

HD CCTV DVR

QUICK START

■ 1080P Video Recording

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

For the actual display & operation, please refer to your DVR in hand.

Complete user manual download: www.surveillance-download.com/user/t204.swf

IMPORTANT SAFEGUARD



CAUTION

RISK OF ELECTRIC SHOCK



CAUTION:

To reduce the risk of electric shock, do not expose this apparatus to rain or moisture. Only operate this apparatus from the type of power source indicated on the label. The company shall not be liable for any damages arising out of any improper use, even if we have been advised of the possibility of such damages.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



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



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

Federal Communications Commission Interference Statement

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

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Grounding

This is a Safety Class 1 Product (provided with a protective earthing ground incorporated in the power cord). The mains plug shall only be inserted in a socket outlet provided with a protective earth contact. Any interruption of the protective conductor inside or outside of the instrument is likely to make the instrument dangerous. Intentional interruption is prohibited.

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

<http://download.dvrtw.com.tw/GPL/DVR/GM8210/linux-3.3-fa.tgz>

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1. CONNECTION AND SETUP

Before the DVR is powered on, make sure you have installed a hard disk, connected at least one camera and a HDMI monitor. For details, please refer to the following sections.

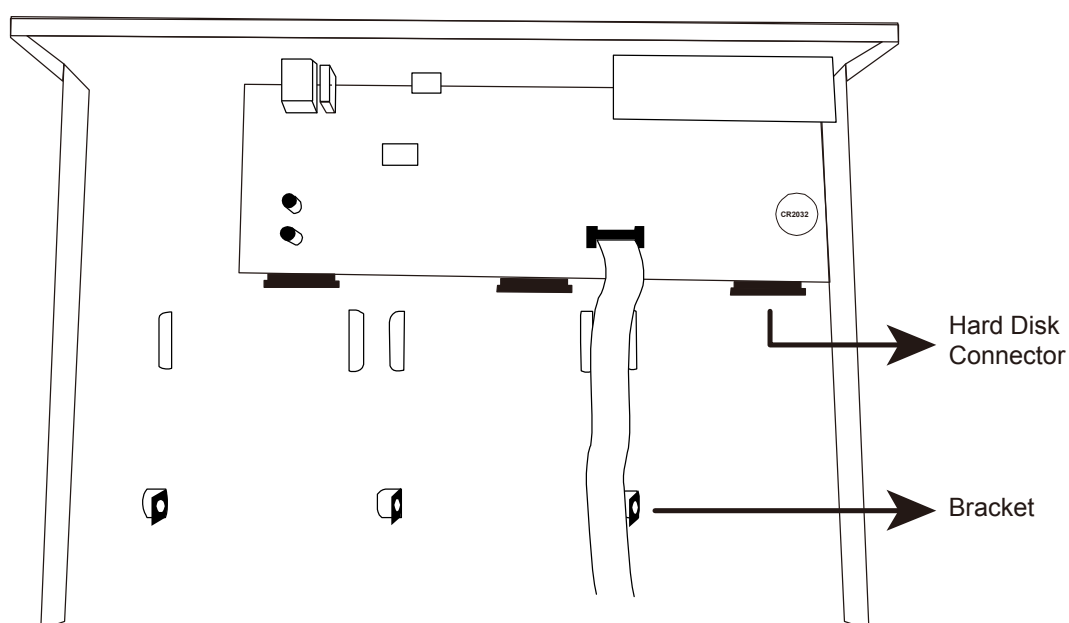
Note: The DVR is designed to automatically detect the video system of the connected cameras (NTSC or PAL). To make sure the system detection is correct, please check if the cameras are connected to the DVR and power-supplied before the DVR is powered on.

1.1 SATA Hard Disk Installation

A hard disk is necessary for the recorder to save video footage, and firmware upgrade might be failed if there's no hard disk installed in this recorder.

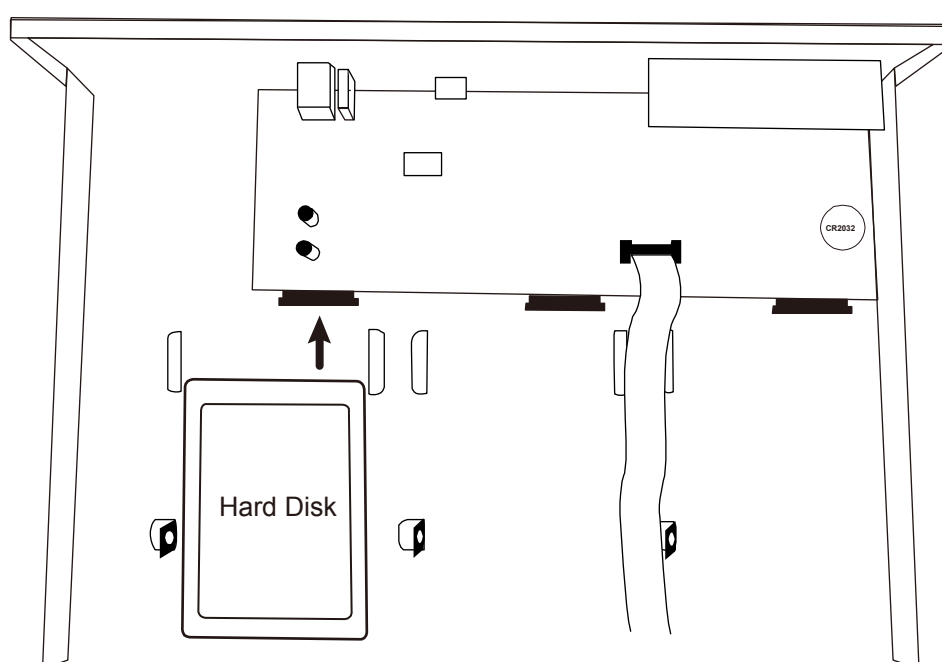
Note: Here takes a 8CH model as an example of how to connect a hard disk to your device. To know how many hard disks could be installed, please refer to the specifications of your device.

Step1: Remove the top cover, and find the hard disk connector and bracket in the device.

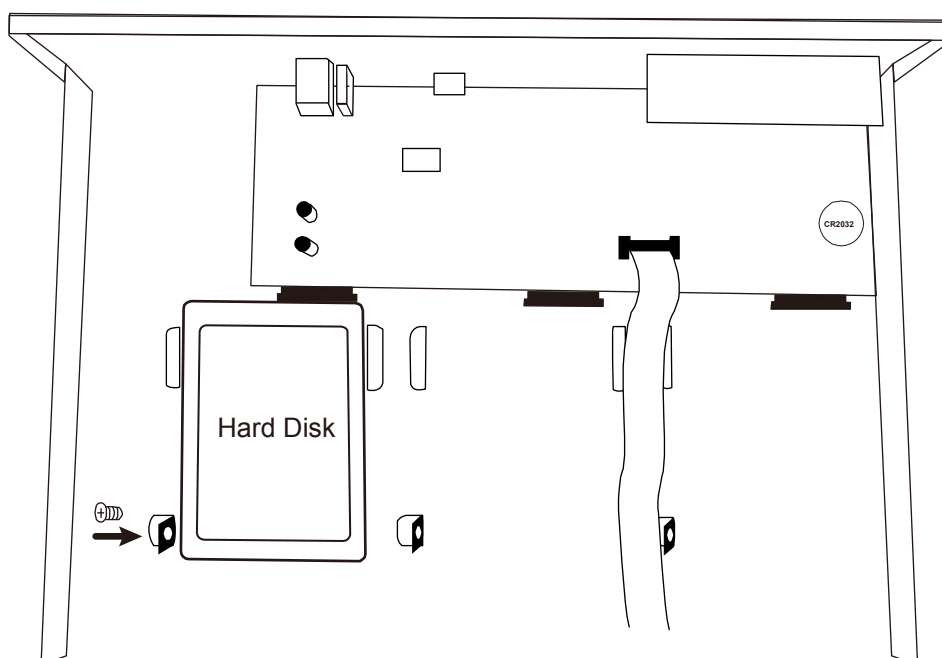


Step2: Get a compatible hard disk. With the PCB side facing down, insert the hard disk to one of the hard disk connector.

Note: To use a green hard disk, use **ONLY** the hard disk designed especially for surveillance to ensure the device works properly.



Step3: Fasten the hard disk to the bracket by securing the screw on the bracket.



Step4: Replace the top cover and fasten the screws you loosened in Step1.

1.2 Camera Connection

Install the camera on the wall or ceiling based on your installation environment and camera type. For installation details, please refer to the user manual of your camera.

1.2.1 Normal / Motorized Lens Camera

1) Connecting to DVR video input

Connect the camera video output to the DVR video input port with a coaxial cable or RCA line with a BNC connector.

2) Connecting to DVR audio input (Optional)

Connect the camera audio output to the DVR audio input port with a coaxial cable or RCA cable.

3) Connecting to power

Connect the camera with indicated power supply and make sure it's power-supplied.

1.2.2 Speed Dome Camera

The following description is taking our brand's speed dome camera as an example.

Note: The RS485 wiring is not needed when your DVR and speed dome camera are both our HD CCTV series. If yes, please go to **STEP 5** directly for PTZ camera setting.

Note: Speed dome camera connection for non-HD CCTV series is available only for selected DVR models.

STEP 1: Get a RJ11 cable with the proper length to your connection.

Different RJ11 connector may have different wire layout, so the connection might be different. If you cannot control the DVR after connection, please reverse the RJ11 cable connection with the DVR.

STEP 2: Remove one end of the insulating coating of the RJ11 cable.

Remove one end of the insulating coating of the RJ11 cable to find the RS485-A and the RS485-B wires, and remove the insulating coating to reveal the naked wires for further connection.

STEP 3: Twist the RS485-A and RS485-B wires of the RJ11 cable and the speed dome camera together.

Twist the RS485-A (red) and RS485-B (green) wires of the RJ11 cable to the RS485-A (brown) and RS485-B (orange) wires of the speed dome camera. To protect the naked wires, use the insulation tape to cover on the twisted wires.

STEP 4: Connect the other end of the RJ11 cable to DVR.

Solder the RS485-A (red) and RS485-B (green) wires of the RJ11 cable to the corresponding pins on the DVR rear panel.

STEP 5: Set the camera at the DVR side.

Right click to show the main menu in the live view, and go to  (ADVANCED CONFIG) → “DEVICES” to set the camera.

- a) Select the device to “PTZ”.
- b) Set the ID to the value the same as the one set in the camera. The default ID of the camera is 000.
- c) Select the protocol to “NORMAL”.
- d) Set the baud rate to the value the same as the one set in the camera. The default baud rate of the camera is 2400.

ADVANCED CONFIG			
CAMERA DETECTION ALERT NETWORK DISPLAY RECORD DEVICES DCCS IVS NOTIFY EXIT	CH1	CH2	CH3
	CH4		
	DEVICE		PTZ ▼
	ID		000
	PROTOCOL		NORMAL ▼
	RATE		2400 ▼

1.3 External Device Connection

Some DVR models support external device connection with RS485 and alarm I/O ports, allowing users to connect control devices such as a keyboard controller, or connect alarm devices such as a magnetic contact or buzzer.

Check the user manual of your external device to know which pin(s) should be used, and connect it to the corresponding pins on the DVR rear panel.

1.4 DVR Power On

This device should be operated only with the type of power source indicated on the manufacturer's label. Connect the indicated AC power cord to the power adapter, and plug into an electrical outlet.

If your device has a power switch on the rear panel, turn it to “—”. The power LED will be on. If your device doesn't have a power switch on its rear panel, the power is on once the power source is connected.

Note: Before the DVR is powered on, make sure (1) the cameras are connected and power-supplied for the detection of the camera video system to be correct, and (2) a HDMI monitor is connected to the DVR for correct video output detection.

Note: To ensure that your DVR works constantly and properly, it's recommended to use an UPS, Uninterruptible Power Supply (Optional), for continuously operation.

1.5 Date and Time Setting

Before operating your DVR, please set the date and time on your DVR **FIRST**.

Note: Please DO NOT change the date or time of your DVR after the recording function is activated. Otherwise, the recorded data will be disordered and you will not be able to find the recorded file to backup by time search. If users change the date or time accidentally when the recording function is activated, it's recommended to clear all HDD data, and start recording again.

