

Dome

IP CAMERA SERIES

OPERATION GUIDE

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

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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.

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1. OVERVIEW

1.1 Product Features

- **ONVIF** standard supported to simplify system integration
- **POE (Power-over-Ethernet)** support to eliminate the use of power cables and reduce installation costs
- IR LEDs built-in for **night surveillance**
- **DWDR** to increase image recognizability in overexposure and dark areas.
- **Remote Surveillance**
 - **Full compatibility** with **iOS & Android OS**, and **Internet Explorer** on Windows operating system

1.2 Package Content

➤ Standard Package

IR Camera Quick Guide

➤ Optional Accessories

Screws & wall plugs Wrench

1.3 Cable Overview

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.
GND	Ground wire, used for reset default or external device connection.
RESET	Remove the insulating coating of this wire, and twist it with a ground wire together to reset default. This will reset all parameters, including the IP address to factory default settings. Note: Disconnect power before twisting these two wires together, and connect to power again for reset default.

2. CAMERA ACCESS WITH INTERNET EXPLORER

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

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

For network configurations, please refer to:

- **“ADVANCED NETWORK SETUP”** downloadable from www.surveillance-download.com/user/dm1304.swf.

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.

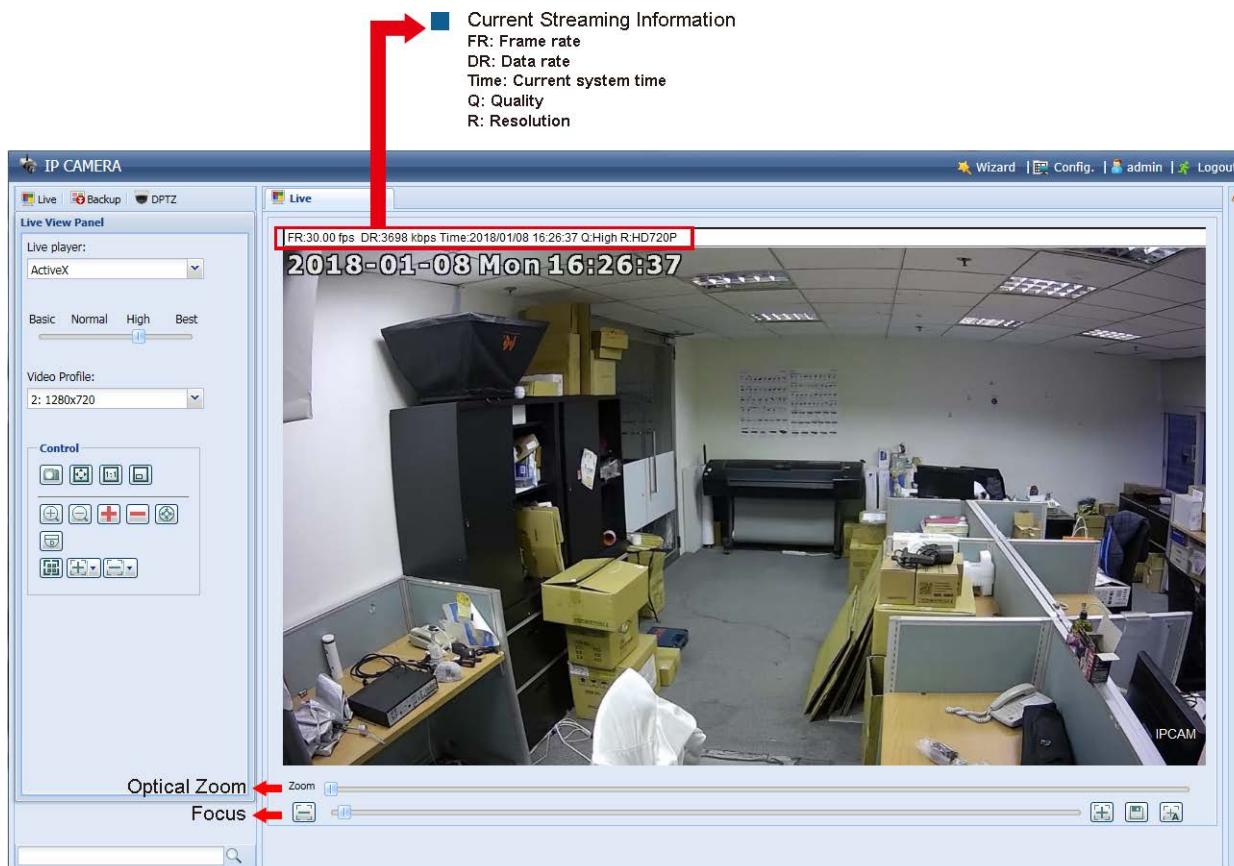
- To skip the wizard and directly access the camera live view, click “Close”.
- To directly access the camera live view without starting the wizard for the login next time, check “Do not start wizard at login”.

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 device you have and the user level used to log in.



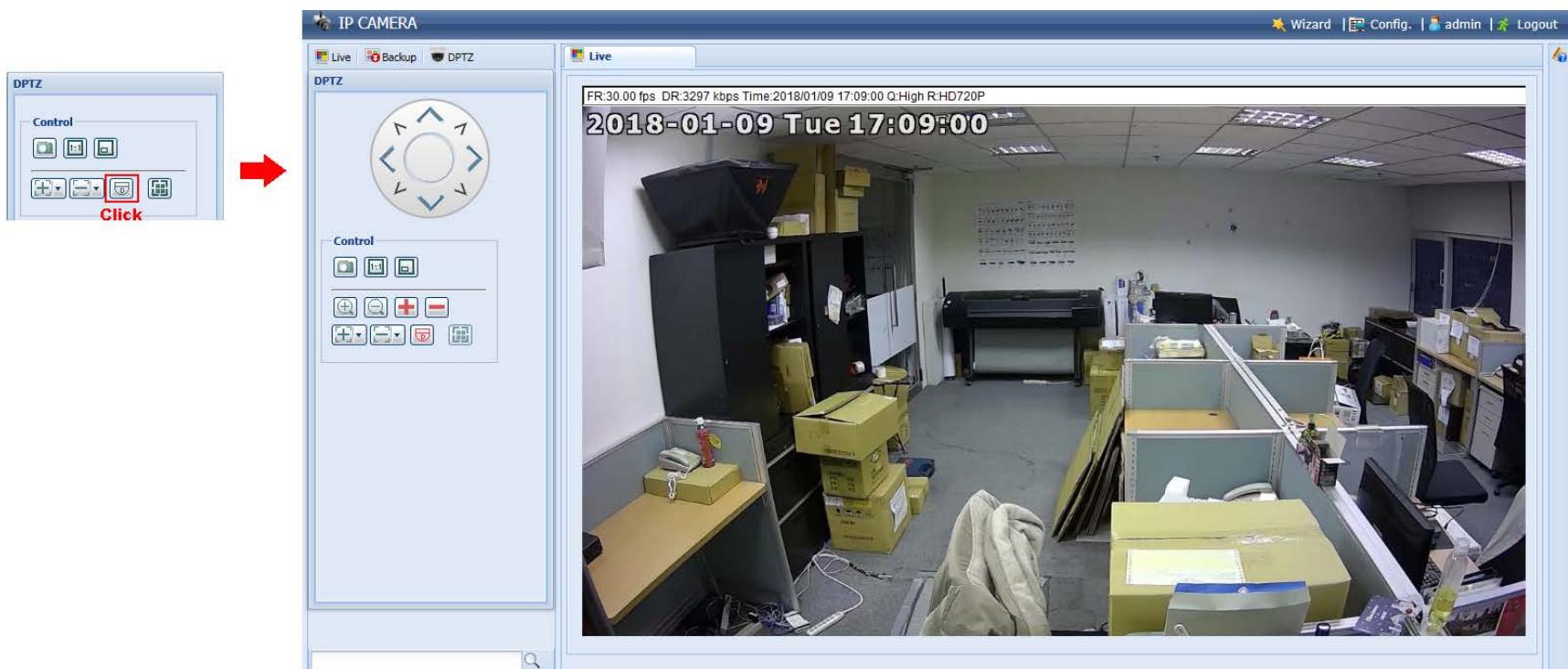
Function	Icon	User Level	Description
Live		Supervisor / Power User / Normal User / Guest	Switch to the live view page.
Backup*		Supervisor / Power User	Enter the event record list for video playback. For details, please refer to "2.4 Event Record Search & Playback (For selected models only)" at page 5.
DPTZ*		Supervisor / Power User / Normal User	Switch to the DPTZ configuration page. For details, please refer to "2.3 Digital PTZ (DPTZ) Operations (For selected models only)" at page 4.
Config.		Supervisor / Power User	Switch to the system configuration page. The functions available for "Supervisor" and "Power User" are different. For more details, please refer to "3.1 System configuration menu" at page 6.
Live player	--	Supervisor / Power User / Normal User / Guest	Select the image player from the drop-down list: ■ ActiveX ■ QuickTime 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 prompted to enter the user name and password to access the camera. ■ VLC
Quality	--	Supervisor / Power User / Normal User	Click & drag the slider to select the video quality: BASIC / NORMAL / HIGH / BEST.
Video Profile	--	Supervisor / Power User / Normal User	Select the pre-defined video set from the drop list. The video set could be configured in "Config" -> "Camera" -> "Video".
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.
Live View Size:		Supervisor / Power User / Normal User	
Full Screen			Click to display the image in full screen. To exit the full screen mode, press "Esc" on your keyboard. <i>This icon appears only when the selected resolution is 640 x 480 or above.</i>
Double size			The QVGA resolution is resized to fit into the current live view size. <i>This icon appears only when the selected resolution is 320 x 240.</i>
Normal Size			The current live view size is the same as the selected resolution. <i>This icon appears only when the selected resolution is 1280 x 720 or above.</i>
Fit to screen			The selected resolution is resized to fit into the current live view size. <i>This icon appears only when the selected resolution is 1280 x 720 or above.</i>
No 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 1280 x 720 or above.</i>
Microphone*		Supervisor	Click to switch the audio-out on / off.
Zoom-in / out*		Supervisor / Power User / Normal User	Click to zoom in / out the current image. <i>This function is available only when DPTZ is enabled.</i>
Max. Zoom-in / out*		Supervisor / Power User / Normal User	Click to zoom in the image to the largest / zoom out the image to its original size. <i>This function is available only when DPTZ is enabled.</i>
Lens Reset*		Supervisor / Power User / Normal User	This function is used when the focus is not clear. Click to re-capture the default focus parameters in each zoom ratio and see if helps. If you still think the focus is not as clear as you expected, please adjust the focus manually by using / . <i>This function is available only for motorized vari-focal models.</i>
DPTZ*		Supervisor / Power User / Normal User	Click to enable the zoom-in / out function. To move the image in the zoom-in mode, simply click on where you want to see in the live view. <i>For vari-focal models only.</i>
Focus Zone*		Supervisor / Power User / Normal User	This function is used to change the center of the focus when you think the thing you want to see is not clear enough.
Focus near / out*		Supervisor / Power User / Normal User	Click to zoom in / out the image.
Manual Focus*		Supervisor / Power User / Normal User	This function is used to memorize the focus parameters you've made after you use / / / to manually adjust the focal length and focus. The next time when you move to the same focal length, the camera will use the parameters as the ones for Auto Focus.
Auto Focus*		Supervisor / Power User / Normal User	Click to automatically adjust the focus of the camera.

* For selected models only

2.3 Digital PTZ (DPTZ) Operations (For selected models only)

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

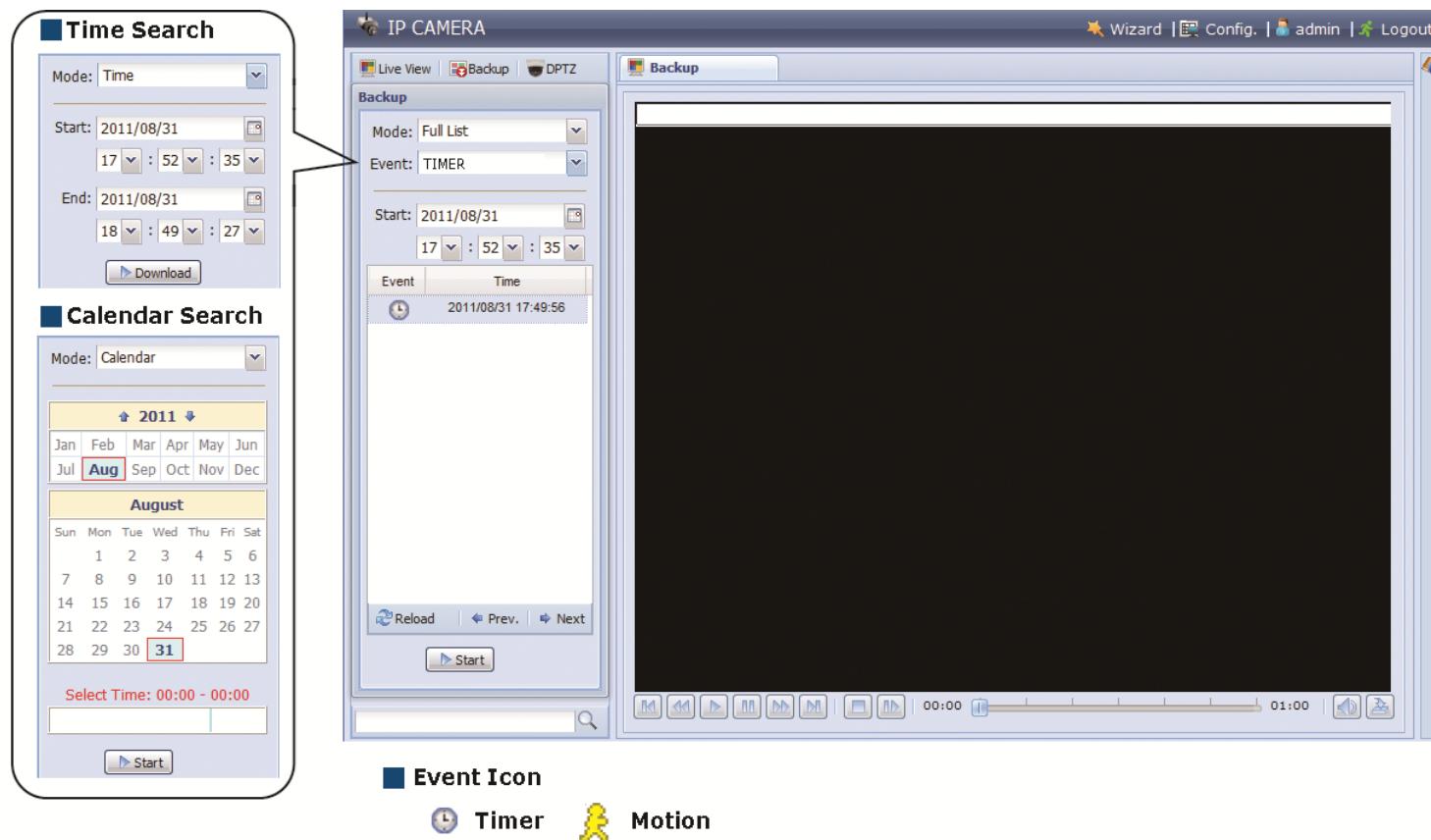
Click “DPTZ” to show the DPTZ control panel.



FUNCTION	ICON	DESCRIPTION
Moving panel	--	When is selected, the moving control panel will be shown to move the picture after zoom-in is performed.
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.
Zoom in / out	/	Click once to enlarge the picture by 1X, and click once to restore the zoom ratio by 1X.
Max. zoom in / out	/	Click once to enlarge the picture to the max zoom ratio by 16X, and click once to restore the picture ratio to 1X.
Focus near / far	/	Click to adjust the focus of the image.
Normal Size		The current live view size is the same as the selected resolution. <i>This icon appears only when the selected resolution is 1280 x 720 or above.</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>
Focus Zone*		This function is used to change the center of the focus when you think the thing you want to see is not clear enough.

2.4 Event Record Search & Playback (For selected models only)

Note: To save more recorded data, it's recommended to use this camera with a compatible NVR.



 / 	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.

The functions are categorized into seven menus: Network, Camera, ONVIF, 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 13
- For details about “ONVIF”, please refer to “3.4 ONVIF” at page 18.
- For details about “Record”, please refer to “3.5 Record (For selected models only)” at page 19.
- For details about “Storage”, please refer to “3.6 Storage (For selected models only)” at page 19.
- For details about “Trigger”, please refer to “3.7 Trigger” at page 20.
- For details about “General”, please refer to “3.8 General” at page 22.

Main Menu	Sub-Menu	Reference
Network	Network	Configure network settings. If your device supports EaZy Networking to quickly connect your device to the network, please enable EaZy Networking here.
	QoS	Limit the data flow for live streaming.
	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”.
	SMS	Enter text messaging information for SMS notifications when “SMS” 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.
Trigger	RTP	Set the parameters for video data transmission when you’re using multimedia other than web browsers and Video Viewer for remote access.
	SNMP*	Configure SNMP to remotely manage network devices.
	IEEE 802.1X*	The settings here enable the camera to access a network protected by 802.1X/EAPOL (Extensible Authentication Protocol Over LAN).
	Network Share	Assign a location in the LAN environment to save the snapshot of events when “Network Share” is chosen in “Trigger” → “Snapshot”.
	Network Failure Detection	Configure this camera to check the network connection of other device periodically, and send notifications via Email or FTP for disconnection events.
Camera	Camera	1. Rename the camera. 2. Change the place where the camera name is shown on the screen.
	Video	Adjust video-related settings in different video format.
	ROI*	Select a specific area to reinforce the image quality of that area.
	Color	Adjust the color performance.
	Audio*	Adjust the volume for sound picking.
	Advanced	Adjust the camera parameters if necessary.
ONVIF	Event	This function is used to integrate the functions of event detection when this camera has to work with other ONVIF-compliant device.
Record*	Record	Configure the record function.
	Record Timer	Schedule recording for specific events..
Storage*	Memory	Check the current storage capacity and clear all recorded data when needed.

**Selected models only*

Main Menu	Sub-Menu	Reference
Trigger	Trigger	<ol style="list-style-type: none"> 1. Enable / disable the motion / internal alarm detection. 2. Set the motion detection area. 3. Configure how the camera reacts for any event.
	Push Video*	Configure to receive active alarm notifications within 5 seconds after event occurrence on mobile devices.
	Snapshot	Schedule the camera to take snapshots periodically or at a specific time, and send to E-Mail, FTP and / or Network Share for backup. Time-lapse recording could also be configured here.
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	Check the system event logs.
	Online	Check the current online user(s).
	Account	<ol style="list-style-type: none"> 1. Create a new user account with different access privilege. 2. Modify or delete an existing user account.
	Google Maps	Allow you to know where the network camera is.
	Maintenance	<ol style="list-style-type: none"> 1. Check the current firmware version and upgrade your camera. 2. Copy system configurations. 3. Reboot the camera. 4. Download the video player to play the recorded data.

*Selected models only

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/dm1304.swf.

Note: EaZy Networking & IPv6 are supported only for selected models to quickly connect the device to the internet. To know how to use EaZy Networking, please refer to “APPENDIX 9 EAZY NETWORKING” at page 44.



The screenshot shows the Network configuration interface. The top section, 'IPv4', includes fields for IP Type (selected: DHCP), Server IP (192.168.1.10), Gateway (192.168.1.1), Net Mask (255.255.255.0), Port (88), DNS1 (8.8.8.8), DNS2 (168.95.1.1), MAC Address (00:0E:53:2A:BB:E9), and Enable EaZy Networking (OFF). Below this is a QR code with the MAC address 00:0E:53:2A:BB:E9. The bottom section, 'IPv6', includes fields for Enable (OFF), IP Type (selected: DHCP), IP Address (2001:DB8::1), Prefix length (64), Gateway (2001:DB8::FE), DNS (2001:4860:4860:8888), and Local Link IP Address (fe80::20e:53ff:fe2a:bbef).

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.



The screenshot shows the QoS Configuration interface. It has a 'QoS' section with 'Enable' selected, an 'Interface' dropdown set to 'Ethernet', and a 'Max. Upload Rate' input field set to '4096' kbps. At the bottom are 'Save' and 'Reload' buttons.

3.2.3 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/dm1304.swf.



