detected among devices within the same network area for easy and quick usage.
Camera	Camera	<ol style="list-style-type: none"> 1. Set the camera title. 2. Specify the snapshot path. 3. Select the streaming settings based on your network environment.
	Preset	Set the preset points for the DPTZ function.
	Cruise	Set the cruise mode when the auto mode is enabled: Sequence or Auto Pan.
	Color	Adjust the color performance.
Record Timer	Record	Configure the record function.
	Record Timer	Schedule the PIR and external alarm recording.
Storage	Memory	Check the current storage capacity and clear all recorded data when needed.
Trigger	Trigger	Configure how the camera reacts for any event.
	Push Video	Set Push Video rules.
General	General	<ol style="list-style-type: none"> 1. Select the language of the web browser. 2. Check the MAC address of the camera. 3. Lock camera access after the specified time.
	Time	Set daylight saving time and the current time.
	Server Log	<i>Available for Supervisor only.</i> Check the system event logs.
	Online	<i>Available for Supervisor only.</i> Check the current online user(s).
	Account	<i>Available for Supervisor only.</i> <ol style="list-style-type: none"> 1. Create a new user account with different access privilege. 2. Modify or delete an existing user account.
	Maintenance	<i>Available for Supervisor only.</i> <ol style="list-style-type: none"> 1. Check the current firmware version and upgrade your camera. 2. Copy system configurations. 3. Download the video player to play the recorded data.

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/n805.swf.

The screenshot shows the 'Network Configuration' web interface. It features several input fields and radio buttons. At the top, there are three radio buttons for 'IP Type': 'Static IP' (selected), 'PPPoE', and 'DHCP'. Below these are fields for 'Server IP' (192.168.1.25), 'Gateway' (192.168.1.254), 'Net Mask' (255.255.255.0), 'Port' (80), 'DNS1' (168.95.1.1), 'DNS2' (0.0.0.0), 'MAC Address' (00:0e:53:1d:6f:f1), and 'ADSL Upload Speed' (Local (>2Mbps)). At the bottom, there are 'Save' and 'Reload' buttons.

3.2.2 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/n805.swf.

The screenshot shows the 'DDNS Configuration' web interface. It includes radio buttons for 'DDNS': 'Enable' (selected) and 'Disable'. There are input fields for 'System Name' (default), 'Hostname' (MAC000e531d6ff1), and 'E-Mail' (manager@tech.com). The domain '.ddns.eagleeyes.tw' is shown next to the hostname field. At the bottom, there are 'Save' and 'Reload' buttons.

3.2.3 SNTP

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

The screenshot shows the 'SNTP Configuration' web interface. It features a 'GMT' dropdown menu set to '(GMT+08:00) Taipei', an 'NTP Server' input field with 'time.stdtime.gov.tw', and a 'Server Time' display showing '2011-01-19 16:30:44'. A 'Sync' button is located below the server time. At the bottom, there are 'Save' and 'Reload' buttons.

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	Click and the network camera will synchronize the time with the network time.

3.2.4 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”.

The screenshot shows the 'FTP Configuration' web interface. It includes input fields for 'Username' (manager), 'Password' (*****), 'Server' (192.168.2.32), 'Port' (21), and 'Directory' (upload). At the bottom, there are 'Save' and 'Reload' buttons.

3.2.5 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”.

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.
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).

3.2.6 Filter

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

Function	Description
Filter Configuration	
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.
IP/MAC Filter Configuration	
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.
IP/MAC Filter Rules	
Rule	<ul style="list-style-type: none"> To add an item to the IP address list, key in the IP address in “Rule”, and click “Add”. To remove an existing item in the IP address list, click the item you want to remove, and click “Delete”.

3.2.7 UPnP

“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.

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

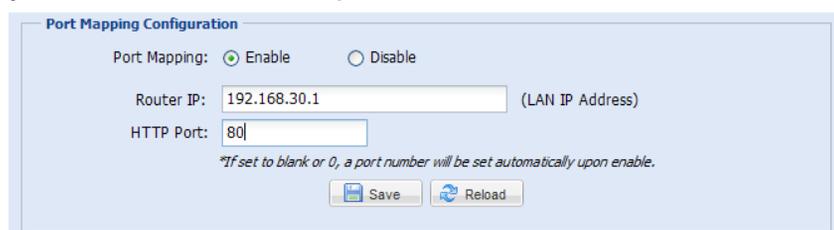
Port Mapping

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/n805.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.

