H.265 XVR SERIES

USER MANUAL

Please read instructions thoroughly before operation and retain it for future reference. For the actual display & operation, please refer to your device in hand.



software (CMS Lite)

z4017av_3017_2017_d2017a_av_1017_a_z1009_d1009_av_z1005_d1005_av_manual_V1.3

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

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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. Please write to <u>marketing@avtech.com.tw</u> to get the files.

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1.1 Package Content

۶	Standard Package	е
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	□ HDD screws
□ Adapter & power cord	□ Quick Start
> Optional Accessories	

□ USB Mouse

□ IR Remote Controller

1.2 Front Panel

Note: The functions on the front panel may vary, depending on the mode you have.

1) LED Indicators

The hard disk is reading or recording.

An alarm is triggered.

2) USB port(s)

There might be one or two USB ports on the front panel for connecting your USB mouse for mouse control and / or your USB flash drive for video backup.

Note: It's not allowed to have two USB mice or two USB flash drives connected to one recorder.

- **Note:** For 8CH and 4CH models which have one USB port on the front panel and two USB ports on the rear panel, the upper USB port on the rear panel will be disabled when the USB port on the front panel is used, and vice versa.
- **Note:** For the compatible list of USB flash drives, please refer to "APPENDIX 3 COMPATIBLE USB FLASH DRIVE LIST" at page 64.

1.3 Rear Panel

Note: The functions on the rear panel may vary, depending on the mode you have.

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 recorder and power-supplied before the recorder is turned on.

2) VIDEO OUT

Connect to a CRT monitor for main or spot monitor output.

3) 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 \sim CH2 are corresponding to video CH1 \sim CH2 respectively.

4) <u>AUDIO OUT</u> Connect to a speaker for audio transmission.

5) <u>HDMI</u>

Connect to the HDMI port of the monitor which supports HDMI video output for main or spot monitor output.

6) <u>VGA</u>

Connect to the VGA port of the monitor which supports VGA video output for main display or spot monitor output.

7) External I/O ports

These ports are used to connect external I/O devices, such as magnetic contacts or buzzers (alarm in / out), or external control devices, such as other brand's speed dome camera or keyboard controller (RS485).

8) <u>LAN</u>

This port is used to connect your device to Internet.

9) USB ports

There might be two USB ports on the rear panel for connecting your USB mouse for mouse control and your USB flash drive for video backup.

Note: It's not allowed to have two USB mice or two USB flash drives connected to one recorder.

- **Note:** For 8CH and 4CH models which have one USB port on the front panel and two USB ports on the rear panel, the upper USB port on the rear panel will be disabled when the USB port on the front panel is used, and vice versa.
- **Note:** For the compatible list of USB flash drives, please refer to "APPENDIX 3 COMPATIBLE USB FLASH DRIVE LIST" at page 64.
 - 10) Power jack

Connect to the supplied adapter.

11) Reserved hole for eSATA interface

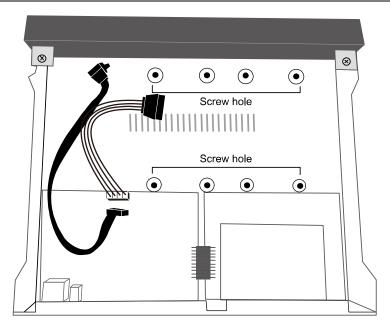
For models which support adding an eSATA interface with the optional SATA-to-eSATA cable, there's a reserved hole on the rear panel.

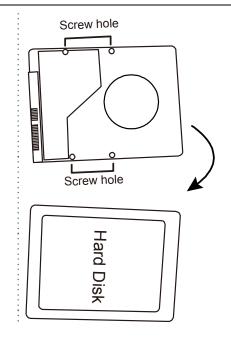
Please check "2.1 Hard Disk Installation" at page 3 to know where it is and how to add the interface for storage expansion.

2. CONNECTION

2.1 Hard Disk Installation

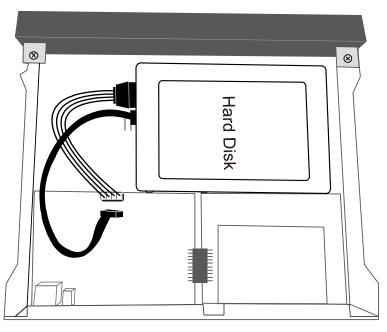
- **Note:** The illustrations below are using a 4CH model as an example. The methods of how to install a hard disk are the same for all models.
- **Note:** It's necessary to install a hard disk first before firmware upgrade to ensure the upgrade process works properly.
- Step1: Remove the top cover, and find where to install a hard disk on the recorder.
- Step2: Get a compatible hard disk. With the PCB side facing down, find the screw holes on the recorder base, and place the hard disk in the recorder.
- **Note:** To use a green hard disk, use **ONLY** the hard disk designed especially for surveillance to ensure the device works properly.





Step3: Connect the data bus and power cable for the hard disk.

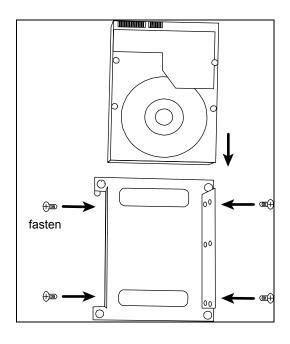
Step4: Align the screw holes on the base and the hard disk. Then, fasten the hard disk o the base with the supplied screws from the bottom side of the recorder.



- Step5: Replace the top cover and fasten the screws you loosened in Step1.
- Step6: Remove the protective film on the bottom of the recorder if any to ensure the heat dissipation can work normally.

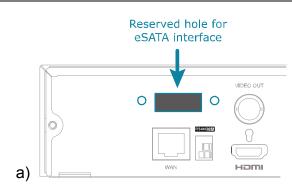
Install a third hard disk (optional)

- Step1: Check the specifications of your recorder and see if it supports this feature. If yes, find the hard disk bracket as illustrated on the right and remove it.
- Step2: Get a compatible hard disk. With the PCB side facing up, fasten the hard disk to the bracket as illustrated on the right.
- Step3: Reinstall the bracket with the hard disk installed back to your recorder.
- Step4: Connect the data bus and power cable for the hard disk.



Add eSATA interface with optional SATA-to-eSATA cable

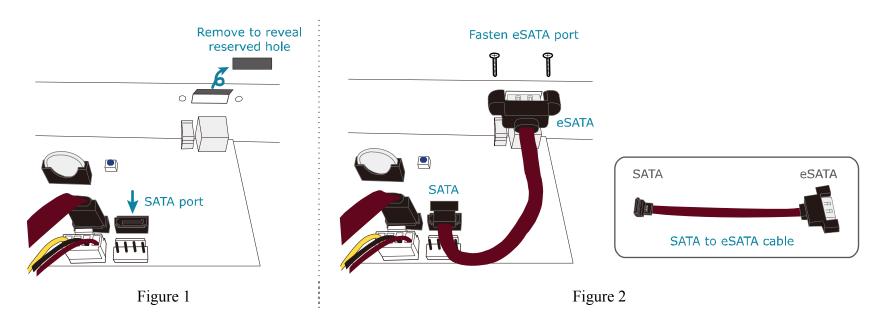
- **Note:** The illustrations below are using a 16CH model as an example. The methods of how to install the cable are the same for all models which support this feature.
- Step1: Check the specifications of your recorder and see if it supports this feature. If yes, find the reserved hole on the rear panel of your recorder as illustrated on the right.
- Step2: Remove the top cover of the recorder to reveal its main board. Remove the thin piece of metal that block the reserved hole. Then, remove the SATA cable on the board.



Note: It will consume one SATA port to add an eSATA interface on the mainboard of your recorder, which means you'll lose one hard disk which can be **installed** inside your recorder.

Step3: Get a SATA-to-eSATA cable and connect it to the board as illustrated below.

Note: The SATA-to-eSATA cable is optional and need to purchase separately.



2.2 Hard Disk Mounting

Power on your recorder and wait till the initialization is completed. Then, check the hard disk indicators on the front panel to make sure each hard disk installed is detected.

Right click the mouse to exit from the full screen mode. Click **MENU** \rightarrow **STORAGE** to see if all hard disks you inserted are detected, and click \square one by one to mount them. Wait till the hard disk is mounted and the status shows **READY**. When you're prompted to clear the hard disk, choose **YES**.

2.3 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.

2.3.1 HD CCTV camera & our brand's speed dome camera

Step1: Connect the coaxial cable to the recorder.

Step2: Get a regulated adapter to connect the camera and power it on.

2.3.2 Other brand's speed dome camera

Note: The recorder must support RS485 connection to connect a speed dome camera. Please check the specifications of your recorder for details.

Step1: Connect the coaxial cable to the recorder.

- Step2: Find where the connectors of RS485-A and RS485-B are located on the recorder rear panel, and follow the instructions of your camera manual to connect to the recorder. Then, power on the camera.
- Step3: On the recorder side, right click to show the main menu, and go to **MENU** \rightarrow **PERIPHERAL** \rightarrow **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.
 - c) Select the protocol to P-P, P-D, S-T or S-E.

Note: P-P and P-D are protocols used Pelco, and S-T and S-E are protocols used by Samsung.

d) Set the baud rate to the value the same as the one set in the camera.

e) Set the interface to **RS485**.

LOCAL JOYSTICK				DE	VICES					DEVICES											
DEVICES	CHANNEL TITLE	DEVICE		ID	PROTOCO	RATE		INTERFAC	E												
	CH1	PTZ	\sim	1	P-P	\sim	9600	\sim	RS485	\sim											
	CH2	PTZ	\sim	0	NORMAL	\sim	2400	\sim	COAXIAL	\sim											
	CH3	PTZ	\sim	0	NORMAL	\sim	2400	\sim	COAXIAL	\sim											
	CH4	PTZ	\sim	0	NORMAL	\sim	2400	\sim	COAXIAL	\sim											

Note:	Check	the	specifications	of	your	recorder	and	see	if	your	recorder	supports	IP	camera
	connec	tion.	1											

- Step1: Prepare a switch / router, and connect the recorder and the IP camera to the router with RJ45 network cables.
- Step2: Make sure your camera supports DHCP function to allow the connected router to assign an IP address to the camera.

If your camera doesn't support this function, please check its user manual to know how to manually change the IP address of your camera and make sure its IP address is in the same network segment as the one your router uses.

- Step3: Power on the camera.
- Step4: On the recorder's live view, choose MENU → CAMERA → CONNECTION to go to the setting page. For the channel to which you want to connect the IP camera, change the interface from COAXIAL to IPCAM.

CONNECTION													
CHANNEL TITLE	INTERFAC	Έ	EDIT		URI	PORT	DEVICE TYPE	VENDOR	MODEL	STREAM PROTOCOL	METHOD	PATH1	PATH2
CH1	IPCAM	\sim	1		192.168.1.11	88	IPCAM	AVTECH		RTP-Unicast	TCP		
CH2	IPCAM	\sim	Ø +										
CH3	COAXIAL	\sim	Ø +										
CH4	COAXIAL	\sim	Ø +										
												IP SEA	ARCH

Step5: Choose **IP SEARCH** to go to the **IP SEARCH** page directly and start searching the connected IP cameras.

You'll see the list of every connected IP camera with its connection status to this device and MAC address. Click \Box to assign the camera to the channel automatically and choose **ADD** to complete.

					IP SE	ARCH				
	ASSIGN	EDIT	DEVICE TYPE	IP	NETMASK	GATEWAY	PRIMARY DNS	PORT	MAC	VENDOR
V	CH2		IPCAM	192.168.1.12	255.255.255.0	192.168.1.1	8.8.8.8	88	00:0E:53:31:06:E5	AVTECH
			IPCAM	192.168.1.12	255.255.255.0	0.0.0.0	8.8.8.8	88	00:0E:53:31:06:E5	ONVIF
			IPCAM	192.168.1.13	255.255.255.0	192.168.1.1	8.8.8.8	88	00:0E:53:31:15:D1	AVTECH
			IPCAM	192.168.1.13	255.255.255.0	0.0.0.0	8.8.8	88	00:0E:53:31:15:D1	ONVIF
										
							REFRESH ADD			

3. FOR INITIAL USE

For the first time to power on this device, you might be prompted to:

- Go through the setup wizard
- Clear hard disk
- Change default user name and password

3.1 Setup Wizard

The setup wizard is prompted to guide you finishing the most common settings you might need to do.

Note: It's okay to skip the wizard. You can configure the following settings later in their respective menus.



Select **NEXT** to go to the next step.

	SETUP WIZARD			
SKIP		PREV	NEXT	

Name the device. If you don't want to name the device, just skip to the next step.

Note: To name the device later, please go to **MAINTAIN** → **SYSTEM**.

SETUP WIZARD										
USER NAME office_hd										
PASSWORD office145										
CONFIRM PASSWORD office145										
PLEASE INPUT THE ADMINISTRATOR'S USER NAME AND PASSWORD.										
SKIP	PREV	NEXT								

Change the default user name and password. If you don't change the user name and password here, you're not able to go to the next step. This step is compulsory.

Note: To change or edit user name and passwords, please go to **SYSTEM** \rightarrow **ACCOUNT** \rightarrow **USER LIST**.

	SETUP WIZARD					
DATE	DATE 2015/MAR/05					
TIME	TIME 14:33:46					
FORMAT		Y/M/D 🔻				
GMT		GMT+08:00 ▼				
SKIP		PREV	NEXT			

Set the date and time.

If you don't want to set the date and time now, just skip to the next step. However, it's necessary to keep the date and time right to ensure the accuracy of the recorded data.

Note:	To set the	date and	time	later,	please	go	to	MENU	\rightarrow	TIME.
-------	------------	----------	------	--------	--------	----	----	------	---------------	-------

	SETUP WIZARD			
NTP SERVER		Pool.r	ntp.org	
SYNC PERIOD		OFF		▼
SKIP		PREV	NEXT	

Configure if you want to connect this device to an NTP server to get the right time online.

Note:	To set the	date and	time	later,	please	go t	:0 MENU \rightarrow	TIME.
-------	------------	----------	------	--------	--------	------	-----------------------	-------

SETUP WIZARD			
NETWORK TYPE	STATIC		▼
IP	192.16	8.1.10	
GATEWAY	192.16	58.1.1	
NETMASK	255.25	55.255.0	
PRIMARY DNS	8.8.8.8	3	
secondary dns	168.95	5.1.1	
PORT	80		
			_
SKIP	PREV	NEXT	

Configure network setup by using the traditional method. For details, please download www.surveillance-download.com/user/network_setup/network_setup recorder.pdf.

Note:	То	configure	network	setup	by	using	the	traditional	method	later,	please	go	to	MENU	\rightarrow
	NE	TWORK.													

SET	UP WIZARD
SMTP SERVER	Smtp.gmail.com
PORT	465
MAIL FROM	manager@gmail.com
SSL ENCRYPTION	ON
VERIFY PASSWORD	ON
USER NAME	manager@gmail.com
PASSWORD	•••••
SKIP	PREV NEXT

Configure event notifications by email.

Note:	To configure ema	il notifications l	later, please	go to N	1ENU $ ightarrow$	NETWORK	-> E-MAIL
-------	------------------	--------------------	---------------	---------	-------------------	---------	-----------

SETUP WIZARD			
DDNS	ON		
SYSTEM NAME	Eagleey	yes	▼
HOST NAME	MAC00	0E533A3[)
E-MAIL			
CURRENT HOST ADDRESS			
MAC000E533A3D4A.ddns.eagleeyes.tw			
SKIP	PREV	NEXT	

Enable DDNS if needed.

Note:	To enable the	DDNS later, ple	ase go to MENU	\rightarrow NETWORK \rightarrow DDNS.
-------	---------------	-----------------	-----------------------	---

3.2 Mount / Unmount Hard Disk

Power on your recorder and wait till the initialization is completed. Then, check the hard disk indicators on the front panel to make sure each hard disk installed is detected.

Right click the mouse to exit from the full screen mode. Click **MENU** \rightarrow **STORAGE** to see if all hard disks you inserted are detected, and click \square one by one to mount them. Wait till the hard disk is mounted and the status shows **READY**. When you're prompted to clear the hard disk, choose **YES**.

To unmount the hard disk, click from to unmount, and the status will turn from **READY** to **INACTIVE**.

	STORAGE										
HDD NEARLY	HDD NEARLY FULL (GB) 5 🗸										
HDD OVERHI	EAT ALERT (°	C)						70		\sim	
OVERWRITE								ON			
KEEP DATA L	imit(days)							OFF		\sim	
TEMPERATUR	e to enable	E FAN						30		\sim	
REMINDER W	HEN FORMA	ATTING HDD						OFF			
	ID	TYPE	STATUS	SIZE	TEMP.	SERIAL NUMBER	FREE SIZE	FORMAT TIME	HEALTH ST	ATUS	
1	HDD 5-1	NORMAL	INACTIVE	750GB		WD-WCAV53797317	269.856GB	2017/07/18 23:03:52	GOOD		
①											

3.3 Change User Name and Password

It's highly recommended to change the user name and password of this device to keep your account safe. Otherwise, any person could access this device if he knows the default user name and password.

If you didn't go through the setting wizard at the first place, you'll be prompted to change the user name and password:

	WARNING				
PLEASE BE ADVISED TO MODIFY THE DEFAULT ACCOUNT TO ENSURE YOUR INFORMATION SECUIRTY.					
 MODIFY REMIND ME L DON'T REMIN 	ATER D ME ANYMORE				
	CONFIRM				

Choose **MODIFY** to start the change immediately.

To change later, go to **MENU** \rightarrow **ACCOUNT** \rightarrow **USER LIST**, and choose to change the default user name and password of **SUPERVISOR**.

USER LIST		USER LIST							
GROUP	EDIT	USER NAME	GROUP						
		admin	SUPERVISOR						
	+								

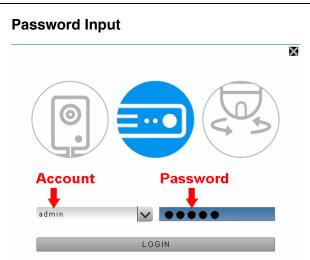
4. USER INTERFACE

4.1 Local Access

Connect an USB mouse to the recorder and move your mouse to enter the password with the password keypad. The default user name and password are both **admin**.

When you log into the system, the display is in the full screen mode. Right click the mouse to show the tool bar and function panel.

Note: You may also customize a user level to have different access privileges in ACCOUNT → GROUP. For details, please refer to "6.7.2 GROUP" at page 41.



4.2 Interface Overview



4.3 Status & Operation

4.3.1 Device Status

Note: The functions shown may vary based on the model or the access user level you use.

	Key lock	7	Key unlock
•4+	USB flash drive / device connected	*	No USB device connected
Θ	Timer record on	Θ	Timer record off
Ŕ	Overwrite on	Ŕ	Overwrite off
D	Sequence mode on	þ	Sequence mode off
0	PTZ mode on	þ	PTZ mode off
	USB backup in progress	E	USB flash drive full
R	USB backup failed		
Netwo	rk Status:		
4	(WAN) Internet connected	₽ ,	(WAN) Internet disconnected
Ð	(WAN) Local connection		
E E	(LAN) DHCP / Static IP mode	₽Ţ₿	(LAN) Camera disconnected

4.3.2 Channel Status

Note: The functions shown may vary based on the model or the access user level you use.