The screenshot shows the DDNS Configuration interface. It has a 'DDNS' section with 'Enable' selected, a 'System Name' dropdown set to 'default', a 'Hostname' input field containing 'MAC000e531d6ff1.ddns.eagleeyes.tw', and an 'E-Mail' input field containing 'manager@tech.com'. At the bottom are 'Save' and 'Reload' buttons.

3.2.4 SNTP

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

SNTP Configuration

GMT: (GMT+08:00) Taipei

NTP Server: tock.stdtime.gov.tw

Sync. Period: Daily

Server Time: 2011-08-30 20:34:42

Sync. Save Reload

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.

3.2.5 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".

FTP Configuration

Username: manager

Password: *****

Server: 211.75.85.33

Port: 21

Directory: upload

Mode: Passive

Save Test Reload

3.2.6 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".

SMTP Configuration

SMTP Server: smtp.gmail.com

Port: 465

Mail From: office_manager@gmail.com

Use SSL Encryption: Yes No

Verify Password: Yes No

Username: manager

Password: *****

Subject: Trigger Occur!

Save Test Reload

E-Mail Address List

E-Mail Address: Add Edit Delete

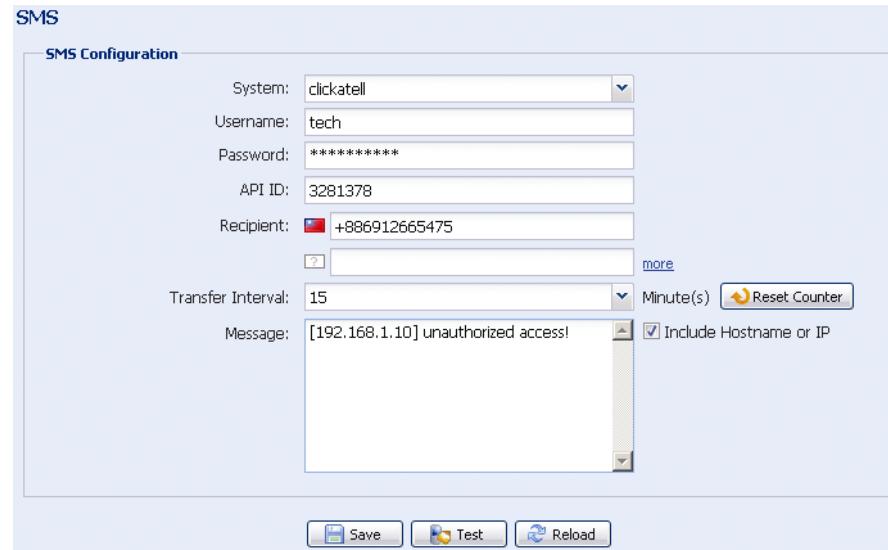
Receiver Name	E-Mail Address
boss	boss@tech.com

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".
Subject	Enter the subject for the E-Mail.
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.

3.2.7 SMS

Note: Before using this function, you need to apply an account and get an API ID from the mobile messaging company, such as Clickatell and EVERY8D. For details, please refer to “APPENDIX 4 API ID APPLICATION FOR SMS MESSAGING” at page 34.

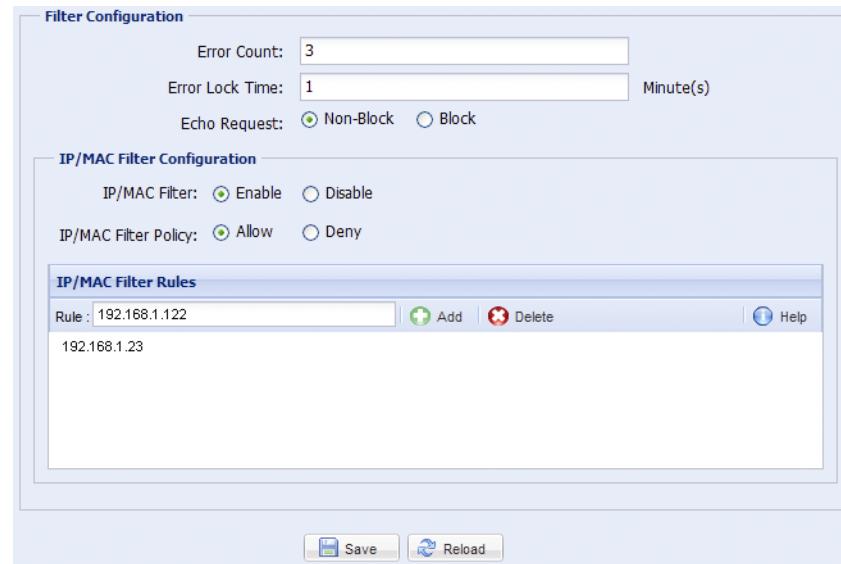
Enter the detailed information needed for text messaging, and click “Save” to confirm. The information you set here will be applied when “SMS” is selected in “General” → “Trigger”.



Function	Description
System	The text messaging service provider is Clickatell.
User name / Password	Enter the account user name and password you created in Clickatell.
API ID	Enter the API ID you applied from Clickatell.
Recipient	Click “Add” to enter the phone number, including the country code, to receive the text message. Five sets of phone numbers are allowed.
Transfer Interval	Set the interval time in minutes between two-message sending. The options are 0, 15, 30 & 60.
Reset Counter	Click to restart the text messaging, and the SMS will be sent after the specified time interval since you click this button.
Message	Enter the text content (up to 70 characters) you want to send with the text message.
Test	To know whether your SMS setting is correct, click this button to immediately send a SMS to your phone. Note: This testing is not free and you will be charged for SMS sending base on your local rate.

3.2.8 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”.

3.2.9 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: IP CAMERA (Fixed) AVM457R-000E53EB6210

➤ Bonjour

Bonjour Configuration

Bonjour: Enable Disable

Device Name: IP CAMERA (Fixed) AVM457R-000E53EB6210

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/dm1304.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.



The screenshot shows the 'Port Mapping Configuration' interface. It has a radio button for 'Port Mapping' (selected 'Enable') and a 'Disable' option. Below it, a message says '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.' There are input fields for 'Router IP:' (LAN IP Address), 'HTTP Port:' (80), and 'HTTPS Port:' (59207). A note below says 'If set to blank or 0, a port number will be set automatically upon enable.' At the bottom are 'Save' and 'Reload' buttons.

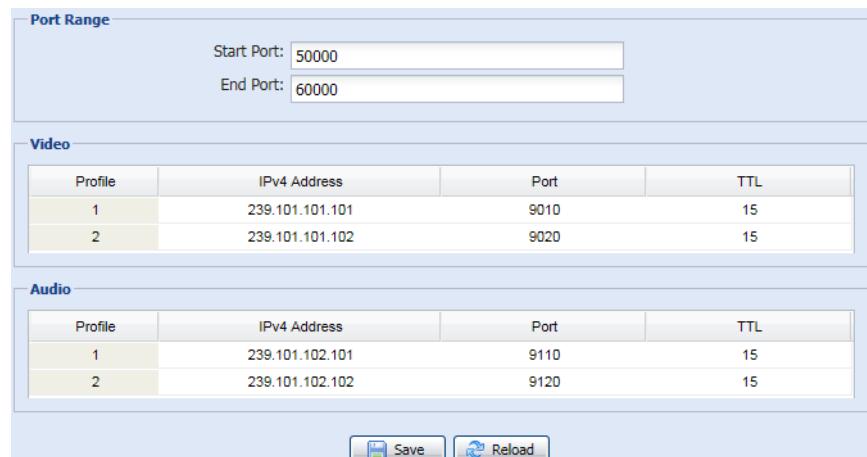
Note: When the configurations are saved successfully, you'll see a message indicating the IP address and port number assigned to this network camera.

3.2.10 RTP

The Real-time Transport Protocol (RTP) is an Internet protocol standard to manage the real-time transmission of multimedia, such as VLC player.

The media player you want to use for remote access must support RTP transmission for this function to work normally.

Note: When you're about to end the remote access, please press the stop button on your media player first, and then close the program. This is to ensure the server receives the stop command, and also help to protect the server from redundant data transmission.



The screenshot shows the 'Port Range' configuration interface. It has 'Start Port' (50000) and 'End Port' (60000) fields. Below are two tables: 'Video' and 'Audio'. The 'Video' table has two profiles: Profile 1 (IP: 239.101.101.101, Port: 9010, TTL: 15) and Profile 2 (IP: 239.101.101.102, Port: 9020, TTL: 15). The 'Audio' table has two profiles: Profile 1 (IP: 239.101.102.101, Port: 9110, TTL: 15) and Profile 2 (IP: 239.101.102.102, Port: 9120, TTL: 15). At the bottom are 'Save' and 'Reload' buttons.

Function	Description
■ Port Range	
The port range used by RTP is limited, and preserving 100 ports between the start port and end port is necessary.	
Start Port	The range of the start port is 1024 ~ 65434.
End Port	The range of the end port is 1124 ~ 65534.
■ Video	
Address and port for video transmission	Set a specific address and port for multicast of profile 1 ~ 4. The range of the address is limited between 224.0.0.1 ~ 239.255.255.255. The port for multicast must be an even number.
■ Audio	
Address and port for audio transmission	Set a specific address and port for multicast of audio. The range of the address is limited between 224.0.0.1 ~ 239.255.255.255. The port for multicast must be an even number.

3.2.11 SNMP (For selected models only)

SNMP, Simple Network Management Protocol, is used to facilitate the exchange of management information between network-attached devices, and network administrators could use it to monitor those devices.

The SNMP consists of three basic components:

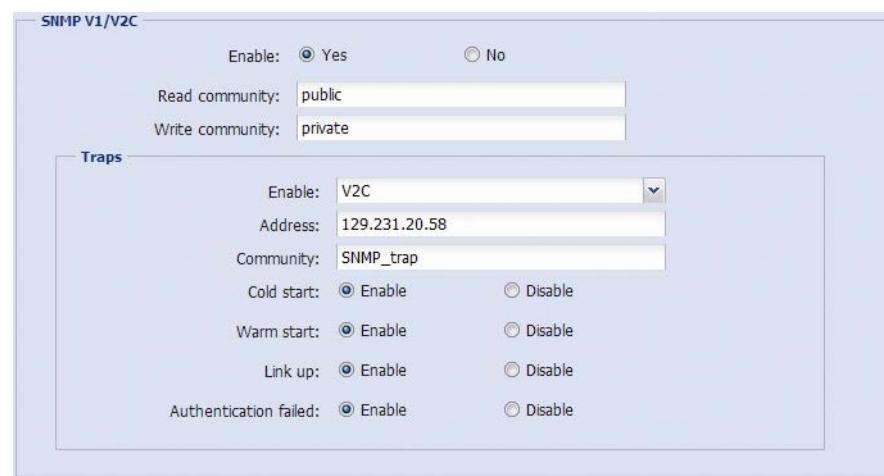
- **Network-management systems (NMSs)** to monitor and control the managed devices.
- **Managed devices** as network nodes to save all network and management information, such as routers, access servers, switches, bridges, hubs, etc.
- **Agents** as network management software modules on managed devices to provide the status of managed devices to NMSs.

Note: Before configuring SNMP settings, make sure your NMS is enabled first.

Enable SNMP V1 / V2C

Select “Yes” to enable this function, and enter the names of “Read community” and “Write community” based on your NMS configurations.

To enable “Traps” to notify the management station of important events, choose “V1” or “V2C” in “Enable”, enter the address and community name, and select the event type(s) needed.



SNMP V1/V2C

Enable: Yes No

Read community: public

Write community: private

Traps

Enable: V2C

Address: 129.231.20.58

Community: SNMP_trap

Cold start: Enable Disable

Warm start: Enable Disable

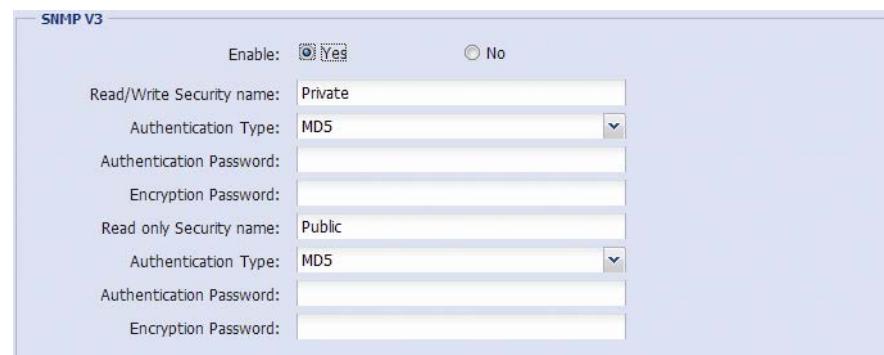
Link up: Enable Disable

Authentication failed: Enable Disable

Enable SNMP V3

SNMP V3 has a higher security level than SNMP V1 / V2C to allow configuring the authentication password and encryption password.

Choose “Read/Write Security name” or “Read only Security name” based on your NMS settings, and enter the community name. Then, select the authentication type from “MD5” or “SHA”, and enter the password for authentication and encryption. The password length is from 8 to 31 characters.



SNMP V3

Enable: Yes No

Read/Write Security name: Private

Authentication Type: MD5

Authentication Password: [redacted]

Encryption Password: [redacted]

Read only Security name: Public

Authentication Type: MD5

Authentication Password: [redacted]

Encryption Password: [redacted]

3.2.12 IEEE 802.1X (For selected models only)

The settings here enable the camera to access a network protected by 802.1X/EAPOL (Extensible Authentication Protocol Over LAN).

Note: For authentication to work properly, it's important to synchronize the time in the camera with an NTP server.

Before using this function, make sure:

- The switch and RADIUS server you have in the LAN environment supports IEEE 802.1X, and IEEE 802.1X settings are enabled.
- You've applied a digital certificate from a Certificate Authority which can be validated by a RADIUS server, and the identity and password used.

Then, follow the steps below:

Step1: Connect this camera to a PC or laptop directly, and go to its login page to log in.

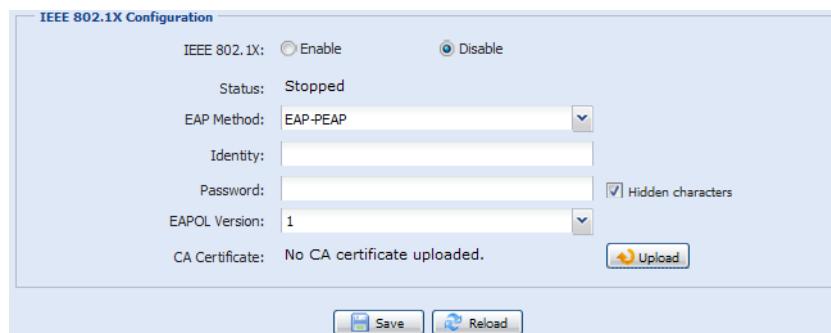
Note: To know how to connect the camera to a PC or laptop directly, please check "4 Modem / Hub + Modem" in "[ADVANCED NETWORK SETUP](#)".

Step2: Log into the camera, and go to "Config" → "Network" → "IEEE 802.1X". Enable this function, and select the EAP method you want to use.

Note: This camera supports "EAP-PEAP", "EAP-TLS" and "EAP-TTLS".

Step3: Enter the identity and password you get from the Certificate Authority, and select the EAPOL version used in your switch.

Step4: Upload the certificate(s) issued by the Certificate Authority, and save.



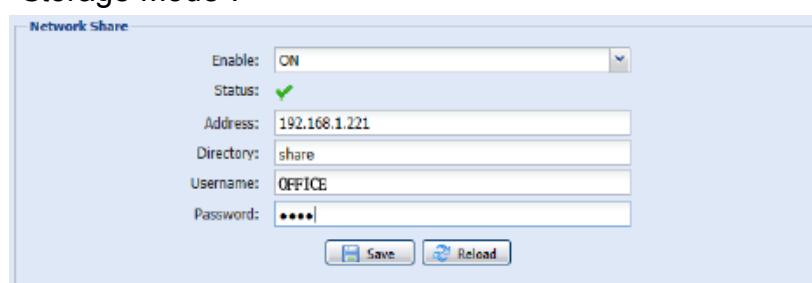
Step5: Disconnect the camera from your PC or laptop, and connect it to the switch in the LAN environment you want to use IEEE 802.1x, and the camera will start the authentication later.

3.2.13 Network Share

This function is used to assign a location in the LAN environment to save the snapshot of events.

Note: This function is available only for Windows operating systems.

The information you set here will be applied when "Network Share" is selected in "Trigger" → "Snapshot" → "Storage Mode".



To use this function, make sure:

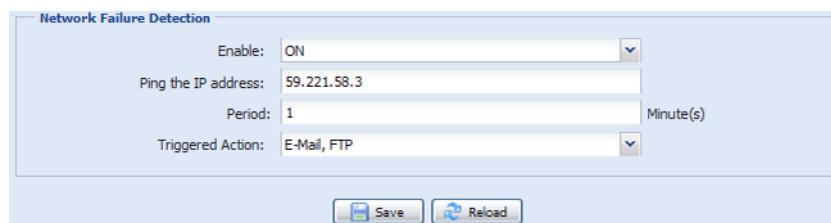
- A PC is installed in the same LAN environment as this camera, and you know the IP address of the PC.
- A PC account is created as “Administrator” with a user name and password.
- A folder in the PC is opened as shared to the user account you assigned.

Note: Please check “APPENDIX 7 PREREQUISITES FOR NETWORK SHARE” at page 39 for more details.

Enable this function, and enter the address of the PC, the folder being shared, and the user name and password to access the PC. If the information is all correct, you'll see a check in the “Status” column, and you're ready to go to “Trigger” → “Snapshot” for further configurations.

3.2.14 Network Failure Detection

Configure this camera to check the network connection of other device periodically, and send notifications via Email or FTP for disconnection events.



Network Failure Detection

Enable: ON

Ping the IP address: 59.221.58.3

Period: 1 Minute(s)

Triggered Action: E-Mail, FTP

Save Reload

3.3 Camera

3.3.1 Camera

In this menu, you can set the camera title, OSD display, and location to save snapshots.

Note: Zoom Ratio Display is available only for selected models.



Camera Configuration

Title: IPCAM

OSD Title Display: OFF

OSD Title Display Position: DOWN-LEFT

Snapshot Path: C:\

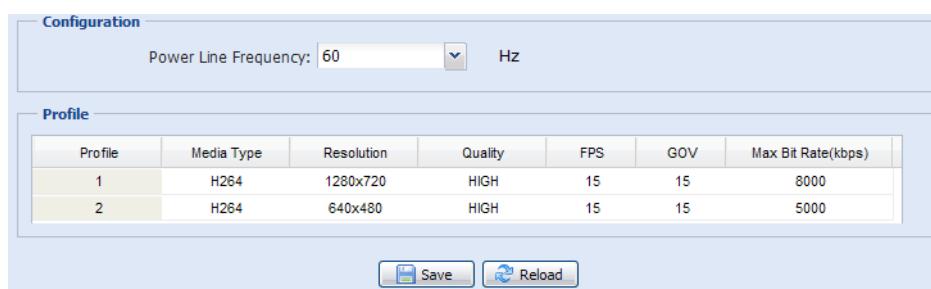
Zoom Ratio Display: ON

Save Reload

3.3.2 Video

You can adjust the power line frequency of your camera (60Hz or 50Hz) to suit your environment if needed, or 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.