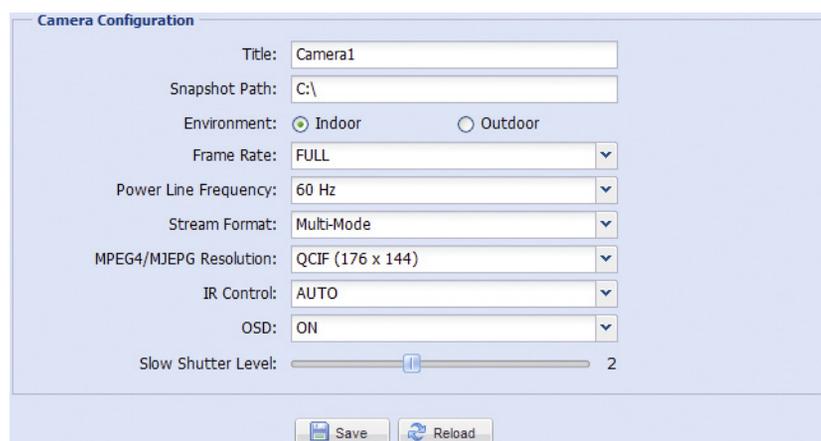


Note: When the configurations are saved successfully, you’ll see a message indicating the IP address and port number assigned to this network camera.

3.3 Camera

3.3.1 Camera

Adjust the camera parameters if necessary.



Item	Description
Title	Enter the title for the camera with up to 15 alphabetic characters.
Snapshot Path	Specify the location to save the snapshot pictures.
Environment	Select the current environment for the camera to automatically adjust itself to produce the images suitable for the selected environment.
Frame Rate	The frame rate allowed to each viewer can be adjusted to adapt to the bandwidth on the network.

Item	Description
	Set the desired image frame rate to the maximum (FULL) or to a specified frame rate (1/2; 1/3; 1/4; 1/5; 1/10; 1/15). The actual frame rate depends on the actual network connection, and may be lower than the specified one.
Power Line Frequency	Select only when your camera video keeps flashing.
Stream Format	Select the stream format to Single H.264 / Single MPEG-4 / Single Motion JPEG / Multi-Mode. <i>Note: Motion detection is not supported when the stream format is set to Motion JPEG.</i>
MPEG4 / MJPEG Resolution	Select the video resolution when the stream format is set to "MPEG4" or "MJPEG". The options are: VGA (640 x 480), QVGA (320 x 240), and QCIF (176 x 144).
IR Control	Select "AUTO" to automatically enable IR LEDs at night or in the dark environment, or "OFF" to disable this function. <i>Note: This camera is designed for indoor use. Color shift might occur at daytime because this model doesn't support ICR (IR Cut Filter Removal) to remove excessive infrared light in the environment.</i>
OSD	Select "ON" to show the camera title on the live view, or "OFF" to hide the camera title.
Slow Shutter Level	This function is used to extend the exposure time for clearer images when the light is not sufficient. Select 1 ~ 5 to extend the exposure time based on your current light condition. The larger the value, the longer the exposure time, and the less the fps. 0 means function off.

3.3.2 Preset

Note: Before using this function, make sure the DPTZ function is enabled.

You can set new preset points (up to 16) or check existing points here.