IP-camera-related icons (for selected models only)							
₽×	Camera disconnected	+	Add a camera by auto search		Add a camera manually	(\mathbf{i})	IP camera setup
■ General icons							
 Ð	Audio on	0	Audio off	۲	Alarm out	$\langle \mathbf{O} \rangle$	Alarm out disabled
 9	Recording	(m)	Alarm event	\$	Motion event	PIR	PIR event
 111	Original size	23	Fit to screen	Ð	Digital zoom		

4.3.3 Main Menu

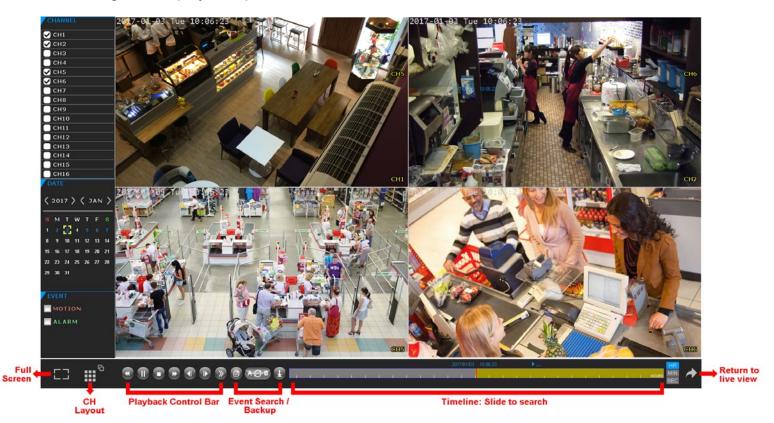
Click **MENU** on the bottom left corner to show the main menu list and its sub items:

	CAMERA	CONNECTION	IP SEARCH*
	CAWERA		IF SEARCH
		DEVICE	
		IMAGE	BRIGHTNESS
			CONTRAST
			SATURATION
			HUE
		DETECTION	
		ALARM OUT*	
	RECORD	LIVE STREAM	
		RECORD STREAM	
		SUBSTREAM	
B	SCENARIO*		
	IVS*	IVS MODE	FLOW COUNTING
			ONEWAY
			VIRTUAL FENCE
\frown		DISPLAY LINE	
×		DISPLAY COUNT	
		SCENE CHANGE	-
		SCENE CHANGE LEVEL	
		SENSITIVITY	
\bigcirc	EXPORT	BACKUP	
		SCHEDULE	
		REGULAR REPORT	
	STORAGE		HDD NEARLY FULL (GB)
			HDD OVERHEAT ALERT (°C)
E			OVER WRITE
			KEEP DATA LIMIT(DAYS)
			TEMPERATURE TO ENABLE FAN (°C)
			REMINDER WHEN FORMATTING HDD
	ACCOUNT	USER LIST	
A		GROUP	
	NETWORK	WAN	
		DDNS	
		E-MAIL	
		FTP	
		EAZY	
	TIME	TIME SETUP	DATE
			TIME
			FORMAT
\bigcirc			NTP SERVER
\odot			SYNC PERIOD
			GMT
			CLIENT TIME SYNC VIA RECORDER
			SYNC NTP SERVER TIME
		DAYLIGHT	

		8	
	DISPLAY		CHANNEL TITLE
			EVENT STATUS
			AUTO KEY LOCK(S)
			HDD DISPLAY MODE
			DISPLAY OUTPUT
			LANGUAGE
			SPOT MONITOR*
			CALL SCREEN DURATION
			QUAD SCREEN DURATION
	PERIPHERAL	LOCAL	MOUSE SENSITIVITY
			REMOTE CONTROL ID
B		JOYSTICK	
		LOCAL ALARM IN*	
		LOCAL ALARM OUT*	
		DEVICES	
	MAINTAIN	SYSTEM	BACKUP CONFIG
			RESTORE CONFIG
			RESET DEFAULT
			DEVICE TITLE
			ENABLE AUTO PLUG AND PLAY
			BIND MAC ADDRESS
		UPGRADE	LOCAL
			CAMERA
		ALERT	EXT. ALERT
_			INT. ALERT
-			KEY BUZZER
			VLOSS BUZZER
			MOTION BUZZER
			ALARM BUZZER
			HDD BUZZER
			ALARM BUZZER DURATION (SEC)
		EVENT LOG	
		ONLINE	ANONYMOUS VIEWER LOGIN
			DROP ALL CONNECTION
			LOGIN FAILURE TIMES
			LOCK TIME FOR LOGIN FAILURES
	POWER CONTROL	HALT THE SYSTEM	
		REBOOT THE SYSTEM	
		LOGOUT	

*For selected models only

4.3.4 Playback Panel



Click to go to the playback panel.

Step1: In **CHANNEL**, choose the channel(s) you want to search.

Step2: In **DATE**, the date(s) which includes video footage of the selected channel(s) will be marked in blue. Choose the date you want.

Step3: (Optional) In **EVENT**, choose the event type(s) to narrow down the search if needed.

Step4: Slide the timeline to search the time segment within which includes video footage. The time segment within which includes video footage is marked in yellow-green.

Step5: Move to the time segment you want and video playback starts automatically.

₩	Fast Forward	Increase the speed for fast forward.		
•	Fast Rewind Increase the speed for fast rewind.			
► / II	Play / Pause Click to play the latest recorded video clip immediately, and click again to pause. In the pause mode, click >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>			
	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			
◀ / ►	Providus / Click to jump to the part / providus time interval in an hour for example $11:00 \approx 12:00$			
Ê	Event List	Click to enter the quick search menu for specific record data search, or select FULL to show all event logs.		
A C B Repeat Click to set point A and point B in a video clip, and the system will play only the spectrum clip.		Click to set point A and point B in a video clip, and the system will play only the specified range in that clip.		
Ŧ	Backup	Click to open the backup menu for video backup.		

Playback Control

5. FREQUENTLY-USED FUNCTIONS

5.1 IP Device Search

On the recorder's live view, choose **MENU** \rightarrow **CAMERA** \rightarrow **CONNECTION** to go to the setting page. For the channel to which you want to connect the IP camera, change the interface from **COAXIAL** to **IPCAM**.

	CONNECTION												
CHANNEL TITLE	INTERFAC	Έ	EDIT		URI	PORT	DEVICE TYPE	VENDOR	MODEL	STREAM PROTOCOL	METHOD	PATH1	PATH2
CH1	IPCAM	\sim			192.168.1.11	88	IPCAM	AVTECH		RTP-Unicast	TCP		
CH2	IPCAM	\sim	Ø +										
CH3	COAXIAL	\sim	Ø +										
CH4	COAXIAL	\sim	Ø +										
												IP SEA	ARCH

Choose IP SEARCH to go to the IP SEARCH page directly and start searching the connected IP cameras.

You'll see the list of every connected IP camera with its connection status to this device and MAC address. Click to assign the camera to the channel automatically and choose **ADD** to complete.

IP SEARCH									
ASSIGN	EDIT	DEVICE TYPE	IP	NETMASK	GATEWAY	PRIMARY DNS	PORT	MAC	VENDOR
CH1		IPCAM	192.168.1.11	255.255.255.0	192.168.1.1	8.8.8.8	88	00:0E:53:31:06:E5	AVTECH
		IPCAM	192.168.1.11	255.255.255.0	0.0.0.0	8.8.8.8	88	00:0E:53:31:06:E5	ONVIF
		IPCAM	192.168.1.12	255.255.255.0	192.168.1.1	8.8.8.8	88	00:0E:53:31:15:D1	AVTECH
		IPCAM	192.168.1.12	255.255.255.0	0.0.0.0	8.8.8.8	88	00:0E:53:31:15:D1	ONVIF
REFRESH ADD)				

Make sure the IP address of the connected camera is in the network segment the same as your router uses. If not:

■ For our brand's IP camera, select is and change the network type from **STATIC** to **DHCP**. Then, click **APPLY** to save your changes.

S	SETUP				
	1				
NETWORK TYPE	DHCP 🗸 🗸				
IP	192.168.1.11				
PORT	88				
USER NAME	admin				
PASSWORD	****				
NETMASK	255.255.255.0				
GATEWAY	192.168.1.1				
PRIMARY DNS	8.8.8				
	CANCEL APPLY				

For other brand's IP camera, please check its user manual to manually change its IP address.

5.2 User Account Creation

To create different user account for different access privilege, go to **MENU** \rightarrow **ACCOUNT** \rightarrow **USER LIST**, and choose \boxplus to create a new account.

USER LIST		USER LIST				
GROUP	EDIT	USER NAME	GROUP			
		admin	SUPERVISOR			
	+					

Four user levels are pre-defined in the system for you to quickly choose: SUPERVISOR, POWER USER, USER & GUEST.

Note: You can also customize a user level based on your needs by going to MENU → ACCOUNT → GROUP. For details, please go to "6.7.2 GROUP" at page 41.

Function	User Level						
	SUPERVISOR	POWER USER	USER	GUEST			
GENERAL		· ·					
BACKUP	\checkmark	\checkmark					
PTZ CONTROL	\checkmark	\checkmark					
POWER CONTROL	\checkmark						
REVIEW LOG	\checkmark						
CONFIG SETUP	\checkmark						
CLEAR LOG	\checkmark						
ACCOUNT SETUP	\checkmark						
CLEAR HDD	\checkmark						
PUSH VIDEO	\checkmark						
PUSH STATUS	\checkmark						
ALARM OUT	\checkmark	\checkmark					
LOCAL	I						
LIVE VIDEO	\checkmark	\checkmark	\checkmark	\checkmark			
LIVE AUDIO	\checkmark	\checkmark	\checkmark				
PLAYBACK VIDEO	\checkmark	\checkmark					
PLAYBACK AUDIO	\checkmark	\checkmark					
NETWORK	L	· · ·		•			
LIVE VIDEO	\checkmark		\checkmark	\checkmark			
LIVE AUDIO	√		\checkmark				
PLAYBACK VIDEO	√						
PLAYBACK AUDIO	\checkmark						

5.3 PTZ Control



ل	Enter	Click to confirm your selection / enter the menu.
	Up / Down / Left / Right	Click the arrow keys (\blacktriangle / \blacktriangledown / \blacklozenge / \blacklozenge) to more the camera lens up / down / left /right.
	PAN / TILT	Click and drag the slider to move the camera lens vertically or horizontally.

₩⁺ Camera Control

() ()	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.
E / E	Focus near / far	Click to adjust the focus of the image.
	Zoom in / out	 Click to zoom in / out on the image. Users could also zoom in / out on the image by simply drawing a square on the screen, and the zoom ratio depends on how large the square is. Zoom in: Draw the square from top left to bottom right. Zoom out: Draw the square from bottom right to left top.
+ / -	Zoom in / out max	Click to zoom in on the image to the largest / zoom out on the image to its original size.
	Auto mode	Click to activate the auto function. Before using it, you need to assign a specific function that will be enabled when with is clicked. For details, please refer to the user manual of the camera.
	Auto tracking	Click to start auto tracking when your speed dome camera supports this function.
+	Hot point	Click on the screen to move and center the camera view to the point you just clicked.
*	Config.	Click to configure the speed to pan / tilt the speed dome camera.
<u>.</u>	Joystick	Click to control the movement of a speed dome camera or a motorized-pan camera. Drag and hold the mouse on the screen to move the camera. You'll see \bullet and \clubsuit on the screen. The farther these two icons, the faster the movement.

Preset Point		
		These ten buttons are used for preset point 1 ~ 10.
01 ~ 10	Preset point 01 ~ 10	To set or go to other preset point (such as 15), please enter the numbering manually in the input box next to \rightarrow , and choose \checkmark to set the preset point, or \rightarrow to go to the preset point.
\checkmark	Set preset point	Move the camera view to the point you want to set, and click the numbering you want from 01 ~ 10, or enter the numbering manually in the input box next to $-$. Then, click \checkmark to confirm.
→ •	Go to preset point	To go to the preset point from $1 \sim 10$, simply click the button. To go to the other preset point out of 10, enter the numbering manually in the input box next to \rightarrow , and choose \rightarrow to confirm.

5.4 Video Backup

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 3 COMPATIBLE USB FLASH DRIVE LIST at page 64.

Note: For video backup, please use USB flash drive or back your data up over the Internet. It's **NOT** allowed to connect the hard disk to your PC and get the video data directly.

To copy recorded data for video backup, click $\stackrel{\blacksquare}{\frown}$ to go to the playback panel, and choose \bot at the bottom tool bar to open the backup menu:

								B	ACKUF					
SOURCE										DESTINATION				
DATA TYPE						VIDEO		log		TARGET		USB DE	EVICE	\checkmark
RANGE		2017/	/07/18 2	3:03:52	~	2017/0	07/18 2	3:03:52		AVAILABLE SIZE			3	GB
		SUN	MON	TUE	WED	THU	FRI	SAT		STORAGE				
	< 2017 >							1		USB PATH		/VIDEC	C	
		2	3	4	5	6	7	8						
		9	10	11	12	13	14	15						
		16	17	18	19	20	21	22		ТІМЕ	CHANNEL	BACKUP TYPE	DEVICE	STATUS
	< JUL >	23	24	25	26	27	28	29						
		30	31	:03:52		Н	r Min	1 SEC						
			< 23	.03.52	~			A SEC						
								HOURS	→					
CHANNEL	ALL								-					
	CH1	С	H2	С	СНЗ		CH4							
		$\overline{\mathbf{v}}$			I	ଡ଼☑		6						
	CH5		H6		CH7		CH8							
								6						
	СН9		H10		CH11		CH12							
								6						
	CH13		H14		CH15		CH16							
								6						
	-0		~0		-(9 LI	-	(0 🗆						
									I					
												CANCEL	BAC	KUP

Step1: In **SOURCE**, choose the data type (**VIDEO** or L**OG**) and the time range you want to copy from the calendar. The date with video recording will be shown in blue.

Step2: In **CHANNEL**, choose the channel(s) you want.

Step3: In **DESTINATION**, choose where you want to save the data, in a USB flash drive (**USB DEVICE**) or on FTP (**FTP**).

Step4: (Optional) When **USB DEVICE** is chosen, specify the directory in **STORAGE** if needed.

Step5: Choose **BACKUP** to start. The backup video will be in the AVI format.

Note: You can also go to **MENU** \rightarrow **EXPORT** \rightarrow **BACKUP** to check backup logs or click \boxplus on the top to enter the backup page.

Note: When the video compression format is H.265, please use the video player which supports H.265 to play the video footage.

5.5 System Logout

When different user accounts are created for system management, make sure you log out after your access in case other people access the system with your account.

Choose **MENU** \rightarrow **POWER CONTROL**, and choose \mathcal{O} to log out the system.



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

5.6 Hardware Reset

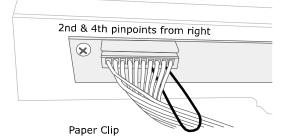
When you forget the access user name and / or password, this will show you how to reset your recorder to its factory default values. Your recorder supports only either of the methods mention below depending on the model you have.

Method 1: Reset button

- Step 1: Power off your recorder.
- Step 2: Open the top cover of the recorder to reveal the main board, and find a **<u>blue</u>** button on the board. It's the hardware reset button.
- Step 3: Press and hold the blue button, and power on your recorder at the same time. Release the button when you hear the second beep sound. You'll see the reset message on the screen.

Method 2: Reset pins

- Step 1: Power off your recorder.
- Step 2: Remove the top cover of the recorder and find the board attached to the front panel as shown below.
- Step 3: Find the cable with a pin terminal block connected to the board.
- Step 4: Get a paper clip (or forceps) and insert the two sides of it respectively to the 2nd and 4th pinpoints as shown below.
- Step 5: With the paper clip inserted, power on your recorder at the same time. Wait till you hear the beep sound and you see the reset message on the screen.



6.1 CAMERA

6.1.1 CONNECTION

This menu is used to add an IP camera to the recorder when your recorder supports this function.

Note: Please check the specifications of your device to know if your recorder supports IP camera connections.

Before connecting an IP camera, make sure its IP address will be in the same network segment as the one your router uses.

For the channel to which you want to connect the IP camera, change the interface from **COAXIAL** to **IPCAM**. Then, choose **IP SEARCH** to enter the IP search page. You'll see the list of all connected IP cameras for you to choose. For details, please check "IP Camera" at page 6 for details.

	CONNECTION												
CHANNEL TITLE	INTERFAC	Ε	EDIT		URI	PORT	DEVICE TYPE	VENDOR	MODEL	STREAM PROTOCOL	METHOD	PATH1	PATH2
CH1	IPCAM	\sim	1		192.168.1.11	88	IPCAM	AVTECH		RTP-Unicast	TCP		
CH2	IPCAM	\sim			192.168.1.12	82	IPCAM	ONVIF		RTP-Unicast	TCP		
	COAXIAL	\sim											
	COAXIAL	\sim											
	•												
										BATCH	1	IP SEAR	RCH

6.1.2 DEVICE

	1		- <u>r</u>		1		r		1			1		
CHANNEL TITLE	ENABLE	CACHE TIME (MSEC)	F	port	CAME	RA	ALAR	M		OSD TITLE		0	SD LOG	С
			FO	RWARD	TYPE	=	OU	Г						
CH1	◨҇҇҇҇҇҄₽҄Ѻ			81	AUTO	\sim	3	\sim	\bigotimes	UP LEFT	\sim	\bigotimes	UP LEFT	•
CH2	◨҇҇҇҇҇҄₽҄Ѻ	0 5 20	\bigcirc	82	AUTO	\sim	3	\sim	\odot	UP LEFT	\sim	\odot	UP LEFT	•
CH3	◨҇҇҇҇҇҄₽҄Ѻ	0 5 20	\bigcirc	83	AUTO	\sim	3	\sim	\odot	UP LEFT	\sim	\odot	UP LEFT	•
CH4	◨҇҇҇҇҇҇҄₽҄Ѻ		\odot	84	AUTO	\sim	3	\sim	\odot	UP LEFT	\sim	\bigcirc	UP LEFT	`
CIT			\bigcirc	04	AUIO	~	3	•		UF LEFI		\bigcirc	UF LEFI	

1) CHANNEL TITLE

Click to revise the channel title (up to 63 characters). The default title is the channel number.

2) <u>ENABLE</u>

Here shows the functions you can enable or disable:

Icon	Meaning	Description				
1 / 🕝	Time stamp on / off	Display the recording time or not.				
• / Ø	Edge recording on / off	Enable this function to allow video recording directly to the microSD c inserted in the IP camera when the recorder is disconnected to the cam and unable to work properly.				
1 / Ø	Recording transfer on / off	When edge recording is on, enable this function to allow the video saved in the microSD card of the camera transferring to the recorder when the recorder is reconnected to the camera and work properly.				
! / !	Audio recording on / off	Enable or disable audio recording for the selected channel if the connected camera supports audio recording.				

Note: The icons available depend on the camera you connected.

3) CACHE TIME (MSEC)

Drag the slide bar to change the cache time which determines the buffering time of playback.

Note: To speed up the camera's operation, especially for the PTZ camera, you may set the CACHE TIME (MSEC) as zero, but this change may debase the transmission quality.

4) PORT FORWARD (available for IP camera only)

This function is used when you only want to see a single channel of this recorder remotely.

- a) Set the port number for the channel in **PORT FORWARD**. The default value for CH1 is 81, and the default value for CH2 is 82... etc. If you want to change the port number to other value, the range is from 1 ~ 65535.
- b) Switch \otimes to \otimes to enable port forwarding.

The address of the channel will be "http://recorder_address:port_number". Enter the address in Internet Explorer, and see if you can access the device connected channel individually.

Note: The user name and password are still required to access the device connected to the channel. Make sure you know the user name and password to access the device. For details, please refer to its user manual.

5) CAMERA TYPE

Here shows the camera type which is detected automatically.

- 6) <u>ALARM OUT (Depending on the camera you connected)</u> This function is used to set how long the device should work in seconds when the sic camera channel.
- **Note:** An alarm-out device (such as a buzzer) should be connected to the camera first for this function to take effects.
 - 7) OSD TITLE

Choose to display the name of the channel or not, and decide where to show it (UP LEFT / UP MIDDLE / UP RIGHT / DOWN LEFT / DOWN MIDDLE / DOWN RIGHT). The display of the title will not disappear in the backup footage.

8) OSD LOGO

This function is reserved for future use.

5.1.3 IMAGE

Click 🖉 to manually adjust the brightness / contrast / saturation / hue by channel
--

	IMAGE						
EDIT	CHANNEL TITLE	BRIGHTNESS	CONTRAST	SATURATION	HUE		
	CH1	128	128	140	128		
	CH2	128	128	140	128		
	CH3	128	128	140	128		
	CH4	128	128	140	128		

6.1.4 DETECTION

	DETECTION							
							1	
CHANNEL TITLE	ALARM	1	INTERNAL ALARM	SENSITIVITY	MOTION	AREA	ADVANCED CONFIG	
CH1	OFF	\sim	ON	EDIT	ON	EDIT		
CH2	N.C.	\sim	OFF	EDIT	OFF	EDIT		
CH3	N.O.	\sim	OFF	EDIT	OFF	EDIT	🔁 💌 ROI 🕏	
CH4	OFF	\sim	OFF	EDIT	OFF	EDIT	🔁 🔀 ROI 🗘	
							APPLY	

1) <u>ALARM</u>

Select N.C. / N.O. depending on your installation need. The default alarm value is OFF.

Note: This option is available only when the camera you connected supports alarm I/O connection and an alarm sensor is connected directly to the camera. If the alarm sensor is connected to the recorder, please check "6.11.3 LOCAL ALARM IN" at page 47 for details.

2) INTERNAL ALARM

Select if you want to activate the PIR detection function for the selected channel (ON / OFF).

Note: This option is available only when the camera you connected has a PIR sensor built-in.

3) <u>SENSITIVITY</u>

For analog camera, click **EDIT** to set LS / SS / TS.