Note: For the first time to use the DVR, please power it on for at least 48 hours continuously after the date & time is set correctly. It helps to prevent DVR time from resetting after the disconnecting of DVR power. If the DVR time resets after the disconnecting of DVR power, for example, caused by a power outage, the battery might run out and please replace the battery as described in "APPENDIX 8 DVR BATTERY REPLACEMENT" in the user manual.

Right-click to enter the DVR password with the password keypad. The default administrator password is admin.

The status will be changed from  (key lock) to  (unlock). Then, right-click to show the main menu, and select  (QUICK START) → "TIME SETUP" to set the date & time.

QUICK START		
GENERAL	DATE	2009 / NOV / 17
TIME SETUP	TIME	15 : 35 : 53
DAYLIGHT	NTP SERVER	pool.ntp.org
EaZy	FORMAT	Y/M/D
	SYNC PERIOD	OFF
	GMT	(GMT + 8:00) TAIPEI
EXIT		

1.6 Clear Hard Disk

It's recommended to clear all data in the hard disk for the first time to user this DVR to ensure the recorded data are not mixed with other data previously saved in the same hard disk.

Right-click to show the main menu, and select  (SYSTEM) → "SYSTEM INFO" → "CLEAR HDD". The DVR will reboot when hard disk data are cleared.

SYSTEM		
ACCOUNT	BAUD RATE	2400 ▼
TOOLS	HOST ID	000
SYSTEM INFO	R.E.T.R	5 ▼
BACKUP DATA	AUTO KEY LOCK(S)	NEVER ▼
BACKUP LOG	CLEAR HDD	HDD-0 ▼
REGULAR REPORT	RESET DEFAULT	SUBMIT
	REMOTE CONTROL ID	000
	DEVICE TITLE	OFFICE
	SERIAL TYPE	RS485
	VIDEO FORMAT	NTSC
	VERSION	1019-1008-1010-1010
EXIT		

1.7 Password Setting

Right-click to show the main menu, and select  (SYSTEM) → “ACCOUNT” to change the default password of SUPERVISOR.

There are four user levels for different access privileges: SUPERVISOR, POWER USER, NORMAL & GUEST. For details, please refer to “4.2 User Level Creation” at page 19.

SYSTEM			
ACCOUNT TOOLS SYSTEM INFO BACKUP DATA BACKUP LOG REGULAR REPORT	USER LIST		
	USER NAME	LEVEL	
	admin	SUPERVISOR	
	power	POWER USER	
	normal	NORMAL	
	guest	GUEST	
EXIT	ADD	EDIT	DEL

1.8 EaZy Networking *(For selected models only)*

EaZy Networking is a cloud service to connect your devices to the Internet automatically through our free mobile app, EagleEyes, in a few steps without going through the complicated network setup including port forwarding.

Note: EaZy Networking is not a free service. We will initially provide 2GB data allowance (approx. 2185 minutes) for free. When 2GB is up, 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.

To connect this recorder to the Internet without using EaZy Networking, get the network setup manual from www.surveillance-download.com/user/t204.swf.

Note: Data allowance is consumed only when the device access is made via Internet, 3G mobile network, and the network different from the device is used.

1.8.1 Setup

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 or Android mobile device.
- Our mobile app, EagleEyes, is installed in your mobile device.

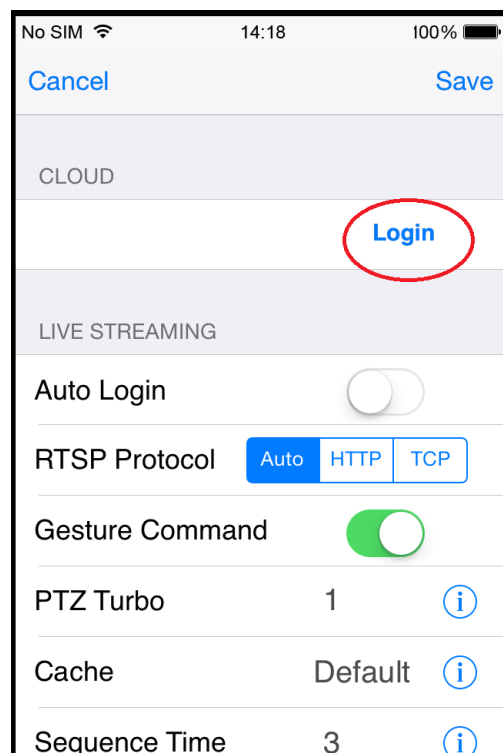
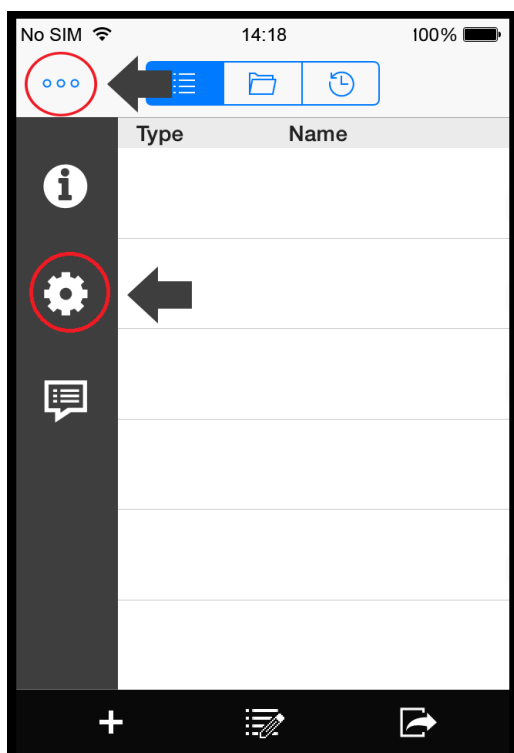
Step1: Right-click to show the main menu, and select “QUICK START” → “EaZy”.

Step2: Enable EaZy Networking, and leave this page open. You’ll need to scan the QR code later.

QUICK START	
GENERAL TIME SETUP DAYLIGHT EaZy	ENABLE EAZY NETWORKING ON  000E532B8613
EXIT	

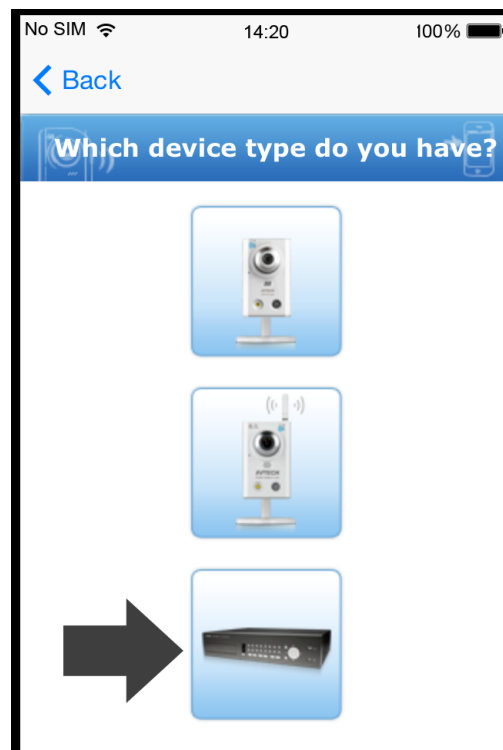
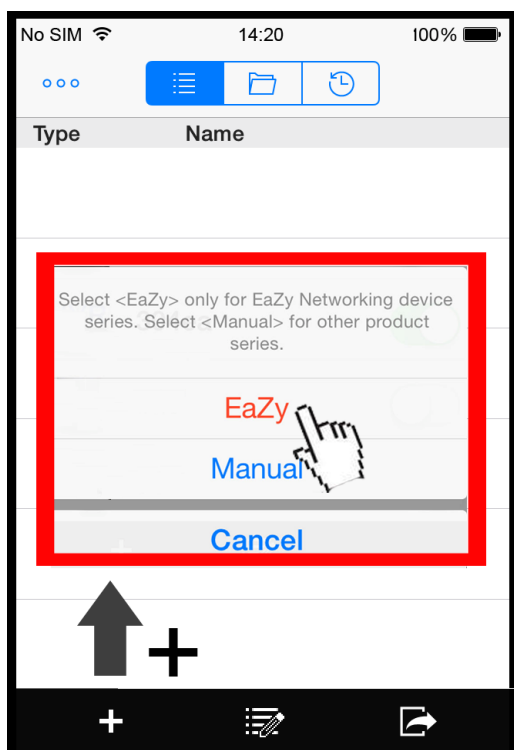
Step3: Open EagleEyes on your mobile device, and select “...” on the top left corner in the address book. Then, click “⚙️”.

Step4: Click “Login” in the section of “Cloud” and register an account for “Cloud Service”. If you’ve got an account, please just log in.



Step5: Go back to the address book and click “+” to add a new device.

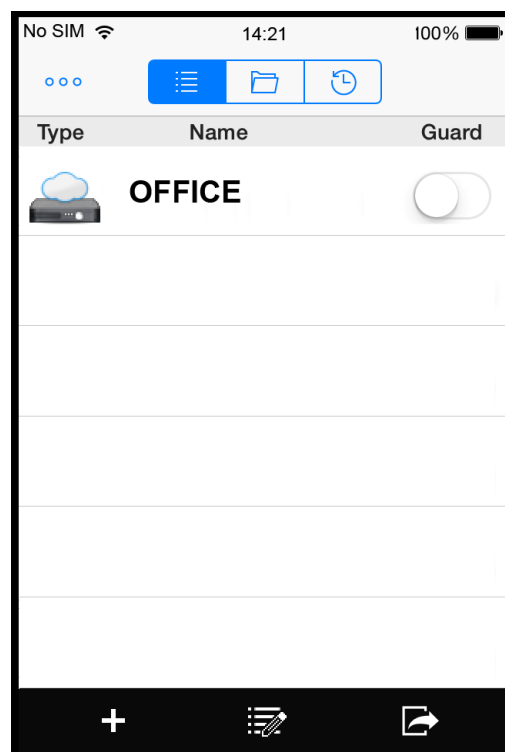
There are two methods to add new devices, “EaZy” and “Manual”.
Select “EaZy”, and choose the DVR icon to continue.



Step6: Click  in the section of “MAC address” to open the QR code scan page, and scan the QR code on the DVR screen mentioned in Step2. The MAC address will be filled automatically. Fill in the Captcha code manually, and click “Apply”.

Step7: Follow the on-screen instruction to finish the rest of the settings, and see if this device is added successfully to the address book as a cloud device.

When the device is added successfully to the cloud service, the DVR will also prompt a message, indicating the device is added successfully.



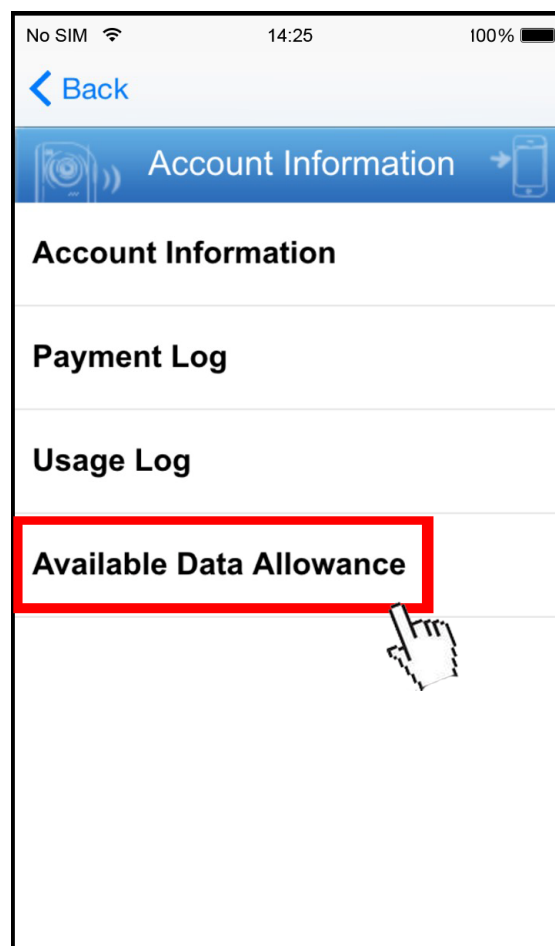
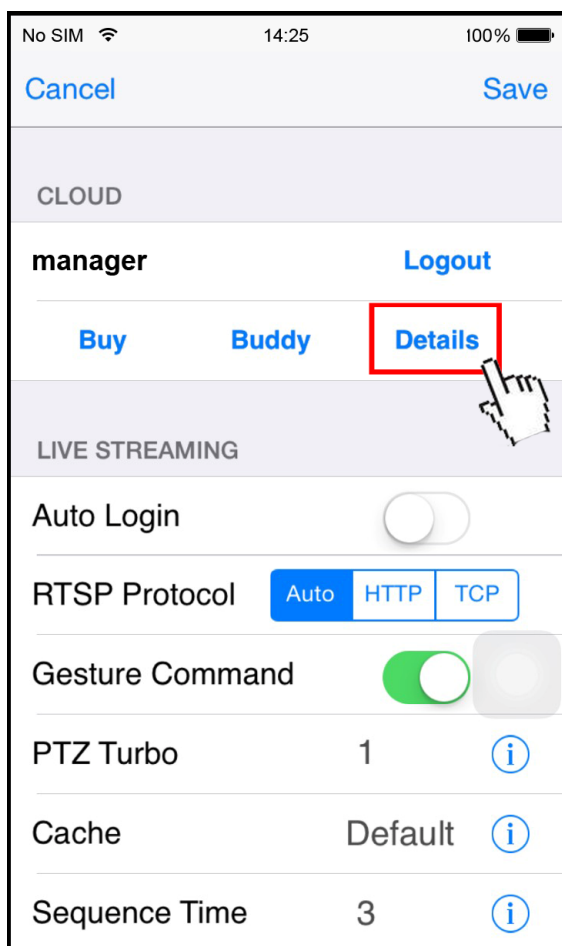
Step8: Click the newly-added device and see if you could access successfully.