How to set a new preset point

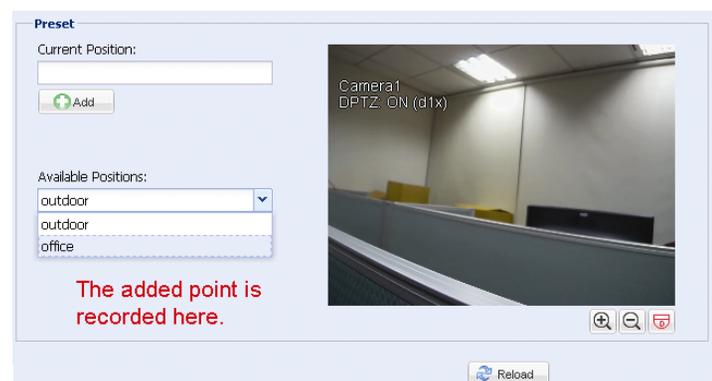
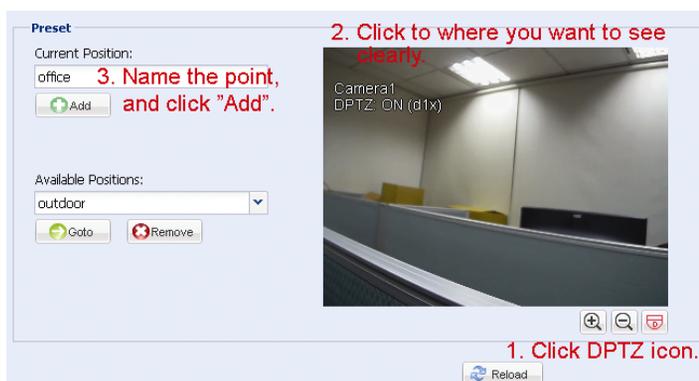
Step1: Click DPTZ icon.

Step2: Move to the point with proper ratio that suits your need.

■ To zoom in / out, you may:

- Click  (zoom in) /  (zoom out).
- Move the cursor to the preview screen, and roll the mouse wheel up (zoom-in) and down (zoom-out).
- Click any point on the preview screen to get a 5X image.
- Draw a square from the top left to bottom right or bottom right to top left to switch among 1x, 3x and 5x images.

Step3: In "Current Position", give a name to this point, and click "Add".



How to check an existing preset point

In "Available Positions", select the name of the point you want to check from the drop-down list, and click "Goto".

You will see the camera view on the right side moving to the point it's recorded.

How to delete an existing preset point

In "Available Positions", select the name of the point you want to check from the drop-down list, and click "Remove".

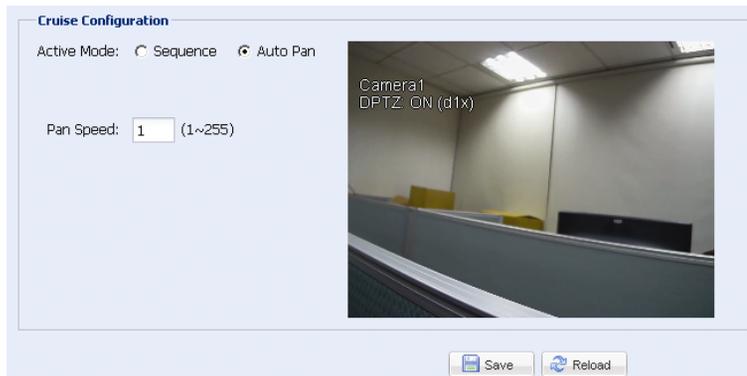
3.3.3 Cruise

Note: Before using this function, make sure you have finished setting several preset points.

Here defines how the auto mode of the camera is going to work when  is selected: Sequence or Auto Pan.

Auto Pan

When “Auto Pan” is selected here and  is clicked on the DPTZ page, the camera will start panning in the 5x zoom-in ratio.

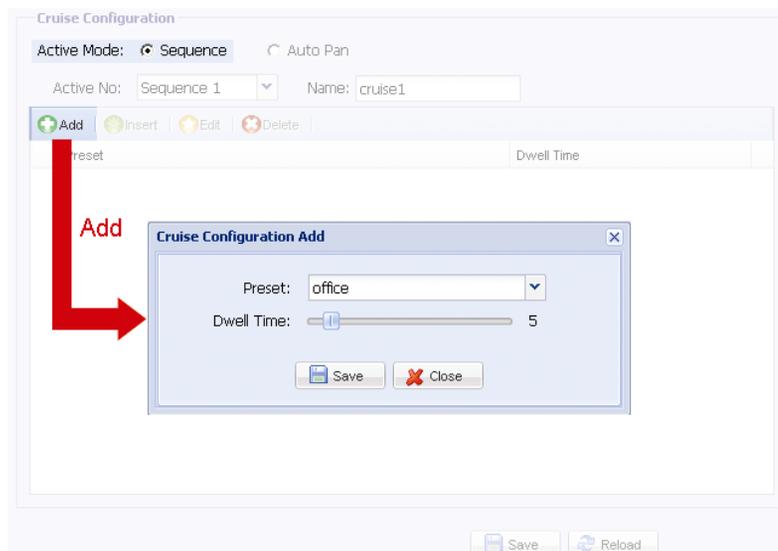


Sequence

When “Sequence” is selected here and  is clicked on the live view page, the camera will start patrolling each preset point defined in “Sequence”.