Function	Description
LS (Level of Sensitivity)	LS is to set the sensitivity of comparing two different images. The smaller the value is, the higher sensitivity for motion detection. The highest sensitivity setting is 00, and the lowest sensitivity setting is 15. The default value is 07 .
SS (Spatial Sensitivity)	SS is to set the sensitivity for detecting the size of one object (the number of the grids) on the screen. The smaller the value is, the higher sensitivity for motion detection.
	The highest sensitivity setting is 00, and the lowest sensitivity setting is 15. The default setting is 03 .
	Note: The default setting of SS is 03, which means once an object is detected more than 3 grids, the system will get triggered. So the value of SS must be less than the number of grids that you set up for the motion detection area.
TS (Time of Sensitivity)	TS is to set the sensitivity regarding how long one object stays in the detection area and triggers the recording. The smaller the value is, the higher sensitivity for motion detection.
	The highest sensitivity setting is 00, and the lowest sensitivity setting is 15. The default setting is 02 .

For IP camera, select the detection sensitivity of the selected channel. 2 is the highest sensitivity.

4) <u>MOTION</u>

Select if you want to activate the motion detection function for the selected channel (ON / OFF).

5) <u>AREA</u>

Click **EDIT** to set the motion detection area.

There are 16×12 grids per camera for all channels. Pink blocks represent the area that is not being detected while the transparent blocks are the area under detection.

Note: To exit area setting and return to the detection page, right click your mouse.

6) ADVANCED CONFIG

The advanced settings are available only when the connected camera supports.

■ 💽 Video Analytics

The options within this function should work with CMS PRO to take effects. For details, please check with your installer or distributor.

PRIVACY MASK	
SCENE CHANGE	OFF
DEFOCUS	OFF
ENABLE OBJECT DETECTION	OFF
ENABLE FACE DETECTION	OFF
	APPLY

Privacy mask

You can cover certain areas on the camera image with privacy masks. Up to 20 areas could be added.

			PRIVACY	MASK		
MOSAIC SI	ZE					8x8
NAME	FUNCTION	MOSAIC	COLOR	MOSAIC COLO	r tran	ISPARENCY
MASK1	OFF	OFF	ON			0%
MASK2	ON	ON	ON			25%
				ADD	EDIT	DEL

 PRIVACY MASK - EDIT

 NAME
 MASK3

PRIVACY MASK - EDIT	
NAME	MASK3
FUNCTION	ON
MOSAIC	ON
COLOR	ON
MOSAIC COLOR	
TRANSPARENCY	50%
MASK AREA	SETUP

Item	Description
MOSAIC SIZE	Choose the mosaic size of the privacy mask. The options are: 8×8, 32×32, and 64×64.
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. In the meantime, you can't see the mosaic effect.
COLOR FOR MASK	Select the color for the privacy mask.
TRANSPARENCY	Select the transparency for your privacy mask. The options are: 0% , 25% , 50% , and 100% . When 100% is chosen, no color is shown but only the mosaic effect for the mask area.
LINE WIDTH	Select if you want to know where the mask area is especially when the transparency is set to 100% . This function will add a border for the mask area. The options are: 0 , 2 , 4 and 6 . When 0 is chosen, no border is added.
MASK AREA	Select SETUP to enter the area selection page. To exit, right click.

Select **ADD** to add a new setting, **EDIT** to modify an existing setting, and **DEL** to remove a setting.



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

	REGION OF INTEREST							
DECION								
REGION	ENABLE	QUALITY						
1	ON	7						
2	OFF	7						
		EDIT						

■ Select **REGION 1** or **REGION 2**, and choose **EDIT** to change the setting.

REG	REGION OF INTEREST – EDIT						
ENABLE		ON					
QUALITY							
AREA		SETUP					
	APPLY						
	APPLY						

Camera Guard

This function is used to lock the camera to a fixed point and no pan action could be made until the lock mode is disabled. Before using this function, make sure:

- 1. You've configured at least one preset point and one preset group for the connected camera. To know how to configure preset points and preset group, please refer to "5.3 PTZ Control" at page 18.
- 2. You have an iOS or android mobile device with our free app, EagleEyes, installed.
- 3. Your recorder is connected to Internet, and registered in the address book of EagleEyes.

CAMERA GUARD – CH1		
GUARD LOCK	10	1
TIMEOUT (SECS)	30	\sim
PRESET GROUP	1	\sim
PRESET NUMBER	1	\sim
	APP	LY

Item	Description
GUARD LOCK	Enable (ON) or disable (OFF) this function.
TIMEOUT (SECS)	Configure the timeout in seconds (30 / 60 / 90 / 120) after which the camera will be fixed to the current point and any attempt to pan the camera to another point will be failed.
PRESET GROUP	Choose the group where the point you'd like to use is configured, and go to PRESET NUMBER to choose the preset point number.
PRESET NUMBER	Choose the preset point number you'd like to use when GUARD LOCK is enabled.

Note: An alarm-out device (such as a buzzer) should be connected to a camera first for this function to take effects. To configure the alarm-out device connected to the recorder itself, please refer to "6.11.4 LOCAL ALARM OUT" at page 47.

This function is used when the external alarm-out device is connected to a camera. You can configure an alarm-out device to activate continuously or activate only for a period of time when it's triggered.

In **RESTORE AUTOMATICALLY**,

- Choose **DISABLE** to allow the device to activate continuously when it's triggered unless you switch it off manually from the alarm-out switch control panel (^E ⊂) on the live view.
- Choose ENABLE to allow the device to activate only for a period of time (1 / 3 / 5 / 10 / 20 / 30 / 60 / 120 / 180 seconds) when it's triggered.

	ALARM OUT								
CHANNEL TITLE	NAME	RESTORE AUTOMATICALLY	ALARM OUT DURATION (SE	~51					
CH1	alarmout-ch1	DISABLE	1						
CH2	alarmout-ch2	ENABLE	5	\sim					
CH3									
CH4									
			APPLY						

6.2 RECORD

Set the image size, video quality and other related parameters individually for live display, record streaming and sub streaming.

Note: The settings shown below depend on the setting tab you selected in this setting page.

- a) **D.O.R** (Depend on record): When this option is checked, the video size, quality and other related parameters will follow the configurations in **RECORD STREAM**.
- b) **PROFILE**: Select the video profile pre-defined in your IP cameras. You can directly use the profile setting, or modify the setting on this page.
- c) TYPE: Select the compression format for each channel.

Note: The options selectable for **TYPE** depend on the camera you're intended to connect.

d) **IMAGE SIZE**: Select the image size for each channel.

Note: The options selectable for IMAGE SIZE depend on the camera you're intended to connect.

- e) **QUALITY**: Select the video quality for each channel. The higher the value, the better the image quality.
- f) **I.P.S.**: Image per Second, the higher the value, the more fluent the video.

Note: The options selectable for "I.P.S." depends on the camera you're intended to connect.

- g) **BITRATE (kbps)**: Select how much data to process per unit of time for each channel. The higher the value, the better the video quality.
- h) BITRATE CONTROL: Configure the upper bit rate limit for the selected channel if necessary.
 VBR When the bit rate of the camera exceeds the value you set, the video fluency may be affected;
 CBR When the bit rate of the camera exceeds the value you set, the image quality may be affected.
- i) **G.O.V.**: "Group of VOPs" is used to configure the length of G.O.V. The greater of the value, the less the bandwidth for transmission, and the poorer the image quality.

• LIVE (Available for IP cameras only)

	VIDEO SOURCE CONFIG												
LIVE	RECORD ST	REAM	SUBSTR	EAM									
CHANNE	L D.O.R	PROFIL	E	TYPE		IMAGE SIZE		QUALITY	I.P.S	•	BITRATE (kbps)	BITRATE CONTROL	G.O.V.
СН1		PROFIL	.E-3	/ H265	\sim	720 X 480	\sim	0 5 10	30	\sim	2048	VBR	30
CH2		PROFIL	.E-3	✓ H264		1280 x 1024	\sim	0 5 10	30	\sim	2048	VBR	30
СНЗ		PROFIL	.E-3	✓ H264		1280 x 1024	\sim	0 5 10	30	<	2048	VBR	30
CH4		PROFIL	.E-3	✓ H264		1280 x 1024	\sim	0 5 10	30	<	2048	VBR	30
													APPLY

RECORD STREAM

	VIDEO SOURCE CONFIG											
LIVE	RECORD STREAM	SUBSTRE	AM									
PROFILE	-1	1] [+]									
CHANN	EL PRO	FILE	TYPE		IMAGE SIZE		QUALITY	I.P.S.		BITRATE (kbps)	BITRATE CONTROL	G.O.V.
СН1	PRO	FILE-3 🔨	H 265	\sim	720 X 480	\sim	0 5 10	30	\sim	2048	VBR	30
CH2	PRO	FILE-3 💊	H 264	\sim	1280 x 1024	\sim	0 5 10	30	\sim	2048	VBR	30
СНЗ	PRO	FILE-3 🔨	H 264	\sim	1280 x 1024	\sim	0 5 10	30	\sim	2048	VBR	30
CH4	PRO	FILE-3 🔨	/ H264	\sim	1280 x 1024	\sim	0 5 10	30	\sim	2048	VBR	30
												APPLY

SUB STREAM

	VIDEO SOURCE CONFIG													
LIVE	RECORD STR	REAM	SUBST	[REA	M									
CHANN	EL	PROFI	LE		TYPE		IMAGE SIZE		QUALITY	I.P.S.		BITRATE (kbps)	BITRATE CONTROL	G.O.V.
СН1		PROFI	LE-3	\sim	H265	\sim	720 X 480	\sim	0 5 10	30	\sim	2048	VBR	30
CH2		PROFI	LE-3	>	H264	\sim	1280 x 1024	\sim	0 5 10	30	\sim	2048	VBR	30
СНЗ		PROFI	LE-3	>	H264	\sim	1280 x 1024	\sim	0 5 10	30	\sim	2048	VBR	30
CH4		PROFI	LE-3	\sim	H264	\sim	1280 x 1024	\sim	0 5 10	30	\sim	2048	VBR	30
													r	
														APPLY

6.3 SCENARIO

This function allows you to customize a series of actions which will be run automatically after the specified event occurs.

Several scenario rules are pre-defined for you to quickly choose and apply. If none of these rules are suitable for you, you can choose \pm to create your own rule from several scenario templates.

	SCENARIO									
EDIT	NAME	TRIGGER	ACTION	TIMER	STATUS					
	MOTION RECORD	ALL CHANNELS	START RECORDING EVENT CHANNEL		OFF					
	ALARM RECORD	ALL CHANNELS	START RECORDING EVENT CHANNEL		OFF					
	GUARD RECORD	GUARD	START RECORDING ALL CHANNELS		ON					
	PUSH VIDEO NOTIFICATIONS (PIR)	GUARD, MOTION (CH1), PIR (CH1)	PUSH VIDEO TO SEE PLAYBACK		ON					
	PUSH VIDEO NOTIFICATIONS (ALARM)	GUARD, MOTION (CH1), ALARM (CH1)	PUSH VIDEO TO SEE PLAYBACK		ON					
	MANUAL RECORD		START RECORDING ALL CHANNELS	EVERYDAY	ON					
	PUSH STATUS	ALL SYSTEM STATUSES	PUSH STATUS	EVERYDAY	ON					
	EVENT POP-UP ON LIVE MONITOR (MOTION & ALARM)	MOTION(ALL CHANNELS),ALARM(ALL CHANNELS)	POP UP EVENT ON LIVE MONITOR		ON					
	GUARD ON (MOTION DETECTION)	GUARD			ON					
	GUARD ON (PIR DETECTION)	GUARD			ON					
	GUARD OFF (MOTION DETECTION)	GUARD			ON					
	GUARD OFF (PIR DETECTION)	GUARD			ON					
	EVENT POP-UP ON EVENT MONITOR (MOTION & ALARM)	MOTION(ALL CHANNELS),ALARM(ALL CHANNELS)	PLAYBACK VIDEO ON EVENT MONITOR		ON					
+										

6.3.1 Pre-defined Scenarios

The pre-defined scenarios are created for you to quickly enable the recording and notification functions which are used frequently. The available scenarios depend on the models you have.

Note: All pre-defined scenarios are not editable. If any changes should be made to suit your need, please add a scenario rule manually.

1) MOTION RECORD

All channels are selected in this rule. The recorder starts recording the channel which has a motion event. Scenario template used: **ONE OF (EVENT) TO (RECORD)**.

2) ALARM RECORD

All channels are selected in this rule. The recorder starts recording the channel which has an alarm event. Scenario template used: **ONE OF (EVENT) TO (RECORD)**.

Note: The alarms here refer to the alarm devices connected to the cameras or the recorder. For the alarm events triggered by the PIR sensor built into the camera, please choose PIR instead.

3) GUARD RECORD

When **Guard** is enabled from EagleEyes, our mobile app, the recorder starts recording all channels. Scenario template used: **ONE OF (EVENT) TO (RECORD)**.

4) PUSH VIDEO TRIGGERED BY BUILT-IN PIR SENSOR

When motion & PIR events occur simultaneously, you'll receive Push Video on your mobile device. Scenario template used: **ALL OF (EVENTS) TO DO (ACTION) AND THEN (ACTION)**.

Note: To know how to enable Push Video, please refer to "APPENDIX 2 PUSH VIDEO CONFIGURATION" at page 61.

- 5) <u>PUSH VIDEO TRIGGERED BY EXTERNAL ALARM</u>
 When motion & alarm events occur simultaneously, you'll receive Push Video on your mobile device.
 Scenario template used: **ALL OF (EVENTS) TO DO (ACTION) AND THEN (ACTION)**.
- **Note:** The alarms here refer to the alarm devices connected to the cameras or the recorder. For the alarm events triggered by the PIR sensor built into the camera, please choose PIR instead.
- **Note:** To know how to enable Push Video, please refer to "APPENDIX 2 PUSH VIDEO CONFIGURATION" at page 61.
 - <u>MANUAL RECORD</u>
 All channels are selected in this rule. The recorder starts recording all channels at the specified time. Scenario template used: **START (RECORD) AT (TIME)**.
 - 7) <u>SEND PUSH STATUS FOR HEALTH CHECK</u> All system health events are selected in this rule. When one of the health events occurs at the specified time range, you'll receive Push Status on your mobile device. Scenario template used: **ONE OF (HEALTH EVENT) OCCURRED AT (TIME) TO SEND PUSH STATUS**.
 8) <u>POP-UP ON LIVE MONITOR (MOTION AND EXTERNAL ALARM EVENT)</u>
 - All channels are selected in this rule. When any motion or alarm event occurs, you'll see pop-up messages on the right pane (Event List) of the monitor. Scenario template used: **ONE OF (EVENT) TO DO (ACTION)**.
- **Note:** The alarms here refer to the alarm devices connected to the cameras or the recorder. For the alarm events triggered by the PIR sensor built into the camera, please choose PIR instead.

9) MOTION DETECTION ON WHEN GUARD ON

All channels are selected in this rule. When **Guard** is enabled from EagleEyes, our mobile app, the motion detection of all channels is also enabled automatically.

Scenario template used: ONE OF (EVENT) TO DO (ACTION).

Note: Motion detection and alarm / PIR detection are two essential elements to trigger Push Video.

10) INTERNAL ALARM (PIR) DETECTION ON WHEN GUARD ON

All channels are selected in this rule. When **Guard** is enabled from EagleEyes, our mobile app, the PIR detection of all channels is also enabled automatically.

Scenario template used: ONE OF (EVENT) TO DO (ACTION).

- **Note:** The alarms here refer to the alarm devices connected to the cameras or the recorder. For the alarm events triggered by the PIR sensor built into the camera, please choose PIR instead.
 - 11) MOTION DETECTION OFF WHEN GUARD OFF

All channels are selected in this rule. When **Guard** is disabled from EagleEyes, our mobile app, the motion detection of all channels is also disabled automatically.

Scenario template used: ONE OF (EVENT) TO DO (ACTION).

12) INTERNAL ALARM (PIR) DETECTION OFF WHEN GUARD OFF

All channels are selected in this rule. When **Guard** is disabled from EagleEyes, our mobile app, the motion detection of all channels is also disabled automatically. Scenario template used: **ONE OF (EVENT) TO DO (ACTION)**.

13) PLAYBACK ON EVENT MONITOR (MOTION & EXTERNAL ALARM EVENT)

All channels are selected in this rule. When any motion or alarm event occurs, you'll see video playback on the monitor you set for **HDMI2 DISPLAY**.

Scenario template used: ONE OF (EVENT) TO DO (ACTION).

Note: You'll also need to manually choose **EVENT MONITOR** and configure related settings in **DISPLAY** → **HDMI2 DISPLAY**. For details, please refer to "6.10 DISPLAY" at page 44.

6.3.2 Scenario Customization

Click \pm and choose a template where you can press the button of **EVENT**, **RECORD**, **TIME** or **ACTION** to customize all your events and further actions:

- 1. ONE OF (EVENT) TO (RECORD)
- 2. ONE OF (EVENT) AT (TIME) TO DO (ACTION) AND THEN (ACTION)
- 3. AT (TIME) TO DO (ACTION) AND THEN (ACTION)
- 4. ALL OF (EVENTS) TO DO (ACTION) AND THEN (ACTION)
- 5. (EVENTS) TO TRIGGER (RECORD)
- 6. START (RECORD) AT (TIME)
- 7. ONE OF (HEALTH EVENT) OCCURRED AT (TIME) TO SEND PUSH STATUS
- 8. ONE OF (EVENT) TO DO (ACTION) AND THEN (ACTION)
- 9. ONE OF (EVENT) TO DO (ACTION)

<u>EVENT</u>

Up to 5 events could be added to the event list when you click the **EVENT** button.

Option		Description				
MOTION and ALARM	MOTION	Choose at least one channel which has enabled motion detection.				
	ALARM	Choose at least one channel which has connected to our brand's camera and an alarm sensor is connected to the camera.				
	PIR	Choose at least one channel which has connected our brand's camera with a PIR sensor built-in.				
IVS	FLOW COUNTING IN	Choose at least one channel which has enabled				
	FLOW COUNTING OUT	flow counting / one way / virtual fence / scene				
	ONE WAY PASS	change depending on the option you've chosen.				
	VIRTUAL FENCE					
	CAMERA SCENE CHANGE					
HEALTH CHECK	LOGIN LOCKED	Choose at least one status that you want to pay				
	SYSTEM ERROR	attention to.				
	VIDEO LOST					
	VIDEO PLUGIN					
	NET LOGIN					
	POWER ON					
	UPS POWER LOST					
	UPS POWER RECOVERED					
	WAN UNPLUGGED					
	WAN PLUGIN					
	INTERNET CONNECTED					
	LAN PLUGGED					
	LAN PLUGIN					
	HDD CLEAN					
	HDD OVER TEMPERATURE					
	NO HDD EXIST					
	KEY UNLOCKED					
	FAN BROKEN					
	FAN REPAIRED					
GUARD	GUARD	Enable or disable Push Video.				

<u>RECORD</u>

Option		Description
START RECORDING EVENT CHANNEL	GROUP	Choose the record profile group you want defined in MENU \rightarrow RECORD \rightarrow RECORD STREAM when event recording is on.

<u>TIME</u>

Option	Description
EVERYDAY	Choose the pre-defined time range within which
HOLIDAY	you want to activate the scenario rule.
WEEKDAY	
Ŧ	Click 🛨 to customize the time range within which you want to activate the scenario rule.

<u>ACTION</u>

Up to 5 actions could be added to the action list when you click the **ACTION** button to combine a series of actions you'd like to have.

Option		Description
RECORDER	RECORD	Choose at least one channel to start recording, and the record profile to use when recording is on.
	RESTORE RECORD PROFILE	Restore the record profile group when the specified action is off.
	SET RECORD PROFILE	Choose the record profile group defined in MENU \rightarrow RECORD \rightarrow RECORD STREAM.
	START RECORDING EVENT CHANNEL	Choose the record profile group defined in MENU → RECORD → RECORD STREAM which is used for event-channel recording.
	STOP RECORDING EVENT CHANNEL	
	START RECORDING ALL CHANNELS	Choose the record profile group defined in MENU \rightarrow RECORD \rightarrow RECORD STREAM which is used for all-channel recording.
	STOP RECORDING ALL CHANNELS	
NOTIFICATION	PUSH VIDEO TO SEE PLAYBACK	When Push Video is received on the mobile device, slide to see event playback.
	PUSH VIDEO TO SEE LIVE	When Push Video is received on the mobile device, slide to see live images.
	PUSH MESSAGE	Enter the message you want to see on your mobile device when an event occurs.
	PUSH STATUS	Send Push Status to your mobile device.
	POP UP EVENT ON LIVE MONITOR	Choose at least one channel to show event icons, notifications and playback preview on the right pane of the live display.
	PLAYBACK VIDEO ON EVENT MONITOR	Choose at least one channel to show its event recording when an event occurs on the event monitor you configured in MENU \rightarrow DISPLAY .
	VIDEO MAIL	You can choose to receive notifications by Email
	EMAIL SNAPSHOT	 in four ways: 1. Event videos 2. Snapshots 3. Abnormal status 4. Text Make sure at least a recipient is selected in RECEIVER and configure the related settings in each setting page.
	EMAIL STATUS	
	EMAIL TEXT	
	UPLOAD VIDEO TO FTP	You can choose to upload event videos or
	UPLOAD SNAPSHOT TO FTP	 snapshots to the FTP site pre-defined in MENU → NETWORK → FTP. Make sure at least an FTP site is selected in PROFILE, and configure the related settings in each setting page.