1.8.2 Checking Remaining Data Allowance

To know how much data allowance is left:

Step1: Log into the cloud service.

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



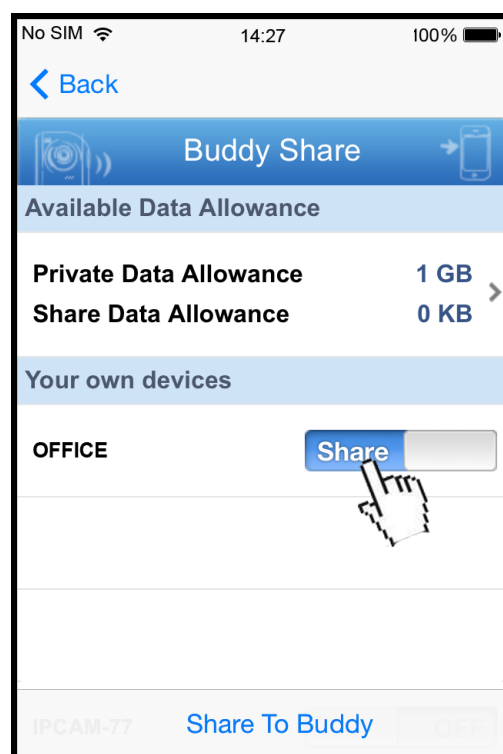
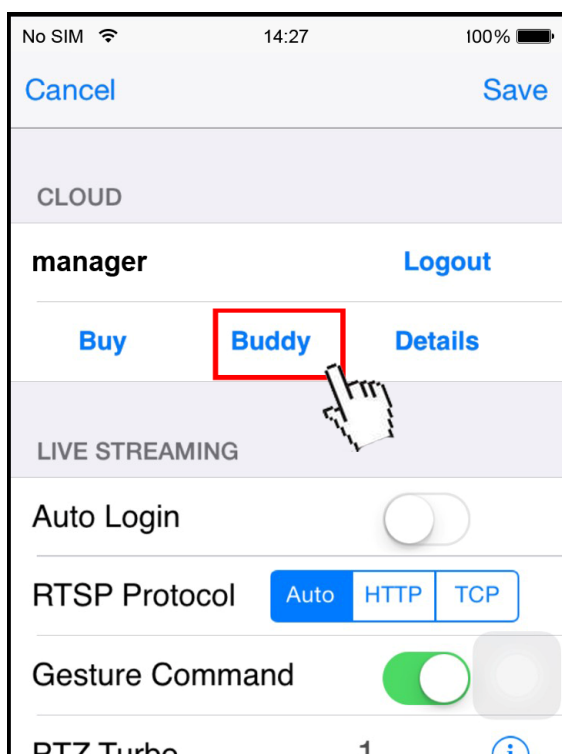
1.8.3 Sharing Cloud Device Access to Other Account(s)

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. i.e.

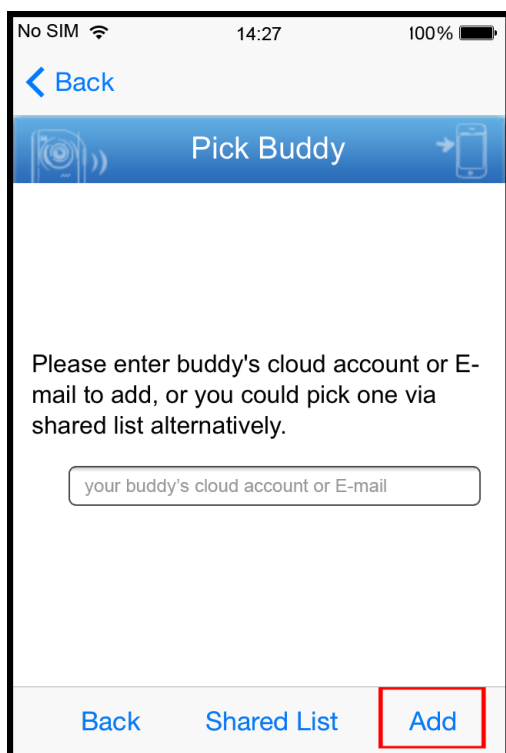
To allow other account to access your cloud device:

Step1: Log into the cloud service.

Step2: Select “Buddy” to go to the buddy sharing page. Then, choose the cloud device you want to share, and click “Share to Buddy”.



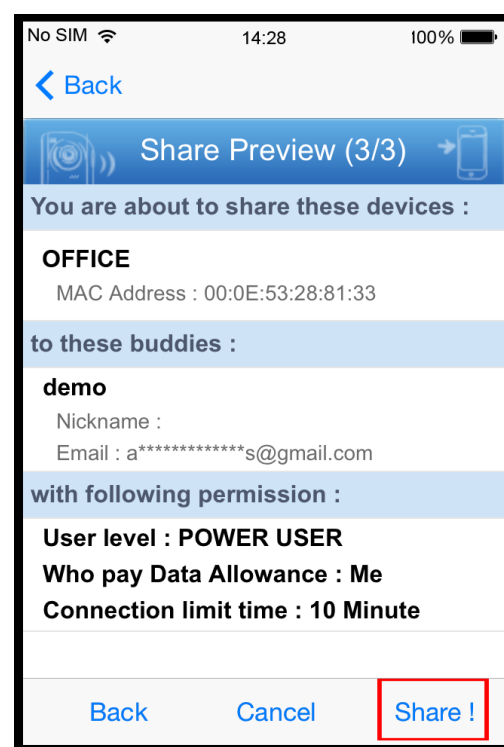
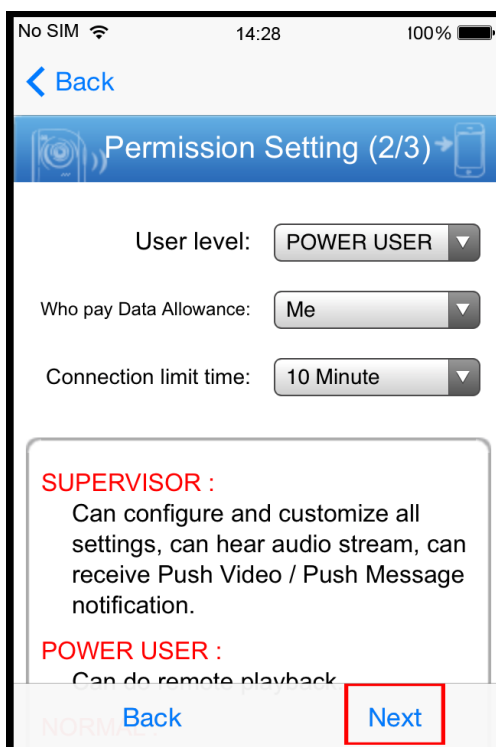
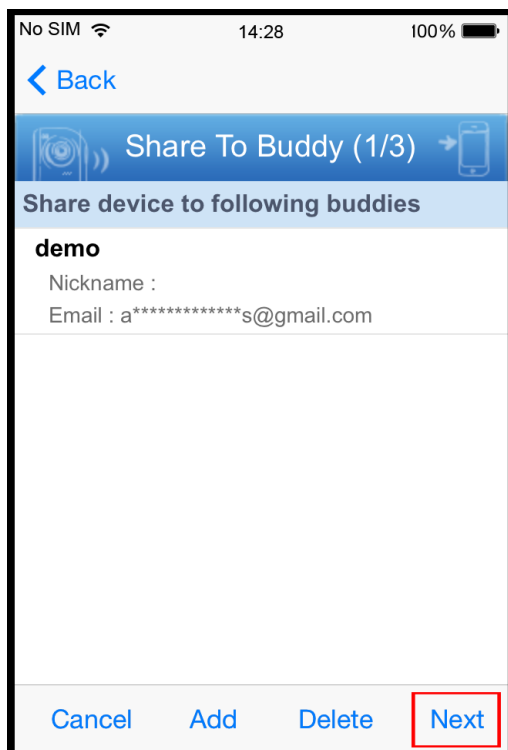
Step3: Enter the cloud account or the E-mail registered by the account, and select “Add”.



Step4: Check again the account to 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.

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



2. USER INTERFACE

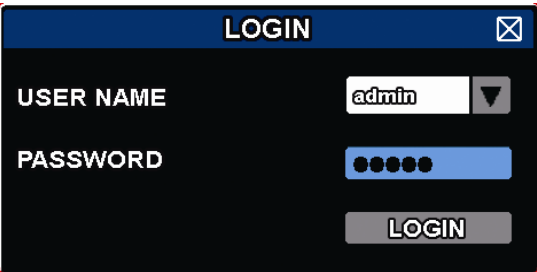
2.1 DVR Access

Connect your USB mouse to one of the USB ports on the DVR front panel, and check if there's a mouse icon (🖱️) on the screen, indicating the USB mouse is detected properly.

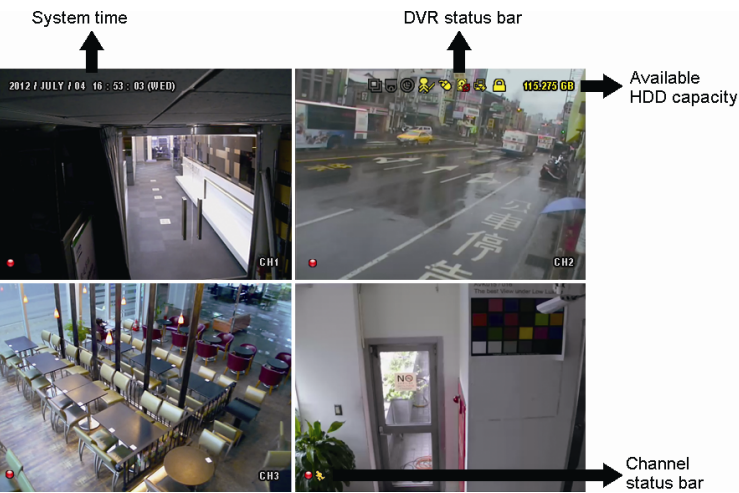
Move your mouse to enter the DVR password with the password keypad. The default user name and password are both "admin". The status will be changed from 🔒 (key lock) to 🔓 (unlock).

Note: You may configure four different user levels to have different access privileges in "SYSTEM" → "ACCOUNT". For details, please refer to "4.2 User Level Creation" at page 19.

Password Input



2.2 Live Page



2.1.1 DVR Status

Note: Certain icons are for selected models only.