Step1: Click “Add” to choose a preset point from the drop-down list, and select the duration to stay at this point from 1 ~ 60 seconds.

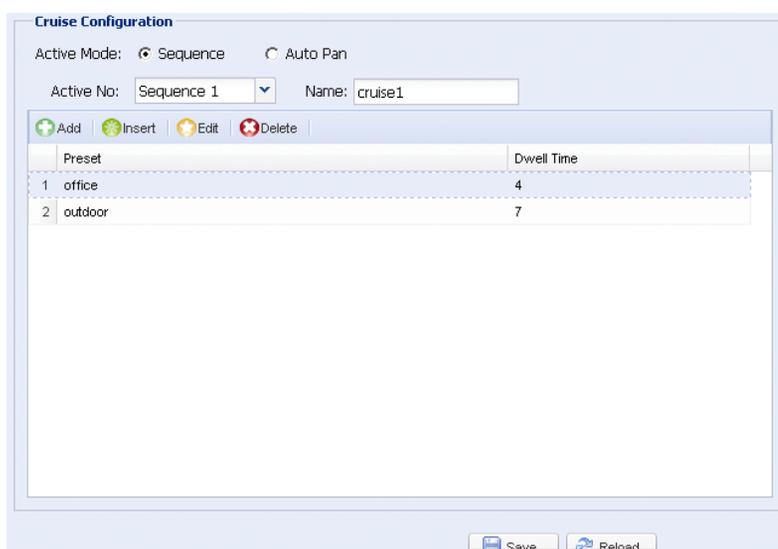
Then, click “Save” to confirm.



Step2: Click “Add” again to add more preset points.

To modify the existing preset point setting, click “Edit”. To insert a preset point before the selected point, click “Insert”. To remove the added preset point, click “Delete”.

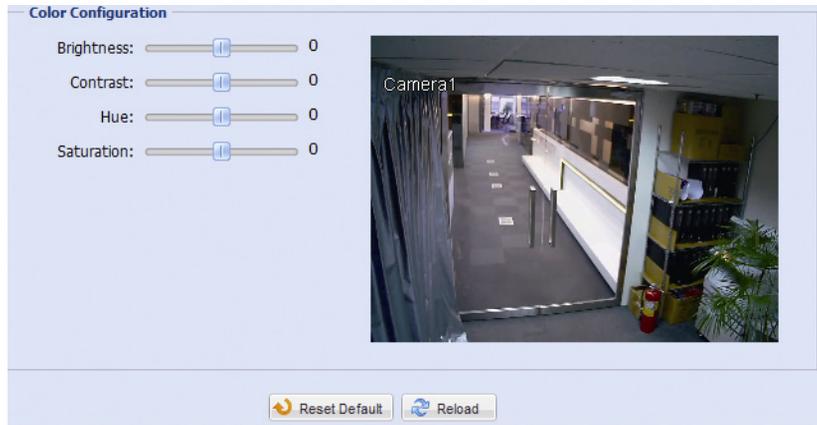
Step3: When all the points are added, click “Save” to confirm.



3.3.4 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 "Reset Default".



3.4 Record Timer

3.4.1 Record

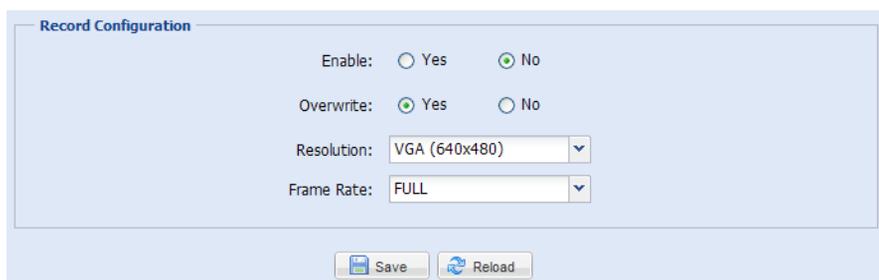
In "Record Configuration", you can:

- 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.
- Select the video resolution for event recording.

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.

- Select the frame rate for event recording.