Option		Description
CAMERA	PRESET	Choose the channel with a speed dome camera connected, and choose a preset point you want the camera to move to. To know how to set a preset point, please refer to "5.3 PTZ Control" at page 18.
	AUTO TRACKING	Choose the channel with a speed dome camera connected, and the camera supports auto tracking.
	CAMERA GUARD	Choose the channel with our brand's speed dome camera or motorized-pan camera connected, and enable this function to move the camera view to the preset point you specified. To know how to use this function, please refer to "ADVANCED CONFIG" in "6.1.4 DETECTION" at page 23.
	ENABLE MOTION	Choose at least one channel you want to enable motion detection.
	ENABLE PIR	Choose the channel with our brand's PIR camera connected.
I/O	RECORDER ALARM OUT	Choose to automatically activate the alarm-out device connected to the recorder.
	CAMERA ALARM OUT	Choose the channel with our brand's camera connected, and an alarm-out device (such as a buzzer) is connected to the camera. This option will automatically activate the
		alarm-out device connected to the camera.
	BUZZER	Choose to activate the buzzer built in the recorder to alert you.
MISC	DELAY	Set a timeout between each action.

6.4 IVS (For selected models only)

Before using this function, please check the specifications of your recorder and see if it supports this function and how many channels are supported. If your recorder supports 4 channels to use IVS, please connect this camera to any channel from CH1 to CH4.

IVS									
Γ			Γ	T		1			
IVS MODE		DISPLAY LINE	SCENE CHANGE	SCENE CHANGE LE	VEL	SENSITIVITY			
FLOW COUNTING	\sim	OFF	OFF	MIDDLE	$\left \right>$		« .		
OFF	\sim								
ONEWAY	\sim	OFF	OFF	MIDDLE	\sim		« :		
OFF	\sim								
	OFF ONEWAY	FLOW COUNTING V OFF V ONEWAY V	FLOW COUNTINGVOFFOFFVOFFONEWAYVOFF	IVS MODE DISPLAY LINE SCENE CHANGE FLOW COUNTING ✓ OFF OFF OFF ✓ OFF OFF ONEWAY ✓ OFF OFF	IVS MODE DISPLAY LINE SCENE CHANGE SCENE CHANGE LE FLOW COUNTING V OFF MIDDLE OFF V OFF MIDDLE ONEWAY V OFF OFF MIDDLE	IVS MODE DISPLAY LINE SCENE CHANGE SCENE CHANGE LEVE FLOW COUNTING V OFF MIDDLE V OFF V Image: Complex compl	IVS MODE DISPLAY LINE SCENE CHANGE SCENE CHANGE LEVE SENSITIVITY FLOW COUNTING V OFF OFF MIDDLE V Image: Comparison of the comparison of th		

1) IVS MODE

Select one of the following three modes depending on your environment:

MODE	DESCRIPTION
FLOW COUNTING	A virtual detection line is set to detect the moving direction of pedestrians for flow counting.
VIRTUAL FENCE	A virtual detection line is set to detect intruders crossing the detection line, and an alarm will be triggered.
ONE WAY	A virtual detection line is set to detect intruders from the specified direction, and an alarm will be triggered.

2) DISPLAY LINE

Select to display the detection line for IVS on the screen or not.

3) SCENE CHANGE

Select **ON** to trigger a motion event when the camera is sensed to be moved and the camera scene is changed. At the same time, the icon "\$" will be also shown on the screen in addition to the motion icon "\$".

4) SCENE CHANGE SENSITIVITY

Set the detection sensitivity for SCENE CHANGE to HIGH, MIDDLE or LOW.

5) <u>SENSITIVITY</u>

Set the sensitivity for IVS from **0** ~ **15**. The larger the value, the more sensitive the IVS will be.

6) (Clear) & (Edit)

Select Select set the flow counting number, and real to enter the setting page to set the detection line. For details, please refer to the next section, "IVS Application".

> FLOW COUNTING

Step1: Click of to enter the setting page and draw a detection line with your mouse, and decide the

detection direction by selecting **REVERSE**.



Step2: Click **APPLY** to finish the IVS setting and return to the live view.

When anyone walks across the detection line, the system will determine his movement is in or out, and add one count to the corresponding channel on the flow counting panel.

IN	People coming from the opposite direction to the arrow mark.
OUT	People coming from the same direction as the arrow mark.



VIRTUAL FENCE and ONE WAY

Step1: Click I to enter the setting page and draw a detection line with your mouse, and decide the

detection direction by selecting **REVERSE**.



Step2: Click $\ensuremath{\textbf{APPLY}}$ to finish the IVS setting and return to the live view.

When anyone walks across the detection line, the system will determine his movement is in or out, and:

VIRTUAL FENCE	An event happens for anyone walking across the detection line, and " 🌌 " will be shown on the screen.
ONE WAY	An event happens for anyone walking from the opposite direction to the arrow mark, and "" will be shown on the screen.



6.5 EXPORT

6.5.1 BACKUP

Note: Before using your USB flash drive for video backup, please format it to "FAT32" first with your PC or laptop. For the list of compatible USB flash drives, please refer to "APPENDIX 3 COMPATIBLE USB FLASH DRIVE LIST at page 64.

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 / laptop directly for it may impair the recorded data saved in the hard disk.

To copy recorded data for video backup, click \pm to add an item for backup. You can add several items to copy different data you need.

	BACKUP										
1											
□ SELECT	TIME	CHANNEL	BACKUP TYPE	DEVICE	STATUS						
	2017/07/18 23:03:52 ~ 2017/07/18 23:03:52	CH1	VIDEO	USB DEVICE	25%						

								В	ACKUI)				
SOURCE										DESTINATION				
DATA TYPE						VIDEO		log		TARGET		USB D	EVICE	\checkmark
RANGE		2017/	07/18 2	3:03:52	~	2017/0)7/18 2	3:03:52]	AVAILABLE SIZE			3	GB
		SUN	MON	TUE	WED	THU	FRI	SAT		STORAGE				
	< 2017 >							1		USB PATH		/VIDE	0	
		2	3	4	5	6	7	8						
		9	10	11	12	13	14	15		ТІМЕ	CHANN	EL BACKUP TYPE	DEVICE	STATUS
		16	17	18	19	20	21	22						
	< JUL >	23	24	25	26	27	28	29						
		30	31											
			< 23	:03:52	>	HI	r Min	N SEC						
								HOURS						
CHANNEL	ALL								→			_		
	CH1	С	H2	С	СНЗ		CH4							
	•	V	•		I	ଡ଼☑		6						
	CH5	С	H6	С	CH7		CH8							
			•		4			6						
	CH9	С	H10	С	CH11		CH12							
			•					6						
	CH13	С	H14	С	CH15		CH16							
			-		4	<u>ا</u>		6						
	L	1]		•			
											Γ	CANCEL	BAC	KUP

- Step1: In **SOURCE**, choose the data type (**VIDEO** or **LOG**) and the time range you want to copy from the calendar. The date with video recording will be shown in blue.
- Step2: In **CHANNEL**, choose the channel(s) you want.
- Step3: In **DESTINATION**, choose where you want to save the data, in a USB flash drive (**USB DEVICE**) or on FTP (**FTP**).

Step4: (Optional) If **USB DEVICE** is chosen, specify the directory in **STORAGE** if needed.

Step5: Choose **BACKUP** to start. The backup video will be in the AVI format.

Note: When the video compression format is H.265, please use the video player which supports H.265 to play the video footage.

6.5.2 SCHEDULE

This function is used to schedule video backup regularly, uploading security footages to a FTP site (remotely) or saving to an USB device connected to this device (locally).

You can configure up to 7 schedules and use one of them as your backup preference.

				BA	ACKUP			
SOURCE						DESTINATION		
PROFILE			SCHEDULE	1 🗸		TARGET	FTP	\sim
ACTIVE			ON			STORAGE		
RESOLUTION			RECORD S	IREAM 🗸		FTP PROFILE	Profil	el 🗸
EXECUTION PERIC	OD		DAILY	\sim		FTP PATH	/VID	EO
EXECUTION TIME				MON 01				
RANGE	Μ	ON 08 : (00 ~ FR	I 19 : 00				
_								
CHANNEL	ALL							
C		CH2	CH3	CH4	→			
	• 🗹		\mathbf{Q}	🗞 🗆				
C	CH5	CH6	CH7	CH8				
	€ □	€ □	- 10 €	€ □				
C		СН10	СН11	CH12				
	-	🔞 🗆	- 🗞 🗆	🗞 🗆				
C	CH13	CH14	CH15	CH16				
	€ □	€ □	€ □	€ □				
L								
								APPLY

Step1: In SOURCE, choose the profile you'd like to save all the settings configured in SOURCE. Choose the video resolution (SUBSTREAM / RECORD STREAM), how often and when you'd like the backup to execute (EXECUTION PERIOD / EXECUTION TIME), and the time which includes the recordings you want (RANGE).

- Step2: In CHANNEL, choose the channel(s) you want.
- Step3: In **DESTINATION**, choose where you want to save the data, in a USB flash drive (**USB DEVICE**) or on FTP (**FTP**).
- Step4: (Optional) If **FTP** is chosen in **DESTINATION**, go to **STORAGE**, and choose the profile you'd like to save the storage path configured in **FTP PATH**.

Then, specify the directory where you'd like the recordings to be uploaded in **FTP PATH**.

Step5: Click **APPLY** to confirm.

6.5.3 REGULAR REPORT

This function is used to send event reports to the specified E-mail address. Users could configure up to 5 profiles to receive different reports about specific channels at different time.

Note: This function is available only when a hard disk is installed, and the recorder is connected to Internet.

You c	You can configure up to 7 profiles and use one of them as your backup preference.														
								B	ACKUF	>					
SOURCE										DI	STINATION				
PROFILE					PRO	FILE1	\sim			EVENT TYPE 4 SELEC					ied 🗸
ACTIVE					ON							1			
EXECUTION PE	riod				WEE	KLY		\sim			EDIT		E-MAIL ADDRESS		
EXECUTION D	AY OF WE	EK			MOM	N		\sim			2		tech_support@gmail.c	com	
EXECUTION HO	OUR				1			<			+				
CHANNEL	√ ALL														
	СН1	\checkmark	CH2	<u>ا</u>	CH3	\checkmark	CH4		→						
	CH5		CH6		CH7		CH8								
	CH9		CH10		CH11		CH12								
	CH13		CH14		CH15		CH16								
															APPLY

Step1: In **SOURCE**, choose the profile you'd like to save all the settings configured in **SOURCE**. Choose how often and when you'd like to receive reports. Finally, make sure this profile is active (**ACTIVE** to **ON**).

EXECUTION PERIOD	Select how often you want to receive reports: MONTHLY , WEEKLY or DAILY .
EXECUTION DAY OF MONTH /	Depending on the option you selected in EXECUTION PERIOD :
EXECUTION DAY OF WEEK	EXECUTION DAY OF MONTH shows when MONTHLY is selected.
	Select one date from 1 ~ 31.
	EXECUTION DAY OF WEEK shows when WEEKLY is selected. Select
	one day from Monday ~ Sunday.

Step2: In **CHANNEL**, choose the channel(s) you want.

Step3: In **DESTINATION**, choose which event type(s) you want to see (**MANUAL / MOTION / ALARM /** SYSTEM / TIMER / HUMAN DETECTION).

Step5: Click **APPLY** to confirm.

6.6 STORAGE

In this menu, you can check the status of each connected hard disk and configure some precaution actions to protect each hard disk and the video data saved in it such as reminding of hard disk erasing or avoiding the hard disks being over-heated.

					S	TORAGE						
HDD NEARL	Y FULL (GB		5									
HDD OVERH	HEAT ALERT	(°C)						70		\sim		
OVERWRITE	OVERWRITE ON											
KEEP DATA	LIMIT(DAYS	5)						OFF		\sim		
TEMPERATU	RE TO ENA		30									
REMINDER	WHEN FOR	MATTING HE	D					OFF				
	ID	TYPE	STATUS	SIZE	TEMP.	SERIAL NUMBER	FREE SIZE	FORMAT TIME	HEALTH ST	TATUS		
1	HDD5	NORMAL	READY	750GB	33°C	WD-WCAV53797317	269.856GB	2017/07/18 23:03:52	GOOE	2		

1) HDD NEARLY FULL (GB)

If **HDD BUZZER** is enabled in **MAINTAIN**, select the duration time for buzzer notifications when the hard disk available capacity is 5/10/15/20 GB left.

2) HDD OVERHEAT ALERT (°C)

Select the temperature alert for your hard disk to be aware of the possible overheat of your hard disk.

3) OVERWRITE

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

4) KEEP DATA LIMITS (DAYS)

Assign how many days to save the recording data from **1** to **31** days. After the assigned day(s), the recorded data will be removed. Select **OFF** to disable this function.

5) TEMPERATURE TO ENABLE FAN (°C)

Choose the temperature (25 / 30 / 35 / 40) to enable the built-in fan to work for heat dissipation.

6) REMINDER WHEN FORMATTING HDD

Enable this function to allow the recorder to prompt first when it needs to format your hard disk; otherwise the recorder will format the hard disk without asking.

7) HDD information

You can check the remaining capacity of the connected hard disk in this device and its current status. If the health status goes to:

- **GOOD** This hard disk works normal.
- BELOW AVERAGE The hard disk might work with some errors. Please pay attention and do video backup if needed.
- REPLACEMENT NEEDED Please replace this hard disk immediately to ensure continuous video recording.

8) **D** HDD details

You can check the details of the selected hard disk.

9) HDD formation

Click to format the selected hard disk and erase all data. When a hard disk is inserted to the recorder for the first time, it's compulsory to format the hard disk for it to work properly.

10) I Mount / I Unmount HDD

HDD hot-swapping is supported for this device. There's no need to power off the device first to install or remove a hard disk.

When a hard disk is installed, you'll need to click to manually mount the hard disk for it to work properly. When you need to remove a hard disk, click to unmount the hard disk and you'll be able to remove it.

Note: It's not allowed to remove a hard disk directly.

6.7 ACCOUNT

Note: This function is available only for SUPERVISOR.

6.7.1 USER LIST

This function is used to create a new user account, or modify or delete an existing account for different access privilege.

	USER LIST								
EDIT	IT USER NAME GROUP								
	admin	SUPERVISOR							
+									

■ How to create an account

Select \pm , enter a user name and its password, and assign a user group in which includes the access rights you wish to grand to this new account. Then, select **SAVE** to create and return to the user list page.

Note: Four user levels are pre-defined in the system for you to quickly choose: **SUPERVISOR, POWER USER, USER & GUEST.** For details about available operations of each level, please refer to "6.7 ACCOUNT" at page 40.

ADD					
USER NAME	TEST1				
PASSWORD	•••••				
CONFIRM PASSWORD	•••••				
GROUP	POWER USER	\sim			
SAVE	CANCEL				

6.7.2 GROUP

This function is used to create a new group with customized user access rights for different functions if needed, and you can create a user account and assign it to your customized group.

Note: The default user groups are **SUPERVISOR**, **POWER USER**, **USER** and **GUEST**, and they're not allowed to be removed. For details about available local operations of each user group, please refer to "6.7 ACCOUNT" at page 40.

			BACKUP	
MANAGER		+ 🖻		
GENERAL	LOCAL	NETWORK		
BACKUP				ALL 🗸
PTZ CONTRO	L			OFF
POWER CONTR	OL			ON
REVIEW LOG	;			ON
CONFIG SETU	P			OFF
CLEAR LOG				OFF
ACCOUNT SET	UP			OFF
CLEAR HDD				OFF
PUSH VIDEO				ON
PUSH STATUS				ON
ALARM OUT				ON
				APPLY

lcon	Meaning	Description
	Delete	Choose a customized user group and delete it. The default user groups (SUPERVISOR, POWER USER , USER and GUEST) can't be removed.
Ŧ	Add	Click to enter a group name, and select the tabs of GENERAL , LOCAL and NETWORK to choose the corresponding functions you want to enable or disable. Then, click APPLY to confirm.
	Import	You need to create a user group first to use this function. Choose one of the default user groups you want to modify for your customized group from the drop-down list and click I choose a customized group to import the configurations. Then, you can quickly modify the configurations and click APPLY to confirm.

6.8 NETWORK

- WAN is used to connect this recorder to Internet for remote access from anywhere as long as Internet access is available.
- **DDNS** is used when the Internet access is available.

Note: For more details about these three functions and network configurations, please get the setup manual from

www.surveillance-download.com/user/network setup/network setup recorder.pdf.

WAN	WAI	N
DDNS	NETWORK TYPE	STATIC 🗸 🗸
E-MAIL	IP	192.168.1.112
FTP	GATEWAY	192.168.1.254
EaZy	NETMASK	255.255.255.0
	PRIMARY DNS	168.95.1.1
	SECONDARY DNS	139.175.55.244
	PORT	88
	INTERNET AVAILABILITY ADDRESS	www.google.com
	MAC 00:0E:53:00:13:77	

6.8.1 E-MAIL

Configure your E-mail account here to send event notifications or reports.

Note: To know the SMTP server and port number you should use, please check with your E-mail service provider.

	E-MAIL
SMTP SERVER	SMTP.GMAIL.COM
PORT	465
MAIL FROM	OFFICE_MANAGER@GMAIL.COM
SSL ENCRYPTION	ON
VERIFY PASSWORD	ON
USER NAME	MANAGER
PASSWORD	•••••
EDIT	E-MAIL ADDRESS
	manager_1@fulltech.com
\pm	

6.8.2 FTP

Configure up to 7 FTP sites here to upload event notifications or reports.

FTP							
FTP 1	FTP 2	FTP 3	FTP 4	FTP 5	FTP 6	FTP 7	
NAME							Profile1
SERVER							211.75.33.2144
PORT							25
USER NA	٩ME						office
PASSWO	PASSWORD •••••••			•••••			
							APPLY

6.8.3 EaZy

This function is used to connect this recorder to Internet by using EaZy Networking. For details, please refer to "APPENDIX 6 EAZY NETWORKING" at page 67.

	EaZy	,
ENABLE EAZY NETW	VORKING	ON
∎#2xt∎	MAC: 000e53eca7b4	4
TRUE PC	UUID: E736DCBF-D4B	B-4CA8-86FD-62658E2ECEC1
	PORT: 80	
n 52,96	EAZY NETWORKING C	OFFLINE

6.9 TIME

6.9.1 TIME SETUP

TIME SETUP				
DATE	2009 / NOV / 17			
TIME	15:35:53			
FORMAT	Y/M/D			
NTP SERVER	Pool.ntp.org			
SYNC PERIOD	DAILY			
GMT	(UTC+08:00)TAIPEI			
CLIENT TIME SYNC VIA RECORDER	OFF			

1) <u>DATE</u>

Set the current date. The default display format is YEAR – MONTH – DATE (**Y-M-D**).

2) <u>TIME</u>

Set the current time in HOUR : MIN : SEC.

3) <u>FORMAT</u>

Set the time display format: **Y/M/D**, **M/D/Y** or **D/M/Y**.

4) <u>NTP SERVER</u>

Click to change the default NTP server to another server they're familiar with, or keep the default NTP server.

5) SYNC PERIOD

Select to synchronize the device time every day (DAILY), or turn this function off (OFF).

6) <u>GMT</u>

Select your time zone.

7) CLIENT TIME SYNC VIA NVR WAN (Applicable when an IP camera is connected)

Enable this function to synchronize the time of the connected IP cameras via the recorder when the recorder is connected to the Internet. This could ensure the time of the recorder and IP cameras are the same to prevent the confusion of time inconsistency.

Note: You may receive NTP-based DDoS attacks when this function is enabled. Please make sure your network is secured to prevent this kind of attack.

6.9.2 DAYLIGHT

DAYLIGHT							
DAYLIGHT SAVING							ON
START TIME	1ST	\sim	MON	\sim	AUG	\sim	06:00
END TIME	LAST	\sim	MON	\sim	OCT	\sim	10:00
ADJUST							01:00

Depending on the time zone you're in:

1) DAYLIGHT SAVING

Select to enable (ON) or disable (OFF) this function.

2) START TIME / END TIME

Set the start time and end time.

3) <u>ADJUST</u>

Set the time in HOUR : MIN.