	Key lock		Key unlock
	Overwrite on		Overwrite off
	Internet disconnected		Internet connected
	Local connection		USB mouse connected
	USB flash drive / device connected		No USB device connected
	IVS on		
	Timer record on		Timer record off
	PTZ mode on		PTZ mode off
	Sequence mode on		Sequence mode off

2.1.2 Channel Status

Note: Certain icons are for selected models only.

	Live audio on		Audio off		Audio playback on		Audio playback off
	Recording		PTZ control		Motion event		Alarm event
	PIR event		Virtual fence event		One way pass event		Scene Change event

2.1.3 Record-related Icons

1) Manual Recording

By defaults, manual recording is on () when the DVR is powered on and a hard disk is installed.

2) Event Recording

The event icons,  /  /  /  /  / , show on the channel status bar when their respective events occur and the related record function is on.

3) Timer Recording

When timer recording is on, you will see  on the screen.

4) HDD Overwritten

Be defaults, the HDD overwritten function is set to ON, and  will be shown on the screen.

Note: To disable this function, right click to display the main menu in the live view, and go to  (ADVANCED CONFIG.) → "RECORD" → "OVERWRITE".

2.3 Quick Menu Bar

Move to the arrow mark to extend the quick menu bar and show the five functions as follows:

Quick Menu: Open





Click to show the channel switch panel and select the channel you want.



Click to display the playback control panel, and click  to play the latest recorded video clip, or click  to enter the search list.



Switch to the channel you want first, and click  to enter the zoom-in mode. In this mode, click and drag the red frame on the bottom left of the screen to move to the place you want to see. To exit this mode, click .

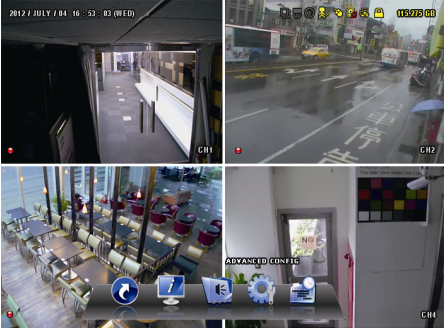


Click to show the power off panel to either halt or reboot the system.

2.4 Main Menu

Right-click anywhere on the screen to show the main menu as follows, and right-click again to exit.

Main Menu



	QUICK START	Click to set the status display, image settings, and date & time.
	SYSTEM	Click to set the system configurations.
	EVENT INFORMATION	Click to enter the event search menu.
	ADVANCED CONFIG	Click to set CAMERA, DETECTION, ALERT, NETWORK, DISPLAY, RECORD, DEVICES*, DCCS, IVS* and NOTIFY*.
	SCHEDULE SETTING	Click to set timer for record, motion detection, alarm (in and out), Push Video, and buzzer.

** For selected models only*

3. HARDWARE OVERVIEW

Note: The functions on the front panel and rear panel may vary, depending on the model you have.

3.1 Package Content

➤ Standard Package

- | | |
|---|--------------------------------------|
| ☐ DVR | ☐ HDD screws |
| ☐ Adapter & power cord | ☐ Quick Start |

➤ Optional Accessories

- | | |
|---|------------------------------------|
| ☐ I/O terminal block | ☐ CD manual |
| ☐ USB Mouse | |

3.2 Front Panel

1) LED Indicators

-  DVR is powered on.
-  The hard disk is reading or recording.
-  An alarm is triggered. *(For selected models only)*
-  Timer recording is on. *(For selected models only)*
-  Under playback status. *(For selected models only)*

2) CH1 ~ 16 / 1 ~ 8 / 1 ~ 4

Press the channel number buttons to select the channel to display.

3)

Press to show the 4 channel display mode.

4) SEQ

Press to display each channel in full screen one by one starting from CH1. When the last channel is displayed, it will repeat from CH1 again. To exit this mode, press “SEQ” again.

5) SLOW

In the playback mode, press to show slow playback.

6) ZOOM

Press to enlarge the picture of selected channel in the FRAME or FIELD recording mode.

7) PLAY

Press to playback the latest recorded data.

8) LIST (Event List Search)

Press to quickly search the recorded files by event types, or select FULL to show all the event logs.

To quickly search the time you want, select “QUICK SEARCH”. For details, please refer to “4.4.2 Event Search” at page 22.

9) ENTER

Press “ENTER” to confirm the setting.

10) MENU

Press “MENU” to enter the main menu.

11) ▲ (|| / PAUSE) / ▼ (■ / STOP) / ◀ (◀◀ / REW) / ▶ (▶▶ / FF)

Press ▲ / ▼ / ◀ / ▶ to move up / down / left / right.

In the playback mode:

Press “▲” to pause playback.

Press “▼” to stop playback.

Press “▶” to fast forward.

Press “◀” to fast rewind.

12) AUDIO (SLOW + ZOOM)

Press “SLOW” + “ZOOM” to select live or playback audio from audio channel 1~4.

 Live audio from audio channel 1~4
(indicated in white).

 Playback audio from audio channel 1~4
(indicated in yellow).

 Audio channel unselected

13) P.T.Z. (⏏ + SEQ)

Press “⏏” + “SEQ” at the same time to enter / exit the PTZ control mode.

14) USB port

There are two USB ports on the front panel, one for connecting your USB mouse for mouse control, and the other one for connecting your USB flash drive for video backup.

Note: It's not allowed to have two USB mice or two USB flash drives connected on the front panel.

Note: For the compatible USB flash drive list, please refer to “APPENDIX 4 COMPATIBLE USB FLASH DRIVE LIST” at page 37.

3.3 Rear Panel

1) VIDEO IN: Connect to the video connector of a camera.

Note: The DVR will automatically detect the video system of the camera, please make sure that the cameras are properly connected to the DVR and power-supplied before the DVR is turned on.

2) AUDIO IN

Connect to the audio connector of a camera if the camera supports audio recording.

Note: To make a video backup with audio, make sure the camera which supports the audio function is connected to the video-in channel and audio-in channel. For example, the audio data from audio CH1 will be recorded with the video data from video CH1.

For 16CH models, the audio CH1 ~ CH4 are corresponding to video CH1 ~ CH4 respectively.

3) AUDIO OUT

Connect to a speaker with 1 mono audio output.

4) HDMI

Connect to the HDMI port of the monitor which supports HDMI video output.

Note: Dual video outputs via both VGA and HDMI ports are supported.

5) VGA

Connect to the VGA port of the monitor which supports VGA video output.

Note: Dual video outputs via both VGA and HDMI ports are supported.

6) IR (For selected models only)

Connect the IR receiver extension line for remote control.

7) eSATA (For selected models only)

This port is used to connect a storage device supporting eSATA interface; for instance, an external hard disk or a disk array.

Note: Please purchase a disk array supporting Linux system to ensure your DVR to work properly.

Note: If the disk array is not connected or detected well, check the mode of your disk array, or do a reset default on your disk array and try again.

8) EXTERNAL I/O *(For selected models only)*

This port is used to connect external devices (such as speed dome cameras or external alarm, etc).

9) LAN

Connect to Internet by LAN cable.

10) DC IN

Connect to the supplied adapter.

11) VIDEO OUT

Connect to a CRT monitor for main monitor output.

12) Power Switch *(For selected models only)*

Switch to “—I” to turn on the power, and “O” to turn off the power.

4. FREQUENTLY-USED FUNCTIONS

4.1 Key Lock / Unlock

To lock or unlock local operation, click  (unlock) or  (lock) on the DVR status bar to change the status to  (lock) or  (unlock).

To unlock local operation, you'll be prompted to enter the user name and password to access.

Note: The default user name and password are both "admin", which is the highest user level.

Note: Different user level has different access privilege for certain DVR functions. Please refer to "4.2 User Level Creation" at page 19.

4.2 User Level Creation

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

To create different user account for different access privilege, click  (SYSTEM)), and select "ACCOUNT" to enter "USER LIST".

SYSTEM		
ACCOUNT TOOLS SYSTEM INFO BACKUP DATA BACKUP LOG REGULAR REPORT	USER LIST	
	USER NAME	LEVEL
	admin	SUPERVISOR
	power	POWER USER
	normal	NORMAL
	guest	GUEST
EXIT	ADD	EDIT DEL

Different user level has different access privilege for certain functions as described below:

	Function	User Level			
		SUPERVISOR	POWER	NORMAL	GUEST
■ DVR status					
	Key lock / unlock	✓	✓	✓	✓
■ Channel status					
	Live audio on / off	✓			
	Playback audio on / off	✓			
	PTZ Control	✓	✓		
■ Quick menu bar					
	Channel Selection	✓	✓	✓	
	Playback	✓	✓		
	Digital Zoom	✓	✓	✓	✓
	Power	✓			

	Function	User Level			
		SUPERVISOR	POWER	NORMAL	GUEST
Main menu					
	Quick Start	✓			
	System	✓			
	Event Information	✓			
	Advanced Config.	✓			
	Schedule Setting	✓			
Playback control					
	Fast Forward	✓	✓		
	Fast Rewind	✓	✓		
	Play / Pause	✓	✓		
	Stop	✓	✓		
	Slow Playback	✓	✓		
	Previous / Next Hour	✓	✓		
	Quick Search	✓	✓		

4.3 PTZ Control

Note: This function is available only for "SUPERVISOR" and "POWER USER". To know more details, please refer to "4.2 User Level Creation" at page 19.

Note: For our brand's HD CCTV motorized camera series, click  might only show specific icons for focal length and focus adjustment. For details, please refer to its own user manual.

In the full view

In the split view, click the channel you want to switch to the full screen mode, and click  to show the PTZ control panel.



	Camera Menu	Click to enter the camera main menu. For details about each camera menu, please refer to its own user manual.
	Enter	Click to confirm your selection / enter the menu.
	Up / Down / Left / Right	Click the arrow keys (▲ / ▼ / ◀ / ▶) to move the camera lens up / down / left / right.
	Iris + / Iris -	These two buttons are designed for the PTZ camera which uses Pelco-D to control. To know the actions after clicking Iris + and Iris -, please refer to the camera's user manual.

	Zoom in / out max	Click to zoom in on the image to the largest / zoom out on the image to its original size.
	Zoom in / out	Click to zoom in / out the image.
	Focus near / far	Click to adjust the focus of the image.
	Auto mode	Click to activate the auto function. Before using it, you need to assign a specific function that will be enabled when “” is clicked. For details, please refer to the user manual of the camera.
	Preset point	Click to enter the PTZ preset point you want to see.
	Auto tracking	Click to start auto tracking when your speed dome camera supports this function.
	Manual Focus	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	Click to automatically adjust the focus of the camera.

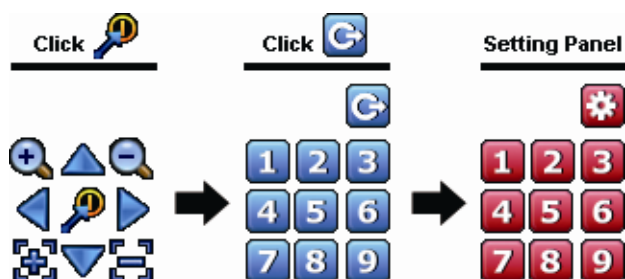
In the split view

Click on the channel status bar to display the panel as follows:

		Up / Down / Left / Right	Click to move your selection up / down / left / right, or change settings.
		Digital zoom in / out	Click to zoom in / out the camera image digitally.
		Focus near / far	Click to adjust the focus of the image.
		Preset point	Click to display the preset point panel for preset point viewing or setting. For details, please refer to the section below.

How to set a preset point:

Step1:



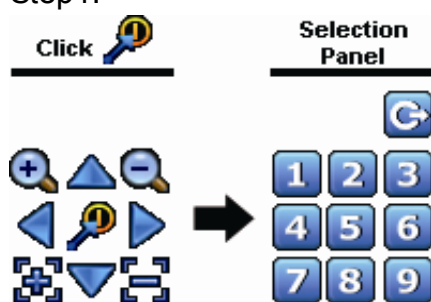
Step2: Click or to the proper ratio you need, and click to move to the point you want to configure as a preset point.

Step3: Click the numbering you want to configure for this point, and wait till you see (command sending) appearing and disappearing on the DVR status bar.

Step4: Repeat from Step1 again to set other points if needed, or click to return to the preset point selection panel.

How to go to a preset point:

Step1:



Step2: Select the numbering within which saves the camera view you want to see, and wait till you see  (command sending) appearing and disappearing on the DVR status bar.