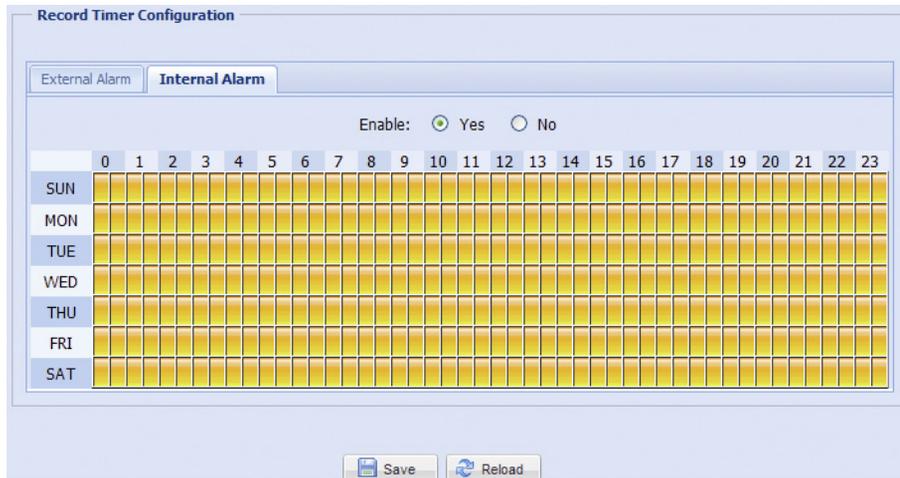
Note: The higher frame rate you choose, the more fluency the recording will be, but the faster the memory storage is consumed and become full.



3.4.2 Record Timer

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

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

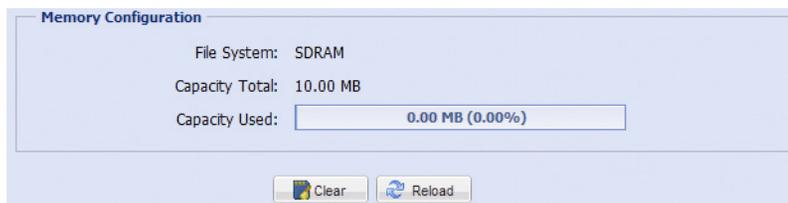


3.5 Storage

3.5.1 Memory

In “Memory”, you can check the remaining capacity of flash memory storage, or clear all recorded data saved if needed.

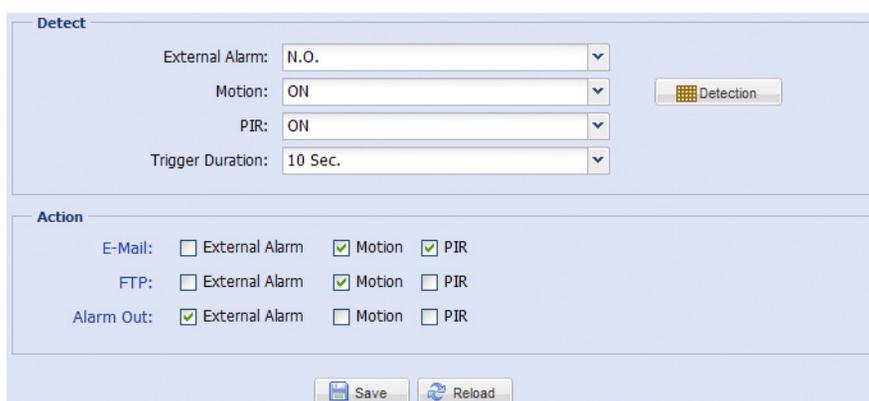
Note: The recorded data will be removed also when you reset or reboot this camera.