6.10 DISPLAY

DIS	SPLAY	
CHANNEL TITLE	ON	
EVENT STATUS	ON	
AUTO KEY LOCK(S)	30	
hdd display mode	RE, MAINING SIZE	\sim
DISPLAY OUTPUT	AUTO	\sim
LANGUAGE	ENGLISH	\sim
SPOT MONITOR	SETUP	
CALL SCREEN DURATION	03	
QUAD SCREEN DURATION	03	

 <u>CHANNEL TITLE</u> Select to display the channel title or not (**ON** / **OFF**).

2) EVENT STATUS

Select to display the event icons or not (ON / OFF).

Note: For details about each event icon, please refer to "4.3 Status & Operation" at page 12.

3) AUTO KEY LOCK(S)

Set the time-out in second after which the key lock function is activated (NEVER / 30 / 60 / 120).

4) HDD DISPLAY MODE

Select **REMAINING SIZE** to show the remaining HDD capacity for recording in GB, or **REMAINING TIME** to show the remaining recording time.

5) <u>DISPLAY OUTPUT</u>

Select the display resolution you want. The default value is **AUTO**. This is used for the main display output.

Note: To have the best image quality on your monitor, make sure (1) the selected output resolution is supported by your monitor, and (2) the output settings on both the LCD monitor and the recorder are consistent.

If the image is not positioned or scaled properly, please go to your monitor's menu for adjustment. For details, please refer to the user manual of your monitor.

6) <u>LANGUAGE</u>

Select the language of the OSD.

7) SPOT MONITOR

Specify how VGA / composite port is used for video output: **CALL MONITOR** / **EVENT MONITOR** / **LIVE**.

Note: For some models, only the VGA or composite port supports this function. The available output options depend on the model you have.

CALL MONITOR is used for sequence display. When this option is selected, go to CALL SCREEN DURATION to select the duration time in second (03 / 05 / 10 / 15) and CALL MONITOR PERMIT to choose the channel(s) you want for sequence display.

SPOT MONITOR				
SPOT MONITOR	VGA			
VGA RESOLUTION	1920 x 1080	\sim		
SPOT DISPLAY	CALL MONITOR	\sim		
CALL SCREEN DURATION	5	\sim		
CALL MONITOR PERMIT	4 selected			

EVENT MONITOR is used when any alarm event occurs. When this option is selected, go to LAYOUT to select how many channels you want to see, and PRE-ALARM (SEC) and POST-ALARM (SEC) to set how many seconds you'd like to see before (0 ~ 5) and after (3 ~ 10) the event starts.

SI	POT MONITOR	
SPOT MONITOR	VGA	\sim
VGA RESOLUTION	1920 x 1080	\sim
spot display	EVENT MONITOR	\sim
LAYOUT	4	\sim
PRE-ALARM (SEC)	3	\sim
POST-ALARM (SEC)	5	\sim

LIVE is used to select how many channels you'd like to show on the spot monitor. You can configure up to 7 profiles for live display.

SPOT N	MONITOR	
SPOT MONITOR	VGA	
VGA RESOLUTION	1920 x 1080	\sim
SPOT DISPLAY	LIVE	\sim
PROFILE	1	\sim
LAYOUT	4	\sim
СН1 🗸	СНЗ 🗸	
CH5 V	СН8 🗸	

8) CALL SCREEN DURATION

Select the duration time in second (**03** / **05** / **10** / **15**) when the channel display mode is 1-cut and (Sequence) is selected.

9) QUAD SCREEN DURATION

Select the duration time in second (**03** / **05** / 1**0** / **15**) when the channel display mode is 4-cut and (Sequence) is selected.

6.11 PERIPHERAL

6.11.1 LOCAL

LOCAL	
MOUSE SENSITIVITY	
REMOTE CONTROL ID	0

1) MOUSE SENSITIVITY

Select the mouse sensitivity. The higher the value, the more sensitive the mouse.

1) REMOTE CONTROL ID

This function is available when users need to control two or more recorders with one IR remote controller. The ID set here is used to identify the recorder the remote controller is going to control. Please also read the user manual of the IR remote controller for details.

6.11.2 JOYSTICK

In this menu, you can adjust the speed of pan / tilt movement of the speed dome camera or a motorized-pan camera.

Note: To control the movement of the speed dome camera, you can choose 4 from the PTZ control panel and move on the screen ("5.3 PTZ Control" at page 18), or simply connect the compatible joystick, AVX102, to the DVR.

JO	/STICK
MAX SPEED OF X AXIS	100
MAX SPEED OF Y AXIS	100
CURVE ORDER OF X AXIS	1
CURVE ORDER OF Y AXIS	1

6.11.3 LOCAL ALARM IN

Note: This function is used when the recorder supports alarm-in connection and there's an alarm sensor such as an infrared sensor connected to the recorder. For configuring the alarm sensor connected directly to the camera, please refer to "6.1.4 DETECTION" at page 23.

Choose how the alarm sensor you connected works: OFF / N.C. / N.O.

The alarm device connected to Alarm IN 1 will work with video channel 1, the alarm device connected to Alarm IN 2 will work with video channel 2 and so on.

LOCAL ALARM IN			
CHANNEL TITLE	ALARM II	١	
CH1	OFF	\sim	
CH2	N.C.	\sim	
CH3	N.O.	\sim	
CH4	OFF	\sim	

6.11.4 LOCAL ALARM OUT

Note: This function is used when the recorder supports alarm-out connection and there's an alarm-out device such as a buzzer connected to the recorder. For configuring the alarm-out device connected directly to the camera, please refer to "6.1.5 ALARM OUT" at page 26.

LOCAL ALARM OUT						
NAME	RESTORE AUTOMATIC	ALLY	ALARM OUT DURATIO	n (Secs)		
Alarm Out	ENABLE	\sim	1	\sim		
				APPLY		

1) RESTORE AUTOMATICALLY

When this function is enabled, the alarm-out device will return to the state before it's triggered automatically after the time configured in **ALARM OUT DURACTION (SECS)**.

ALARM OUT DURACTION (SECS)
 Choose how long the alarm-out device will be activated when it's triggered: 1 / 3 / 5 / 10 / 20 / 30 / 60 / 120 / 180.

6.11.5 DEVICES

Note: This function is used when the recorder supports RS485 connection and you want to connect other brand's speed dome camera.

	DEVICES								
CHANNEL TITLE	DEVICE		ID	PROTOCOL		RATE		INTERFACE	
CH1	PTZ	<	1	P-P	<	2400	<	RS-485	<
CH2	CAMERA	<	2	NORMAL	<	4800	<	COAXIAL	<
CH3	CAMERA	<	0	NORMAL	<	2400	<	COAXIAL	<
CH4	CAMERA	<	0	NORMAL	<	2400	<	COAXIAL	<

1) DEVICE

For connecting other brand's speed dome camera, select PTZ.

2) <u>ID</u>

Click the current value to set the ID number (0 ~ 255) for the connected camera if necessary.

Make sure the ID setting of the camera is the same as the setting here, or the recorder will not be able to control the device.

Note: To know the default ID of the speed dome camera, please refer to its user manual.

3) PROTOCOL

Select **NORMAL** (our protocol), **P-D** (PELCO-D), **P-P** (PELCO-P), **S-T** (SAMSUNG-T) or **S-E** (SAMSUNG-E) protocol.

4) <u>DEVICE</u>

Select the baud rate for the connected speed dome camera (2400 / 4800 / 9600 / 19200 / 38400 / 57600 / 115200).

Make sure the baud rate setting of the camera is the same as the setting here, or the recorder will not be able to control the device.

Note: To know the default baud rate of the speed dome camera, please refer to its user manual.

5) INTERFACE

Select **RS485** if the connected speed dome camera uses RS485 wires to transmit control signals.

6.12 MAINTAIN

6.12.1 SYSTEM

SYSTEM					
BACKUP CONFIG	SUBMIT				
RESTORE CONFIG	SUBMIT				
RESET DEFAULT	SUBMIT				
DEVICE TITLE	dvr_1				
ENABLE AUTO PLUG AND PLAY	ON				
BIND MAC ADDRESS	OFF				

1) BACKUP CONFIG / RESTORE CONFIG

To save the DVR current configurations for later use, such as restoring after DVR upgrade or applying to another DVR, insert a compatible USB flash drive into the USB port, and select SUBMIT in **SUBMIT** in **BACKUP CONFIG** to copy the current DVR configurations to a file "System.bin" and save to your USB flash drive.

To restore the DVR configurations, insert the USB flash drive including "System.bin" to the USB port, and select **SUBMIT** in **RESTORE CONFIG**.

2) RESET DEFAULT

Click **SUBMIT** to reset all settings or partial settings to their factory default values, and select **YES** to confirm or **NO** to cancel. The system will reboot after reset.

3) <u>DEVICE TITLE</u>

Enter a title for this device.

4) ENABLE AUTO PLUG AND PLAY

Switch to **ON** to allow the camera to be detected and configured automatically when it's connected to this device.

Note: This function is available only when the brand of the cameras connected is the same as this device.

5) BIND MAC ADDRESS

This function is recommended to be used when your surveillance system is more than 256 cameras. It would be helpful for the system to get the address of each connected camera quickly if the system accidentally shuts down and needs to recover.

6.12.2 UPGRADE

In this menu, you can choose to upgrade your recorder (**LOCAL**) or the connected our brand's IP cameras (**CAMERA**).

LOCAL

Save the upgrade files obtained from your installer or distributor in a compatible USB flash drive, and insert it into the USB port. Then, click **SUBMIT** to start upgrading.

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 3 COMPATIBLE USB FLASH DRIVE LIST at page 64.

UPGRADE						
LOCAL	CAMERA					
UPGRADE		SUBMIT				
VERSION		1002-1001-1001-1000				

CAMERA

You can choose to upgrade several connected IP cameras from the recorder as long as the cameras are our brand's IP cameras.

			UPGRADE			
LOCAL	CAMERA					
CHANNEL	VERSION		DIRECTORY	STATUS		
CH1	1085-1032-10	946-1020-A1A1	/mnt/usb/FullImg-1086-1033-1046-1020.bin	1	+	
CH2	10205-10075-	10115-10095			(+)	
CH3					Ŧ	
CH4					Ŧ	
			U	PGRADE	СОРҮ ТО	\sim

- Step1: Save the upgrade files obtained from your installer or distributor in a compatible USB flash drive, and insert it into the USB port.
- Step2: Choose \pm to browse to where the firmware file is saved and choose the file to upgrade. Then, choose **SELECT** to confirm and return to the upgrade page.

()			USB DEVICE	\sim	
NAME	SIZE	TYPE	Ň		DATE
FullImg-1086-1033-1046-1020.bin	27.6MB	regular file	2	017-07-13	12:19:32
FullImg-1022-1007-1011-1009.bin	9.6MB	regular file	2	017-08-16	17:05:16
			CANCEL	SE	LECT

Step3: Repeat Step2 as many as needed until all cameras which need firmware upgrade are selected.

If one firmware file applies to several IP cameras, select **COPY TO** to apply the same file to the applicable cameras.

Step4: Choose UPGRADE to start upgrading all selected cameras, or choose 🔟 to upgrade the camera one by one.

6.12.3 ALERT

ALERT						
EXT. ALERT	OFF					
INT. BUZZER	ON					
KEY BUZZER	ON					
VLOSS BUZZER	ON					
MOTION BUZZER	ON					
ALARM BUZZER	ON					
HDD BUZZER	ON					
ALARM BUZZER DURATION (SEC)	10	\sim				

1) EXT. ALERT

Select to enable or disable the sound when any external alarm is triggered (ON / OFF).

2) INT. BUZZER

Select to enable or disable the sound (ON / OFF) for all internal buzzers: KEY BUZZER, VLOSS BUZZER, MOTION BUZZER, ALARM BUZZER, and HDD BUZZER.

Note: When this item is set to OFF, item 3) to item 7) will be disabled even though they are set to ON.

3) <u>KEY BUZZER</u>

Select to enable or disable the sound when pressing the buttons on the front panel (ON / OFF).

4) <u>VLOSS BUZZER</u>

Select to enable or disable the sound when video loss happened (ON / OFF).

5) MOTION BUZZER

Select to enable or disable the sound when any motion alarm is triggered (ON / OFF).

6) ALARM BUZZER

Select to enable or disable the sound when any internal alarm is triggered (ON / OFF).

7) HDD BUZZER

Select to enable or disable the sound (**ON** / **OFF**) when the HDD remaining capacity reaches to the value set in **HDD NEARLY FULL (GB)**.

8) <u>ALARM BUZZER DURATION (SEC)</u>
 Select the duration time for alarm buzzer in second (5 / 10 / 20 / 40).

6.12.4 EVENT LOG

You can check all the event information (event type, time and channel), or clear all log records.

	EVENT LOC	3	
EVENT	TIME	C	OMMENT
KEY UNLOCK	2011/NOV/19 15:49:0)7	
VIDEO LOSS	2011/NOV/19 15:32:0	05 04	4
POWER ON	2011/NOV/19 15:32:0)2	
	PREV	NEXT	CLEAN

6.12.5 ONLINE

ONLINE		
ANONYMOUS VIEWER LOGIN	OFF	
DROP ALL CONNECTION	SUBMIT	
LOGIN FAILURE TIMES	3	\sim
LOCK TIME FOR LOGIN FAILURES	10 MINS	\sim

1) ANONYMOUS VIEWER LOGIN

Switch to **ON** to allow anonymous login, meaning there's no need to enter user name and password for remote access.

2) DROP ALL VIDEO CONNECTION

Click **SUBMIT** to force disconnection of all remote logins when needed.

3) LOGIN FAILURE TIMES

The recorder will lock the IP address with several login attempts. Choose the failure times of login attempts from the same IP address ($1 \sim 20$), and go to the next option, **LOCK TIME FOR LOGIN FAILURES**, to choose how much time you'd like to lock the IP address.

4) LOCK TIME FOR LOGIN FAILURES

Choose how much time you'd like to lock the IP address with several login attempts but failed (1 MIN / 2 MINS / 3 MINS / 5 MINS / 10 MINS / 30 MINS / 1 HOUR).

6.13 POWER CONTROL

Click to show the power off panel to halt, reboot or log out the system.



lcon	Meaning	Description
٢	System Halt	Click to stop the system and remove the power adapter.
(\mathbf{I})	System Reboot	Click to reboot the system.
\mathbf{Q}	System Logout	Click to log out the system and log in with another account.

6. REMOTE OPERATION

You can also control this recorder remotely via the web browser and iOS / Android devices.

6.2 Web Browser

You can view the images or operate your recorder with a web browser, for example, Windows Edge, Microsoft Internet Explorer, Google Chrome, Mozilla Firefox & Safari.

Note: The supported PC operation systems are Windows 10, Windows 8, Windows 7 and Windows Vista.

Note: When the video compression format of a channel is H.265, you might not be able to see the live feed remotely via the web browser since the browser may not support to display this format. Please change the compression format to H.264 if needed.

The user interface when you access via the web browser is nearly the same as the interface you see on the recorder, and the operations are also the same.

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.

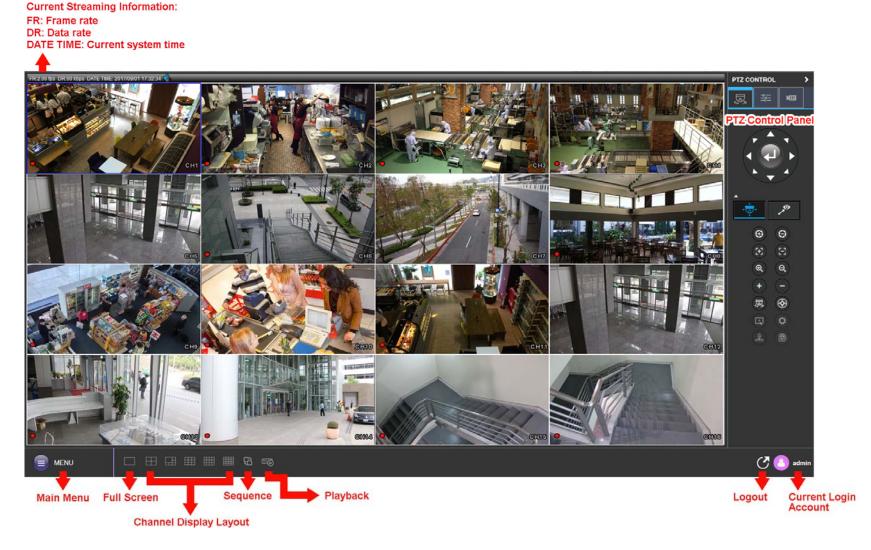
Step 1: Key in the IP address used by this device in the URL address box, such as 60.121.46.236, and press Enter. You will be prompted to enter the user name and password to access the device.

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".



6.3 Mobile Devices

Note: For more details about mobile surveillance via your mobile device, please visit http://info.eagleeyes.tw/iphone/index.html.

EagleEyes is a mobile phone program used with our surveillance system for remote surveillance. It's compatible with iOS and Android mobile devices, and it's free (Except *EagleEyes Plus* for iOS OS, and *EagleEyes Plus*+ for Android OS).

6.3.1 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 device.
- **Note:** You might be charged for Internet access via wireless or 4G 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.
 - 6.3.2 Where to download

Go to App Store / Play Store from your iOS / Android mobile devices 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.

6.3.3 Manual Setup

Note: To know how to configure by EaZy Networking, please refer to "APPENDIX 6 EAZY NETWORKING" at page 67.

Step1: Open EagleEyes to go to the address book.

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

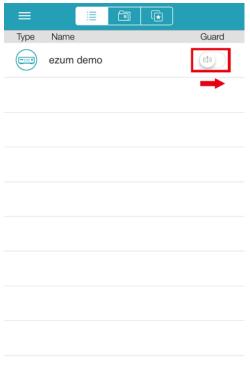
Туре	Name	_		Guard
Se	lect <fa7v></fa7v>	only for Eaz	y Networking	device
			other produc	
		EaZy	,	
<u> </u>		242)		_
		Manu	al	
	_	_		_
		Canc	el	- 1
+	(d)	क्रम	(!)	
Add		Play	(!) Push Statu	s Push Log

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.

Cancel	Save
REQUIRED	
Title	ezum demo
IP Address	avezum2.ddns.eagleeyes.t
Port	8080
Username	ezum_demo
Password	•••••
Get Type	DVR (16 CH)
OPTIONAL	
Audio	CH1 (i
Quality of priority	
Multiple Channel Resolution	Low High
Single Channel Source	Sub Stream (i
Channel Title	\bigcirc

Step5: Click **Save** to return to the address book. Enable **Guard** to receive Push Video.