Configuration

Power Line Frequency: 60 Hz

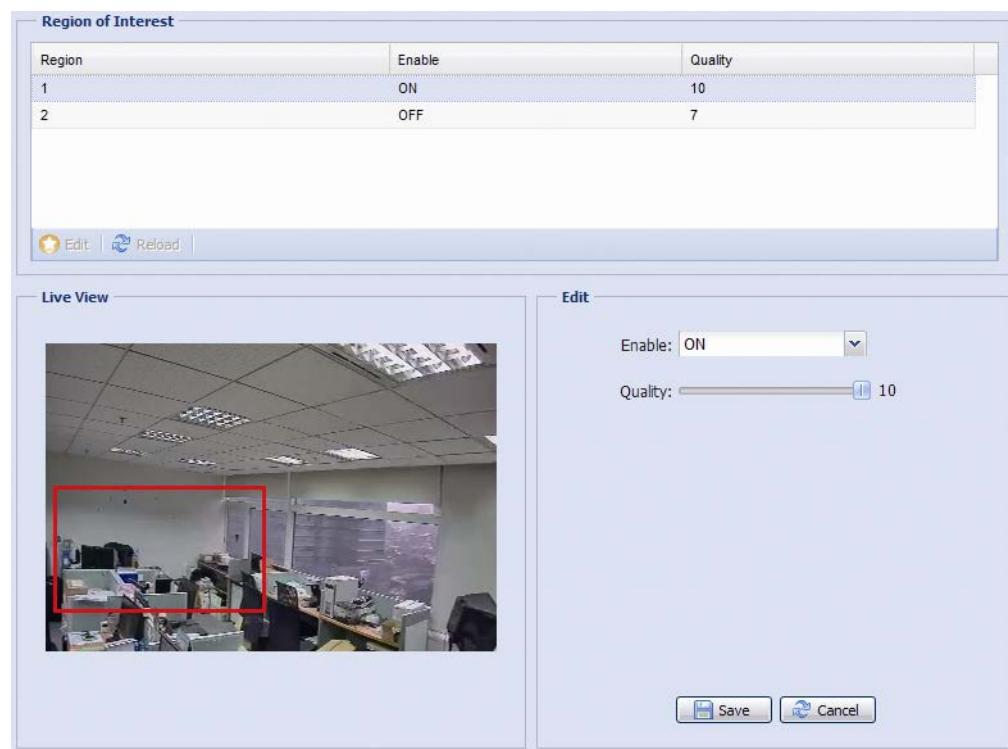
Profile

Profile	Media Type	Resolution	Quality	FPS	GOV	Max Bit Rate(kbps)
1	H264	1280x720	HIGH	15	15	8000
2	H264	640x480	HIGH	15	15	5000

Save Reload

3.3.3 ROI (For selected models only)

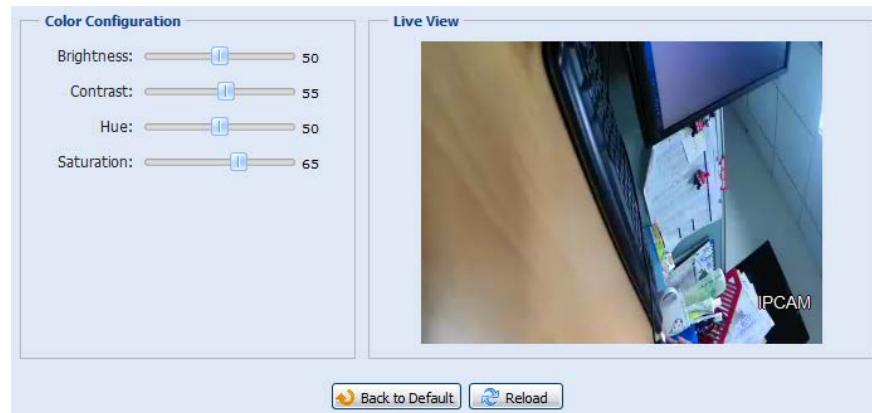
ROI, Region of Interest, is used to reinforce the image quality of the selected area(s). Users could specify two areas in the camera view.



3.3.4 Color

Adjust the color performance from Brightness, Contrast, Saturation, and Hue. 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”.



3.3.5 Audio*

Adjust the volume of the microphone for sound picking, or choose “Mute” to stop sound picking even when  is enabled.

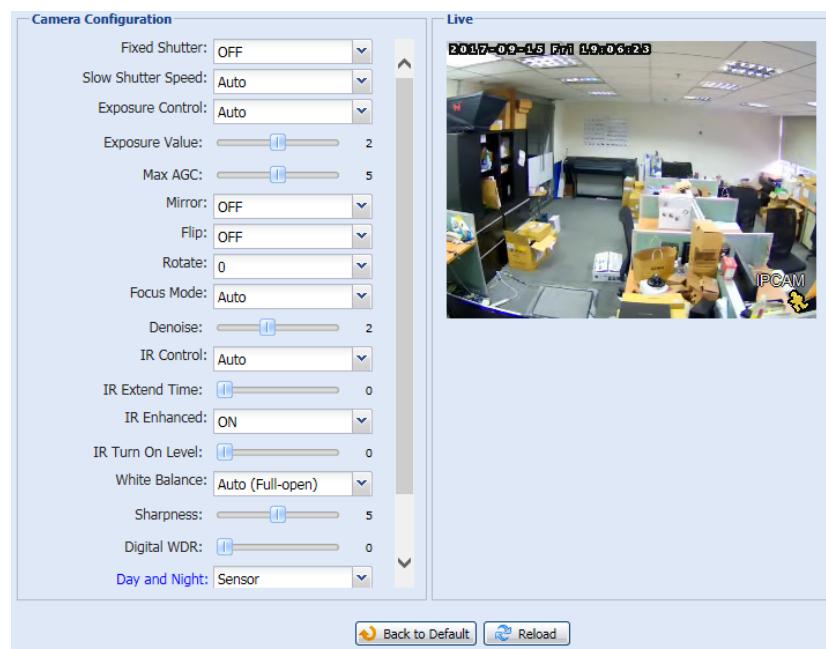
Note: The functions available depend on the model number used.



3.3.6 Advanced

Adjust the camera parameters if necessary.

Note: The functions available depend on the model number used.



Item	Description
Fixed Shutter*	Shutter Speed is a function that can adjust the duration of the electronic shutter to produce optimum image quality. Select the shutter speed suitable for your environment.
Slow Shutter Speed	Select the slow shutter speed suitable for your environment. A slower shutter speed in dark conditions will help to produce a brighter image, but will produce fewer frames per second, which may cause images to get blurry during motion.
Exposure Control	This function is used to synchronize the shutter time to the fluorescent light to suppress image flickering.
Exposure Value*	Drag the slider to adjust the exposure level from 0 ~ 4. The higher the value, the more light to let into the camera.
Max. AGC	Set the level of Auto Gain Control to detect and enhance the image signals when the light condition is poor. The higher the value, the stronger the signals will be enhanced, and the more noise the image will get.
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.
Rotate*	This is used when the area you want to monitor is more vertical than horizontal in shape to truly focus on the area you need to pay attention, such as hallways, staircases and aisles (vertical view mode). Please note that the image will be rotated 90° counter-clockwise when this function is on. To get the right image, please rotate the camera 90° clockwise during installation.
Focus Mode*	Select the default focus mode when you're adjusting the focal length and focus. Choose "Auto" to always automatically adjust the focus first when the focal length is changed; choose "Manual" to allow manually focus adjustment first when the focal length is changed.
Denoise	Click and drag the slider to adjust the level to decrease the noise shown in the dark environment. The higher the value, the higher the denoise level. 0 means off.
IR Control	Select "Auto" to automatically enable IR LEDs at night or in the dark environment, or "OFF" to disable this function.
IR Extend Time*	Set the delay time from 1 ~ 60 in second after which the day and night switch is made, or select 0 to disable this function. This is used for the environment where the light condition may change suddenly and usually last for a short time, for example, the entrance of a parking lot. It may cause the day & night mode switching constantly and damage the camera. With this function, the camera will delay the mode switch at night since the light change is temporary and unnecessary to pay attention.
IR Enhanced	Select "ON" to enhance IR LEDs performance.
IR Turn On Level*	Select the level for IR light to activate. 0 means off.
White Balance	Process the current image to retain color balance over a color temperature range. Choose the options which best suits your surveillance area (Incandescent Light / Cool Light / Sun Light / Cloudy / Sun Shade), or simply choose "Auto" to detect the environment automatically.
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. The higher the value, the sharper the image.
Digital WDR	Digital WDR is used to simulate the effect of WDR when users need to increase image recognizability in overexposure and dark areas. 0 means off.
Day and Night	This function is used to configure the day and night mode: <ul style="list-style-type: none"> Day - Always stay in the day mode (color). Night - Always stay in the night mode (B/W). Time – Select this option, and click "Day and Night" in blue to enable and set a schedule to enable day and night mode. The selected time (yellow) will be in the day mode, and the unselected time will be in the night mode. Sensor – Use the built-in light sensor for day and night detection.

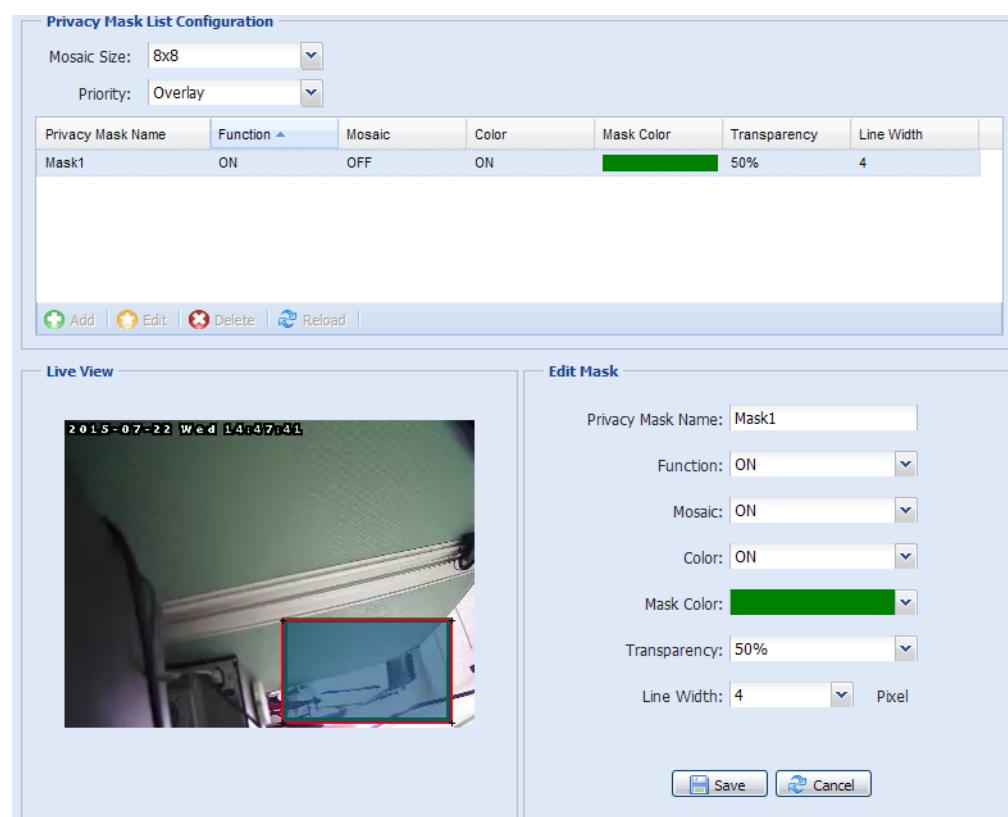
*Selected models only

Item	Description
Defog*	Select "ON" or "Auto" to enable the defog function in poor weather conditions such as fog, smog or smoke. The captured image can be improved.
Angle of view*	This function is used to slightly calibrate the viewing angle when the focal length and focus adjustment is completed. Select "Down" if your camera lens is facing down; select "Up" if your camera lens is facing up.

*Selected models only

3.3.7 Privacy Mask (For selected models only)

You can cover certain areas on the camera image with privacy masks.

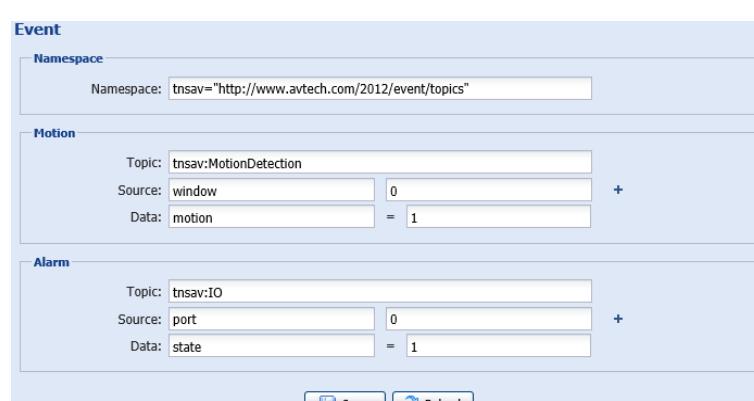


Item	Description
Mosaic Size	Choose the mosaic size of the privacy mask when "Mosaic" is set to "ON". The options are: 8x8, 32x32, and 64x64.
Privacy Mask Name	Name your privacy mask.
Function	Select "On" to enable the privacy mask function.
Mosaic	Select "ON" to have the mosaic effect.
Color	Select "ON" to color the privacy mask.
Mask Color	Select the color for the privacy mask.
Transparency	Select the transparency for your privacy mask. The options are: 0%, 25%, 50%, and 100%.
Line Width	Choose the line width from 0, 2, 4 and 6 when the transparency is not set to 0%.

3.4 ONVIF

3.4.1 Event

This function is used to integrate the functions of event detection when this camera has to work with other ONVIF-compliant device.



3.5 Record (For selected models only)

3.5.1 Record

- Enable or disable the record function. When “Enable” is set to “No”, the record function is disabled even if you enable it in other configuration pages.
- Select if the data should be overwritten when the memory storage is full.
- Enable or disable the audio record function.

Note: Audio recording is available only for selected models.

- 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.



Record Configuration

Enable: Yes No

Overwrite: Yes No

Audio Record: Yes No

Profile: Profile2 720x480

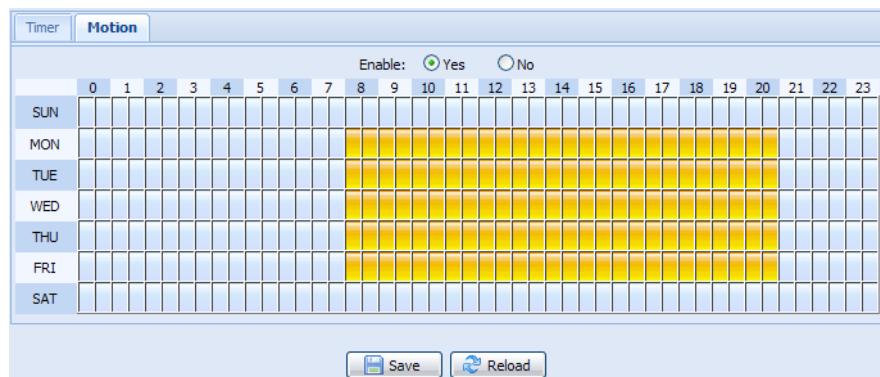
Save Reload

3.5.2 Record Timer

To schedule manual and motion recording, enable it, and select the day and time for recording.

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

Note: The selected time will be yellow-colored.



Timer Motion

Enable: Yes No

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SUN																								
MON																								
TUE																								
WED																								
THU																								
FRI																								
SAT																								

Save Reload

3.6 Storage (For selected models only)

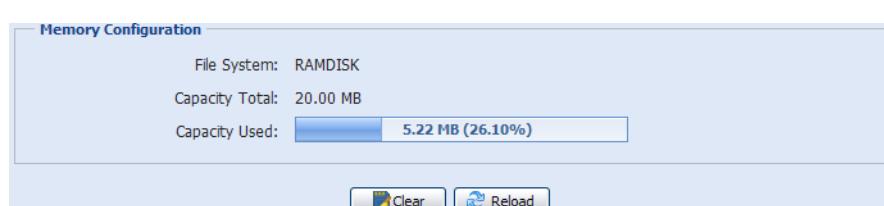
3.6.1 Memory

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 when you reset or reboot this camera.

Note: To save more recorded data, it's recommended to use this camera with the compatible NVR.

Note: To know the total recording time per recording resolution, please refer to “APPENDIX 6 RECORDING TIME TABLE” at page 38.



Memory Configuration

File System: RAMDISK

Capacity Total: 20.00 MB

Capacity Used: 5.22 MB (26.10%)

Clear Reload

3.7 Trigger

3.7.1 Trigger

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

Detect

Motion: ON
PIR: ON
Duration: 10 Sec.

Action

E-Mail: Motion PIR
FTP: Motion PIR
SMS: Motion PIR
Record: Motion PIR

Save Reload

◆ Detect

Item	Description
Motion	<p>Enable or disable 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>Sensitivity: Set the detection sensitivity from the drop-down list: High, Normal or Low.</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*	Enable (ON) or disable (OFF) PIR detection.
Duration	Set the duration time for trigger recording (5 / 10 / 20 / 40 seconds).

* For selected models only

◆ 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" (in blue) to choose the media type configured in "Camera" → "Video", file format (AVC / AVI), record internal (1~5 seconds), record time (1 ~ 5 seconds) and pre-alarm recording time (1 ~ 5 seconds) for the event video clip. 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. Then, click the title "FTP" (in blue) to choose the media type configured in "Camera" → "Video", file format (AVC / AVI), record internal (1~5 seconds), record time (1 ~ 5 seconds) and pre-alarm recording time (1 ~ 5 seconds) for the event video clip. The camera will upload the captured video clip to the FTP site you assigned in "Network" → "FTP" once the selected event type occurs.</p>
SMS	<p>Select the event type you want to receive a text message when it occurs. The camera will send a text message to the mobile phone number you assigned in "Network" → "SMS" once the selected event type occurs.</p>
Record*	Select the event type you want to record when it occurs.

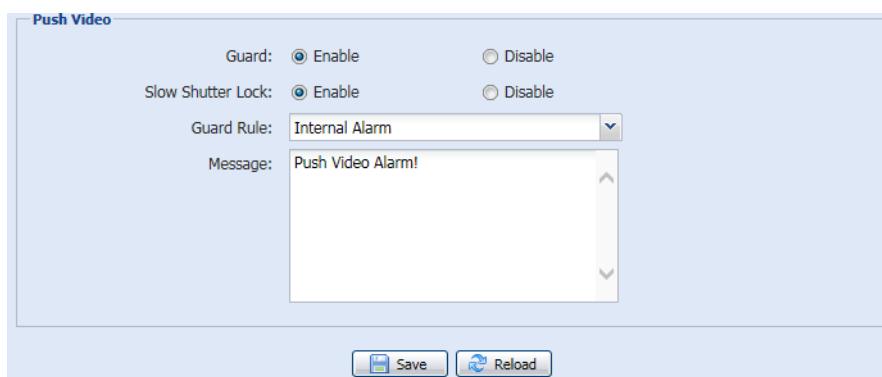
* For selected models only

3.7.2 Push Video (For selected models only)

“Push Video” is an active notification system integrated with smart phones. Users are able to receive alarm notifications within 5 seconds after event occurrence, check what happened with video playback, and take actions immediately.

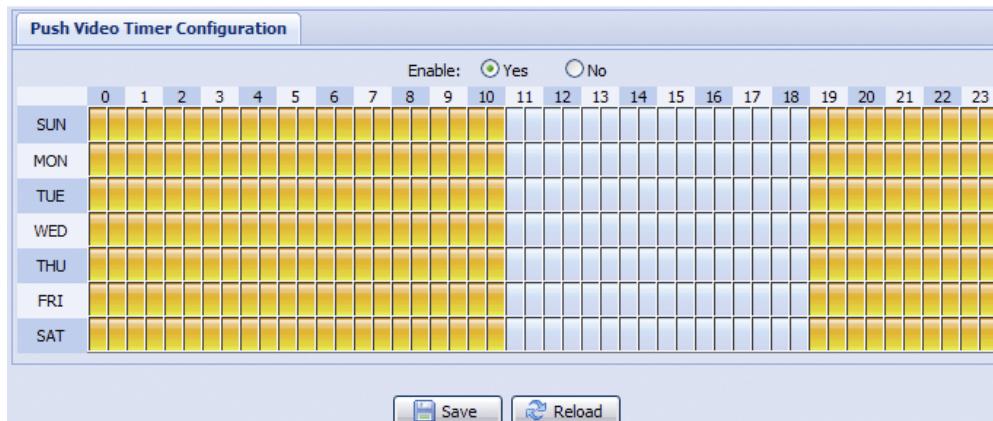
Note: For Push Video to work properly, make sure the record function is on in “Record” → “Record”, and the record timer for the internal alarm is on in “Record” → “Record Timer”.

Note: When the camera is configured, go to your smart phone and enable “Push Video”. For details, please refer to “APPENDIX 8 ENABLE PUSH VIDEO” at page 42.



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 “Internal Alarm”.
Message	Define the context when you receive the Push Video message on your iPhone or Android mobile device. Up to 28 characters are allowed.