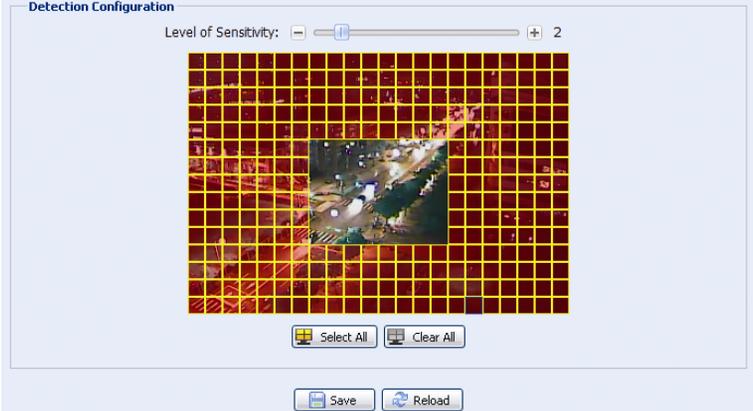
3.6 Trigger

3.6.1 Trigger

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



◆ Detect

Item	Description
External Alarm	Set "N.O." or "N.C." depending on the configuration of your alarm-in device.
Motion	<p>Enable (ON) or disable (OFF) motion detection. <i>Motion detection is not supported when the stream format is Motion JPEG.</i></p> <p>When "Enable" is selected, click "Detection" to enter the motion detection area setting page as follows:</p>  <p>Level of Sensitivity: Set the detection sensitivity from 1 ~ 10.</p> <p>Area Setting: 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	<p>Enable (ON) or disable (OFF) PIR detection. <i>For Push Video to work properly, make sure this function is enabled.</i></p>
Trigger 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. Then, click the title "E-Mail" to configure the record time from 1 ~ 5 seconds. The camera will send the captured video clip to the E-mail address(s) 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. Then, click the title "FTP" to configure the record time from 1 ~ 5 seconds. The camera will upload the captured video clip to the FTP site 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. Then, click the title "Alarm Out" to configure the trigger rule.</p>

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 internal alarm or external alarm (depending on the alarm type you have) 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. <i>When this function is enabled, the image resolution is fixed to “VGA”.</i>
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"> ■ External Alarm – The alarm device additionally connected to your camera ■ Internal Alarm – The human detection function built in this camera This function is set to “Internal Alarm OR External Alarm” by default.
Record Frame Rate	Select the frame rate for Push Video recording.
SMS Text	Define the context when you receive the Push Video message on your iPhone or Android mobile device. Up to 28 characters are allowed.

3.7 General

3.7.1 General

In “General”, you can select the UI language, and check the MAC address of your camera.

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.

3.7.2 Time

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

The screenshot shows two configuration panels. The first panel, titled "Time Configuration", has a "Date" field set to "2010/06/09" and a "Time" field set to "19:09:20". Below these fields are "Save" and "Reload" buttons. The second panel, titled "Daylight Saving Time Configuration", has a "Daylight Saving Time" section with "Enable" selected. It includes fields for "Start Time" (August, First Week, Monday, 6:00), "End Time" (October, Fifth Week, Monday, 10:00), and "Adjust Time" (1:00). It also has "Save" and "Reload" buttons.

Function	Description
■ Time Configuration	
Date	Set the current date.
Time	Set the current time.
■ Daylight Saving Time Configuration	
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

Note: This function is available only for “Supervisor”.

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”.

The screenshot shows the "Server Log List" interface. It features a table with columns for "No.", "Event", "Time", and "Result". The table contains 12 rows of log entries. Below the table are navigation buttons: "Prev. Page", "Next Page", "Reload", and "Clean All". At the bottom, there are several checkboxes for filtering events: Power On, Remote Login, Reset Default, E-Mail, FTP, DDNS, PPPoE, and DHCP. The "SNTP Update" checkbox is also checked.