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

APPENDIX 1 PRODUCT SPECIFICATIONS

■ 16CH Models w/ IVS

		Model 1	Model 2	Model 3		
▼ Video						
Video System			NTSC / PAL (auto detection)			
Video Compression Fo	ormat		H.265			
Video Signal			IP / TVI / CVI / Analog HD / 960H			
Video Input		16 pentabrid channels, within which IP channels are up to 8 channels	16 pentabr within which IP channe	id channels, Is are up to 12 channels		
Video Input Interface	Analog Mode	Col	mposite video signal 1 Vp-p 75Ω E	BNC		
	IP Mode		Ethernet, 1000 Base-T			
Video Output	BNC	YES (1080P display / Spot Monitor supp	ported)		
	VGA	YES ((1080P display / Spot Monitor supp	ported)		
	HDMI		YES (4K2K display)			
Video Resolution	Analog Mode	5MP / 5MLITE / 4N	1P / 4MLITE / FHD (1080P) / HD /	960H / Frame / CIF		
	IP Mode	2592 x 1944 / 2048 x	1536 / 1920 x 1080 / 1280 x 720 /	720 x 480 / 352 x 240		
▼ Record & Backup						
Max. Recording Rate	Analog Mode		Up to 96 IPS @ 5MP Up to 128 IPS @ 4MP Up to 240 IPS @ FHD (1080P)			
	IP Mode	UP to 120 IPS @ 2592 x 1944		@ 2592 x 1944		
		UP to 192 IPS @ 2048 x 1536		@ 2048 x 1536		
Depending Mode			UP to 240 IPS @ 1920 x 1080 UP to 360 IPS @ 1920 x 1080			
Recording Mode		Manual / Timer / Motion / Alarm / Remote 16CH				
Playback Channel Quick Search		Time / Motion / Alarm search mode				
Backup Device		USB 2.0 drive / Network				
Regular Backup		YES (USB hard drive or FTP)				
▼ Audio						
Audio Input		4 (built-in) + 12 (external)		4		
Audio Mput Audio Output (Mono)			1	4		
▼ External I/O			I			
RS485			YES			
Alarm Input		8				
Alarm Output		1				
▼ General						
Hard Disk Storage	Hard Disk Storage Either two 16TB SATA 16TB SATA HDD x 4 16TB SATA HDD x 3 16TB SATA HDD x 4 16TB SATA HDD x 3					
SATA Interface		YES				
eSATA Interface		NO Expandable with a SATA to eSATA cable				
Image Quality Setting		SUPER BEST / BEST / HIGH / NORMAL				
USB Mouse Control		YES				
Motion Detection Area		16 × 12 grids per channel				
Motion Detection Sens	itivity	3 adjustable parameters for accurate detection				
Event Notification		Push Video / Push Status / FTP / E-Mail				
Event Pop-up & Previe	W		YES			

	Model 1 Model 2 Model 3							
▼ General								
Scenario Setup	YES							
Picture Zoom		2X digital zoom						
PTZ Control		YES						
Key Lock (Password Protection)	YES							
User Level	4 us	4 user levels for different access privilege						
Video Loss Detection		YES						
Camera Title		Supports up to 25 letters						
Video Adjustable		e / Saturation / Contrast / Brightne						
Date Display Format	Y'	Y/MM/DD, DD/MM/YY & MM/DD/Y	ΎΥ					
Daylight Saving		YES						
Power Source (±10%)	12V / 6A		/ 4A					
Operating Temperature		10 °C ~ 40 °C (50 °F ~104 °F)						
Operating Humidity		10% ~ 85%						
Dimensions (mm)**	432 × 90 × 326	375 x 27	73.8 x 77					
Net Weight (kg)	2.6	2	.6					
▼ Network								
Ethernet	1000 Base-T. S	1000 Base-T. Supports remote control and live view via Ethernet						
Network Protocol	-	TCP/IP, PPPOE, DHCP and DDNS	3					
▼ Remote Surveillance from PC								
Compatible Operating System		Windows & MAC						
Compatible Program	Web Browser: Windows Edge	, Internet Explorer, Google Chrome	e, Safari & Mozilla Firefox					
	CMS Lite: 32CH central m	anagement software for Windows	OS					
Max. online users		20						
Web Transmitting Compression Format		H.265						
Network Live Audio		YES						
Remote Event Download & Playback		YES						
▼ Mobile Surveillance								
Арр		EagleEyes						
Compatible Devices		iOS & Android mobile devices						
Push Video		16CH						
Push Status		YES						
▼ Others								
EaZy Networking		YES						
IVS		4 channels in analog mode						
Spot Monitor Setup	YES (VGA & Composite)							
DCCS Support	YES							
Free DDNS service	YES							
Privacy Mask	YES							
Multiplex Operation	Live display / record / playback / backup / network operations							
System Recovery	System auto recovery after power failure							
Optional Peripherals	HDMI Matrix (HDM02) / USB Joystick (AVX102) / External audio kit (AUDIO12KIT)	HDMI Matrix (HDM02) / USB Joystick (AVX102) / SATA to eSATA cable (PWSC07F120200)						

* The specifications are subject to change without notice.

** Dimensional tolerance: ±5mm

■ 16CH Models w/o IVS

		Model 4	Model 5	Model 6	Model 7		
▼ Video							
Video System			NTSC / PAL (a	auto detection)			
Video Compression Fo	ormat		H.2	265			
Video Signal			IP / TVI / CVI / A	nalog HD / 960H			
Video Input			16 pentabri within which IP channe	d channels, Is are up to 2 channels			
Video Input Interface	Analog Mode		Composite video sig	nal 1 Vp-p 75Ω BNC			
	IP Mode		Ethernet, 1	000 Base-T			
Video Output	BNC		YES (1080P display / S	Spot Monitor supported)			
	VGA	YES (1080P display / Spot Monitor supported)	YES (1080P display / Spot Monitor supported / unavailable when video display is set to 4K2K)		ES ot Monitor supported)		
	HDMI		YES (4K2	K display)			
Video Resolution	Analog Mode	5MP / 5N	ILITE / 4MP / 4MLITE / FHI	D (1080P) / HD / 960H / F	rame / CIF		
	IP Mode	2592 x 1944	l / 2048 x 1536 / 1920 x 10	80 / 1280 x 720 / 720 x 48	30 / 352 x 240		
▼ Record & Backup)						
Max. Recording Rate	Analog Mode		Up to 96 IF Up to 128 I Up to 240 IPS (
	IP Mode	UP to 30 IPS @ 2592 x 1944 (5MP) UP to 48 IPS @ 2048 x 1536 (3MP) UP to 60 IPS @ 1920 x 1080					
Recording Mode		Manual / Timer / Motion / Alarm / Remote					
Playback Channel		16CH					
Quick Search		Time / Motion / Alarm search mode					
Backup Device		USB 2.0 drive / Network					
Regular Backup		YES (USB hard drive or FTP)					
▼ Audio							
Audio Input		4 2					
Audio Output (Mono)		1 1 1					
▼ External I/O							
RS485			YE	ES			
Alarm Input		NO	4		10		
Alarm Output		NO	1	N	10		
▼ General			T	Γ			
Hard Disk Storage		16TB SATA HDD x 2 or 14TB SATA HDD x 2 14TB SATA HDD x 2 14TB SATA HDD x 2 16TB SATA HDD x 1 + external disk array x 1 connected to the recorder via the eSATA interface		16TB SATA HDD x 1	16TB SATA HDD x 1 or external disk array x 1 connected to the recorder via the eSATA interface		
SATA Interface			YE	ËS			
eSATA Interface		NOExpandable with a SATA to eSATA cableNOExpandable with a SAT to eSATA cable					
Image Quality Setting		SUPER BEST / BEST / HIGH / NORMAL					
USB Mouse Control		YES					
Motion Detection Area			16 × 12 grids per channel				
Motion Detection Sens	sitivity	3 adjustable parameters for accurate detection					
Event Notification				Status / FTP / E-Mail			
Event Pop-up & Previe	ew	YES					

✓ General YEs Scenario Selup YEs Picture Zoom 2X digital zoom PTZ Control YES Key Look (Password Protection) YES User Level 4 user levels for different access privilege Video Loss Detection YES Camear Tille Supports to to 25 letters: Video Adjustable Hue / Saturation / Contrast / Brightness Date Delegiey Format YVMMLOD, DDMM/YX MMDD/YY Date Delegiey Format YVMMLOD, DDMM/YX MMDD/YY Parent Source (±10%) 12V / 4A 12V / 3A Operating Temperature 10° < 40° (50°/~10°(1)) 20 × 255.7 x 48 313.5 x 254.9 x 52 Parent Source (±10%) 1.7 1.2 1.7 Network TCPIP, PPPOE, DHCP and DDNS TEmment Demention (mm)** 319.5 x 254.9 x 52 20 × 255.7 x 48 319.5 x 254.9 x 52 Network Etemment 1000 Base-1. Supports remote control and live view via Ethernet Network Vestore YES YES Orgention Qeneraling System Windows & MAC YES Compatib		Model 4	Model 5	Model 6	Model 7		
Picture Zoom 2X digital zoom PTZ Contral YES Key Lock (Password Protection) VES User Level 4 user levels for different access privilege Camera Title Supports up to 25 letters Video Loss Detection YYMMDD, DDMMYY & MMIDD/YY Date Display Format YYMMDD, DDMMYY & MMIDD/YY Dereting Temperature 10° - 40° (50° Y-104 F) Operating Temperature 10° Base T. Supports remote control and Ive view via Ethernet Network Protocol TCP/IP, PPPOE, DHCP and DDNS Venterating System Windows & MAC Compatible Program Web Browser: Windows Edge, Internet Explorer. Google Chrome, Safarl & Mozilla Firefox Compatible Program Windows Edge, Internet Explorer. Google Chrome, Safarl & Mozilla Firefox Campatible Devices 10° A A	▼ General						
PTZ Control YES Key Lock (Password Protection) YES User Level 4 user levels for different access privilege Video Loss Detection YES Camera Tile Supports up to 25 letters Video Adjustable Hurr / Staturioni Contrast / Bightness Date Display Format YY/MMOD, DD/MM/YY & MMDD/YY Daying Italia YY/MMOD, DD/MM/YY & MMDD/YY Operating Temperature 10° – 40°C (60° – 104°C) Operating Temperature 10° – 45% Dimenations (min)" 319.5 x 254.9 x 52 280 x 235.7 x 48 319.5 x 254.9 x 52 Verkinck (c) 1.7 1.2 1.7 1.2 1.7 Verkinck (c) 1.7 1.2 1.7 1.2 1.7 Verkinck (c) Compatible Operating System Windows 6 MAC Compatible Parking System System System System	Scenario Setup		Y	ES			
Key Lock (Password Protection) YES User Level 4 user levels for different access privilege Video Loss Detection Video Loss Detection YES Supports up to 25 letters Camera Title Supports up to 25 letters Video Loss Detection Data Display Format YY/MMUDD, DIM/MYY & MMUDOYY Detylight Swing Data Display Format YY/MMUDD, DIM/MYY & MMUDOYY Deprivation (Contrast / Brightness) Operating Temperature YY/MMUDD, DIM/MYY & MMUDOYY Deprivation (Contrast / Brightness) Operating Temperature YY/MMUDD, DIM/MYY & MMUDOYY 319.5 x 254.9 x 52 260 x 235.7 x 48 319.5 x 254.9 x 52 Depreting Temperature YMVRMY 1.2 1.7 Y Operating Temperature 1.7 1.2 1.7 Y Network Yebrok TCP/IP, PPPOE, DHCP and DDNS Yebrok Network Protocol TCP/IP, PPPOE, DHCP and DDNS Yebrok Yebrok Compatible Operating System Windows & MAC Yebrok Yebrok Yebrok Web Transmitting Compression Format H 285 Yebrok Yebrok Yebrok	Picture Zoom		2X digit	al zoom			
User Level 4 user levels for different access privilege Video Loss Detection YES Camera Title Supports up to 25 letters Video Adjustable Hue / Saturation / Contrast / Brightness Date Display Format YY/MM/DD, DD/MM/Y* & MM/DD/Y* Daylight Saving YES Power Source (±0%) 12V / 4A 12V / 3A Operating Temperature 10% - 40% (50 T - 104 T) Operating Temperature 10% - 40% (50 T - 104 T) Demonsions (mm)* 319.5 x 254.9 x 52 Net Weight (kg) 1.7 1.2 1.7 NetWork 1000 Base T. Supports remote control and live view via Ethemet 1000 Base T. Supports remote control and live view via Ethemet Network TCP/IP, PPPCb, DHCP and DDNS V Remote Surveillance from PC CMS Lite: 32CH central management software for Windows 0S Max online users 20 V V Veb Browser: Vindows Edge. Internet Explorer, Google Chrome, Safari & Mozilla Firefox CMS Lite: 32CH central management software for Windows 0S Max on line users 20 V Veb Trasmitting Compre	PTZ Control		Y	ES			
Video Loss Detection VES Camera Title Supports up to 25 letters Velos Adjustable Date Display Format V/VMMIDD, DD/MM/YY & MM/DD/YY Davight Saving YES Power Source (±10%) 12V / 4A 12V / 3A Operating Temperature 10°C - 40°C (40°L104°F) Operating Temperature 10°C - 40°C (40°L104°F) Operating Temperature 10°C - 40°C (40°L104°F) Operating Injunctify 10% - 85% Dimensions (mm)* 319.5 x 254.9 x 52 200 x 235.7 x 48 319.5 x 254.9 x 52 Net Weight (kg) 1.7 1.2 1.7 V Network K Ethernet 1000 Base T. Supports remote control and live view via Ethernet Network Protocol TCP/IP, PPPOE, DHCP and DDNS V Remote Surveillance from PC Compatible Operating System Windows & MAC Compatible Operating System Windows Edge. Internet Explorer. Congle Chrome. Safari & Mozilla Firefox CMS Lite: 32CH central management software for Windows OS Max. online users 20 Web Transmitting Compression Format H.265 Network Live Audo YES Remote Event Download & Playback YES V Moties Surveillance Explored 4CH 16CH 4CH Push Status YES V Others Eddy Surveillance For Surveill	Key Lock (Password Protection)		Y	ES			
Camera TitleSupports up to 25 lettersVideo AdjustableHue / Saturation / Contrast / BrightnessDate Display FormatYY/MM/DD, DD/MM/YY & MM/DD/YYDate Display FormatYY/MM/DD, DD/MM/YY & MM/DD/YYDevelop Explicit AssignmentYY/M/DD, DD/MM/YY & MM/DD/YYDevelop Explicit Assignment12V / 4AOperating Temperature10°C ~ 40°C (50°C ~ 104°F)Operating Temperature10°C ~ 40°C (50°C ~ 104°F)Network1.71.21.7Network1.71.21.7Vetwork10°C = 40°C (50°C Control and live view via Ethernet10°C = 40°C (50°C Control and DNSVetwork ProtocolTCP/IP, PPPOE, DHCP and DDNS1.7Vetwork ProtocolCOPIP, PPPOE, DHCP and DDNS1.7Vetwork ProtocolCOS = 10°C (50°C Chrome, Safari & Mozilla FirefoxCompatible Operating SystemWindows Edge, Internet Explorer, Google Chrome, Safari & Mozilla FirefoxCompatible Operating SystemVeb Browser: Windows Edge, Internet Explorer, Google Chrome, Safari & Mozilla FirefoxCompatible Operating Compression FormatH 286Meb Transmitting Compression FormatH 286Network Live AudioYESPerate Evert Download & Pl	User Level		4 user levels for diffe	erent access privilege			
Video Adjustable Hue / Saturation / Contrast / Brightness Date Diploy Format YY/MM/DD, DD/MM/Y* & MM/DD/YY Daylight Saving YES Dever Source (10%) 12V / 4A 12V / 3A Operating Temperature 10° < 40° (50° F - 104°)							
Date Display Format YY/MM/DD, DD/MM/YY & MM/DD/YY Dayight Saving YES Power Source (±10%) 12V / 4A I2V / 3A Operating Temperature 10V: ~40°C (50°T-104°T) Operating Temperature Operating Temperature 10V: ~40°C (50°T-104°T) 319.5 x 254.9 x 52 280 x 235.7 x 48 319.5 x 254.9 x 52 Net Weight (kg) 1.7 1.2 1.7 V Network 1000 Base-T. Supports remote control and live view via Ethernet 1000 Base-T. Supports remote control and live view via Ethernet Network Protocol TCP/IP, PPPOE, DHCP and DDNS Vestwork Compatible Program Web Browser: Windows & MAC 20 Web Browser: Windows Edge, Internet Exptorer, Google Chrome, Safari & Mozilla Firefox CMS Lite: 32CH central management software for Windows OS Max. online users 20 Web Browser: Windows Edge, Internet Exptorer, Google Chrome, Safari & Mozilla Firefox Vorkinds Live Audio YES 20 Ves Methor Live Audio YES YES Ves Vabile Surveillance YES Ves YeS Volters Sost Android mobile devices YES							
Daylight Saving YES Power Source (±10%) 12V / 4A 12V / 3A Operating Temperature 10°C ~ 4°C (50°F-104°F) 00°K ~ 85% Dimensions (mm)** 319.5 x 254.9 x 52 260 x 235.7 x 48 319.5 x 254.9 x 52 Net Weight (kg) 1.7 1.2 1.7 Network 10°C ~ 4°C (50°F-104°F) 1.2 1.7 Network 1.2 1.7 1.2 1.7 Network 1000 Base-T. Supports remote control and live view via Ethernet 1000 Base-T. Supports remote control and live view via Ethernet Network Protocol TCP/IP, PPPOE, DHCP and DDNS Yes Remote Surveillance from PC Compatible Operating System Web Browser: Windows & MAC Compatible Program Web Browser: Windows Edge, Internet Explorer, Google Chrome, Safari & Mozilia Firefox CMS Lite: 32CH central management software for Windows OS Max. online users 20 Web Transmitting Compression Format H265 Network Live Audio YES Mobile Surveillance Yes App EagleEyes Compatible Devices iOS & Android mobile devices Push Video 4CH 16CH Push Status YES Y Others NO Sopt Monitor Setup YES (VGA				-			
Power Source (±10%) 12V / 4A 12V / 3A Operating Temperature 10°C ~ 40°C (50°T~104°T)							
Operating Temperature 10° - 40° (50° F-104° F) Operating Humidity 10% - 65% Dimensions (mm)** 319.5 x 254.9 x 52 260 x 235.7 x 48 319.5 x 254.9 x 52 Net Weight (kg) 1.7 1.2 1.7 International (kg) 1.000 Base-T. Supports remote control and live view via Ethernet 1.7 Network Itemation (kg) 1.7 1.2 1.7 Vetwork Protocol TCP/IP, PPOE, DHCP and DDNS Itemation (kg) Itema	Daylight Saving						
Operating Humidity 10% ~ 85% Dimensions (mm)** 319.5 x 254.9 x 52 260 x 235.7 x 48 319.5 x 254.9 x 52 Net Weight (kg) 1.7 1.2 1.7 ▼ Network 1000 Base-T. Supports remote control and live view via Ethernet Network POPCE, DHCP and DDNS ▼ Remote Surveillance from PC TCP/IP, PPPOE, DHCP and DDNS ▼ Remote Surveillance from PC Compatible Operating System Windows Edge, Internet Explorer, Google Chrome, Safari & Mozilla Firefox Compatible Program Web Browser: Windows Edge, Internet Explorer, Google Chrome, Safari & Mozilla Firefox CMS Lite: 32CH central management software for Windows OS Max. online users 20 Web Transmitting Compression Format H.265 Network Live Audio Y ES V Mobile Surveillance YES App EagleEyes Compatible Devices IOS & Android mobile devices Push Video 4CH 18CH V Others YES VS NO Spot Monitor Setup YES DicK Support YES Price DDNS service YES	Power Source (±10%)	12\	′ / 4A	12V	' / 3A		
Dimensions (mm)** 319.5 x 254.9 x 52 260 x 235.7 x 48 319.5 x 254.9 x 52 Net Weight (kg) 1.7 1.2 1.7 Image: Network 1.2 1.7 1.2 1.7 Image: Network 1000 Base-T. Supports remote control and live view via Ethernet 1.7 1.2 1.7 Network Protocol TCP/IP. PPPOE. DHCP and DDNS TCP/IP. PPDE. DHCP and DDNS Image: Network Network Network Network Network Network Network Network Network Start & Mozilla Firefox Compatible Operating System Web Browser: Windows Edge, Internet Explorer, Google Chrome, Safari & Mozilla Firefox Compatible Program Web Browser: Windows Edge, Internet Explorer, Google Chrome, Safari & Mozilla Firefox Max. online users 20 Web Transmitting Compression Format H 285 Network Live Audio YES Remote Event Download & Playback YES Mobile Surveillance YES Compatible Devices IOS & Android mobile devices Push Status YES Video 4CH 16CH Push Status YES Volters NO Sott Monitor Selup	Operating Temperature		10 °C ~ 40 °C	(50°F∼104°F)			
Net Weight (kg) 1.7 1.2 1.7 ▼ Network 1000 Base-T. Supports remote control and live view via Ethernet Network Protocol TCP/IP, PPPOE, DHCP and DDNS ▼ Remote Surveillance from PC TCP/IP, PPPOE, DHCP and DDNS Versettee Network Protocol Compatible Operating System Web Browser: Windows & MAC Compatible Operating System Network Compatible Program Web Browser: Windows Edge, Internet Explorer, Google Chrome, Safari & MozIlla Firefox CMS Lite: 32CH central management software for Windows OS Max. online users 20 Web Transmitting Compression Format H.285 Network Live Audio YES Yes Volbile Surveillance App EagleEyes Compatible Devices Push Video 4CH Push Status YES Yes Yes Yes Volters Yes NO Spot Monitor Setup Yes No Yes Yes Yes Yes Vinduesk YES Yes Yes Yes Yothers Yes Yes Yes Yes Yes Yes <td>Operating Humidity</td> <td></td> <td>10%</td> <td>~ 85%</td> <td></td>	Operating Humidity		10%	~ 85%			
▼ Network Ethernet 1000 Base-T. Supports remote control and live view via Ethernet Network Protocol TCP/IP, PPPOE, DHCP and DDNS ▼ Remote Surveillance from PC Windows & MAC Compatible Operating System Windows & MAC Compatible Program Web Browser: Windows Edge, Internet Explorer, Google Chrome, Safari & Mozilla Firefox CMS Lite: 32CH central management software for Windows OS Max. online users 20 Web Transmitting Compression Format H.265 Network Live Audio YES Remote Event Download & Playback YES V Mobile Surveillance YES App EagleEyes Compatible Devices iOS & Android mobile devices Push Status YES V Others YES Eazly Networkling YES NS NO Spot Monitor Setup YES VES DUS Service YES Privacy Mask YES Multiplex Operation Live display / record / playback / backup / network operations System Recovery System auto recovery after power failure <	Dimensions (mm)**	319.5 x 2	254.9 x 52	260 x 235.7 x 48	319.5 x 254.9 x 52		
Ethernet 1000 Base-T. Supports remote control and live view via Ethernet Network Protocol TCP/IP, PPPOE, DHCP and DDNS ▼ Remote Surveillance from PC Windows & MAC Compatible Operating System Windows Edge, Internet Explorer, Google Chrome, Safari & Mozilla Firefox Compatible Program Web Browser: Windows Edge, Internet Explorer, Google Chrome, Safari & Mozilla Firefox Compatible Surveillance 20 Modine users 20 Web Transmitting Compression Format H.265 1265 Network Live Audio YES VES Remote Event Download & Playback YES Ves Voltes IOS & Android mobile devices 1000 Kardine users Push Status YES Ves Volters YES Ves Eazy Networking YES Ves Volters YES Ves Free DDNS service YES YES Privacy Mask YES YES Multiplex Operation Live display / record / playback / backup / network operations System Recovery System auto recovery after power failure VES Ves Modine K(MDMO2) / USB Joystick (MXX102)	Net Weight (kg)	1	.7	1.2	1.7		
Network Protocol TCP/IP. PPPCE, DHCP and DDNS ▼ Remote Surveillance from PC Windows & MAC Compatible Operating System Windows Edge, Internet Explorer, Google Chrome, Safari & Mozilla Firefox Compatible Program Web Browser: Windows Edge, Internet Explorer, Google Chrome, Safari & Mozilla Firefox CMS Lite: 32CH central management software for Windows OS Max. online users 20 Web Transmitting Compression Format H.265 Network Live Audio YES Remote Event Download & Playback YES Vobile Surveillance YES App EagleEyes Compatible Devices IOS & Android mobile devices Push Video 4CH 16CH 4CH Push Status YES Vestillance Vobilers YES Vestillance Push Status YES Vestillance Push Status YES Vestillance VObilers YES Vestillance Vestillance Privacy Mask YES Vestillance Vestillance Vindow Status YES Vestillance Vestillance Privacy Mas	▼ Network						
▼ Remote Surveillance from PC Compatible Operating System Windows & MAC Compatible Program Web Browser: Windows Edge, Internet Explorer, Google Chrome, Safari & Mozilla Firefox CMS Lite: 32CH central management software for Windows OS Max. online users 20 Web Transmitting Compression Format H.265 Network Live Audio YES Remote Event Download & Playback YES ✓ Mobile Surveillance YES App EagleEyes Compatible Devices IOS & Android mobile devices Push Video 4CH 16CH 4CH Push Status YES YES Yes V Others VES NO Spot Monitor Setup YES DCCS Support YES YES Yes Yes Free DDNS service YES YES Yes Yes Multiplex Operation Live display / record / playback / backup / network operations System auto recovery after power failure Yes Jopstick (AVX102) HDMI Matrix (HDM02) / USB Joystick (AVX102) HDMI Matrix (HDM02) / USB Joystick (AVX102) SATA to eSATA cable	Ethernet	1000	Base-T. Supports remote of	control and live view via E	thernet		
Compatible Operating System Windows Edge, Internet Explorer, Google Chrome, Safari & Mozilla Firefox Compatible Program Web Browser: Windows Edge, Internet Explorer, Google Chrome, Safari & Mozilla Firefox Max. online users 20 Web Transmitting Compression Format H.265 Network Live Audio YES Remote Event Download & Playback YES V Mobile Surveillance YES App EagleEyes Compatible Devices IOS & Android Push Status YES V Others YES Votiers YES Sot Monitor Setup YES (VGA & Composite) DCCS Support YES Free DDNS service YES Privacy Mask YES Multiplex Operation Live display / record / playback / backup / network operations System Recovery System auto recovery after power failure VOthoral Peripherals HDMI Matrix (HDM02) / USB Joystick (AVX102)	Network Protocol		TCP/IP, PPPOE,	DHCP and DDNS			
Web Browser: Windows Edge, Internet Explorer, Google Chrome, Safari & Mozilla Firefox Compatible Program Web Browser: 20 Max. online users 20 Web Transmitting Compression Format H.265 Network Live Audio YES Remote Event Download & Playback YES V Mobile Surveillance IOS & Android mobile devices App EagleEyes Compatible Devices IOS & Android mobile devices Push Video 4CH 16CH Push Status YES V Others YES Eazly Networking YES IVS NO Spot Monitor Setup YES Privacy Mask YES Privacy Mask YES Multiplex Operation Live display / record / playback / backup / network operations System Recovery System auto recovery after power failure Optional Peripherals HDMI Matrix (HDM02) / USB Joystick (AVX102) HDMI Matrix (HDM02) / USB Joystick (AVX102) HDMI Matrix (HDM02) / USB Joystick (AVX102) SATA to eSATA cable	▼ Remote Surveillance from PC						
CMS Lite: 32CH central management software for Windows OS Max. online users 20 Web Transmitting Compression Format H.265 Network Live Audio YES Remote Event Download & Playback YES Mobile Surveillance YES App EagleEyes Compatible Devices IOS & Android mobile devices Push Video 4CH Push Status YES V Others YES EaZy Networking YES IVS NO Spot Monitor Setup YES VS YES Free DDNS service YES Privacy Mask YES Multiplex Operation Live display / record / playback / backup / network operations System Recovery System auto recovery after power failure Optional Peripherals HDMI Matrix (HDM02) / USB Joystick (AVX102) HDMI Matrin (HDM02) / USB Jo	Compatible Operating System		Window	s & MAC			
Max. online users 20 Web Transmitting Compression Format H.265 Network Live Audio YES Remote Event Download & Playback YES ✓ Mobile Surveillance YES App EagleEyes Compatible Devices iOS & Android mobile devices Push Video 4CH 16CH 4CH Push Status YES YES ✓ Others Ves YES EaZy Networking YES YES NO Spot Monitor Setup YES (VGA & Composite) DCCS Support YES YES Privacy Mask YES YES Multiplex Operation Live display / record / playback / backup / network operations System Recovery System auto recovery after power failure Optional Peripherals HDMI Matrix (HDM02) / USB Joystick (AVX102) HDMI Matrix (HDM02) / SATA to eSATA cable	Compatible Program	Web Browser: Windov	vs Edge, Internet Explorer,	Google Chrome, Safari &	Mozilla Firefox		
Web Transmitting Compression Format H 265 Network Live Audio YES Remote Event Download & Playback YES ✓ Mobile Surveillance YES App EagleEyes Compatible Devices 4CH 16CH 4CH Push Video 4CH Voties YES Voties YES Voters YES VS Others YES Spot Monitor Setup YES (VGA & Composite) DCCS Support YES Privacy Mask YES Privacy Mask YES Multiplex Operation Live display / record / playback / backup / network operations System Recovery System actorecovery after power failure Optional Peripherals HDMI Matrix (HDM02) / USB Joystick (AVX102) HDMI Matrix (HDM02) / SATA to eSATA cabe)		CMS Lite: 32CH c	entral management softwa	are for Windows OS			
Network Live Audio YES Remote Event Download & Playback YES ✓ Mobile Surveillance	Max. online users		2	0			
Remote Event Download & Playback YES App EagleEyes Compatible Devices IOS & Android mobile devices Push Video 4CH 16CH 4CH Push Status YES YES V Others YES YES EaZy Networking YES YES IVS NO Sopt Monitor Setup YES DCCS Support YES YES YES Free DDNS service YES YES YES Privacy Mask YES YES YES Multiplex Operation Live display / record / playback / backup / network operations System Recovery after power failure Optional Peripherals HDMI Matrix (HDM02) / USB Joystick (AVX102) HDMI Matrix (HDM02) / USB Joystick (AVX102) HDMI Matrix (HDM02) / SATA to eSATA cable	Web Transmitting Compression Format		H.:	265			
▼ Mobile Surveillance App EagleEyes Compatible Devices iOS & Android mobile devices Push Video 4CH 16CH 4CH Push Status YES YES ▼ Others YES VIS NO Spot Monitor Setup YES (VGA & Composite) YES DCCS Support YES YES Free DDNS service YES YES Multiplex Operation Live display / record / playback / backup / network operations System auto recovery after power failure Optional Peripherals HDMI Matrix (HDM02) / USB Joystick (AVX102) HDMI Matrix (HDM02) / USB Joystick (AVX102) HDMI Matrix (HDM02) / USB Joystick (AVX102)	Network Live Audio		Y	ES			
AppEagle JewiceCompatible DevicesiOS & Android mobile devicesPush Video4CH16CHPush StatusYESVothersYESEaZy NetworkingYESIVSNOSpot Monitor SetupYES (VGA & Composite)DCCS SupportYESFree DDNS serviceYESPrivacy MaskYESMultiplex OperationLive display / record / playback / backup / network operationsSystem RecoverySystem auto recovery after power failureOptional PeripheralsHDMI Matrix (HDM02) / USB Joystick (AVX102)HDMI Matrix (HDM02) / SATA to eSATA cableHDMI Matrix (HDM02) / USB Joystick (AVX102)	Remote Event Download & Playback		Y	ES			
Compatible Devices iOS & Android mobile devices Push Video 4CH 16CH 4CH Push Status YES YES ▼ Others YES NO Spot Monitor Setup YES NO Spot Monitor Setup YES YES DCCS Support YES YES Free DDNS service YES YES Privacy Mask YES YES Multiplex Operation Live display / record / playback / backup / network operations System auto recovery after power failure Optional Peripherals HDMI Matrix (HDM02) / USB Joystick (AVX102) / USB Joystick (AVX102) / SATA to eSATA cable HDMI Matrix (HDM02) / USB Joystick (AVX102) / SATA to eSATA cable	▼ Mobile Surveillance						
Push Video 4CH 16CH 4CH Push Status YES ▼ Others EaZy Networking YES IVS NO Spot Monitor Setup YES (VGA & Composite) DCCS Support YES Free DDNS service YES Privacy Mask YES Multiplex Operation Live display / record / playback / backup / network operations System Recovery System auto recovery after power failure Optional Peripherals HDMI Matrix (HDM02) / USB Joystick (AVX102) SATA to eSATA cable	Арр		Eagle	Eyes			
Push Status YES ✓ Others YES EaZy Networking YES IVS NO Spot Monitor Setup YES (VGA & Composite) DCCS Support YES Free DDNS service YES Privacy Mask YES Multiplex Operation Live display / record / playback / backup / network operations System Recovery System auto recovery after power failure Optional Peripherals HDMI Matrix (HDM02) / USB Joystick (AVX102) HDMI Matrix (HDM02) / SATA to eSATA cable HDMI Matrix (HDM02) / USB Joystick (AVX102)	Compatible Devices		iOS & Android	mobile devices			
▼ Others EaZy Networking YES IVS NO Spot Monitor Setup YES (VGA & Composite) DCCS Support YES Free DDNS service YES Privacy Mask YES Multiplex Operation Live display / record / playback / backup / network operations System Recovery System auto recovery after power failure Optional Peripherals HDMI Matrix (HDM02) / USB Joystick (AVX102) HDMI Matrix (HDM02) / SATA to eSATA cable HDMI Matrix (HDM02) / USB Joystick (AVX102) HDMI Matrix (HDM02) / USB Joystick (AVX102) HDMI Matrix (HDM02) / SATA to eSATA cable	Push Video	4CH	16CH	40	СН		
EaZy Networking YES IVS NO Spot Monitor Setup YES (VGA & Composite) DCCS Support YES Free DDNS service YES Privacy Mask YES Multiplex Operation Live display / record / playback / backup / network operations System Recovery System auto recovery after power failure Optional Peripherals HDMI Matrix (HDM02) / USB Joystick (AVX102) HDMI Matrix (HDM02) / SATA to eSATA cable HDMI Matrix (HDM02) / USB Joystick (AVX102) HDMI Matrix (HDM02) / SATA to eSATA cable HDMI Matrix (HDM02) / USB Joystick (AVX102) HDMI Matrix (HDM02) / SATA to eSATA cable HDMI Matrix (HDM02) / USB Joystick (AVX102) HDMI Matrix (HDM02) / SATA to eSATA cable HDMI Matrix (HDM02) / USB Joystick (AVX102) HDMI Matrix (HDM02) / SATA to eSATA cable HDMI Matrix (HDM02) / USB Joystick (AVX102) SATA to eSATA cable	Push Status		Y	ËS			
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Spot Monitor Setup YES (VGA & Composite) DCCS Support YES Free DDNS service YES Privacy Mask YES Multiplex Operation Live display / record / playback / backup / network operations System Recovery HDMI Matrix (HDM02) / USB Joystick (AVX102) HDMI Matrix (HDM02) / USB Joystick (AVX102) / SATA to eSATA cable	EaZy Networking		Y	ES			
DCCS Support YES Free DDNS service YES Privacy Mask YES Multiplex Operation Live display / record / playback / backup / network operations System Recovery System auto recovery after power failure Voptional Peripherals HDMI Matrix (HDM02) / USB Joystick (AVX102) HDMI Matrix (HDM02) / SATA to eSATA cable HDMI Matrix (HDM02) / USB Joystick (AVX102)	IVS		Ν	0			
DCCS Support YES Free DDNS service YES Privacy Mask YES Multiplex Operation Live display / record / playback / backup / network operations System Recovery System auto recovery after power failure Voptional Peripherals HDMI Matrix (HDM02) / USB Joystick (AVX102) HDMI Matrix (HDM02) / SATA to eSATA cable HDMI Matrix (HDM02) / USB Joystick (AVX102)	Spot Monitor Setup						
Free DDNS service YES Privacy Mask YES Multiplex Operation Live display / record / playback / backup / network operations System Recovery System auto recovery after power failure Optional Peripherals HDMI Matrix (HDM02) / USB Joystick (AVX102) HDMI Matrix							
Privacy Mask YES Multiplex Operation Live display / record / playback / backup / network operations System Recovery System auto recovery after power failure Optional Peripherals HDMI Matrix (HDM02) / USB Joystick (AVX102) HDMI Matrix (HDM02) / U		YES					
Multiplex Operation Live display / record / playback / backup / network operations System Recovery System auto recovery after power failure Optional Peripherals HDMI Matrix (HDM02) / USB Joystick (AVX102) HDMI Matrix (HDM02) / USB Joys		YES					
System Recovery System auto recovery after power failure Optional Peripherals HDMI Matrix (HDM02) / USB Joystick (AVX102) HDMI Matrix (HDM02) / USB Joystick (AVX102)<	-						
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Optional Peripherals HDMI Matrix (HDM02) / USB Joystick (AVX102) / USB Joystick (AVX102) / SATA to eSATA cable HDMI Matrix (HDM02) / USB Joystick (AVX102) / SATA to eSATA cable			-				
	Optional Peripherals	· · · · ·	USB Joystick (AVX102) / SATA to eSATA cable	· · · ·	USB Joystick (AVX102) / SATA to eSATA cable		