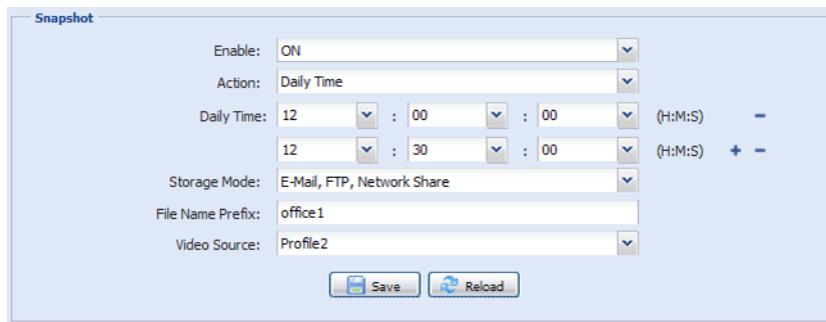
To configure Push video to enable in the specified time, select “Yes” to enable the timer function, and select the time you want to enable.



3.7.3 Snapshot

Enable this function to schedule the camera to take snapshots periodically or at a specific time, and send the snapshots to E-Mail, FTP, and / or Network Share for backup.

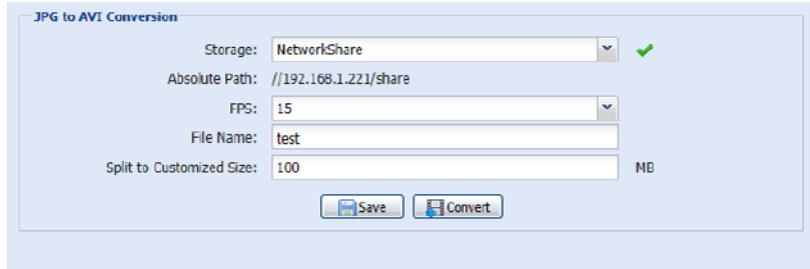
Note: Before using E-Mail, FTP and Network Share, make sure the related configurations are done in "Network" → "Mail", "Network" → "FTP", and "Network" → "Network Share".



Time-lapse Recording

This function allows users to create time-lapse recording by combining snapshots together.

Note: To use this function, make sure "Network Share" is configured well in "Network" → "Network Share". For details, please go to "3.2.13 Network Share" at page 14.



Step1: Configure when to take snapshots in "Snapshot", and choose "Network Share" as the storage mode.

Step2: In "JPG to AVI Conversion", choose how many images you want to see per second in "FPS", name the video file, and specify the file size.

Step3: Click "Convert" to start file conversion, and go to the path specified to store snapshots in "Network Share" to check the video file.

3.8 General

3.8.1 General

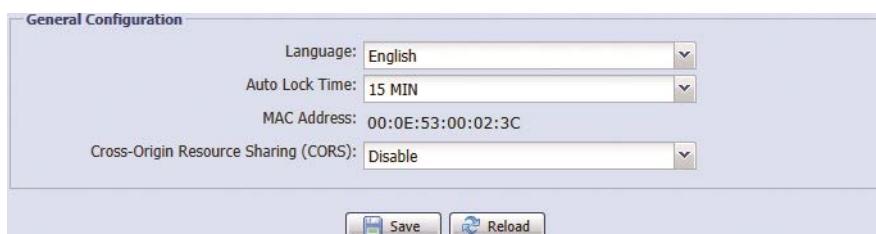
To change the language of UI interface, select from the drop-down list in "Language".

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.

Note: "Auto Lock Time" is available only for selected models.

To allow CORS (Cross-Origin Resource Sharing) for securing the request and transmission of restricted resources from this domain to another domain, select "Enable".



3.8.2 Time

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

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).

3.8.3 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”.

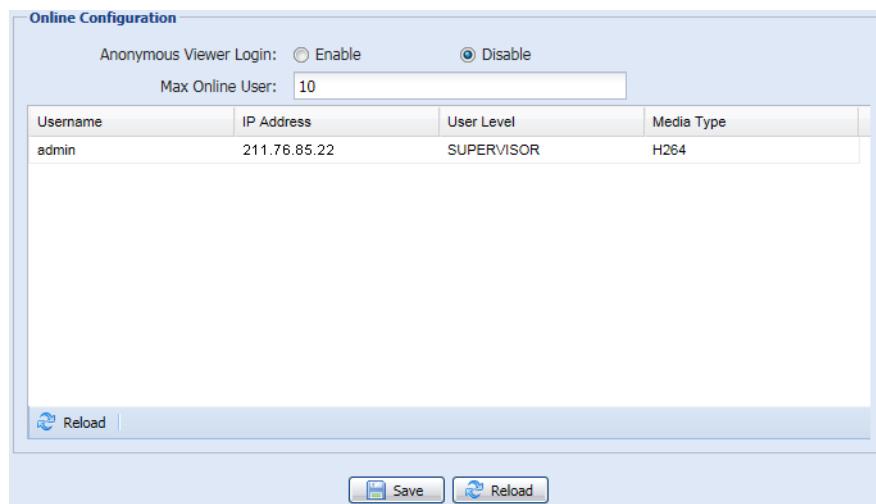
No.	Event	Time	Result
1	Remote Login	2011/08/30 20:54:41	admin
2	Remote Login	2011/08/30 20:29:58	admin
3	Remote Login	2011/08/30 18:22:08	admin
4	SNTP Update	2011/08/30 18:20:06	Failed
5	Remote Login	2011/08/30 18:20:03	admin
6	Power On	2011/08/30 18:19:24	ON
7	Power On	2011/08/30 18:18:46	OFF
8	Remote 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

3.8.4 Online

You can check the current online user(s) with respective online information, and customize how many users can access your device at the same time.

Note: The online users set in “Max Online User” cannot exceed the number this device supports. For details, please check the specifications of your device.

To allow anonymous login, select “Enable” in “Anonymous Viewer Login”.

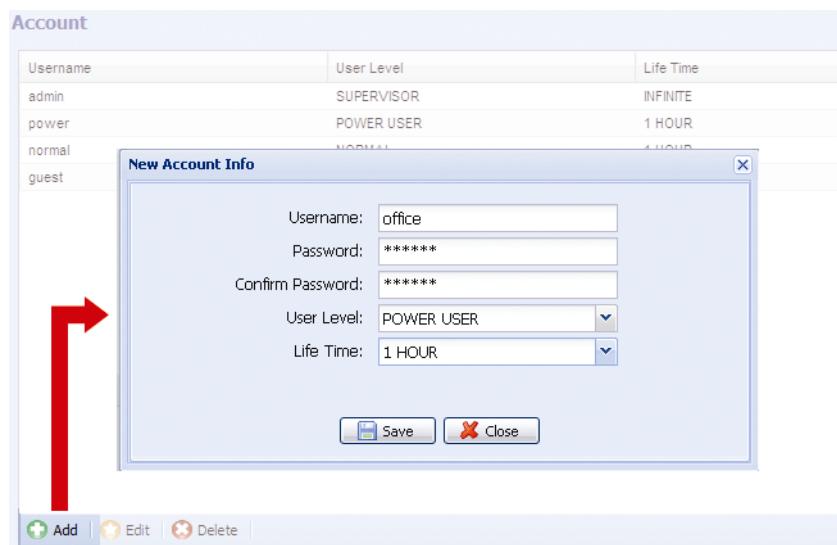


3.8.5 Account

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.

3.8.6 Google Maps

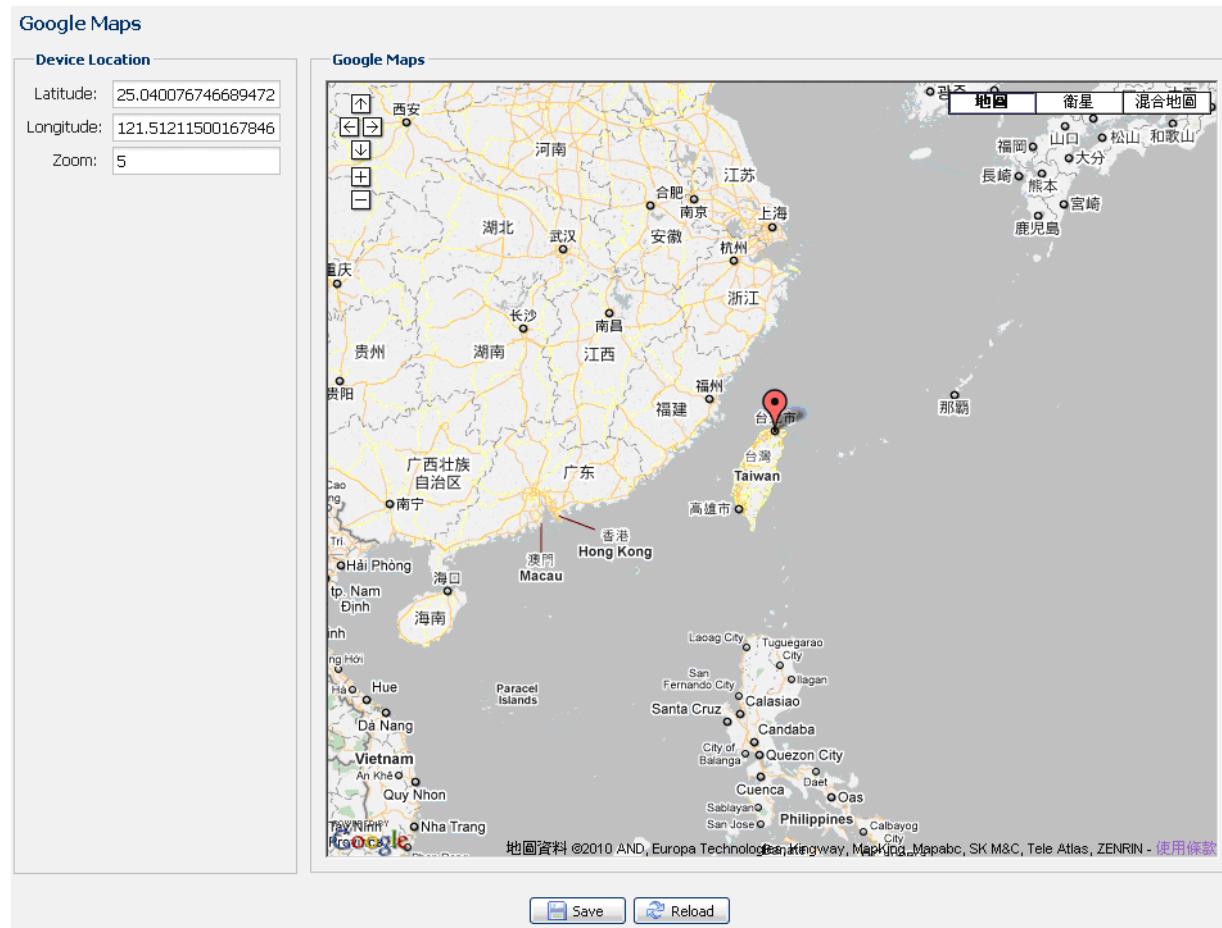
This function is used to let you know where the network camera is.

The system will prompt you to apply a Google Maps Key if your access is denied. Please follow the instructions below when you're denied:

Step1: Click “Sign up for a Google Maps key” to enter the application page.

Step2: Check the terms and conditions, and enter the IP address of the network camera. Then, click “Generate API Key”.

Step3: Copy the generated API key, and click “Update Google Maps Key” on the web browser to paste it.



3.8.7 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 “

Step2: Select “Upgrade” to start system upgrading.

Note: You'll be prompted to keep current configurations. It's recommended to keep them, or all configurations will be restored to default values after upgrade.

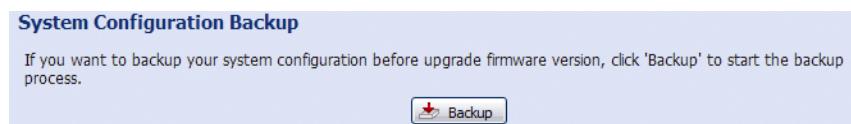
Note: It takes a few minutes to finish the upgrade process. Do not disconnect the power during firmware upgrade, or the upgrade may be failed. The camera will reboot after the upgrade.

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.



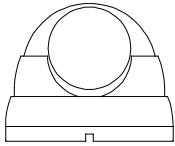
APPENDIX 1 PRODUCT SPECIFICATIONS



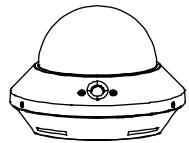
	Model 1	Model 2
■ Network		
LAN Port	YES	
LAN Speed	10/100 Based-T Ethernet	
Supported Protocols	DDNS, PPPoE, DHCP, NTP, SNTP, TCP/IP, ICMP, SMTP, FTP, HTTP, RTP, RTSP, RTCP, IPv4, Bonjour, UPnP, DNS, UDP, IGMP, QoS, SNMP	
ONVIF Compatible	YES (Profile S)	
Number of Online Users	10	
Security	(1) Multiple user access levels with password (2) IP address filtering (3) Digest authentication	
Remote Access	(1) Internet Explorer on Windows operating system (2) 32CH CMS Lite on Windows operating system (3) EagleEyes on iOS & Android mobile devices	
■ Video		
Network Compression	H.264 (Main Profile) / MJPEG	H.265 / H.264 / MJPEG
Video Resolution	1920 x 1080 / 1280 x 720 / 720 x 480 / 352 x 240	1920 x 1080 / 1280 x 720 / 704 x 480 / 352 x 240
Frame Rate	30fps	
Multiple Video Streaming	2 (H.264, MJPEG)	4 (H.265 / H.264 / MJPEG)
■ General		
Image Sensor	1/2.7" CMOS image sensor	1/2.9" SONY CMOS image sensor
Min Illumination	0.1 Lux / F1.6 (Wide) ~ F2.8 (Tele), 0 Lux (IR LED ON)	
Shutter Speed	1/2 to 1/10,000 sec	
S/N Ratio	More than 48dB (AGC off)	
Lens	motorized f2.8 ~ f8.0mm / F1.6 ~ F2.8	
Viewing Angle	Wide: 104° (Horizontal) / 56° (Vertical) / 126° (Diagonal) Tele: 57° (Horizontal) / 32° (Vertical) / 65° (Diagonal)	
IR LED	4 Units	
IR Effective Range	Up to 50 meters	
IR Shift	YES	
Smart Light Control	NO	YES
White Balance	ATW	
AGC	Auto	
IRIS Mode	AES	
Sharpness	YES	
DWDR	YES	
POE (Power-over-Ethernet)	YES (IEEE 802.3af)	
Privacy Mask	NO	
Vertical View Mode	NO	YES
IP Rating	IP66	
Operating Temperature	-25°C ~ 50°C	
Operating Humidity	90% or less relative humidity	
Power Source (±10%)	12V / 1A	
Current consumption (±10%)	250mA (IR OFF) / 700mA (IR ON)	160mA (IR OFF) / 480mA (IR ON)
Power Consumption (±10%)	PoE & PoN: 10W; DC adapter: 8.4W	PoE & PoN: 7W; DC adapter: 5.8W
Net Weight (kg)	0.75	
■ Others		
EaZy Networking	NO	YES
Mobile Surveillance	iOS & Android mobile devices	
Event Notification	FTP / Email / SMS	
Digital Pan / Tilt / Zoom	YES	
Motion Detection	YES	
RTC (real-time clock)	YES	
Minimum Web Browsing Requirements	<ul style="list-style-type: none"> • Intel core i3 or higher, or equivalent AMD • 2GB RAM • AGP graphics card, Direct Draw, 32MB RAM • Windows 10, Windows 8, Windows 7, Windows Vista & Windows XP, DirectX 9.0 or later • Internet Explorer 7.x or later (Windows Edge not supported) 	



	Model 3	Model 4		
■ Network				
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, RTCP, IPv4, Bonjour, UPnP, DNS, UDP, IGMP, QoS, SNMP			
ONVIF Compatible	YES (Profile S)			
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) 32CH CMS Lite on Windows operating system (3) EagleEyes on iOS & Android mobile devices			
■ Video				
Network Compression	H.264 (Main Profile) / MJPEG	H.265 / H.264 / MJPEG		
Video Resolution	1920 x 1080 / 1280 x 720 / 720 x 480 / 352 x 240	1920 x 1080 / 1280 x 720 / 704 x 480 / 352 x 240		
Frame Rate	30fps			
Multiple Video Streaming	2 (H.264, MJPEG)	4 (H.265 / H.264 / MJPEG)		
■ General				
Image Sensor	1/2.7" CMOS image sensor	1/2.9" SONY CMOS image sensor		
Min Illumination	0.1 Lux / F1.8, 0 Lux (IR LED ON)			
Shutter Speed	1/2 to 1/10,000 sec			
S/N Ratio	More than 48dB (AGC off)			
Lens	f3.8mm / F1.5	f3.6mm / F1.8	f3.6mm / F1.8	f2.8mm / F2.0
Viewing Angle	f3.8mm: 77° (Horizontal) / 45° (Vertical) / 88° (Diagonal) f3.6mm: 96° (Horizontal) / 50° (Vertical) / 116° (Diagonal)	f3.6mm: 89° (Horizontal) / 46° (Vertical) / 108° (Diagonal) f2.8mm: 100° (Horizontal) / 52° (Vertical) / 121° (Diagonal)		
IR LED	2 Units			
IR Effective Range	Up to 25 meters			
IR Shift	YES			
Smart Light Control	NO	YES		
White Balance	ATW			
AGC	Auto			
IRIS Mode	AES			
Sharpness	YES			
DWDR	YES			
POE (Power-over-Ethernet)	YES (IEEE 802.3af)			
Privacy Mask	NO	YES		
Vertical View Mode	NO	YES		
IP Rating	IP66			
Operating Temperature	-40°C ~ 50°C			
Operating Humidity	90% or less relative humidity			
Power Source (±10%)	12V / 1A	12V / 500mA		
Current consumption (±10%)	150mA (IR OFF) / 400mA (IR ON)	120mA (IR LED OFF) / 280mA (IR LED ON)		
Power Consumption (±10%)	PoE & PoN: 6W; DC adapter: 4.8W	PoE & PoN: 4.2W; DC adapter: 3.5W		
Net Weight (kg)	0.39			
■ Others				
EaZy Networking	NO	YES		
Mobile Surveillance	iOS & Android mobile devices			
Event Notification	FTP / Email / SMS			
Digital Pan / Tilt / Zoom	YES			
Motion Detection	YES			
RTC (real-time clock)	YES			
Minimum Web Browsing Requirements	<ul style="list-style-type: none">Intel core i3 or higher, or equivalent AMD2GB RAMAGP graphics card, Direct Draw, 32MB RAMWindows 10, Windows 8, Windows 7, Windows Vista & Windows XP, DirectX 9.0 or laterInternet Explorer 7.x or later (Windows Edge not supported)			



Model 5	
■ Network	
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, RTCP, IPv4, Bonjour, UPnP, DNS, UDP, IGMP, QoS, SNMP
ONVIF Compatible	YES (Profile S)
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) 32CH CMS Lite on Windows operating system (3) EagleEyes on iOS & Android mobile devices
■ Video	
Network Compression	H.264 (Main Profile) / MJPEG
Video Resolution	1920 x 1080 / 1280 x 720 / 720 x 480 / 352 x 240
Frame Rate	30fps
Multiple Video Streaming	2 (H.264, MJPEG)
■ General	
Image Sensor	1/2.7" CMOS image sensor
Min Illumination	0.1 Lux / F1.6 (Wide) ~ F2.8 (Tele), 0 Lux (IR LED ON)
Shutter Speed	1/2 to 1/10,000 sec
S/N Ratio	More than 48dB (AGC off)
Lens	motorized f2.8 ~ f8.0mm / F1.6 ~ F2.8
Viewing Angle	Wide: 104° (Horizontal) / 56° (Vertical) / 126° (Diagonal) Tele: 57° (Horizontal) / 32° (Vertical) / 65° (Diagonal)
IR LED	4 Units
IR Effective Range	Up to 50 meters
IR Shift	YES
White Balance	ATW
AGC	Auto
IRIS Mode	AES
Sharpness	YES
DWDR	YES
POE (Power-over-Ethernet)	YES (IEEE 802.3af)
Privacy Mask	NO
Vertical View Mode	NO
IP Rating	IP66
Operating Temperature	-25°C ~ 50°C
Operating Humidity	90% or less relative humidity
Power Source (±10%)	12V / 1A
Current consumption (±10%)	250mA (IR OFF) / 700mA (IR ON)
Power Consumption (±10%)	PoE & PoN: 10W; DC adapter: 8.4W
Net Weight (kg)	0.648
■ Others	
Mobile Surveillance	iOS & Android mobile devices
Event Notification	FTP / Email / SMS
Digital Pan / Tilt / Zoom	YES
Motion Detection	YES
RTC (real-time clock)	YES
Minimum Web Browsing Requirements	<ul style="list-style-type: none"> • Intel core i3 or higher, or equivalent AMD • 2GB RAM • AGP graphics card, Direct Draw, 32MB RAM • Windows 10, Windows 8, Windows 7, Windows Vista & Windows XP, DirectX 9.0 or later • Internet Explorer 7.x or later (Windows Edge not supported)