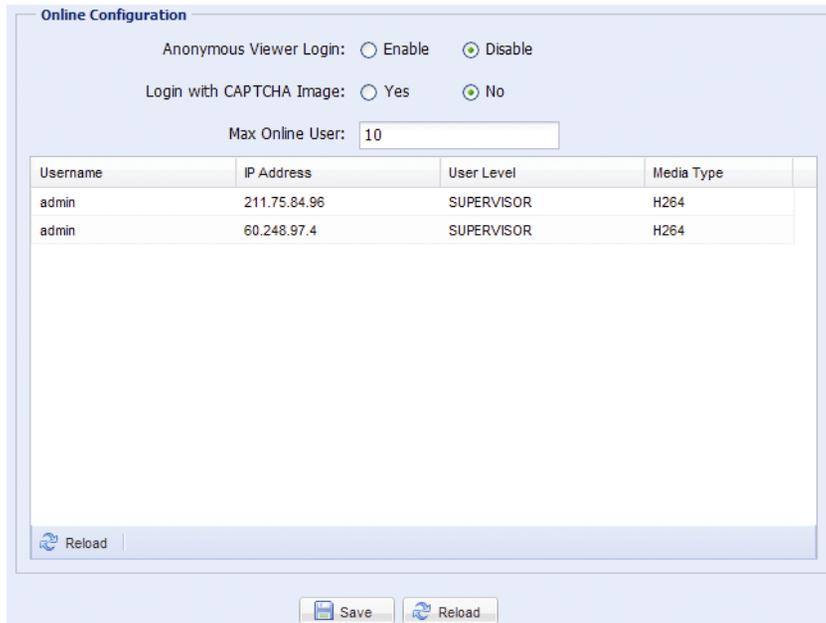
No.	Event	Time	Result
1	Remote Login	2011/03/31 17:54:36	admin
2	Remote Login	2011/03/31 17:54:04	normal
3	Remote Login	2011/03/31 17:35:01	admin
4	Remote Login	2011/03/31 17:26:11	normal
5	Remote Login	2011/03/31 17:25:25	power
6	Remote Login	2011/03/31 17:21:00	admin
7	SNTP Update	2011/03/31 17:20:55	Failed
8	Power On	2011/03/31 17:20:21	ON
9	SNTP Update	2011/03/31 17:17:37	Failed
10	Power On	2011/03/31 17:17:04	ON
11	Remote Login	2011/03/31 16:48:56	admin
12	Remote Login	2011/03/31 16:42:17	admin

3.7.4 Online

Note: This function is available only for "Supervisor".

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".



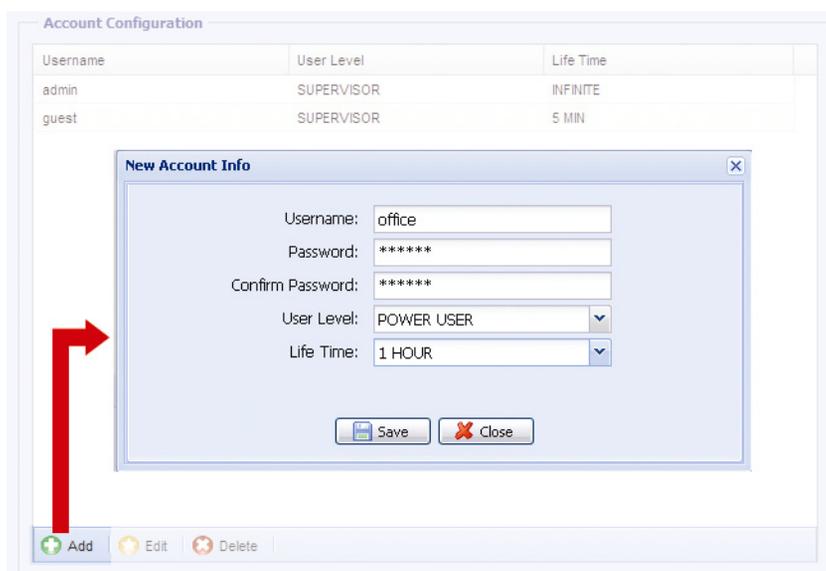
3.7.5 Account

Note: This function is available only for "Supervisor".

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

Note: This function is available only for “Supervisor”.

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: For system upgrade, you can only upgrade one file at a time. To upgrade all files, you need to start from Step1 again when one file is upgraded.

Step1: Click “” to browse to where you save the upgrade files, and select one of them (two files in total).



Step2: Click “Upgrade” to start system upgrading. The camera will reboot after file upgrade.

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.

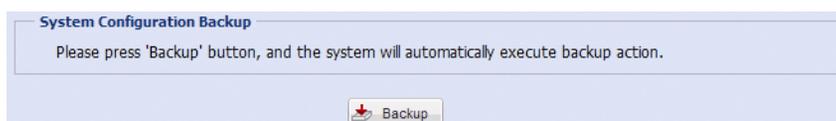
Step3: Repeat Step1 ~ 2 again, but select the other file to upgrade this time.

System Configuration Backup

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

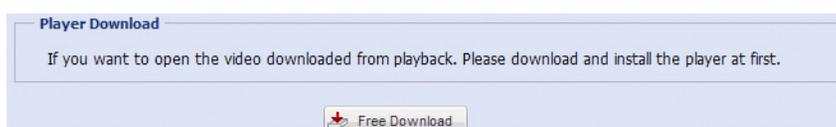
You may import the same system configuration to another AVN805, or restore your system configuration when AVN805 is reset to default values.