4.4 Playback

Note: This function is *NOT* available for "GUEST". Please refer to "4.2 User Level Creation" at page 19.

Click  on the quick menu bar to display the playback control panel, and click  to play the latest recorded video clip, or click  to enter the search list.



Note: There must be at least 8192 images of recorded data for playback to work properly. If not, the device will stop playback. For example, if the IPS is set to 30, the recording time should be at least 273 seconds (8192 images / 30 IPS) for the playback to work properly.

4.4.1 Playback Control

	Fast Forward	Increase the speed for fast forward. Click once to get 4X speed forward and click twice to get 8X speed, etc., and the maximum speed is 32X.
	Fast Rewind	Increase the speed for fast rewind. Click once to get 4X speed rewind and click twice to get 8X speed, etc., and the maximum speed is 32X.
	Play / Pause	Click to play the latest recorded video clip immediately, and click again to pause. In the pause mode, click  once to get one frame forward, and click  to get one frame rewind.
	Stop	Click to stop the video playback.
	Slow Playback	Click once to get 1/4X speed playback, and click twice to get 1/8X speed playback.
	Previous / Next Hour	Click to jump to the next / previous time interval in an hour, for example, 11:00 ~ 12:00 or 14:00 ~ 15:00, and start playing the earliest event video clip recorded during this whole hour.
	Repeat	Click to set point A and point B in a video clip, and the system will play only the specified range in that clip.
	Backup	Click to open the backup menu for video backup.

4.4.2 Event Search

Click  to quickly search the recorded files by event types, or select FULL to show all the event logs. To quickly search the time you want, select "QUICK SEARCH".

4.4.3 Audio Playback

In the playback mode, click  or  on the channel status bar to play or mute audio recording.

Note: To make a video backup with audio, or play a recording with audio, make sure the camera which supports the audio function is connected to the video-in channel and audio-in channel. For example, the audio data from audio CH1 will be recorded with the video data from video CH1. For 16CH models, the audio CH1 ~ CH4 are corresponding to video CH1 ~ CH4 respectively.

4.5 Video Backup

Note: This function is available for "SUPERVISOR". For details, please refer to "4.2 User Level Creation" at page 19.

Note: Before using the USB flash drive, please use your PC to format the USB flash drive to FAT32 format first. For the list of compatible USB flash drives, please refer to "APPENDIX 4 COMPATIBLE USB FLASH DRIVE LIST" at page 37.

Note: Video backup could be made via a USB flash drive or the Internet. It's **NOT** allowed to connect the hard disk to your PC directly for it may impair the recorded data saved in the hard disk.

To copy video data for video backup, click  (SYSTEM), and select "BACKUP DATA".

SYSTEM		
ACCOUNT	START DATE	2009/NOV/19
TOOLS	START TIME	08:30:21
SYSTEM INFO	END DATE	2009/NOV/19
BACKUP DATA	END TIME	17:59:29
BACKUP LOG	CHANNEL	3 SELECTED
REGULAR REPORT		☐ ALL ☒ CH1 ☒ CH2 ☒ CH3 ☐ CH4 ☐ CH5
	HARD DISK	ALL HDD
	OUTPUT FILE FORMAT	AVI
	TARGET DEVICE	USB DEVICE
	BACKUP	SUBMIT
	REQUIRE SIZE: 554MB	SUBMIT
EXIT AVAILABLE SIZE: 3788.0MB		

Step1: Select the time within which includes the video data you want to backup.

Step2: Select the channel(s) within which includes the video data you want to backup.

Step3: In "OUTPUT FILE FORMAT", select the output video format: DEFAULT / AVI.

- When "DEFAULT" is selected, the footage is saved to ".dv5", and you can only open it with our own video player on PC. For details, please check "4.6 Video Playback on PC (.dv5)".

Note: It's recommended to save the file to the default format for security reasons. Only specific video player supports the default format and not everyone can see the video footage.

- When "AVI" is selected, the footage will be converted to "avi", and you can open it with any media player which supports the "avi" format on PC.

Step4: In "TARGET DEVICE", select "USB DEVICE" for video backup.

Step5: In "REQUIRE SIZE", select "SUBMIT" to know the file size of the selected footage.

Step6: In "BACKUP", select "SUBMIT" to start copying footage to your USB flash drive, and wait till the backup successful message appears.

4.6 Video Playback on PC (.dv5)

For video backup with the format ".dv5", you can only use our own player to play.

Note: It's **NOT** allowed to remove the hard disk installed in the DVR and connect it directly to your PC to check recorded video clips. It might impair the files saved in the hard disk, causing the loss of those files even when the disk is replaced back to the DVR.

To play ".dv5" video on your PC:

Step1: Insert the USB flash drive with recorded data into your PC.

Note: The supported PC operating systems are Windows 8, Windows 7, Windows Vista & Windows XP.

Step2: Find the program "PLAYER.EXE" in the USB flash drive, and double-click it to install.

Note: "PLAYER.EXE" can also be downloaded from www.surveillance-download.com/user/t204.swf.

Step3: Run the program, *VideoPlayer*, and browse to where you save the recorded data.

Step4: Select the file you want to start video playback

4.6.1 Convert the file format to AVI

To convert the video file format to AVI, click "AVI" from the playback panel to start file conversion.

Note: The recorded audio (if any) will be removed when the file format is converted to AVI.

Note: If the footage includes data for multiple channels, click to a specific channel for this function to work properly.



4.7 Digital Zoom



Switch to the channel you want to zoom in, and move to the left side of the screen to show the quick start bar.

Click  to enter the zoom-in mode. In this mode, click and drag the red frame on the bottom left of the screen to move to the place you want to see.



To exit this mode, right-click anywhere on the screen.

Note: You need to exit the zoom mode first to use other DVR functions.

5. REMOTE OPERATION

5.1 Web Browser

You can view the images or operate your DVR with a web browser, for example, Microsoft Internet Explorer.

Note: The supported PC operation systems are Windows 8, Windows 7, Windows Vista & Windows XP.

Note: To use Mozilla Firefox or Google Chrome for remote access, please go to Apple’s official website (<http://www.apple.com>) to download and install QuickTime first.

Note: The illustration below is just for your reference and may be different from what you actually see. Some functions and buttons are for selected models or certain user levels only.

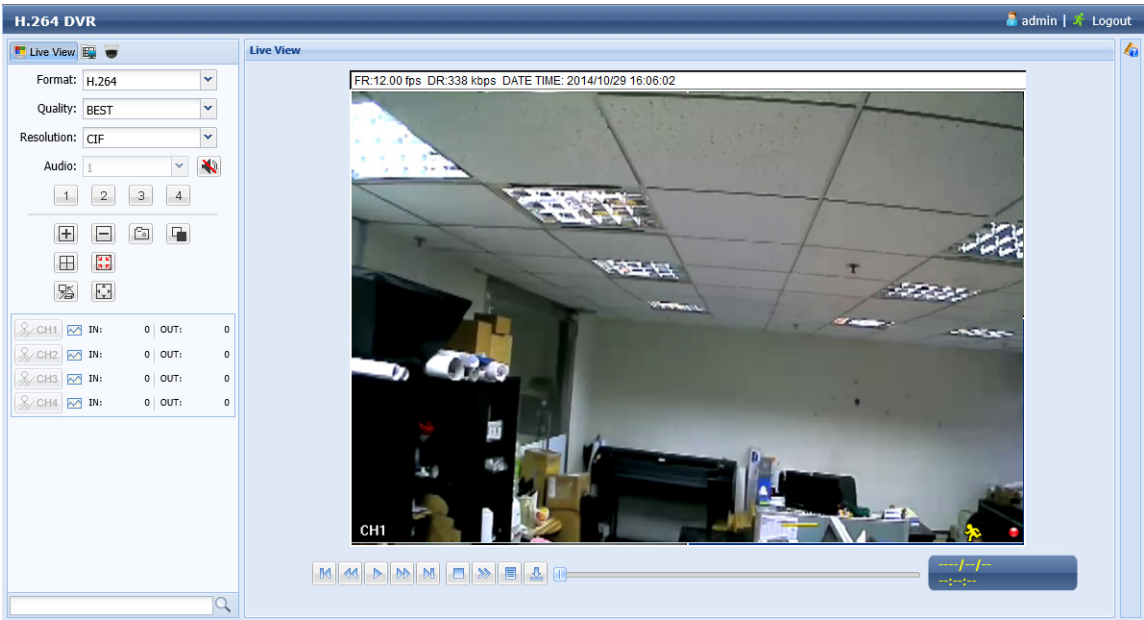
Step 1: Key in the IP address used by this device in the URL address box, such as 60.121.46.236, and press Enter. You will be prompted to enter the user name and password to access the device.

If the port number this device used is NOT 80, you need to key in the port number additionally. The format is *ipaddress:portnum*.

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".

Step 2: Enter the user name and password, and click "OK". You will see a similar screen as the following when the login information is correct.

Note: The default user name and password for remote access are both "admin".



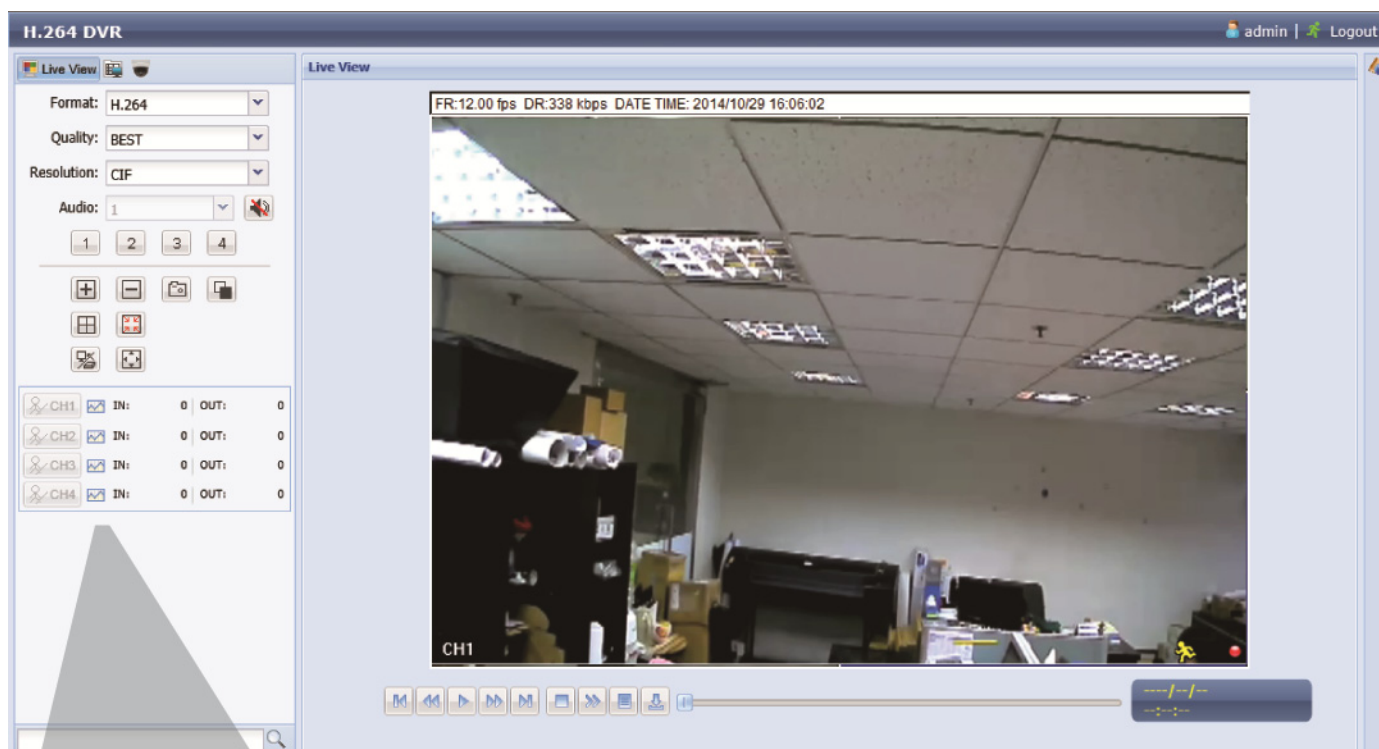
Icon	Description
	Click to go to the live view of the DVR.
	Click to go to the detailed DVR setting.
	Click to enter the PTZ mode. This function is also used for our band’s HD CCTV motorized camera series to adjust its focal length and focus remotely. For details, please refer to “5.1.2 PTZ Panel” at page 28.
Video / Audio Control	
Format	<u>H.264 / QuickTime</u> QuickTime is Apple Inc.’s multimedia software. You need to have QuickTime installed in you operation system first. When “QuickTime” is selected, you will be promoted to enter the user name and password to access the server of the DVR.
Quality	<u>BEST / HIGH / NORMAL / BASIC</u> Select the image quality.
Resolution	<u>4 CIF / CIF</u> Select the image resolution (4CIF: 704*480 / CIF: 352*240)