Model 6	
■ Network	
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, RTCP, IPv4, Bonjour, UPnP, DNS, UDP, IGMP, QoS, SNMP
ONVIF Compatible	YES (Profile S)
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) 32CH CMS Lite on Windows operating system (3) EagleEyes on iOS & Android mobile devices
■ Video	
Network Compression	H.264 (Main Profile) / MJPEG
Video Resolution	1920 x 1080 / 1280 x 720 / 720 x 480 / 352 x 240
Frame Rate	30fps
Multiple Video Streaming	2 (H.264, MJPEG)
■ General	
Image Sensor	1/2.7" CMOS image sensor
Min Illumination	0.1 Lux / F1.5, 0 Lux (IR 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	77° (Horizontal) / 45° (Vertical) / 88° (Diagonal)
IR LED	2 Units
IR Effective Range	Up to 20 meters
PIR Sensor	Detection Range 76° wide angle with up to 5m long distance at 2.5m height (under 30°C)
IR Shift	YES
White Balance	ATW
AGC	Auto
IRIS Mode	AES
Sharpness	YES
DWDR	YES
POE (Power-over-Ethernet)	YES (IEEE 802.3af)
Privacy Mask	NO
Vertical View Mode	NO
Operating Temperature	0°C ~ 40°C
Operating Humidity	90% or less relative humidity
Power Source (±10%)	12V / 1A
Current consumption (±10%)	180mA (IR LED OFF) / 350mA (IR LED ON)
Power Consumption (±10%)	PoE & PoN: 5.5W; DC adapter: 4.2W
Net Weight (kg)	0.39
■ Audio	
Microphone Built-in	YES
■ Others	
Mobile Surveillance	iOS & Android mobile devices
Event Notification	FTP / Email / SMS
Digital Pan / Tilt / Zoom	YES
Motion Detection	YES
RTC (real-time clock)	YES
Minimum Web Browsing Requirements	<ul style="list-style-type: none"> • Intel core i3 or higher, or equivalent AMD • 2GB RAM • AGP graphics card, Direct Draw, 32MB RAM • Windows 10, Windows 8, Windows 7, Windows Vista & Windows XP, DirectX 9.0 or later • Internet Explorer 7.x or later (Windows Edge not supported)

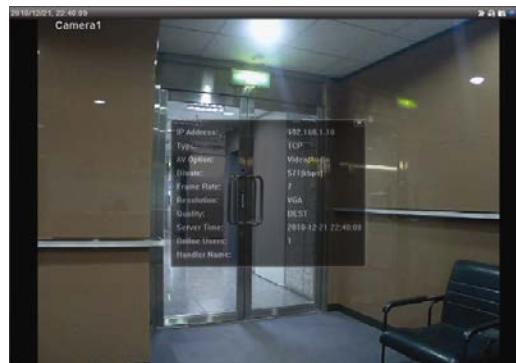
APPENDIX 2 BIT RATE TABLE FOR REFERENCE

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

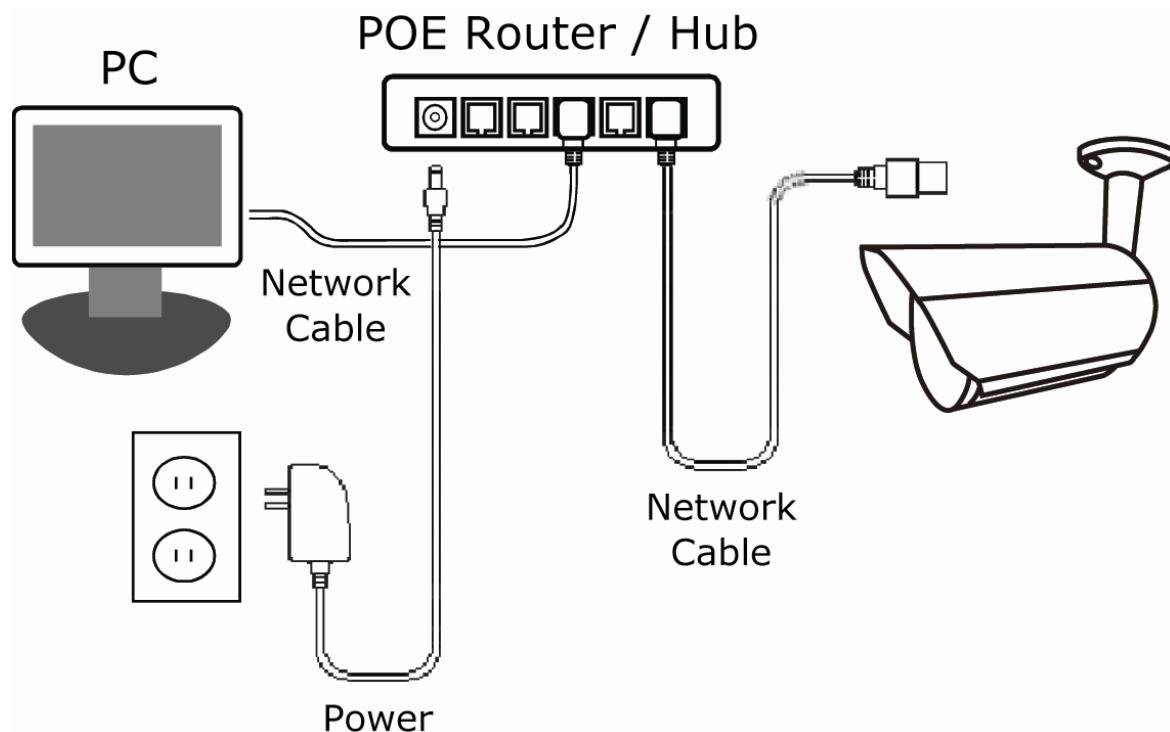
Resolution	Quality	Frame Rate	(Dynamic) kbps	(Static) kbps
SXGA	Best	FULL	3253	3216
	High		2375	2160
	Normal		1571	1266
	Basic		1465	873
VGA	Best		2010	1261
	High		1042	1034
	Normal		685	572
	Basic		457	350
QVGA	Best		646	366
	High		482	350
	Normal		302	286
	Basic		168	161
SXGA	Best	1/4	1163	1076
	High		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	1/15	358	79
	High		201	63
	Normal		180	28
	Basic		92	15
QVGA	Best	1/15	111	84
	High		99	68
	Normal		97	54
	Basic		58	42

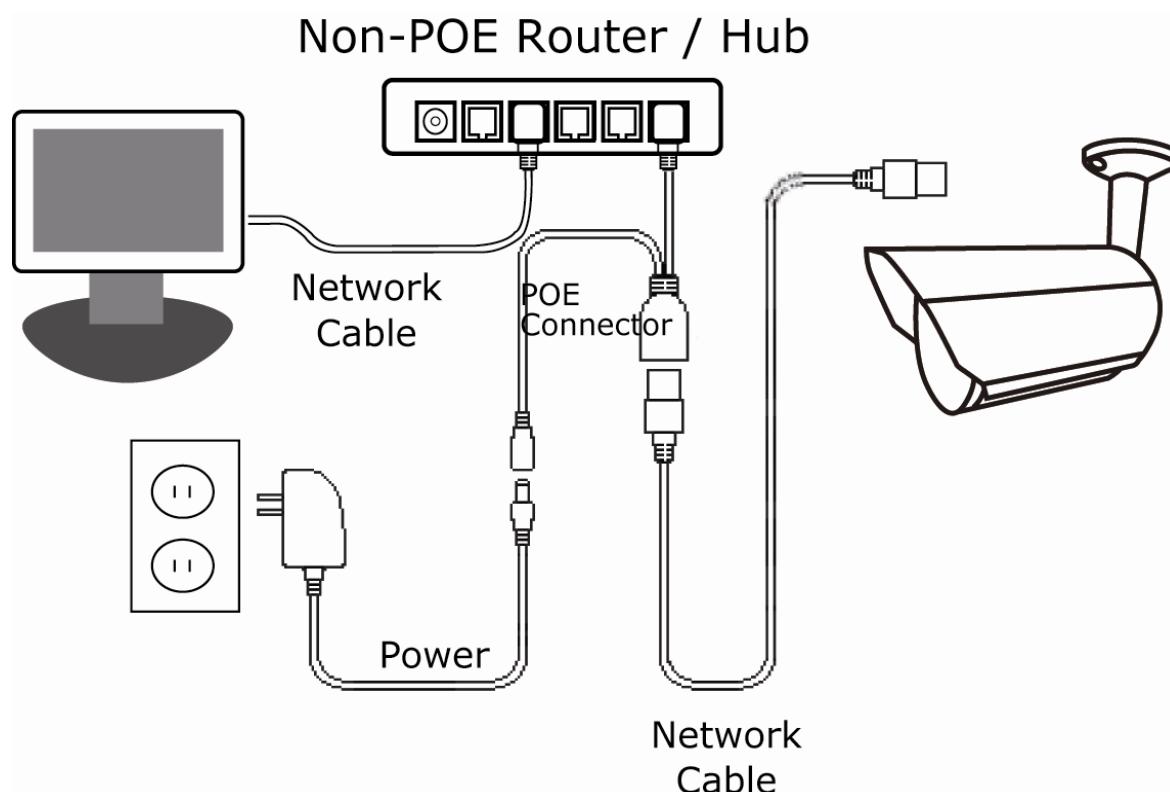
APPENDIX 3 POE CONNECTION

This device supports PoE (Power-over-Ethernet), developed by the IEEE802.3af or IEEE802.3at task force, and power can be supplied over the same network (Ethernet) cable as the one used to connect to Internet. No power cable is needed. Below shows two examples of POE application for reference.

- When your router / hub supports POE connection



- When your router / hub doesn't support POE connection (An optional POE connector required)



APPENDIX 4 API ID APPLICATION FOR SMS MESSAGING

To allow the camera automatically sending a text message when an event happens, you need to apply an API ID from a mobile messaging company first, such as Clickatell or EVERY8D.

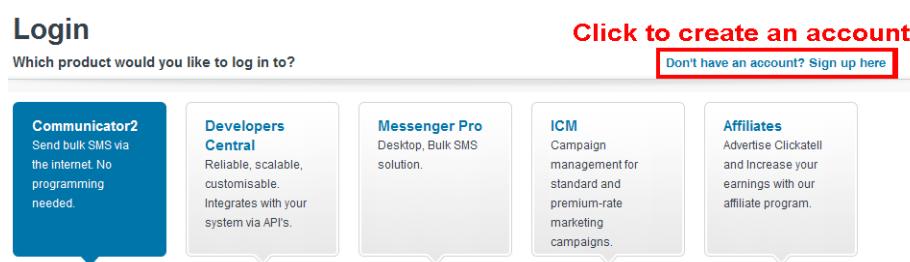
Below shows an example of how to get an API ID from Clickatell.

Note: The SMS messaging may not be totally free. Please check the charge policy of the messaging service you use.

Note: The instructions below are for reference only and may vary when Clickatell's official website is updated.

Please follow the steps below for application.

Step1: Go to <http://www.clickatell.com/login.php>. Sign up an account first.



Step2: Select “Developers Central”, select the location where you want to use this service, and fill in your information to create an account.

Which product would you like to sign up for?

Communicator2
Send bulk SMS via the internet. No programming needed.

Developers Central
Reliable, scalable, customisable. Integrates with your system via APIs.

Messenger Pro
Desktop, Bulk SMS solution.

ICM
Campaign management for standard and premium-rate marketing campaigns.

Affiliates
Advertise Clickatell and increase your earnings with our affiliate program.

← Developers Central

Which product is right for me?
How much will it cost?

Where would you like to send messages to?
Check which one is suitable for you.

Anywhere in the World
International excl US Free signup
I want to send fewer than 10,000 messages per month to the Americas

Special Offers: One Country only
South Africa Free signup
UK Free signup
Ireland Free signup
India Free signup

Why special?

What is your first name? *
test

What is your last name? *
test

Which username would you like to use? *
test

What is your mobile number? *
886 22586666
[Country code]area code or network code (without first 0) and mobile number, no space, brackets or dashes
Example:[1]4155551212(for USA) or [27]123457894(for South Africa)

What is your email address? *
test@tech.com

Privacy Policy

What is your human? *Please enter the words you see in the box, in order and separated by a space.

dynamovant This

Type the two words:
dynamovant This

reCAPTCHA™
stop spam. read books.

Create your account

By clicking this button, you agree to Clickatell's Terms and Conditions >

Step3: When the account is created, the system will automatically send an Email to your specified Email address with the user name, password, and client ID used to log into the service.

Step4: Click the link within the email to log in, and you will be prompted to validate your mobile phone number. Select “SEND ACTIVATION CODE”. The system will send an activation code to that number for verification.

Check if you receive a text message from Clickatell, and enter the activation code.

Verify your Mobile Number
For security reasons you are required to verify your mobile number in order to make your first credit purchase and send non-test SMS messages.

Your activation code will be sent to **SEND ACTIVATION CODE NOW**

If this is not your number, please retype your mobile number in the box above and click the "SEND ACTIVATION CODE NOW"

Enter activation code here **VERIFY NOW**

Enter your activation code once you have received it on your mobile phone:
Coupon Code:

Step4: In your account, find “Connection Status” and create a connection (API ID).

Note: Information on this page may be delayed by up to 1 minute.

Account Status

Credit Balance: Payments Pending: Credit Balance Alert: **Disabled**

Auto Billing: **Disabled** SMS Bundle: **Disabled** SenderID: **OK**

[View Daily Volumes](#)

Message Delivery Status MT

For period 15 April 2013 between 00:00 and 23:59 (GMT+2)

Messages delivered: 0 Messages failed: 0 Total: 0

[Click here](#) to view a detailed report.

Connection Status

There are currently no connections in your account. **Click here to create a connection (API ID)**

Click here

Message Delivery Status MO

For period 15 April 2013 between 00:00 and 23:59 (GMT+2)

MO received: 0

[Click here](#) to view a detailed report.

Step5: Select “HTTP/S”.

Connection Setup
Choose the connection that you would like to add to your account.

HTTP **Click “HTTP/S”** Our most popular connection, HTTP is one of the simpler ways to connect to the Clickatell API. It is used as an HTTP/Internet Post.

SMTP (Email to SMS) Another firm favourite, the SMTP API allows messages that are sent via e-mail to be converted to SMS. Popular with customers who already have an e-mail messaging system in place.

Clickatell HTTP/API icon

Give a meaning name for this connection, and click “Submit and Get API ID”.

Add Connection
HTTP API - Information entered during this step can be modified later.

Description: **Give a name for this connection**
Required field

Replace Leading Zero (Dial Prefix) ?

Enable IP Address Restriction (IP Lock Down) ?

Enable SMS Status Notification (MT Callback) ?

Submit and Get API ID **Click**

Step5: An API ID will be generated as follows.

Note: Note down the API ID for SMS notification setting later.

HTTP API

Your HTTP API connection was created successfully. Your connection is live ready for you to send SMS messages. **API ID used for SMS**

API ID: **Click**

Description:

APPENDIX 5 Q&A

Q1: I can connect to this camera in my house or office where it's installed with wireless network. 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?

A1: You didn't configure this camera to Internet, but only in LAN. Please click [here](#) to download and follow the steps in the advanced network setup guide 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.

Q2: My live images are not fluent. Why?

A2: Image fluency could be 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 "HD1080P" or "SXVGA" based on the model you have; to have normal image fluency and quality, select "VGA".

Q3: The live video keeps flickering. Why?

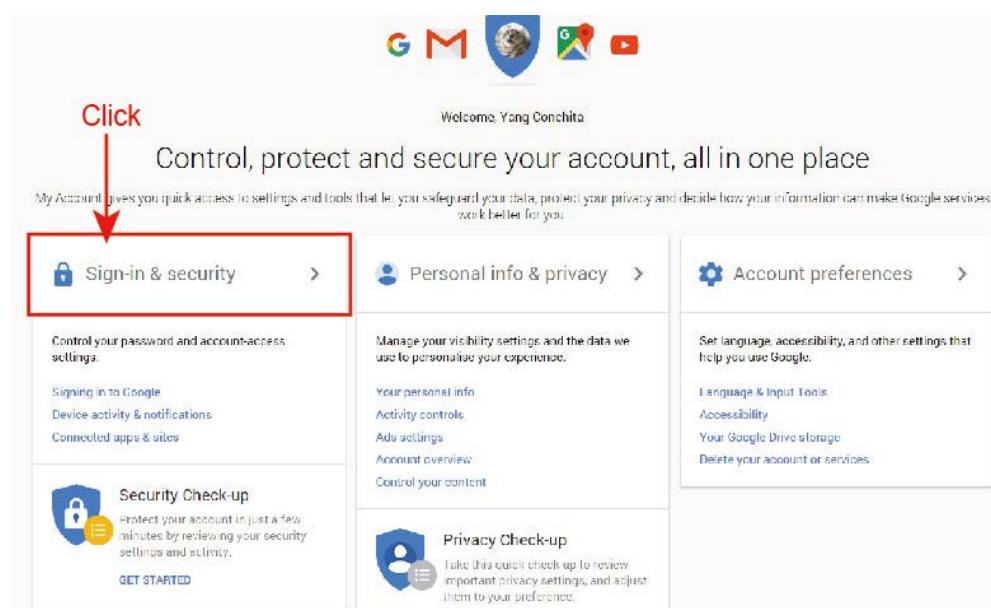
A3: Please try adjusting the power line frequency to "60 Hz" or "50 Hz" for the camera. For iPhone users, access the camera, and select "⚙️" on the top right corner to enter IPCAM Configuration page. Then, go to "Advance Setup" → "Camera" to change setting. For access from Internet Explorer, log into the camera, and select "Config." → "Camera" → "Video".

Q4: I am sure the gmail information is right, but I still can't receive the email, why?

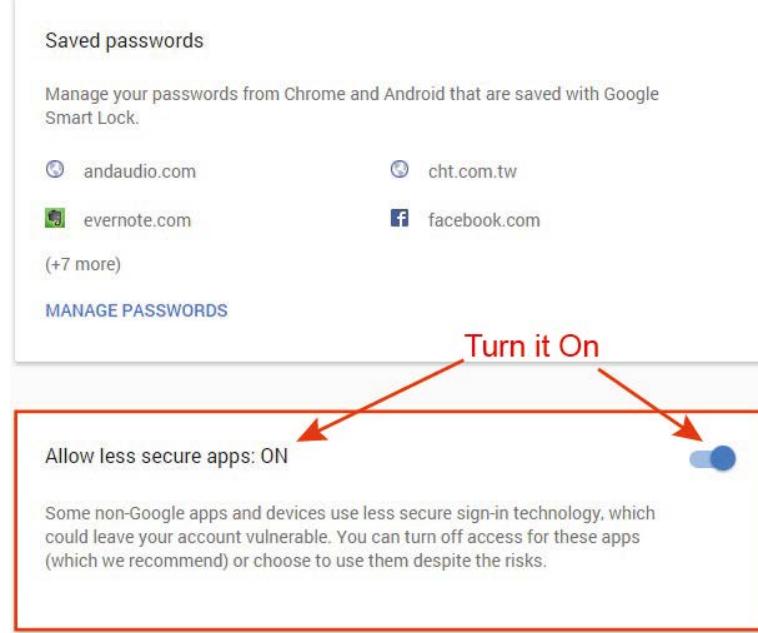
A4: Please change a few settings in your Gmail account. Step1: Log in and click your email address on the upper right corner. Click "My account."