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



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

AVN805	
■ Network	
Network Compression	H.264 / MPEG4 / MJPEG
Multiple Video Streaming (Encode Modes, IPS, Resolution)	3 (H.264, MJPEG, MPEG4)
LAN Port	YES
LAN Speed	10/100 Based-T Ethernet
Supported Protocols	DDNS, PPPoE, DHCP, NTP, SNTP, TCP/IP, ICMP, SMTP, FTP, HTTP, RTP, RTSP, UPnP
Frame Rate	NTSC:30, PAL:25
Number of Online Users	10
Security	(1) Multiple user access levels with password (2) IP address filtering (3) Digest authentication
Remote Access	(1) Internet Explorer® on Windows® operating system (2) EagleEyes on iPhone, iPad & Android mobile devices
■ Camera	
Image Sensor	1/3" MOS image sensor
Video Resolution	SXGA, SXVGA, 720P, VGA, QVGA
Min Illumination	0.1 Lux / F1.5, 0 Lux (LED ON)
Shutter Speed	1 / 60 (1/50) to 1 / 100,000 sec.
S/N Ratio	More than 48dB (AGC off)
Lens	f3.8mm / F1.5
Viewing Angle	80.4°(Diagonal)
IR LED	12 units
IR Effective Range	Up to 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
Power Source (±10%)	DC12V / 1A
Operating Temperature	0°C ~ 40°C
Dimensions(mm)**	130(φ) x 60(H)
■ Others	
Mobile Surveillance	iPad, iPhone & Android mobile device
Memory Storage	Built-in
RTC (real-time clock)	YES
Motion Detection	YES
Digital Pan / Tilt / Zoom	YES
Event Notification	Push Video / FTP / Email
Minimum Web Browsing Requirements	<ul style="list-style-type: none"> • Pentium 4 CPU 1.3 GHz or higher, or equivalent AMD • 256 MB RAM • AGP graphics card, Direct Draw, 32MB RAM • Windows 7, Vista & XP, DirectX 9.0 or later • Internet Explorer 7.x or later

** The specifications are subject to change without notice.

** Dimensional tolerance: ± 5mm

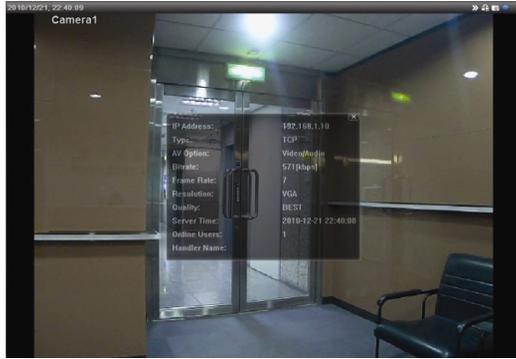
APPENDIX 2 BIT RATE TABLE FOR REFERENCE

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	

Resolution	Quality	Frame Rate	(Dynamic) kbps	(Static) kbps
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 Q&A

For more details about Q&A, please visit our official website: www.eagleeyesctv.com/supp_QnA.aspx.

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 computer (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 "Advanced Network Setup" downloadable from www.surveillance-download.com/user/n805.swf 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>Image fluency could be affected by the local network upload bandwidth, router efficiency, client network download bandwidth, complexity of live view, and more. ^L</p> <p>(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".</p>
<p>What's "Push Video"?</p>	<p>"Push Video" is an active notification system, different from traditional FTP & 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>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>There're some tips for installation. For details, please go to www.eagleeyesctv.com/supp_QnA.aspx.</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 users, access the camera, and select "" on the top right corner to enter IPCAM Configuration page. Then, go to "Advance Setup" → "Camera" to change setting.</p> <p>For access from Internet Explorer, log into the camera, and select "Config." → "Camera" → "Camera".</p>
<p>I see some color shift. Why?</p>	<p>This camera is designed for indoor use. Color shift might occur at daytime because this model doesn't support ICR (IR Cut Filter Removal) to remove excessive infrared light in the environment.</p> <p>For models with ICR, please check AVN806 and AVN807A.</p>