Icon	Description
Audio	Select the audio channel you want for listening to the live audio. Note: Your camera must support audio recording, and connect to the video channel which supports audio recording and the audio input of the DVR. For details, please refer to "3.3 Rear Panel" at page 16.  means mute. To disable the mute status, click this icon again and select the audio channel you want.
Priority	Quality / Frame rate
Channel Control	
Channel Selection (1 ~ 16 / 1 ~ 8 / 1 ~ 4)	Click one of the number to switch to the channel you want to see in full screen.
 / 	Click to go to the previous / next channel, or change setting.
	Click to take a snapshot of the current view, and save it to the specified path in your PC set in "  " → "General".
 / 	: Click to display each channel one by one, starting from CH1. When the last channel is displayed, it will start from CH1 again. : To exit from this display mode, press any other channel display button.
 /  / 	Click to show 4-cut / 9-cut / 16-cut display.
	Click to enable local desktop display remotely. An individual window will pop up to show the local view. All operations available at the local side could be done independently and remotely in this window.
	Click to switch the display to full screen.
Event Search & Playback	
	Increase the speed for fast rewind. Click once to get 4X speed rewind and click twice to get 8X speed, etc., and the maximum speed is 32X.
	Increase the speed for fast forward. Click once to get 4X speed forward and click twice to get 8X speed, etc., and the maximum speed is 32X.
	Click to play the current video clip.
	Click to pause the video playback.
	Click to stop the video playback.
	Click to play the video clip slowly, once to get 4X slower, twice get 8X slower.
	Click to enter the record list and search and footage you need.
	Click to enter the backup menu and copy the footage you need to your PC. Note: To play the backup file (.avc), go to " -> "General" -> "Configure", and download the player to install.
IVS Panel*	
	This button is enabled only when the IVS mode is enabled. Click to show the detection line.
	Click to enter the IVS statistics page. For details, please refer to "5.1.1 IVS Statistics" at page 27.

* For selected models only

5.1.1 IVS Statistics

Note: This function is for selected models only.



IVS Statistics

IVS Statistics: Event Search Panel

IVS Statistics

Channel: ☒ 1 ☐ 2 ☐ 3 ☐ 4

Event: ☒ Alarm ☐ Motion ☐ Inflow ☐ Outflow

☐ Virtual Fence ☐ Oneway ☐ Human Detection

HDD No.: HDD-0 Date: 2014/11/07 Search

IVS Statistics: List

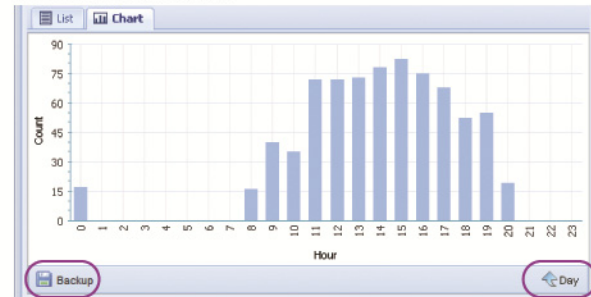
Hour	Count
2014 / 11 / 07 00:00 - 01:00	0
2014 / 11 / 07 01:00 - 02:00	0
2014 / 11 / 07 02:00 - 03:00	0
2014 / 11 / 07 03:00 - 04:00	0
2014 / 11 / 07 04:00 - 05:00	0
2014 / 11 / 07 05:00 - 06:00	0
2014 / 11 / 07 06:00 - 07:00	0
2014 / 11 / 07 07:00 - 08:00	0
2014 / 11 / 07 08:00 - 09:00	0
2014 / 11 / 07 09:00 - 10:00	0

Backup Day

Click to backup the log file in a .dat format which can be opened with Notepad.

Click to switch between the Day / Month / Year view

IVS Statistics: Chart

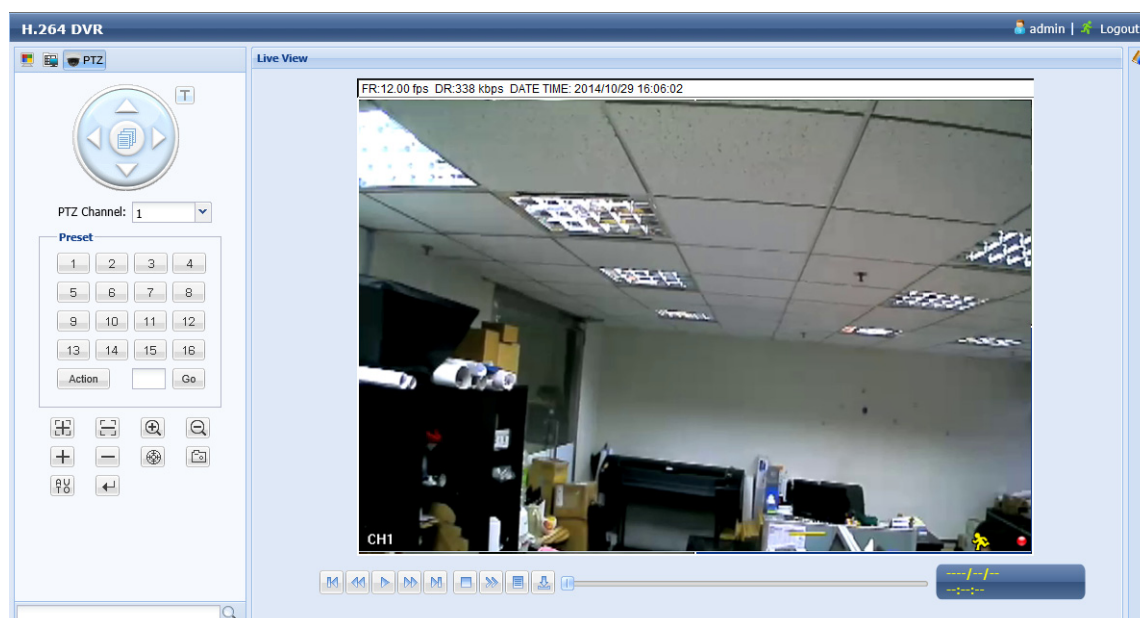


Click to backup the log file in a .dat format which can be opened with Notepad.

Click to switch between the Day / Month / Year view

5.1.2 PTZ Panel

Note: This function is for selected models only.



Function	Description
	Click to enter the camera main menu. For details about each camera menu, please refer to its own user manual.
▲ / ▼ / ◀ / ▶	Click the arrow keys (▲ / ▼ / ◀ / ▶) to move the camera lens up / down / left / right.
PTZ Channel	Select the channel which connects the PTZ camera or our brand's HD CCTV motorized camera you want to control.
Preset	Click on the preset point numbering to which you want your camera to move.
	Click to adjust the focus of the image.
	Click to zoom in / out the image.
	Click to zoom in on the image to the largest / zoom out on the image to its original size.
	Click to start auto tracking when your speed dome camera supports this function.
	Click to take a snapshot of the current view, and save it to the specified path in your PC set in  → "General".
	Click to activate the auto function. Before using it, you need to assign a specific function that will be enabled when "AU TO" is clicked. For details, please refer to the user manual of your PTZ camera or our brand's HD CCTV motorized camera.

5.2 Mobile Devices

Note: For more details about mobile surveillance via your mobile device, download the instructions of EagleEyes installation and configuration from www.surveillance-download.com/user/eagleeyes_quick.pdf.

EagleEyes is a mobile phone program used with our surveillance system for remote surveillance. It has several advantages:

- It's free (Except *EagleEyes Plus* for iPhone, *EagleEyes Plus+* for Android, and *EagleEyesHD Plus* for iPad).
- It's compatible with several popular mobile platforms, such as iOS and Android.

5.2.1 Prerequisites

Before installing EagleEyes to your mobile device for remote surveillance, make sure you have checked the following:

- ✓ Your mobile platform is iOS or Android.
- ✓ Mobile Internet services are subscribed and available to use for your mobile device.

Note: You might be charged for Internet access via the wireless or 3G network. For the Internet access rate details, please check with your local network operator or service provider.

- ✓ You have noted down the IP address, port number, user name and password used to access your network camera from Internet.

5.2.2 Where to download

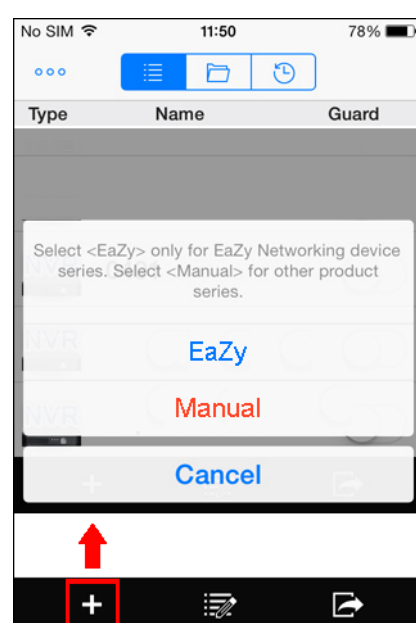
- For iOS users, please go to "App Store", and search "EagleEyes" to download.
- For Android users, please go to "Play Store", and search "EagleEyes" to download.

When the download is completed, *EagleEyes* will be installed automatically to the location where all applications are saved in your phone by default, or where you specify.

5.2.3 Setup

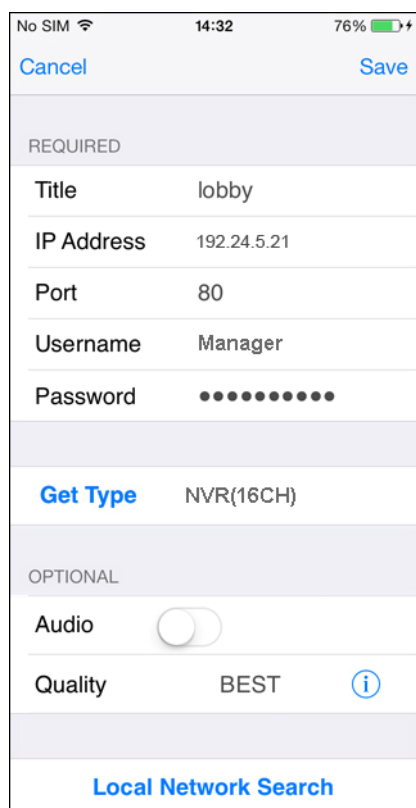
Step1: Open EagleEyes to go to the address book.

Step2: Then, click "+", and select "Manual" to go to the setting page.



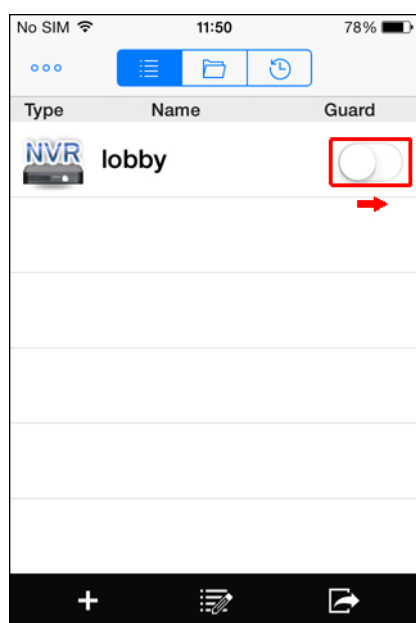
Step3: In the setting page, enter all the information needed to access this device in the “REQUIRED” column, and click “Get Type” to examine if the information you entered is correct. The device type will be detected properly.

Step4: (Optional) Configure the settings in the “OPTIONAL” column as needed.