Step2: Click “Sign-in & Security.”



Step3: Roll down to the bottom of the page and check the “Allow less secure apps.”



APPENDIX 6 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

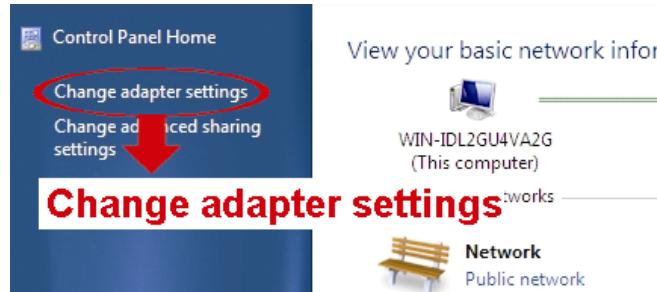
APPENDIX 7 PREREQUISITES FOR NETWORK SHARE

“Push Video” is an active notification system, different from traditional FTP & Email notification methods. It’s more active and stable, but also easier to be affected by your network bandwidth.

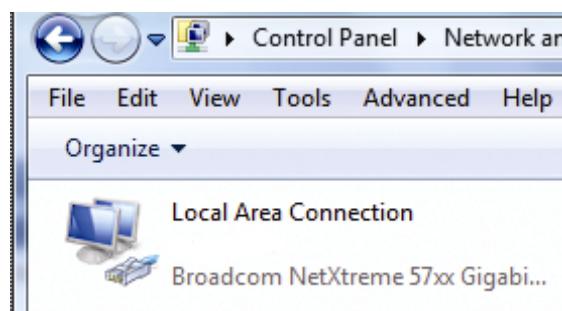
A7.1 Check PC IP Address

Note: The instructions below are taking Windows 7 and 8 for an example.

Step1: Go to “Network and Sharing Center”, and select “Change adapter settings”.



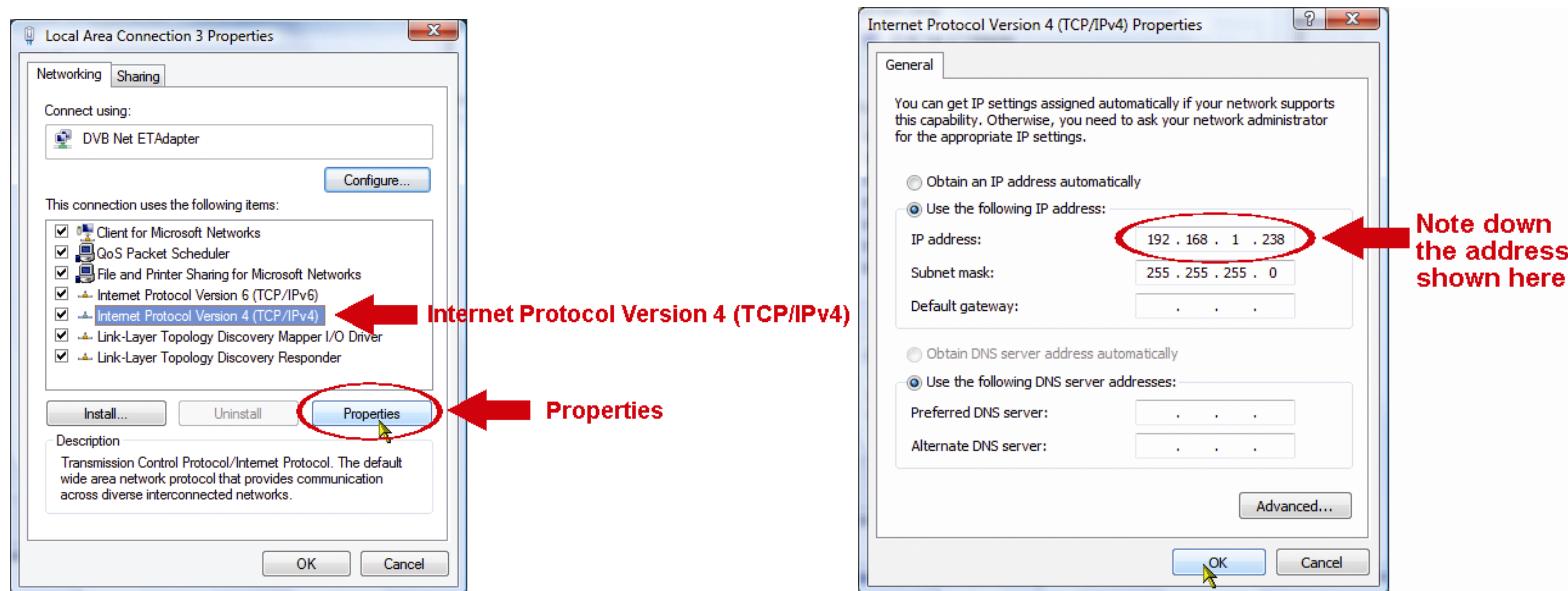
Step2: Right-click on “Local Area Connection”, and select “Properties”.



Note: If your local area connection is not enabled, please also enable it.

Step3: In the “Networking” tab, select “Internet Protocol Version 4 (TCP/IPv4)”, and select “Properties”.

Step4: In the “General” tab, note down the IP address in “Use the following IP address”.



A7.2 Create "Administrator" Account

It's recommended to create a new administrator account on the PC for “Network Share” to use, or user could use the existing administrator account.

Note: The instructions below are taking Windows 7 and 8 for an example.

Step1: Go to “User Accounts” → “Manage Accounts”, and select “Create a new account”.

Choose the account you would like to change



[Create a new account](#) **Create a new account**

[What is a user account?](#)

Additional things you can do

[Set up Parental Controls](#)

[Go to the main User Accounts page](#)

Step2: Set a user name, and choose “Administrator” for this account. Then, click “Create Account”.

Name the account and choose an account type

This name will appear on the Welcome screen and on the Start menu.

Office

Standard user

Standard account users can use most software and change system settings that do not affect other users or the security of the computer.

Administrator

Administrators have complete access to the computer and can make any desired changes. Based on notification settings, administrators may be asked to provide their password or confirmation before making changes that affect other users.

We recommend that you protect every account with a strong password.

[Why is a standard account recommended?](#)

[Create Account](#) [Cancel](#)

Step3: Set the password, and click “Create Account”.

Create a password for Office's account



Office
Administrator

You are creating a password for Office.

If you do this, Office will lose all EFS-encrypted files, personal certificates and stored passwords for Web sites or network resources.

To avoid losing data in the future, ask Office to make a password reset floppy disk.

If the password contains capital letters, they must be typed the same way every time.

[How to create a strong password](#)

The password hint will be visible to everyone who uses this computer.

[What is a password hint?](#)

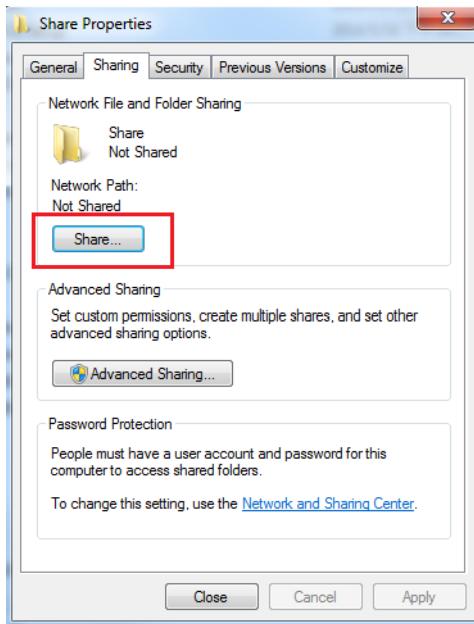
[Create password](#) [Cancel](#)

A7.3 Share Folder

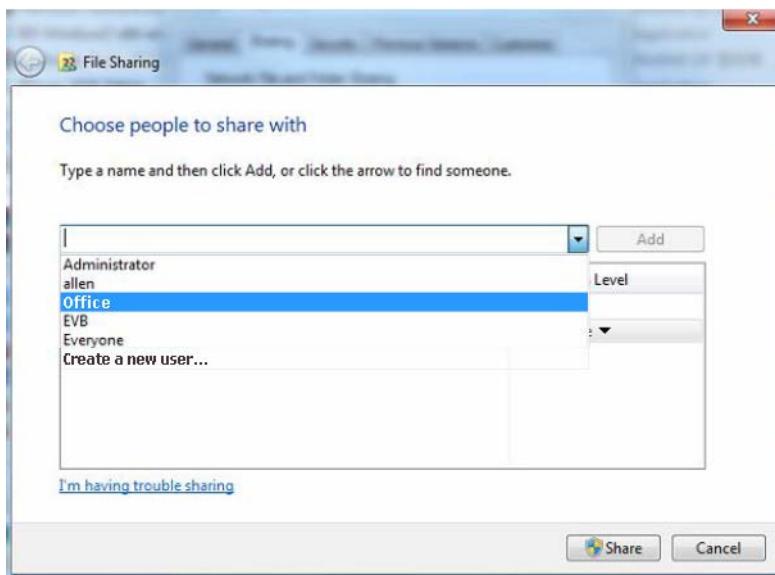
Note: The instructions below are taking Windows 7 and 8 for an example.

Step1: Right-click the folder you want to use to save snapshots for “Network Share”, and choose “Properties”.

Step2: In “Share Properties”, select the tab of “Sharing”, and choose “Share...”.



Step3: Choose the account you want to share with, and click “Share” to save.



APPENDIX 8 ENABLE PUSH VIDEO

A8.1 What's Push Video

“Push Video” is an active notification system, different from traditional FTP & Email notification methods. It's more active and stable, but also easier to be affected by your network bandwidth.

When “Push Video” is enabled and any alarm event occurs, you'll be able to receive notifications on your iPhone / iPad / Android mobile device within 5 seconds.

A8.2 Prerequisites

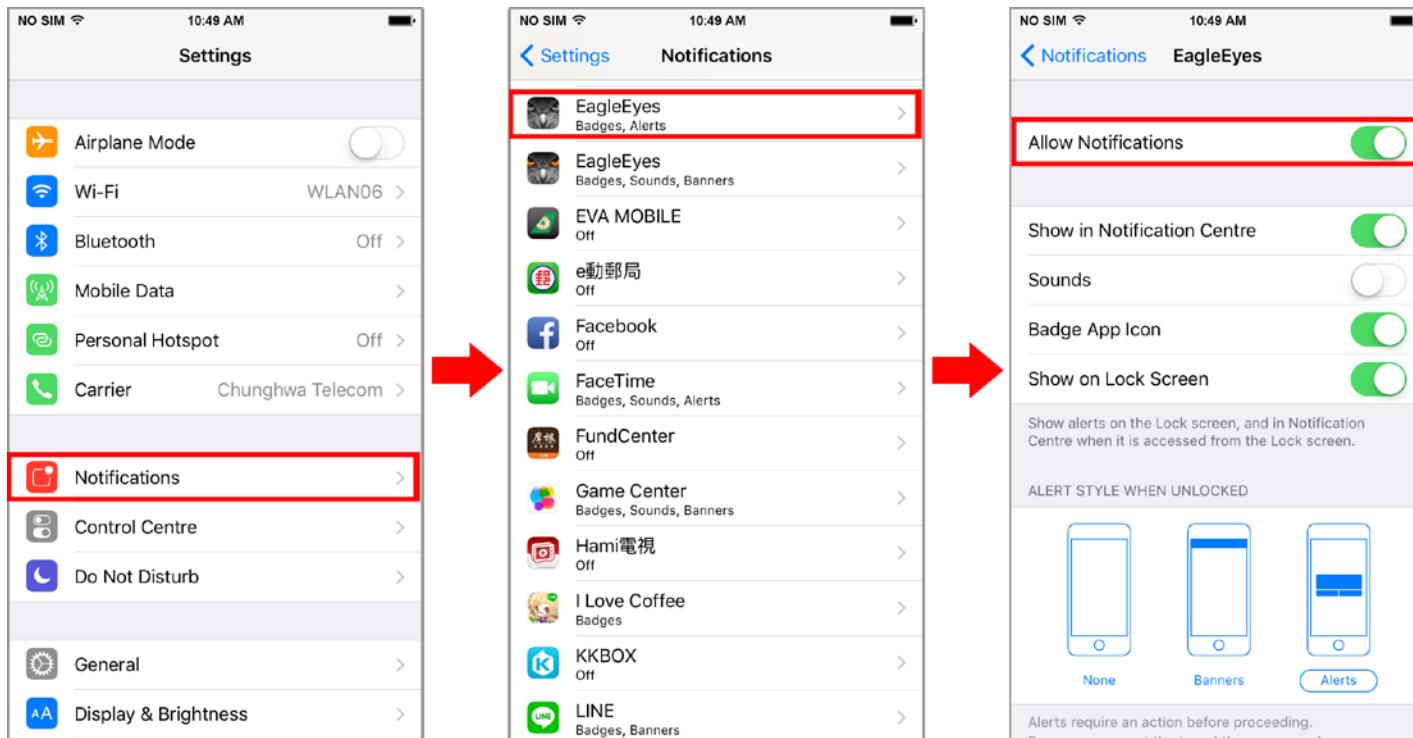
Before configure Push Video, make sure you have checked the following:

- ✓ You have an iOS or Android mobile device with our self-developed APP, “EagleEyes”, installed.
- ✓ You have configured the IP address of your camera in the EagleEyes address book, and it's accessible from your iOS or Android mobile device.
- ✓ The “PIR” option is enabled in “Trigger” → “Trigger”.

A8.3 Enable Push Video

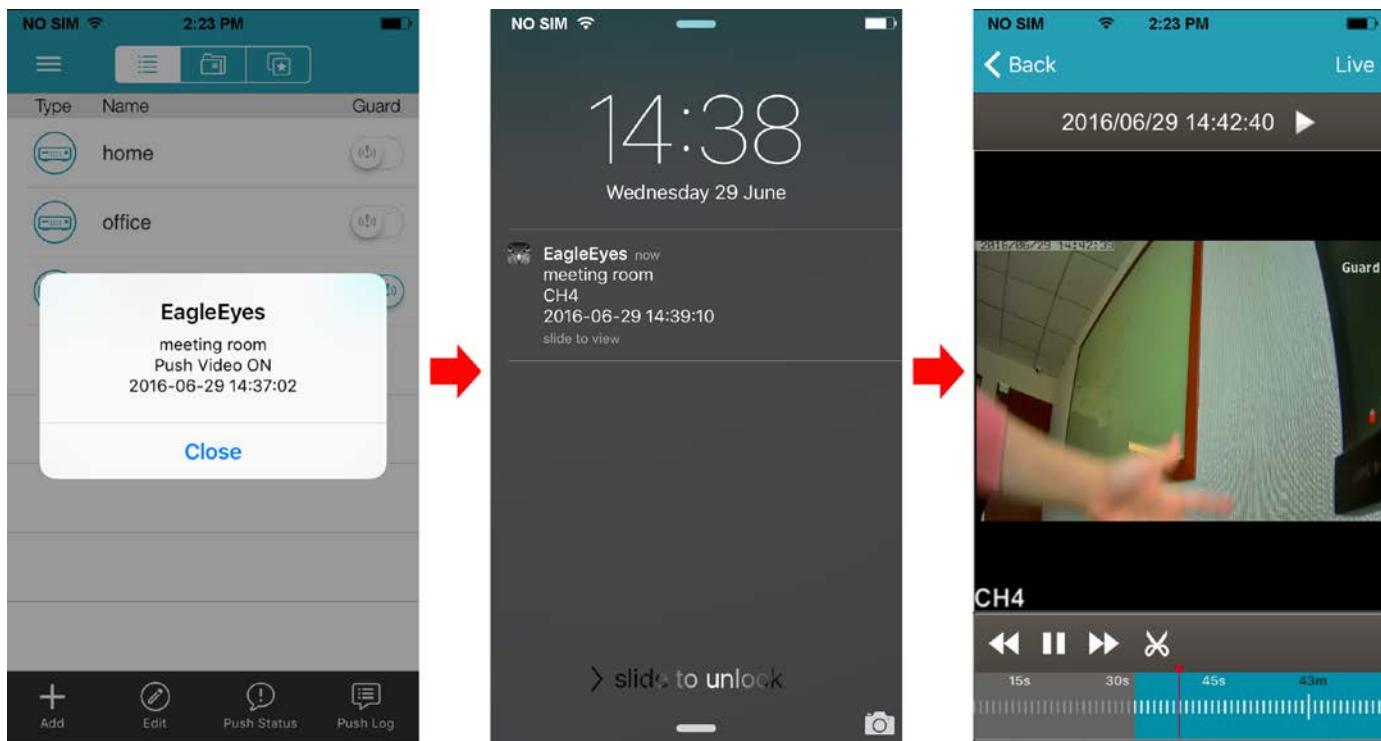
A8.3.1 From iOS devices

Step1: In the iPhone / iPad main menu, select **Settings** → **Notifications**. Select **EagleEyes**, and make sure the notification is set to on.



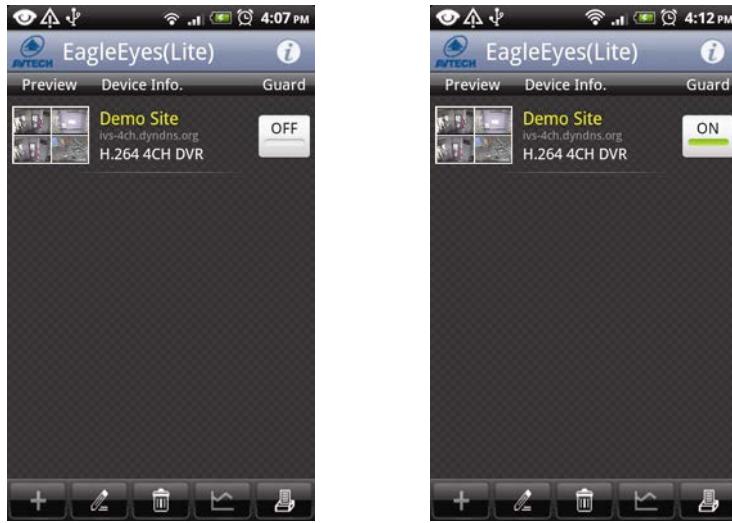
Step2: Open **EagleEyes**, and switch **Guard** to **ON**. You'll receive the message indicating that Push Video is on.

Step3: Return to the main page or standby page of iPhone / iPad. You'll receive event notifications when there's an alarm event. Follow the on-screen instruction to immediately play the recorded clip.



A8.3.2 From Android Mobile Device

In the address book, switch “Guard” from “OFF” to “ON”.



APPENDIX 9 EAZY NETWORKING

Note: This function is for selected models only.

EaZy Networking is a free P2P cloud service to connect AVTECH devices to the Internet automatically by plug-and-play, enabling you to check the live view via your mobile device or laptop at anytime.

In most cases, the device is connected via P2P. Connection via the relay server is only applied to some complex environments such as the private IP-based network environment used by a large enterprise. There is no speed limitation of P2P connection. For connection via the relay server, the speed is up to 10FPS@512kbps. To obtain stable transmission, it's recommended to purchase our data plan of 1GB or 7GB. Each device will enclose a 2GB data plan for a free trial.

EaZy Networking could be configured via EagleEyes on an iOS / android device, or via Internet Explorer.

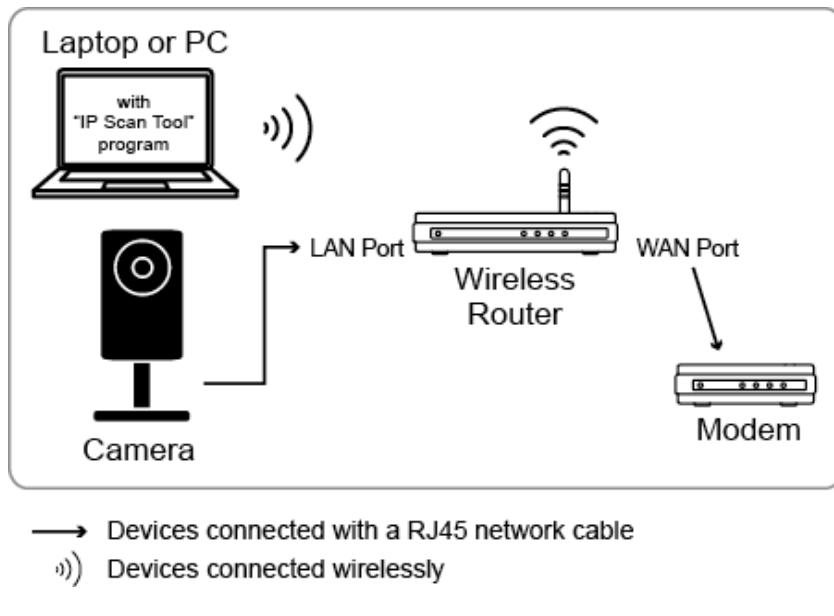
Before using this function, make sure:

- This DVR is connected to a switch or router, and the switch or router is ready for Internet connection.
- You have an iOS / Android mobile device with EagleEyes installed.