 * The specifications are subject to change without notice.

** Dimensional tolerance: ±5mm

■ 8CH & 4CH Models

		Model 8 Model 9 Model 10 Model 11 Model 12 Model					Model 13	
▼ Video								
Video System				NTSC / PAL (a	auto detection)			
Video Compression F	ormat	H.265						
Video Signal				IP / TVI / CVI / A	nalog HD / 960H			
Video Input		8 pentabrid channels + 1 IP channel	which IP chan	hannels, within nels are up to 2 nnels	4 pentabrid channels, within which IP channels are up to 4 channels	which IP char	hannels, within inels are up to 2 innels	
Video Input Interface	Analog Mode		Composite video signal 1 Vp-p 75Ω BNC			NC		
	IP Mode			Ethernet, 1	000 Base-T			
Video Output	BNC	YES (1080P d	isplay / Spot Moi	nitor supported)	YE	ES (1080P displ	ay)	
	VGA	YES (1080P display / Spot Mon YES (1080P display / Spot Monitor supported)		YES (1080P display / Spot Monitor supported / unavailable when video display is set to 4K2K)	YES (1080P display) YES (1080P display) When vi display is		YES (1080P display / unavailable when video display is set to 4K2K)	
	HDMI			YES (4K2	K display)			
Video Resolution	Analog Mode	5N	1P / 5MLITE / 4N	1P / 4MLITE / FHI	D (1080P) / HD /	960H / Frame /	CIF	
	IP Mode	2592	x 1944 / 2048 x	1536 / 1920 x 10	80 / 1280 x 720 /	720 x 480 / 352	2 x 240	
▼ Record & Backup)	L						
Max. Recording Rate	Analog Mode	Up to 48 IPS @ 5MP Up to 64 IPS @ 4MP Up to 120 IPS @ FHD (1080P)			Up to 24 IPS @ 5MP Up to 32 IPS @ 4MP Up to 60 IPS @ FHD (1080P)			
	IP Mode	UP to 63 IPS @ 5MP UP to 90 IPS @ 3MP UP to 135 IPS @ 1080P	UP to 50 I	PS @ 5MP PS @ 3MP PS @ 1080P	UP to 28 IPS @ 5MP UP to 40 IPS @ 3MP UP to 60 IPS @ 1080P	UP to 30 IPS @ 5MP UP to 50 IPS @ 3MP UP to 60 IPS @ 1080P		
Recording Mode			Ма	nual / Timer / Mot	ion / Alarm / Rem	note		
Playback Channel			8CH			4CH		
Quick Search		Time / Motion / Alarm search mode						
Backup Device		USB 2.0 drive / Network						
Regular Backup		YES (USB hard drive or FTP)						
▼ Audio		I						
Audio Input		4						
Audio Output (Mono)		1						
▼ External I/O		ı 						
RS485		YES						
Alarm Input	Alarm Input		4					
Alarm Output		1						
▼ General								
Hard Disk Storage		14TB SATA HDD x 1 or external disk array x 1 connected to the recorder via the eSATA interface						
SATA Interface		YES						
eSATA Interface		Expandable with a SATA to eSATA cable						
Image Quality Setting		SUPER BEST / BEST / HIGH / NORMAL						
USB Mouse Control		YES						
Motion Detection Area		16 × 12 grids per channel						
Motion Detection Sen	sitivity	3 adjustable parameters for accurate detection						
Event Notification		Push Video / Push Status / FTP / E-Mail						

	Model 8 Model 9 Model 10 Model 11 Model 12 Model 13							
▼ General								
Event Pop-up & Preview YES								
Scenario Setup		YES						
Picture Zoom		2X digital zoom						
PTZ Control	YES							
Key Lock (Password Protection)		YES						
User Level		4 us	er levels for diffe	rent access privil	ege			
Video Loss Detection				ES				
Camera Title				to 25 letters				
Video Adjustable				Contrast / Brightne				
Date Display Format		Ŷ		M/YY & MM/DD/\	/Y			
Daylight Saving			YI	ES				
Power Source (±10%)			12V	/ 2A				
Operating Temperature			10° C ∼ 40 °C	(50°F∼104°F)				
Operating Humidity			10% ⁻	~ 85%				
Dimensions (mm)**			260 x 23	35.7 x 48				
Net Weight (kg)	1.3	1.	35		1.3			
▼ Network								
Ethernet		1000 Base-T. S	upports remote o	control and live vi	ew via Ethernet			
Network Protocol		TCP/IP, PPPOE, DHCP and DDNS						
▼ Remote Surveillance from PC								
Compatible Operating System			Windows	s & MAC				
Compatible Program	Web Browse	r: Windows E	dge, Internet Ex	plorer, Google Ch	nrome, Safari & N	/lozilla Firefox		
	CMS Lite:	32CH cent	ral management	software for Wind	dows OS			
Max. online users			2	0				
Web Transmitting Compression Format			H.2	265				
Network Live Audio			YE	ES				
Remote Event Download & Playback			YE	ES				
▼ Mobile Surveillance	<u> </u>							
Арр			Eagle	Eyes				
Compatible Devices			iOS & Android	mobile devices				
Push Video	8CH	2CH	8CH	4CH	1CH	4CH		
Push Status			Y	ES				
▼ Others	<u> </u>							
EaZy Networking			Y	ES				
IVS	4 channels in analog mode NO 4 channels in analog mode NO							
Spot Monitor Setup	YES (VGA & Composite) NO							
DCCS Support	YES							
Free DDNS service	YES							
Privacy Mask	YES							
Multiplex Operation	Live display / record / playback / backup / network operations							
System Recovery	System auto recovery after power failure							
Optional Peripherals	HDMI Matrix (HDM02) / USB Joystick (AVX102) / SATA to eSATA cable (PWSC07F120200)							
1	* The specifications are subject to change without notice.							

* The specifications are subject to change without notice. ** Dimensional tolerance: ±5mm

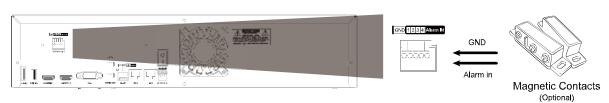
APPENDIX 2 PUSH VIDEO CONFIGURATION

Note: This function is for selected models only.