The screenshot shows a mobile app interface for configuring a device. At the top, there are status bars for 'No SIM', signal strength, time '14:32', and battery '76%'. Below the status bars are 'Cancel' and 'Save' buttons. The main content is divided into two sections: 'REQUIRED' and 'OPTIONAL'. The 'REQUIRED' section contains fields for 'Title' (lobby), 'IP Address' (192.24.5.21), 'Port' (80), 'Username' (Manager), and 'Password' (masked with dots). Below these fields is a 'Get Type' button, which has detected the device as 'NVR(16CH)'. The 'OPTIONAL' section contains an 'Audio' toggle switch (currently off) and a 'Quality' dropdown set to 'BEST' with an information icon. At the bottom is a 'Local Network Search' button.

Step5: Click “Save” to return to the address book. Enable “Guard” to receive Push Video / Push Status.



The screenshot shows the 'Address Book' screen in the mobile app. At the top, there are status bars for 'No SIM', signal strength, time '11:50', and battery '78%'. Below the status bars are three icons: a list, a folder, and a clock. The main content is a table with columns 'Type', 'Name', and 'Guard'. The first row shows 'NVR' as the type, 'lobby' as the name, and a toggle switch for 'Guard' which is currently turned on. A red box highlights the 'Guard' toggle, and a red arrow points to it. Below the table are several empty rows. At the bottom is a navigation bar with three icons: a plus sign, a list, and a share icon.

Step6: Click on the item you just added in the address book to access and check the live view.

APPENDIX 1 PUSH VIDEO CONFIGURATION

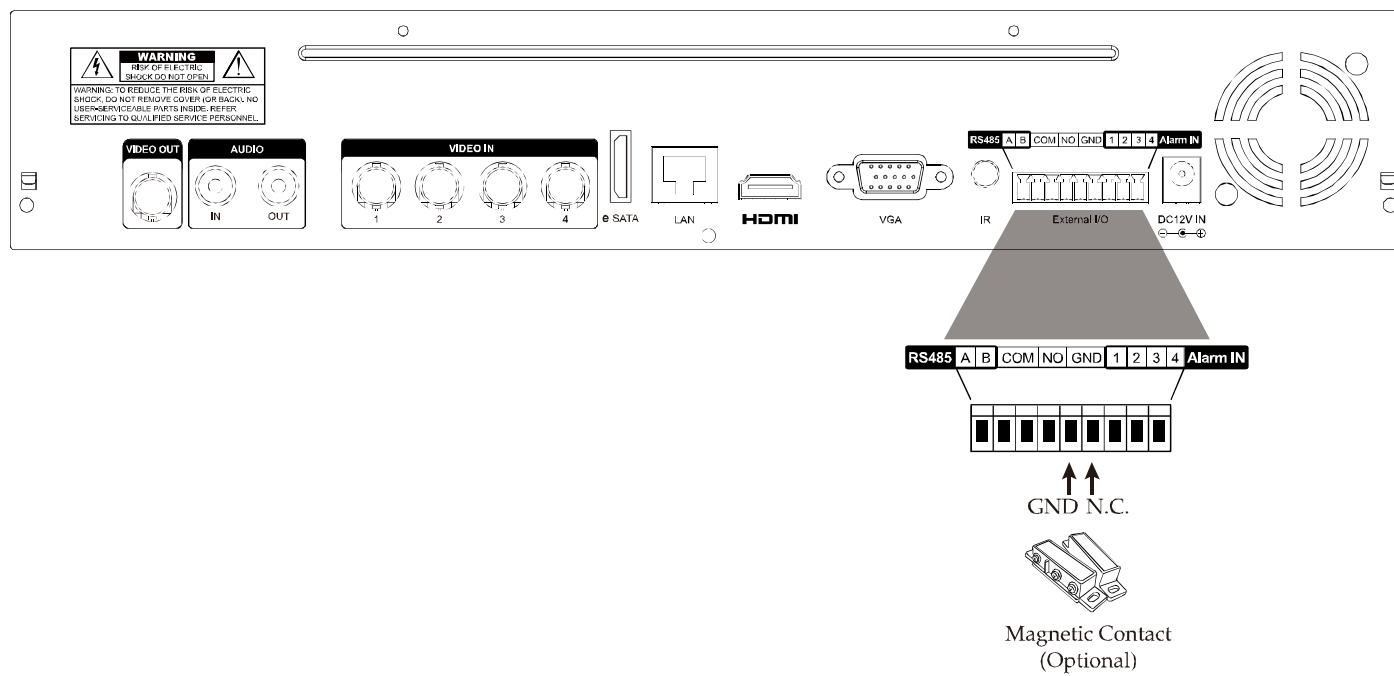
This DVR supports sending instant event notifications to your iOS and Android mobile devices for an alarm event (Push Video).

Note: This function is for selected models only.

A1.1 Alarm Sensor Connection

Connect the alarm sensor, such as magnetic contacts, to the alarm-in port on the DVR rear panel. Alarm-in 1 corresponds to video channel 1, alarm-in 2 corresponds to video channel 2, and so on.

Note: The voltage restriction for alarm-in device connection is under DC24V 1A.



A1.2 Configuration

Before configuring Push Video, make sure:

1. The DVR system is set up as described in “1. CONNECTION AND SETUP” at page 1.
2. The DVR is connected to Internet.
3. You've installed the app, EagleEyes, on your iOS or Android mobile devices.
For details, please refer to “APPENDIX 2 MOBILE SURVEILLANCE VIA EAGLEEYES” at page 33.

Step1: Right click to show the main menu.

Go to  (ADVANCED CONFIG.) → "NOTIFY". In PUSH VIDEO, select the alarm device you want, and configure the alarm type.

ADVANCED CONFIG				
CANERA DETECTION ALERT NETWORK DISPLAY RECORD DEVICES DCCS IVS NOTIFY MULTICASTING	PUSH VIDEO	PUSH STATUS	MESSAGE MAIL	VIDEO MAIL
	RESET ALL GUARD CONNECTION			
	SUBMIT			
	GUARD TRIGGER BY			
	CH01	ALARM OFF / INTERNAL ALARM	▼	CH1
	CH02	ALARM OFF	▼	CH2
	CH03	ALARM N.O.	▼	office
	CH04	ALARM OFF	▼	CH4
	ALARM IN 1 ▼			
	EXIT			

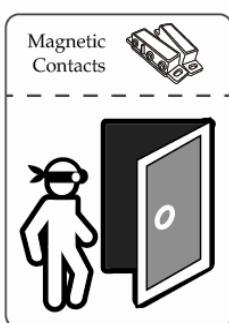
Step2: Open EagleEyes, and add this DVR to the EagleEyes address book.

Step3: Enable Push Video as described below, and try to trigger your sensor to see if you can receive Push Video successfully.

1 Enable Push Video.



2 Trigger the input alarm.



3 Receive an event notification and see video.



APPENDIX 2 MOBILE SURVEILLANCE VIA EAGLEEYES

EagleEyes is a mobile phone program used with our surveillance system for remote surveillance. It has several advantages:

- It's free (Except *EagleEyes Plus* for iPhone, *EagleEyes Plus+* for Android, and *EagleEyesHD Plus* for iPad).
- It's compatible with several popular mobile platforms, such as iOS and Android.

A2.1 Prerequisites

Before installing *EagleEyes* to your mobile phone for remote surveillance, make sure you have checked the following:

- ✓ Your mobile platform is iOS or Android.
- ✓ Mobile Internet services are subscribed and available to use for your mobile phone.

Note: You might be charged for Internet access via wireless or 3G networks. For the Internet access rate details, please check with your local network operator or service provider.

- ✓ You have noted down the IP address, port number, user name and password used to access your network camera from Internet.

A2.2 Where to download

- For iOS users, please go to "App Store", and search "EagleEyes" to download.
- For Android users, please go to "Play Store", and search "EagleEyes" to download.

When the download is completed, *EagleEyes* will be installed automatically to the location where all applications are saved in your phone by default, or where you specify.

APPENDIX 3 SET PUSH VIDEO

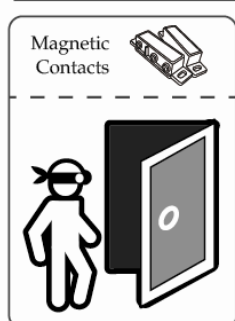
This DVR series supports instant event notifications to your iOS / Android mobile device with our self-developed program, “EagleEyes”, installed. When a man is detected by an external alarm device, the DVR will immediately receive alarm signals and send to your iOS / Android mobile device.

Note: iOS and Android are the trademarks or registered trademarks of their respective holders.

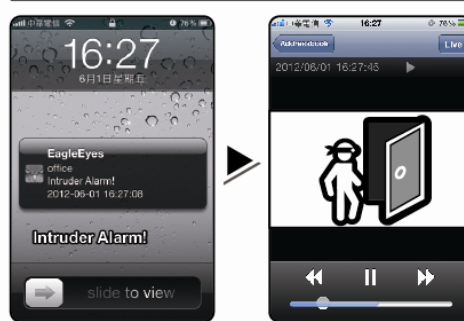
1 Enable Push Video.



2 Trigger the input alarm.



3 Receive an event notification and see video.



A3.1 Prerequisite

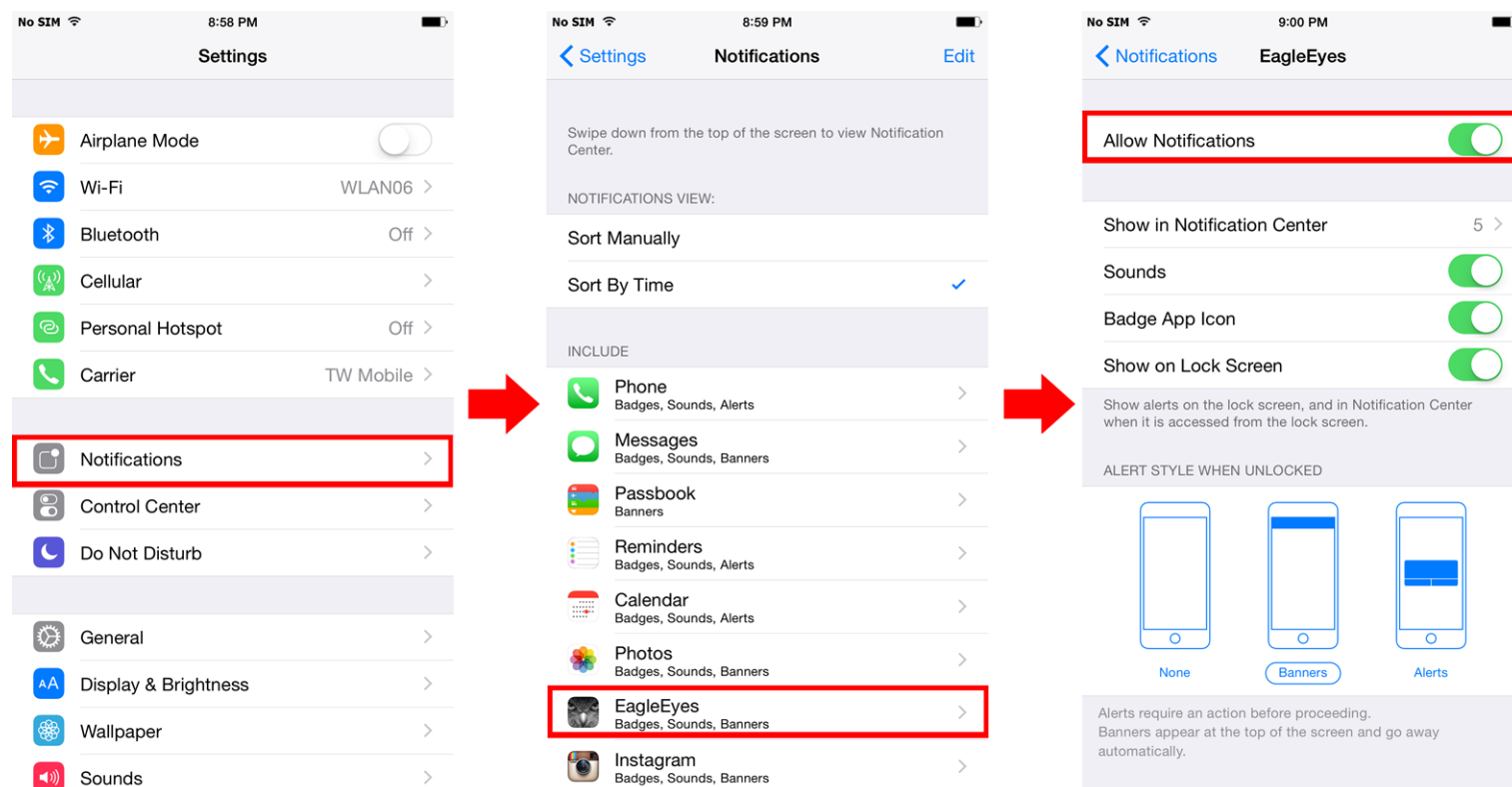
Before setting this function, make sure you have checked the following:

- ✓ You have an iOS or Android mobile device with our self-developed program, “EagleEyes”, installed. For details, please refer to the previous chapter.
- ✓ An external alarm device is connected to the external I/O ports on the rear panel. Make sure a camera is also connected to record for alarm occurrences. To know which video channel corresponds to which alarm pin, please refer to “APPENDIX 1 PUSH VIDEO CONFIGURATION” at page 31.
- ✓ The event record function of your DVR is not disabled.
- ✓ The motion detection function of your DVR is not disabled.
- ✓ Your DVR is connected to Internet. For details, please refer to http://www.surveillance-download.com/user/network_setup/network_setup_recorder.pdf.