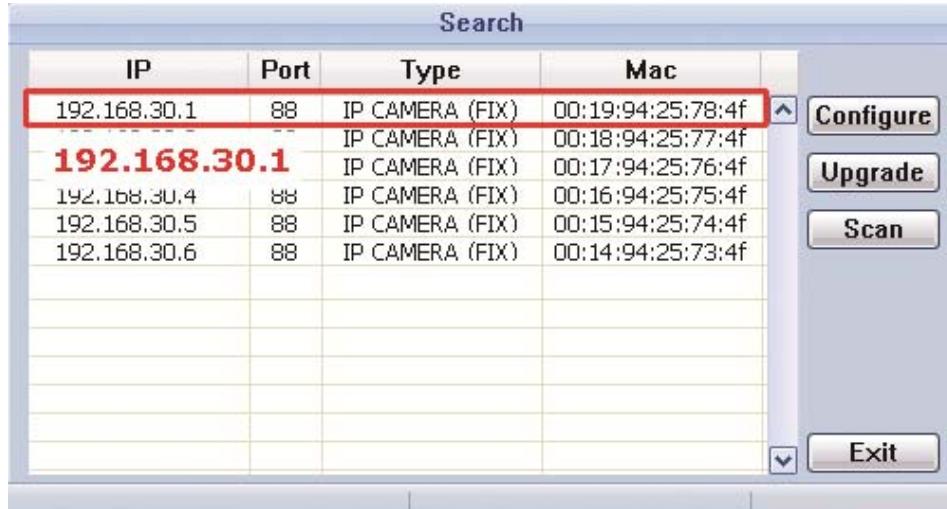
A9.1 Via EagleEyes on iOS / Android Device

A9.1.1 Setup

Step1: Find a laptop and connect it to the same router physically (with a RJ45 network cable) or wirelessly as the one to which the camera is connected.

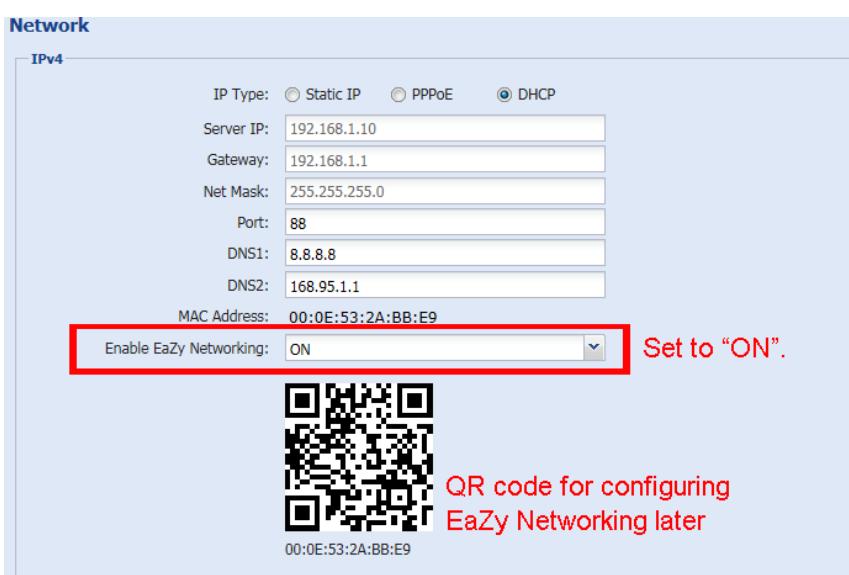


Step2: Download “IPScan” and install it to your laptop: www.surveillance-download.com/user/IPscan.zip.
Activate “IPScan” and click “Scan” to search your camera.



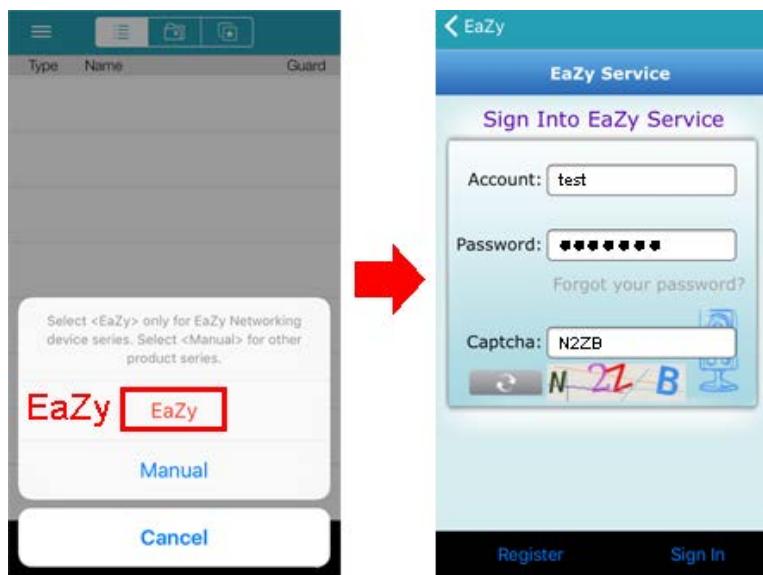
Step3: Open Internet Explorer, and enter the IP address and port number you found to enter the login page. The format is: <http://ipaddress:port>.

Enter the user name and password to login. The default user name and password are both "**admin**". Then, choose "Config." → "Network" to enable EaZy Networking.



Step4: Open EagleEyes on your phone or tablet, and select "+" to choose "EaZy".

- If you have a cloud service account, please sign in.
- For initial use, select "Register" to create an account for the cloud service. Fill in the information needed, and select "Register" to continue.



Step5: Choose the correct type of your IP camera.

Step6: Make sure your camera setup is the same as the animation shown in this page, and choose "Next" to continue.

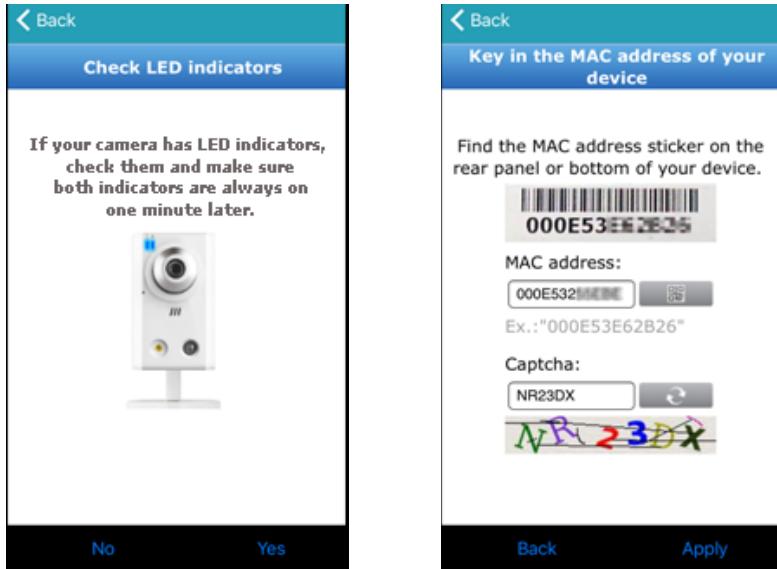


Step7: (Optional) If your camera has LED indicators, make sure both indicators are always on, and select “Yes” to continue.

Step8: Enter or scan the MAC address.

- Find the address sticker on the camera starting with “000E53”, and type it manually. Or,
- Access the camera as shown in Step3 to scan the QR code.

Then, choose “Apply” to continue.



Step9: Check if the preview is what you need. Then, give a name to your camera if needed, or simply keep the default name, “IPCAM”.

Then, choose “Apply” to continue.

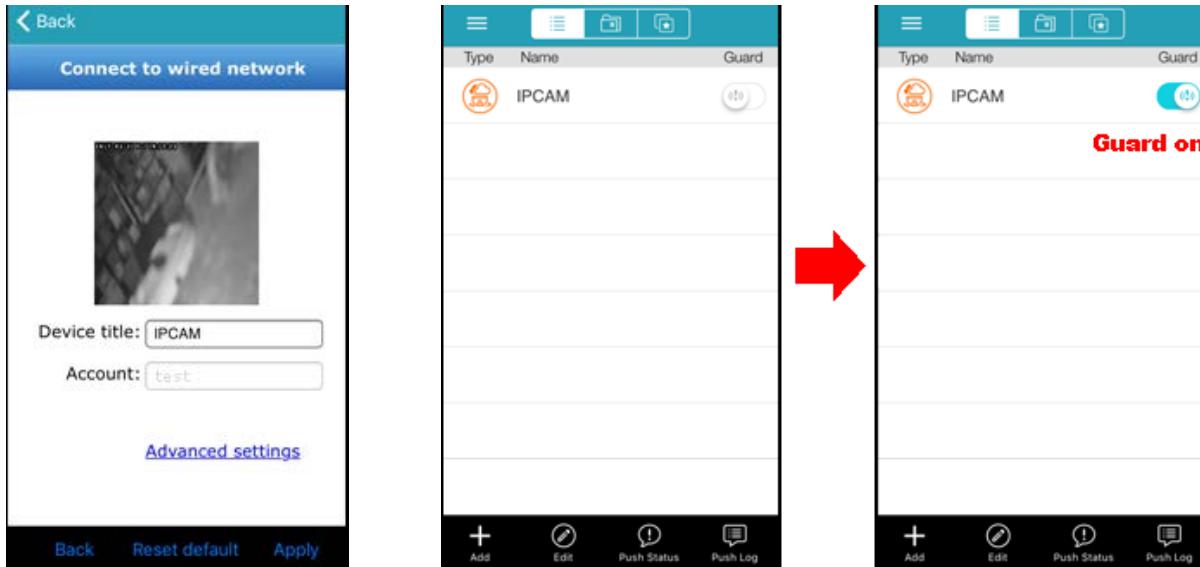
Step10: Follow the on-screen instruction to complete the setup, and see if this device is added successfully to the address book as a cloud device.

At the same time, you'll be prompted to confirm if you want to remove the default user name and password.

- When the default user name and password are removed, you can **ONLY** use the user name and password of the cloud service to access this recorder locally and remotely. If you forget the user name and password of the cloud service, you could only reset the device and do all configurations again.
- When the default user name and password are kept, other people might be able to access this device if they know the default user name and password of this device.

Confirm if you want to keep the default account to continue, and return to the address book. You'll see the newly-added device in the address with a cloud icon on it.

Note: Enable Push Video if needed (Guard on).

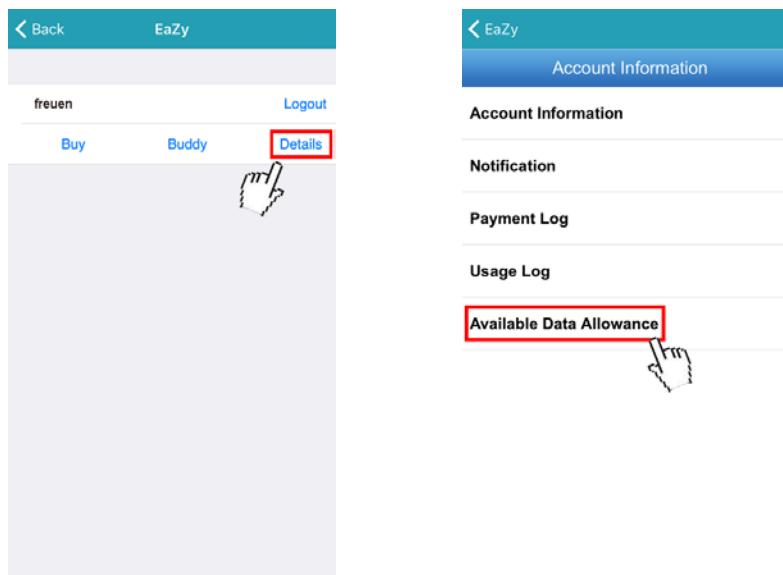


Step11: Click the newly-added device and see if you could access successfully.

A9.1.2 Checking Remaining Data Allowance

Step1: Log into the cloud service.

Step2: Select “Details” to go to account information, and select “Available Data Allowance”.

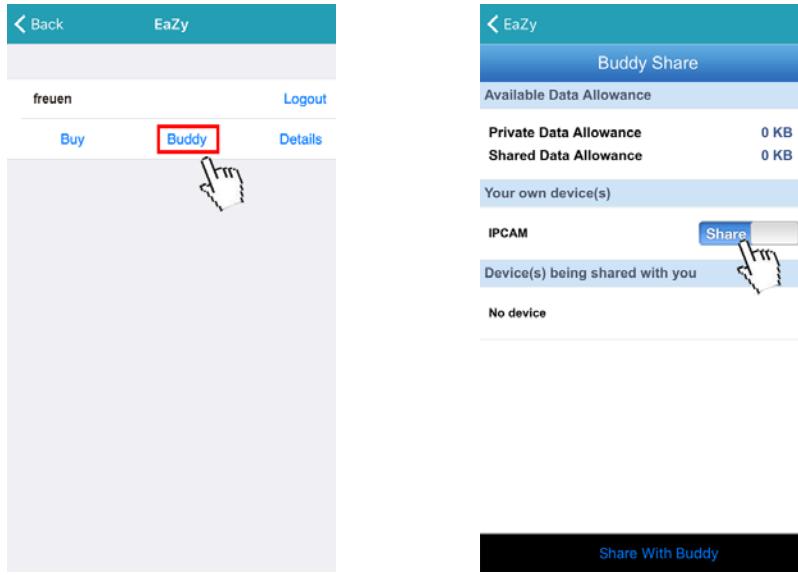


A9.1.3 Sharing Cloud Device Access with Other Account(s)

Note: One cloud device could be shared up to 30 cloud accounts, but the access to the device might be failed because it is still restricted to the maximum online user setup of the device.

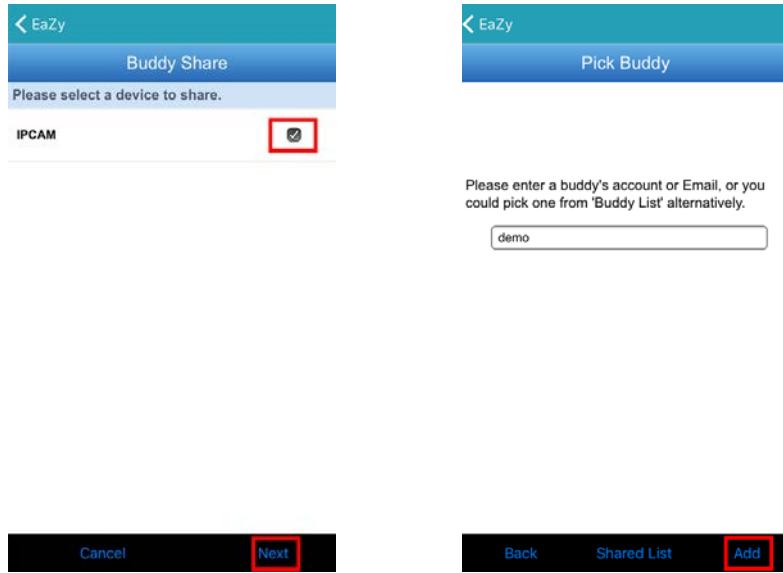
Step1: Log into the cloud service.

Step2: Select “Buddy” to go to the buddy sharing page. Then, choose the device you want to share with, and switch from “OFF” to “Share”.



Step3: Choose the device you want to share with.

Step4: Enter the cloud account or the E-mail registered by the account, and select “Add”.



Step4: Check again the account with which you want to share your cloud device, and select “Next” to confirm and continue.

Step5: Specify the access permission of the specified account, which account’s data allowance should be consumed after access successfully, and how long the account is allowed to stay after access successfully.

- Who should pay data allowance:

Who should pay data allowance	The order to consume data allowance
I	The free data allowance provided by the device -> The additional data allowance shared to other account(s) by the owner -> The additional data allowance of the device's owner -> The data allowance shared to other account(s) by the buddy
Buddy	The additional data allowance of the buddy -> The data allowance shared with other account(s) by the buddy

Note: When there's no data allowance to use, the network transmission will be down to 1 FPS. To restore the fluency of live view, users need to subscribe a data plan from EagleEyes, or configure the network settings by themselves.

The image shows two screenshots of the EaZy app interface. The left screenshot is titled 'Share With Buddy (1/3)' and shows a list of accounts to share with, including 'demo' (Nickname: demo, Email: a*****s@gmail.com). The right screenshot is titled 'Permission Setting (2/3) - IPCAM' and shows settings for the shared account: 'Who pay for data allowance: Buddy', 'Connection time limit: 1 Minute', and 'User level: NORMAL'. A detailed description of user levels is provided in a box: **SUPERVISOR:** Can configure and customize all settings, hear audio stream, and receive Push Video / Push Status notifications. **POWER USER:** Can do remote playback. **NORMAL:** Can perform basic control. **GUEST:** Can only see live stream. At the bottom of both screens are 'Cancel', 'Add', 'Delete', and 'Next' buttons, with 'Next' being highlighted in the first screenshot.

Step6: Check again the configurations you made for the account to which you want to share your cloud device, and select “Share!” to confirm.

The image shows a screenshot of the 'Preview the sharing settings (3/3)' screen. It displays the device to be shared ('IPCAM'), its MAC address ('00:0E:53:24:33:33'), the account it will be shared with ('demo', Nickname: demo, Email: a*****s@gmail.com), and the sharing configuration ('Who pay for data allowance: Buddy', 'Connection time limit: 1 Minute', 'User level: NORMAL'). At the bottom are 'Back', 'Cancel', and 'Share!' buttons, with 'Share!' being highlighted.

Step7: (Optional) Configure the data allowance shared to other accounts to use.

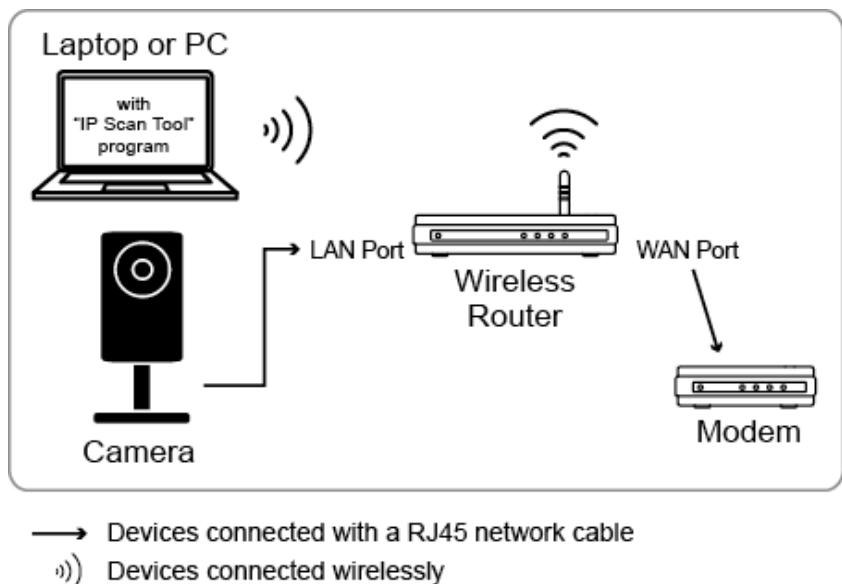
Step8: Return to the address book of EagleEyes. You'll see the device being shared with an icon of a man.

A9.2 Via Internet Explorer on PC / Laptop

Note: EaZy Networking setup via a web browser is only available on Internet Explorer.