A2.1 Alarm Sensor Connection

Connect the alarm sensor, such as magnetic contacts, to the alarm-in port on the 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.



Then, go to **MENU** \rightarrow **PERIPHERAL** \rightarrow **LOCAL ALARM IN** to choose how the alarm sensor works (OFF / N.C. / N.O.), and go to **MENU** \rightarrow **CAMERA** \rightarrow **DETECTION** to enable **MOTION**.

If the connected camera is our brand's camera with alarm I/O support, you can also connect the alarm sensor to the camera.

Note: Please check the user manual of the camera to know voltage restriction for alarm-in device connection.



Then, go to **MENU** → **CAMERA** → **DETECTION** and make sure:

1. MOTION is set to **ON**.

2. ALARM is configured (N.C. / N.O.) when an external alarm device is connected, or **INTERNAL ALARM** is set to **ON** when the connected camera has a PIR sensor built-in.

DETECTION							
CHANNEL TITLE	ALAR	M	INTERNAL ALARM	SENSITIVITY	MOTION	AREA	ADVANCED CONFIG
CH1	OFF		ON	EDIT	ON	EDIT	
CH2	N.C.	\sim	OFF	EDIT	ON	EDIT	
CH3	N.O.	\sim	OFF	EDIT	OFF	EDIT	
CH4	OFF	\sim	OFF	EDIT	OFF	EDIT	🔁 🔀 ROI 🗘
							APPLY

A2.2 Configuration

Before configuring Push Video, make sure:

- 1. The system is set up as described in "2. CONNECTION" at page 3.
- 2. This recorder is connected to Internet.
- 3. You've installed the app, EagleEyes, on your iOS or Android mobile devices. For details, please refer to "6.3 Mobile Devices" at page 53.
- Step1: Go to **MENU** \rightarrow **SCENARIO**, and enable the necessary rules:

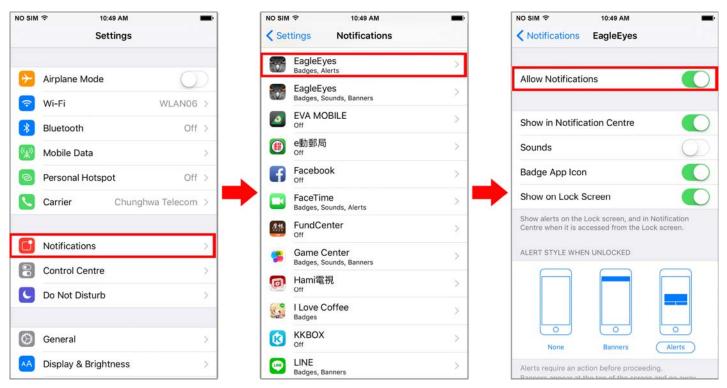
If your alarm sensor is	Please enable
External alarm sensor	1. PUSH VIDEO TRIGGERED BY EXTERNAL ALARM
	2. MOTION DETECTION ON WHEN GUARD ON
PIR sensor built-in	1. PUSH VIDEO TRIGGERED BY BUILT-IN PIR SENSOR
	2. MOTION DETECTION ON WHEN GUARD ON
	3. INTERNAL ALARM (PIR) DETECTION ON WHEN GUARD ON

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

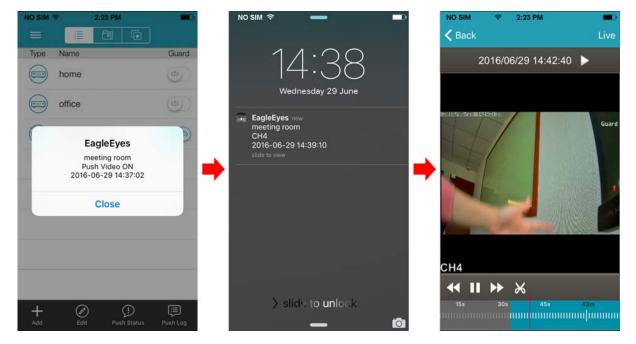
A2.3 Enable Push Video

A2.3.1 From iOS Mobile Device

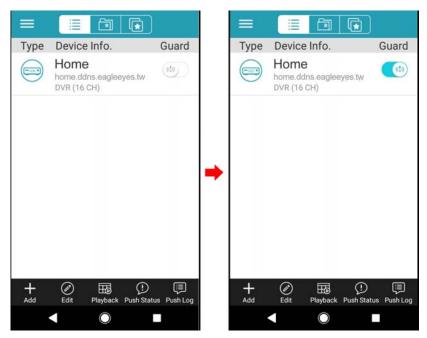
Step1: In the iPhone / iPad main menu, select **Settings** → **Notifications**. Select **EagleEyes**, and make sure the notification is set to on.



- 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. You'll receive event notifications when there's an alarm event. Follow the on-screen instruction to immediately play the recorded clip.



- A2.3.2 From Android Mobile Device
- Step1: Open **EagleEyes**, and switch **Guard** from **OFF** to **ON**. You'll receive the message indicating that Push Video is on.
- Step2: Return to the main page or standby page. You'll receive event notifications when there's an alarm event. Follow the on-screen instruction to immediately play the recorded clip.



APPENDIX 3 COMPATIBLE USB FLASH DRIVE LIST

Please upgrade the firmware of the recorder to the latest version to ensure the accuracy of the following table. If the USB flash drive is NOT supported by the recorder, 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 4 COMPATIBLE HARD DISK 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	
ST1000VX001	1TB	ST6000VX0011	6TB**	
ST1000VX005	1TB	ST6000NM0024	6TB**	
ST2000VX004	2TB	ST6000VX001	6TB**	
ST3000VM002	3TB	ST8000VX002	8TB**	
ST3000VX004	3TB	ST8000VX0022	8TB**	
ST3000VX005	3TB	ST8000VE000	8TB**	
ST4000VM000	4TB	ST8000VX004	8TB**	
ST4000VX000	4TB	ST100000VX0004	10TB**	
ST4000VX002	4TB	ST10000VX0004	10TB**	
ST4000VX007	4TB	ST10000VE0004	10TB**	
ST4000VX005	4TB	ST14000VX0008	14TB**	
ST6000VX0001	6TB**	ST16000VE000	16TB**	
WD				
MODEL	CAPACITY	MODEL	CAPACITY	
WD10PURX	1TB	WD30EFRX	ЗТВ	
WD20PURX	2TB	WD40PURX	4TB	
WD20EURS	2TB	WD40EURX	4TB	
WD20EURX	2TB	WD60EURX	6TB**	
WD20EFRX	2TB	WD60PURX	6TB**	
WD2002FAEX	2TB	WD6001FFWX	6TB**	
WD30PURX	3TB	WD6001FSYZ	6TB**	
WD30EURX	ЗТВ	WD121PURZ	12TB**	
TOSHIBA				
MODEL	CAPACITY	MODEL	CAPACITY	
DT01ACA050	500GB	MD03ACA200V	2TB	
DT01ABA050V	500GB	DT01ABA300V	ЗТВ	
DT01ACA100	1TB	DT01ACA300	3TB	
DT01ABA100V	1TB	MD03ACA300V	3TB	
DT01ACA200	2TB	MD03ACA400V	4TB	
DT01ABA200V	2TB	MD04ABA500V	5TB**	

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

** Please be advised to pay attention to the heat dissipation of the hard disk which is over 4TB because it might generate much heat during operation. It's recommended that ambient temperature is not over 35°C.

APPENDIX 5 BATTERY REPLACEMENT

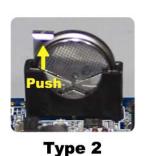
The time reset after power failure, for example, caused by a power outage, will cause the disorder of the recorded data, and users may have problems in searching the event clip they want. To keep the device time from resetting, a non-chargeable lithium battery, *CR2032*, is installed in the device.

However, the device time might still get reset when the battery is low or even running out of power. If so, please replace the device battery, CR2032, **right away** as instructed below.

How to replace CR2032

- **Note:** The lithium battery, CR2032, is a non-chargeable battery, and should be purchased separately. Please replace only with the same or equivalent type battery in case of danger.
- Step1: Stop all recording **immediately** to prevent the disorder of the recorded data. Then, back up the recorded data if necessary.
- Step2: Power off the device, and disconnect the power.
- Step3: Remove the rear panel of the device to find the battery on the mainboard.
- Step4: Push the release as indicated below to remove the battery.





Type1

Step5: Get a new battery and install it to its slot on the main board.

- For Type 1, install it with the side of "CR2032" facing up as shown above.
- For Type 2, install it without the side of "CR2032" facing you as shown above.

Step6: Replace the rear panel and connect to power.

Step7: Set the date & time, and resume recording.

APPENDIX 6 EAZY NETWORKING

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. 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.

Note: The instructions below explain how to configure via the free mobile app, EagleEyes. To know how to configure via Internet Explorer, please check the complete user manual.

Before using this function, make sure:

- This recorder is connected to a switch or router, and the switch or router is ready for Internet connection.
- The network icon on the bottom right corner is 4, not 4.
- You have an iOS / Android mobile device with EagleEyes installed.

A8.1 Via EagleEyes on iOS / Android Device

A8.1.1 Recorder Setup

- Step1: Go to **MENU** \rightarrow **NETWORK** \rightarrow **WAN**. Set **NETWORK TYPE** to **DHCP**, and make sure the network icon on the bottom right corner is changed from P to P.
- **Note: DHCP** allows your router to assign an IP address for your device automatically. There are also **STATIC** and **PPPOE** to choose for the network type. Please choose the one needed for your network environment and get the information needed from your installer or network service provider.

WAN	WA	N
LAN	NETWORK TYPE	DHCP 🗸 🗸
DDNS	IP	192.168.1.112
E-MAIL	GATEWAY	192.168.1.254
FTP	NETMASK	255.255.255.0
EaZy	PRIMARY DNS	168.95.1.1
	SECONDARY DNS	139.175.55.244
	PORT	88
	INTERNET AVAILABILITY ADDRESS	www.google.com
	MAC 00:0E:53:00:13:77	

Step2: In the same menu, select **EaZy**. Enable EaZy Networking, and leave this page open. You'll need to scan the QR code later.

WAN		EaZy		
LAN	ENABLE EAZY N	IETWORKING	ON	
DDNS				
E-MAIL				
FTP	∎#2xt∎	MAC: 000e53eca7b4		
EaZy		UUID: E736DCBF-D4BB- PORT: 80 EAZY NETWORKING OF	4CA8-86FD-62658E2ECEC1 FLINE	

A8.1.2 EagleEyes Setup

Two options can be chosen for EaZy Networking: **EaZy** and **QR Code**. **EaZy** is used for both recorders and IP cameras while **QR Code** is used only for recorders.

When a device is configured to the internet via **EaZy**, the person who configures the device has the administrator permission of this device and also has the power to assign who can access the device remotely, by the web browser of Internet Explorer or the mobile app of EagleEyes.

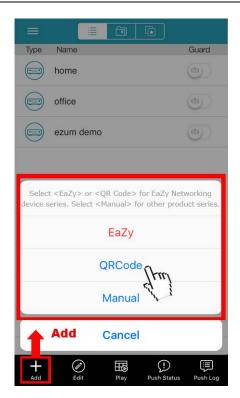
When a device is configured to the internet via **QR Code**, everyone has the right to access the device as long as he/she is able to scan the QR code of the device. However, he/she can only access the device via the mobile app of EagleEyes. Internet Explorer is not supported.

By QR Code

- Step1: Open EagleEyes on your mobile device, and select **Add** on the bottom. Then, click **QR Code**.
- Step2: Scan the QR code shown on your recorder, and enter the title of this device and its user name and password.
- Step3: Make sure you see the device type when you tap Get Type. If not, the device is not connected properly.

Then, Tap **Apply** to complete the process and you're ready to see the live view.

Note: For the first time to connect your device to the internet, the default user name and password are both *admin*. If it's been configured before, make sure you've known its current user name and password since they may be changed for security purpose.



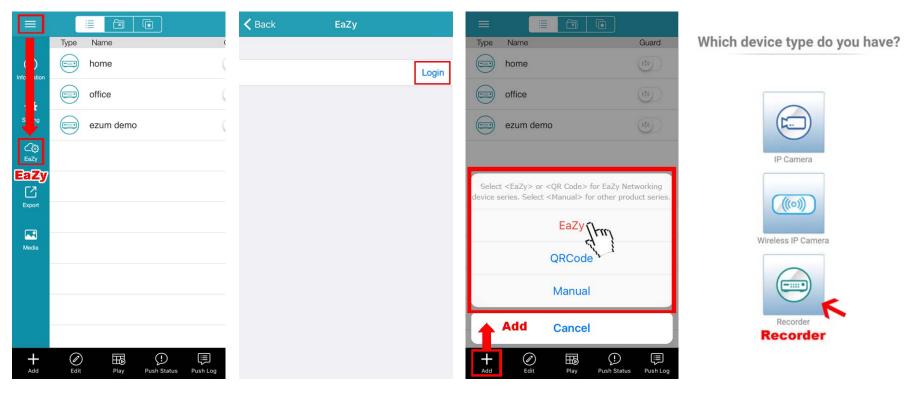
		<	Device Info.	
		Required	(1) grdvr	
	EaZy	IP Address	e136dcbf- d7bb-4ca8-86fd-62658e2e	ecec1
NABLE EAZY N		Port User Name Password	80 (2)admin (3)	
TSTEEDC UUID: 8	MAC: 000e53eco7b4 UUID: E736DCBF-D488-4CA8-86FD-62658E2ECEC1 PORT: 80	Get Type	4 unknown 3 4 5 6 7 8	9 0
	EAZY NETWORKING OFFLINE	q w 1 2 a s	ertyui ³⁴⁵ 78 dfghjk	o p
		≜ z	xcvbnn	n 😋
		7123 .	⊕ .	0

Step1: Go to **MENU** \rightarrow **NETWORK** \rightarrow **WAN**. Set **NETWORK TYPE** to **DHCP**, and make sure the network icon on the bottom right corner is changed from P to P.

By QR Code

- Step1: Open EagleEyes on your mobile device, and select "...." on the top left corner in the address book. Then, click **EaZy**.
- Step2: Click **Login** and register an account for "Cloud Service". If you've got an account, please just log in.

Step3: Go back to the address book and click + to add a new device. Select **EaZy**, and choose the recorder icon to continue.



- Step4: Click in the section of **MAC address** to open the QR code scan page, and scan the QR code on the recorder screen mentioned in Step2. The MAC address will be filled automatically. Fill in the Captcha code manually, and click **Apply**.
- Step5: 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.

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 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 to continue, and return to the address book. You'll see the newly-added device in the address with a cloud icon on it.

K Back
Key in the MAC address of your device
Find the MAC address sticker on the rear panel or bottom of your device. DOOE53 MAC address: 000E532 Ex.:"000E53E62B26" Captcha: 88D76Y 000E53E62B26" Captcha: 000E53E62B26" Captcha: 000E53E62B26" 000E55E62B26" 000E55E62B26" 000E55E62B26" 000E55E62B26" 000E55E62B26" 000E55E62B26" 0000E55E62B26" 000E5
Back Apply

Step6: Click the newly-added device and see if you could access successfully.

A8.1.2 Checking Remaining Data Allowance

Step1: Log into the cloud service.

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

🗲 Back	EaZy	
freuen		Logout
Buy	Buddy	

A8.1.3 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".

< Back	EaZy	
freuen		Logout
Buy	Buddy	Details
	(tm	}
	v	

Buddy Share	
Available Data Allowance	
Private Data Allowance Shared Data Allowance	0 KB 0 KB
Your own device(s)	
IPCAM	
Device(s) being shared with you	4.1
No device	V

Step3: Choose the device you want to share with.

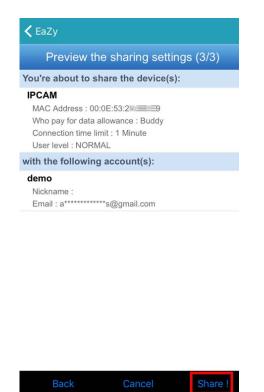
Step4: Enter the cloud account or the E-mail registered by the account, and select Add.

< EaZy	
	Buddy Share
Please select a	device to share.
IPCAM	
Canc	el Next

- 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

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



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 is marked with an icon of two people.
- A8.2 Via Internet Explorer on PC / Laptop

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

A8.2.1 Setup

- Step1: Go to **MENU** \rightarrow **NETWORK** \rightarrow **WAN**. Set **NETWORK TYPE** to **DHCP**, and make sure the network icon on the bottom right corner is changed from P to P.
- **Note: DHCP** allows your router to assign an IP address for your device automatically. There are also **STATIC** and **PPPOE** to choose for the network type. Please choose the one needed for your network environment and get the information needed from your installer or network service provider.

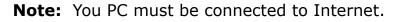
WAN	WAI	N
LAN	NETWORK TYPE	DHCP
DDNS	IP	192.168.1.112
E-MAIL	GATEWAY	192.168.1.254
FTP	NETMASK	255.255.255.0
EaZy	PRIMARY DNS	168.95.1.1
	SECONDARY DNS	139.175.55.244
	PORT	88
	INTERNET AVAILABILITY ADDRESS	www.google.com
	MAC 00:0E:53:00:13:77	

Step2: In the same menu, select **EaZy**. Enable EaZy Networking, and leave this page open. You'll need to scan the QR code later.

WAN		EaZy					
LAN	ENABLE EAZY NETV	ENABLE EAZY NETWORKING ON					
DDNS							
E-MAIL							
FTP	∎i2ti∎ ^	IAC: 000e53eca7b4					
Fa7v		UID: E736DCBF-D4BB-40 ORT: 80	CA8-86FD-62658E2ECEC1				
		AZY NETWORKING OFFL	INE				

Step3: 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.





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.

8	EaZy Wizard	×	EaZy Wizard	×
EaZy Wizard		English 🗸	ud Service	
	un 3:00 a.m. 2	Start		Kip Register

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.

a)	EaZy Wizard	×	10	EaZy Wizard	×
Which device typ	pe do you have?	Account : freuen	Key in MAC add	lress of your device	Account : freuen
	((· [·))	eless model DVR/NVR		address: 000E53222232 Ex: "000E53E62826" Captcha: SCB2SM ×	Back Apply

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.

69	EaZy Wizard		×	EaZy Wizard	×
Connect to wir	ed network	Account : free		Anect to wired network	account : freuen
Device til Accou	tle: DVR Int: reven			Device title: DVR Message	
	Advanced			Do you want to remove default account(admin)?	
				OK Cancel	I.
1			(120)		
	Ba	ck Reset default Appl		Back	fault Apply

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.

EaZy Service		🖉 Buddy Share 🌮 Account Information 🥻 Config. 🏦 freum 🚿 Logout
Eally Service	0.0	(in x)
Lor Portania General Portania Port	Display Area	Display Area
	0.8	
	Display Area	Display Area

A8.2.2 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**.

Account Information Paymen	t Log Usage Log	Available Data Allowance
Available Data Allowance Private Data Allowance Shared Data Allowance	e: 0 KB	
Connection limit time(Relay	10 Minutes	*
Device title	Available	Data Allowance
DVR	1.82 GB	
IPCAM	0 KB	

A8.2.3 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 tab **Your own device(s)**, and select **Share With Buddy**.

luddy Share			
Available Data Allowance	Your own device(s)	Device(s) being shared with you	
Device title			
DVR			
	Close Sha	re With Buddy Edit	
	and the second s	A CONTRACTOR OF THE OWNER	

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.

				ection	allowance: n time limit: User level: Group:	10 Minutes		~		
With Buddy (3 +	General	Live Playt		Network Live Stream	Network Playb	
	vice with the account(s) below	NORMAL			PTZ Contro	ol Disa	able		
	Nickname	Email	GUEST			Power Contro	ol Disa	able		
ollyliao	d********9@gmail.com				Search Devic	e Dis	able			
						Review Log	is Disa	able		
						Config Setu	p Dis	able		
						Clear Log	s Dis	able		
						Account Setu	p Dis	able		
						Clear HD	D Disa	able		
						Push Vide	o Dis	able		

> 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

- 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.



A8.3 Icons

lcon	Color	Indication	
	Teal	This device is a DVR or NVR.	
X	Blue	This device is an IP camera.	
, J	Orange	This device is an IP speed dome camera.	
?	Red	This device is disconnected and unidentified.	
C or	Depending on the device color	This device is configured to the Internet via EaZy Networking (Cloud Service).	
2	Depending on the device color	The cloud icon will be grayed out if the EaZy server can't be connected.	
	Depending on the device color	You've shared the access right of the device with other cloud account via Buddy (Cloud Service).	
Aih		The icon will be grayed out if you disable the device share.	
0	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.