A3.2 Enable Push Video

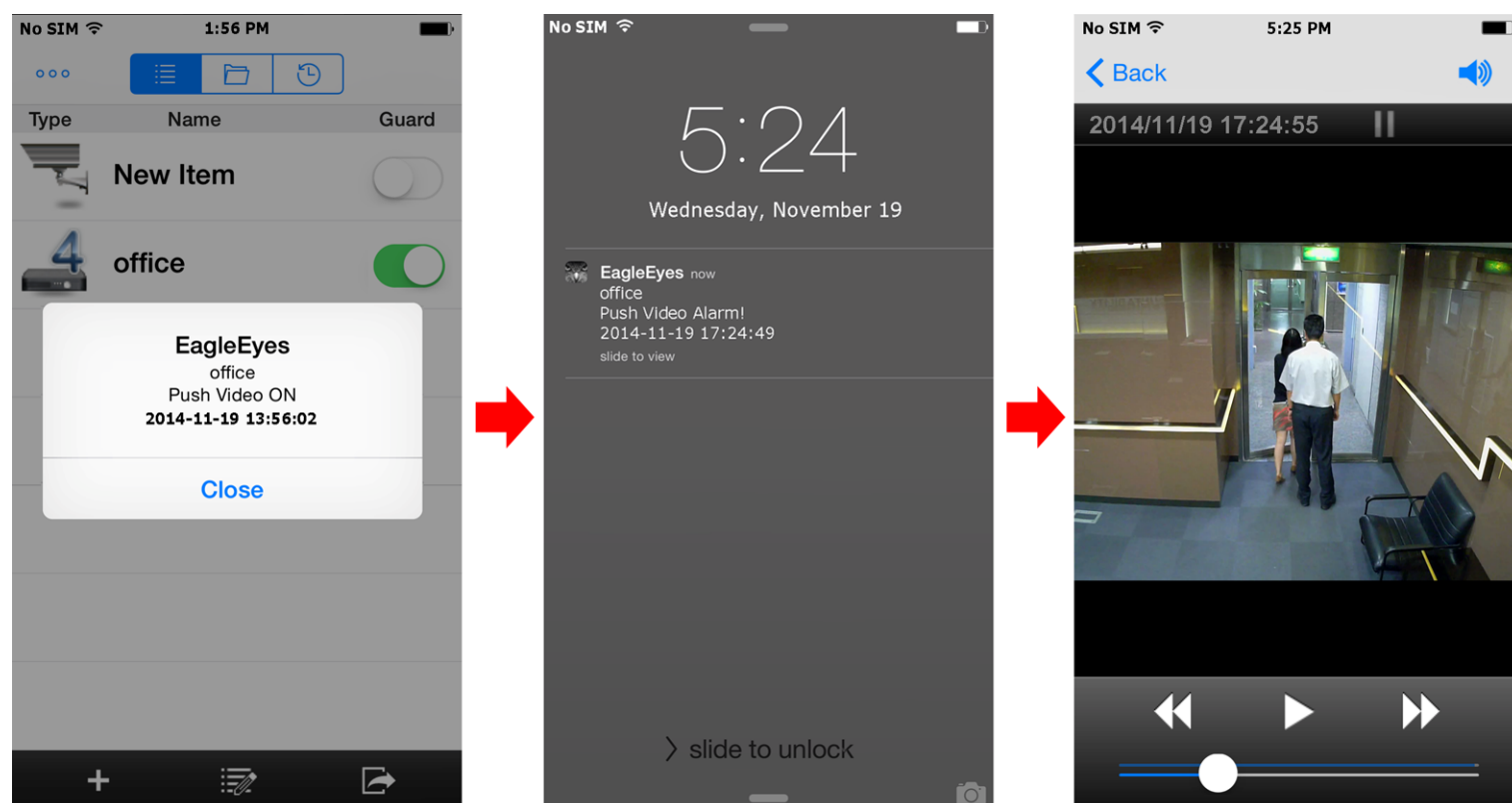
A3.2.1 From iOS Mobile Device (iPhone / iPad)

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



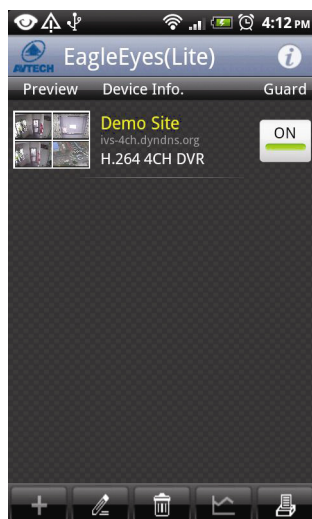
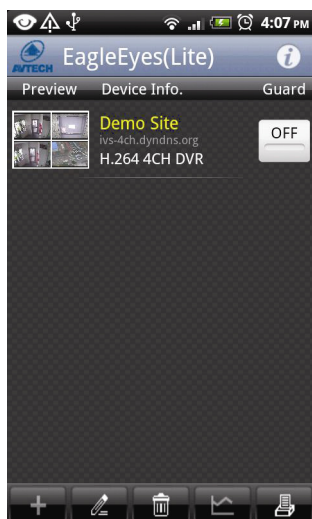
Step2: Open “EagleEyes”, and switch “Guard” to “ON”. You’ll receive the message indicating that Push Video is on.

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.



A3.2.2 From Android Mobile Device

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



APPENDIX 4 COMPATIBLE USB FLASH DRIVE LIST

Please upgrade the firmware of the DVR to the latest version to ensure the accuracy of the following table. If the USB flash drive is not supported by the DVR, you will see  on the screen.

Note: Please use your PC to format the USB flash drive as "FAT32".

Note: You can backup up to 2GB video data for one-time USB backup. To backup more data, please set the time & channel(s) you want, and start USB backup again.

MANUFACTURER	MODEL	CAPACITY
Transcend	JFV35	4GB
	JFV30	8GB
Kingston	DataTraveler	1GB
PQI	U172P	4GB
Apacer	AH320	2GB
	AH320A	8GB
	AH220	1GB
	AH320	4GB
A-data	RB-18	1GB
Sandisk	Cruzer Micro	2GB
	Cruzer Micro	4GB
	Cruzer4-pk	2GB
Netac	U208	1GB
MSI	F200	4GB
SONY	Micro Vault Tiny 2GB	2GB
	Micro Vault Tiny 4GB	4GB
	Micro Vault Tiny	1GB

APPENDIX 5 COMPATIBLE SATA HDD LIST

Please upgrade the firmware of the device to the latest version to ensure the accuracy of the following table.

Note: It's necessary to install a hard disk first before firmware upgrade to ensure the upgrade process works properly.

Note: To use a green hard disk, use ONLY the hard disk designed especially for surveillance to ensure the device works properly.

Seagate*			
MODEL	CAPACITY	MODEL	CAPACITY
Pipeline HD ST3500312CS	500G	ST2000DM001	2TB
Pipeline HD ST500VT000	500G	ST2000VX004	2TB
Pipeline HD ST1000VM002	1TB	ST3000VM002	3TB
Pipeline HD ST1000VM002	1TB	ST3000VX004	3TB
ST31000525SV	1TB	ST3000VX000	3TB
ST31000340AS	1TB	ST4000VM000	4TB
ST1000VX002	1TB	ST4000VX002	4TB
ST2000VX000	2TB		
WD			
MODEL	CAPACITY	MODEL	CAPACITY
WD10PURX	1TB	WD30PURX	3TB
WD20PURX	2TB	WD30EURX	3TB
WD20EURS	2TB	WD30EFRX	3TB
WD20EURX	2TB	WD40PURX	4TB
WD20EFRX	2TB	WD40EURX	4TB
WD2002FAEX	2TB	WD60EURX	6TB
TOSHIBA			
MODEL	CAPACITY	MODEL	CAPACITY
DT01ACA050	500GB	DT01ABA200V	2TB
DT01ABA050V	500GB	DT01ACA200	2TB
DT01ABA100V	1TB	MD03ACA300V	3TB
DT01ACA100	1TB	DT01ACA300	3TB
MD03ACA200V	2TB	MD03ACA400V	4TB

* To know more details about SRS and its related support and service, please contact your local Seagate representative directly.

APPENDIX 6 MAIN MENU STRUCTURE

	QUICK START	GENERAL	CHANNEL TITLE
			EVENT STATUS
			PLAYBACK STATUS DISPLAY
			DATE DISPLAY
			DCCS DISPLAY
			MOUSE SENSITIVITY
			AUDIO GAIN
			RECORD CONFIG
		TIME SETUP	DATE
			TIME
			NTP SERVER
			FORMAT
			SYNC PERIOD
			GMT
		DAYLIGHT	
		EaZy*	
	SYSTEM	ACCOUNT	
		TOOLS	LANGUAGE
			UPGRADE
			NETWORK UPGRADE
			BACKUP CONFIG
			RESTORE CONFIG
		SYSTEM INFO	BAUD RATE
			HOST ID
			R.E.T.R.
			AUTO KEY LOCK(S)
			CLEAR HDD
			RESET DEFAULT
			REMOTE CONTROL ID
			SERIAL TYPE
			VIDEO FORMAT
			VERSION
		BACKUP DATA	
		BACKUP LOG	
		REGULAR REPORT	
	EVENT INFORMATION	QUICK SEARCH	
		EVENT SEARCH	
		HDD INFO	
		EVENT LOG	
	ADVANCED CONFIG	CAMERA	BRIGHTNESS
			CONTRAST
			SATURATION
			HUE
			COV.
			REC
			TIME STAMP DISPLAY
			CHANNEL TITLE
			REC AUDIO
		DETECTION	LS
			SS
			TS
			MOTION
			ALARM
			AREA
		ALERT	EXT. ALERT
			INT. BUZZER
			KEY BUZZER
			VLOSS BUZZER
			MOTION BUZZER
			ALARM BUZZER
			HDD BUZZER
			ALARM DURATION (SEC)
			HDD NEARLY FULL (GB)
			HDD OVERHEAT ALERT (°C)

		NETWORK	WAN
			E-MAIL
			DDNS
			PROTOCOL
			EaZy
		DISPLAY	FULL SCREEN DURATION
			QUAD SCREEN DURATION*
			DISPLAY COVERT
			HDD DISPLAY MODE
			DISPLAY OUTPUT
		RECORD	COVERT UNLOCK IN SUPERVISOR MODE
			MANUAL RECORD
			EVENT RECORD
			TIMER RECORD
			PRE-ALARM RECORD
			OVERWRITE
			KEEP DATA LIMIT (DAYS)
			RECORD CONFIG
			SUBSTREAM RESOLUTION
		DEVICES*	
		DCCS	
		IVS*	
		NOTIFY	PUSH VIDEO*
			PUSH STATUS
			MESSAGE MAIL
			VIDEO MAIL
			VIDEO FTP
	SCHEDULE SETTING	RECORD	
		DETECTION	
		ALARM IN	
		ALARM OUT	
		PUSH VIDEO	
		BUZZER	

*For selected models only