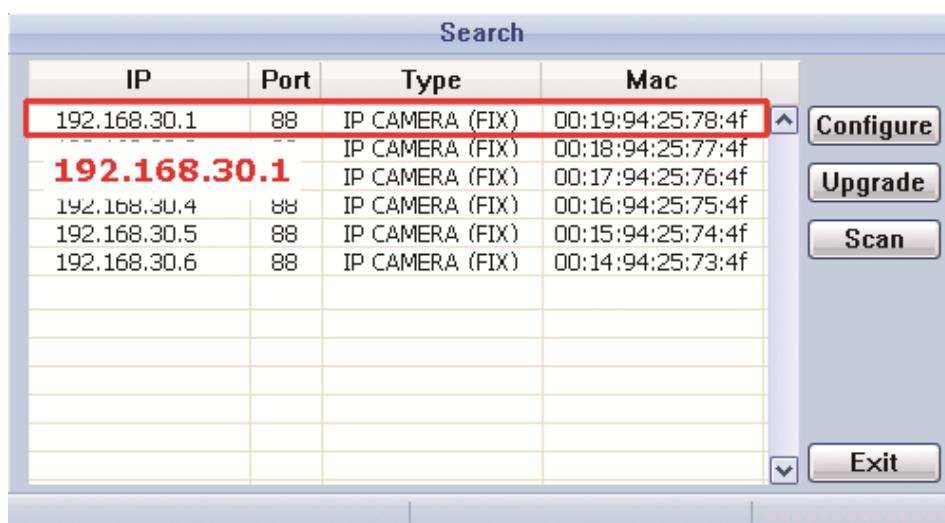
A9.2.1 Setup

Step1: Find a laptop and connect it to the same router physically (with a RJ45 network cable) or wirelessly as the one to which the camera is connected.



Step2: Download “IPScan” and install it to your laptop: www.surveillance-download.com/user/IPscan.zip.

Activate “IPScan” and click “Scan” to search your camera.



Step3: Open Internet Explorer, and enter the IP address and port number you found to enter the login page.

The format is: `http://ipaddress:port`.

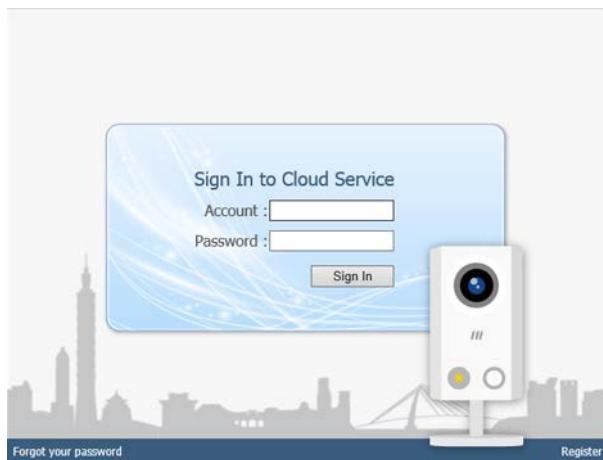
Enter the user name and password to login. The default user name and password are both “**admin**”. Then, choose “Config.” → “Network” to enable EaZy Networking.



Step4: Open Internet Explorer on a PC / laptop, and enter <https://ez.eagleeyes.tw>.

In the login page, register an account for “Cloud Service”. If you’ve got an account, please just log in.

Note: Your PC must be connected to Internet.



Step4: Click + on the left pane, and you'll be prompted to install plugins: **EaZy Control** and **EaZy Wizard**. Please follow the instructions to install these two plugins to ensure the service works properly.

Note: If you're not prompted to install the plugin, please lower the security level of Internet Explorer, and try to log into the cloud service again.

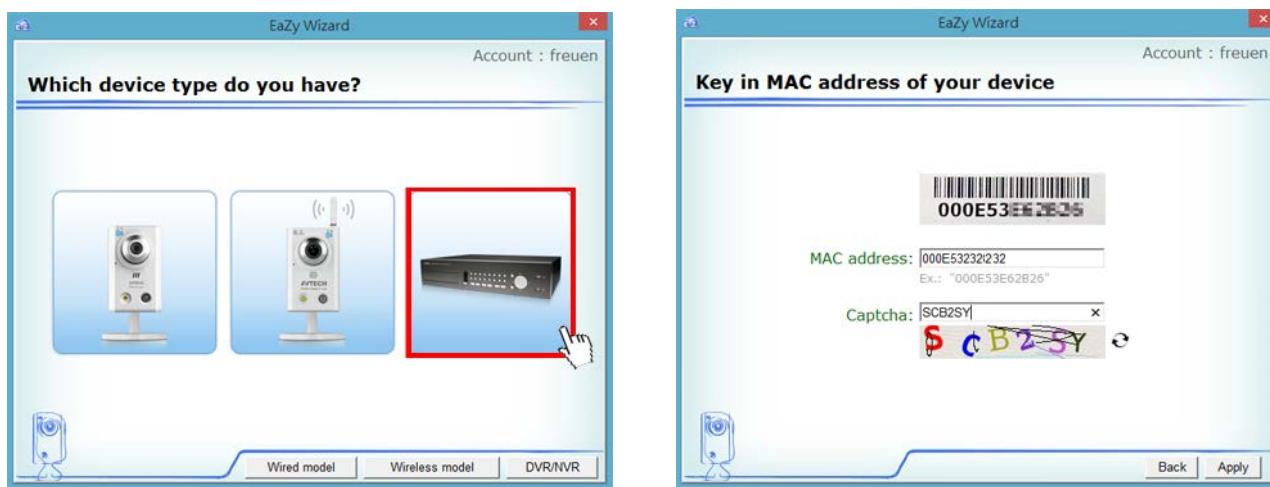


Step5: Enable EaZy Wizard, and click “Start” to go to the login page. Log into the cloud service.



Step6: Select the recorder picture, or choose “DVR / NVR” on the bottom right corner. Then, enter the MAC address you wrote down in Step2, and the security code.

Click “Apply” to continue.



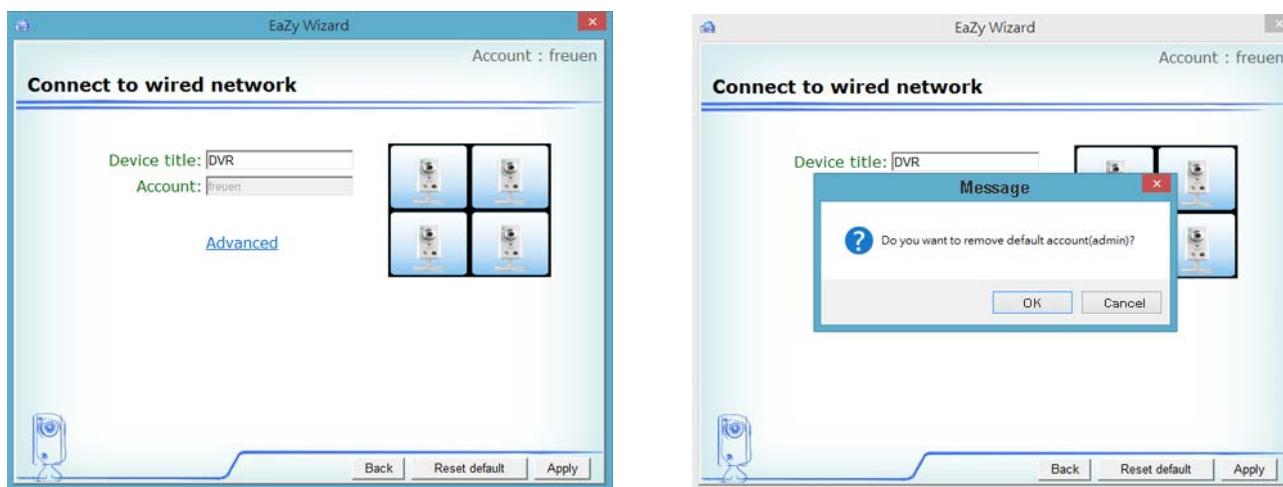
Step7: When your device is found, you'll be directed to the next page to change the device title if you want.

Note: The device name changed here will be fixed and can't be changed later.

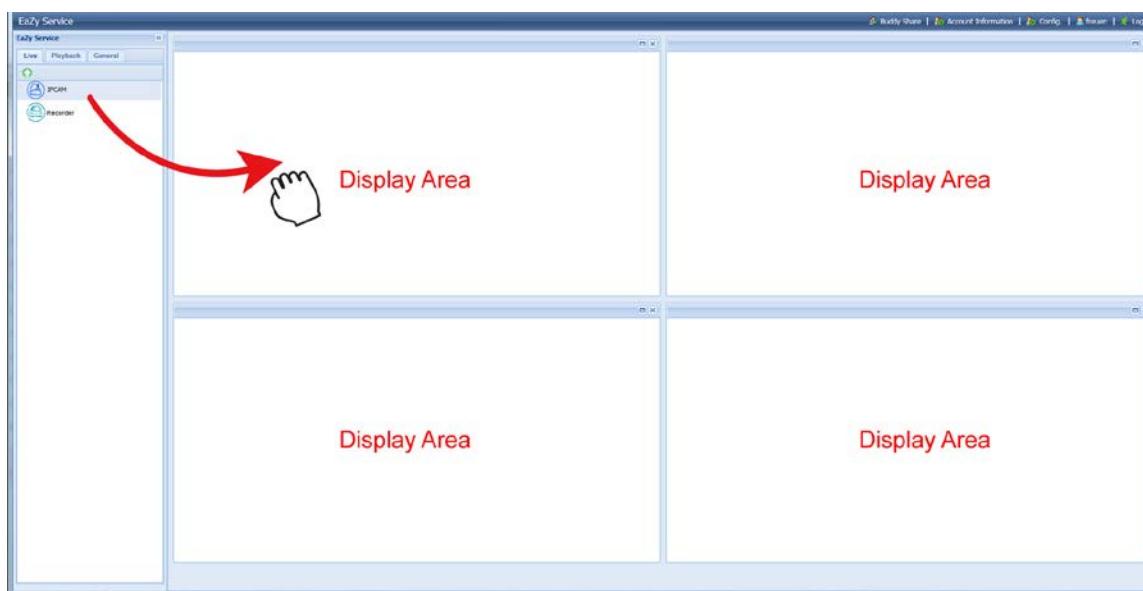
Click "Apply" to continue. You'll be prompted to confirm if you want to remove the default user name and password.

- When the default user name and password are removed, you can **ONLY** use the user name and password of the cloud service to access this recorder locally and remotely. If you forget the user name and password of the cloud service, you could only reset the recorder and do all configurations again.
- When the default user name and password are kept, other people might be able to access this recorder if they know the default user name and password of this recorder.

Confirm if you want to keep the default account, and click "Apply" to continue and return to the main page.



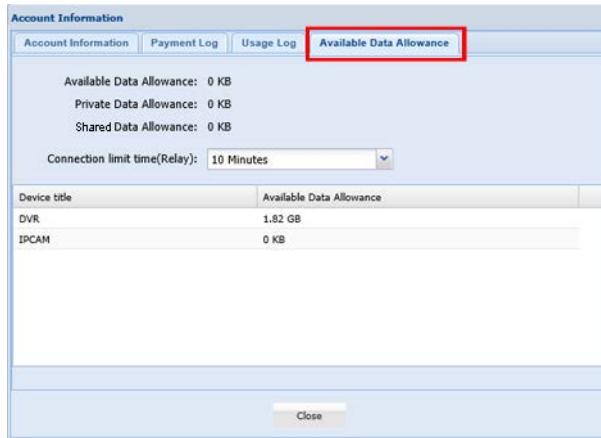
Step8: You'll see the newly-added device with a cloud icon on the left pane. Drag and hold the device to the display area on the right pane to show in the same window, or simply double-click the device to open the device view in another window.



A9.2.2 Checking Remaining Data Allowance

Step1: Log into the cloud service.

Step2: Select “Account Information” on the top right corner to go to account information, and select “Available Data Allowance”.

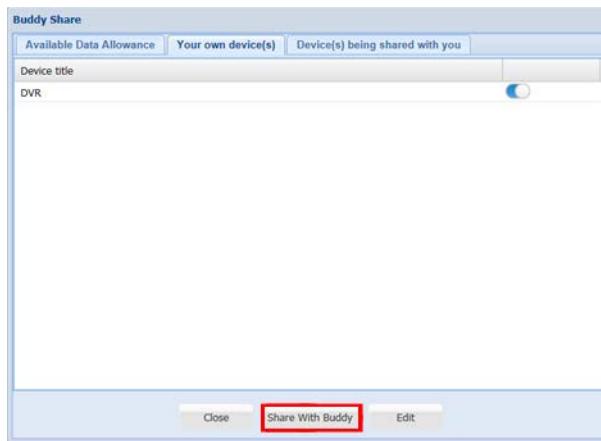


A9.2.3 Sharing Cloud Device Access to Other Account(s)

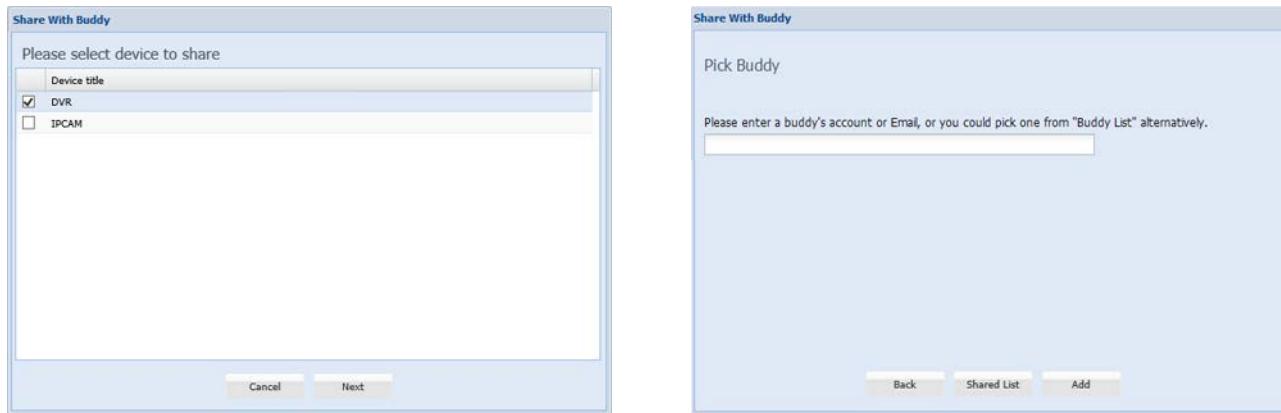
Note: One cloud device could be shared up to 30 cloud accounts, but the access to the device might be failed because it is still restricted to the maximum online user setup of the device.

Step1: Log into the cloud service.

Step2: Select “Buddy Share” to go to the buddy sharing page. Then, choose the tag “Your own device(s)”, and select “Share With Buddy”.



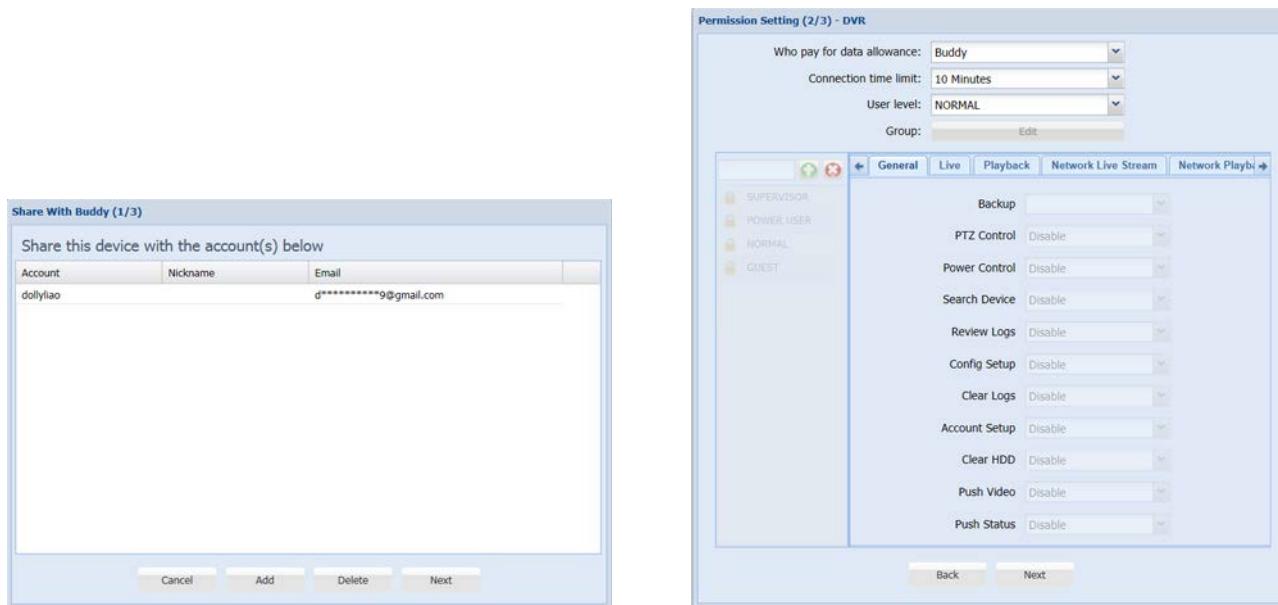
Step3: Choose the cloud device you want to share, and click “Next” to enter the cloud account or the E-mail registered by the account you want to share with. Then, select “Add”.



Step4: Check again the account to which you want to share your cloud device.

To add more accounts, select “Add”; to remove the existing account, select “Delete”; to continue buddy setup, select “Next”.

Step5: Specify the access permission of the specified account, which account's data allowance should be consumed after access successfully, and how long the account is allowed to stay after access successfully.



- Who should pay data allowance:

Who should pay data allowance	The order to consume data allowance
-------------------------------	-------------------------------------

I The free data allowance provided by the device -> The additional data allowance shared to other account(s) by the owner -> The additional data allowance of the device's owner -> The data allowance shared to other account(s) by the buddy

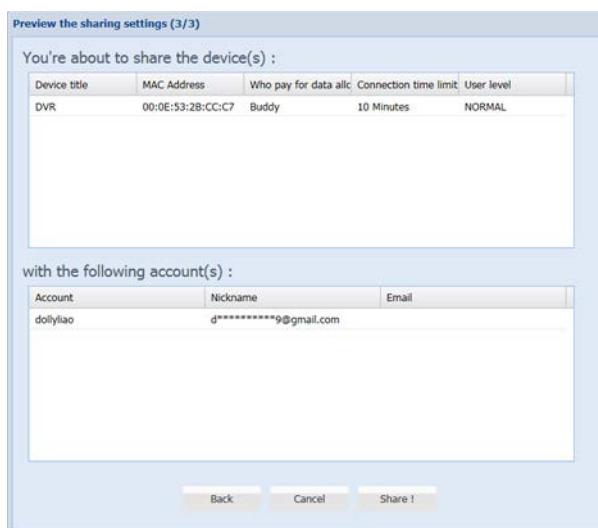
Buddy The additional data allowance of the buddy -> The data allowance shared with other account(s) by the buddy

Note: When there's no data allowance to use, the network transmission will be down to 1 FPS. To restore the fluency of live view, users need to subscribe a data plan from EagleEyes, or configure the network settings by themselves.

Step6: Check again the configurations you made for the account to which you want to share your cloud device, and select "Share!" to continue.

Step7: (Optional) Configure the data allowance shared to other accounts to use.

Step8: Return to the main page. You'll see the device being shared is marked with an icon of two people.



A9.3 Icons

Icon	Color	Indication
	Teal	This device is a DVR or NVR.
	Blue	This device is an IP camera.
	Orange	This device is an IP speed dome camera.
	Red	This device is disconnected and unidentified.
 or 	Depending on the device color	<p>This device is configured to the Internet via EaZy Networking (AVTECH Cloud Service).</p> <p>The cloud icon will be grayed out if the EaZy server can't be connected.</p>
	Depending on the device color	<p>You've shared the access right of the device with other cloud account via Buddy (AVTECH Cloud Service).</p> <p>The icon will be grayed out if you disable the device share.</p>
	Depending on the device color	The icon will be grayed out if the device share is disabled by the owner of the device.

For example, if you see  as the device type, you'll know:

- This device is an IP camera.
- This device is connected to the Internet via EaZy Networking.
- You were shared with the access right of the device, but the device share is disabled now.