

# H.265 NVR 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.



Free PC CMS  
software (CMS Lite)

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

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We are pleased to provide our modifications to the Linux Kernel, as well as a few new commands as requested ([marketing@avtech.com.tw](mailto:marketing@avtech.com.tw)), and some tools to get you into the code.

# TABLE OF CONTENTS

|   |    |
|---|----|
| 1. HARDWARE OVERVIEW .....                | 1  |
| 1.1 Front Panel.....                      | 1  |
| 1.2 Rear Panel .....                      | 2  |
| 2. CONNECTION.....                        | 3  |
| 2.1 Hard Disk Installation .....          | 3  |
| 2.2 Connection .....                      | 6  |
| 2.3 Camera IP Configurations by LAN ..... | 7  |
| 3. FOR INITIAL USE .....                  | 9  |
| 3.1 Setup Wizard.....                     | 9  |
| 3.2 Mount Hard Disk.....                  | 11 |
| 3.3 Change User Name and Password.....    | 11 |
| 4. USER INTERFACE .....                   | 13 |
| 4.1 Local Access .....                    | 13 |
| 4.2 Interface Overview .....              | 13 |
| 4.3 Status & Operation .....              | 14 |
| 4.3.1 Device Status .....                 | 14 |
| 4.3.2 Channel Status.....                 | 14 |
| 4.3.3 Main Menu.....                      | 15 |
| 4.3.4 Playback Panel.....                 | 17 |
| 5. FREQUENTLY-USED FUNCTIONS .....        | 18 |
| 5.1 IP Device Search.....                 | 18 |
| 5.2 User Account Creation .....           | 19 |
| 5.3 PTZ Control .....                     | 20 |
| 5.4 Video Backup .....                    | 21 |
| 5.5 System Logout .....                   | 22 |
| 5.6 Hardware Reset .....                  | 22 |
| 6. MAIN MENU .....                        | 23 |
| 6.1 CAMERA.....                           | 23 |
| 6.1.1 CONNECTION .....                    | 23 |
| 6.1.2 DEVICE.....                         | 24 |
| 6.1.3 IMAGE.....                          | 25 |
| 6.1.4 DETECTION.....                      | 25 |
| 6.1.5 ALARM OUT.....                      | 28 |
| 6.2 RECORD.....                           | 28 |
| 6.3 SCENARIO.....                         | 30 |
| 6.3.1 Pre-defined Scenarios.....          | 30 |
| 6.3.2 Scenario Customization .....        | 32 |
| 6.4 IVS.....                              | 35 |
| 6.5 EXPORT.....                           | 38 |
| 6.5.1 BACKUP.....                         | 38 |
| 6.5.2 SCHEDULE.....                       | 39 |
| 6.5.3 REGULAR REPORT .....                | 40 |
| 6.6 STORAGE.....                          | 41 |
| 6.7 ACCOUNT.....                          | 42 |
| 6.7.1 USER LIST.....                      | 42 |
| 6.7.2 GROUP .....                         | 43 |



|   |    |
|---|----|
| 6.8 NETWORK .....                                   | 44 |
| 6.8.1 E-MAIL .....                                  | 44 |
| 6.8.2 FTP .....                                     | 45 |
| 6.8.3 MULTICASTING .....                            | 45 |
| 6.8.4 EaZy .....                                    | 46 |
| 6.9 TIME .....                                      | 46 |
| 6.9.1 TIME SETUP .....                              | 46 |
| 6.9.1 DAYLIGHT .....                                | 47 |
| 6.10 DISPLAY .....                                  | 47 |
| 6.11 PERIPHERAL .....                               | 51 |
| 6.11.1 LOCAL .....                                  | 51 |
| 6.11.2 JOYSTICK .....                               | 51 |
| 6.11.3 LOCAL ALARM IN .....                         | 51 |
| 6.11.4 LOCAL ALARM OUT .....                        | 52 |
| 6.11.5 DEVICES .....                                | 52 |
| 6.11.6 OVERHEAD DOOR .....                          | 53 |
| 6.12 MAINTAIN .....                                 | 54 |
| 6.12.1 SYSTEM .....                                 | 54 |
| 6.12.2 UPGRADE .....                                | 55 |
| 6.12.3 ALERT .....                                  | 56 |
| 6.12.4 EVENT LOG .....                              | 57 |
| 6.12.5 ONLINE .....                                 | 57 |
| 6.12.5 AUTO REBOOT .....                            | 57 |
| 6.13 POWER CONTROL .....                            | 58 |
| 6. REMOTE OPERATION .....                           | 59 |
| 6.1 Web Browser .....                               | 59 |
| 6.2 Mobile Devices .....                            | 60 |
| 6.2.1 Prerequisites .....                           | 60 |
| 6.2.2 Where to download .....                       | 60 |
| 6.2.3 Setup .....                                   | 60 |
| APPENDIX 1 PRODUCT SPECIFICATIONS .....             | 62 |
| APPENDIX 2 PUSH VIDEO CONFIGURATION .....           | 68 |
| A2.1 Alarm Sensor Connection .....                  | 68 |
| A2.2 Configuration .....                            | 69 |
| A2.3 Enable Push Video .....                        | 69 |
| A2.3.1 From iOS Mobile Device (iPhone / iPad) ..... | 69 |
| A2.3.2 From Android Mobile Device .....             | 70 |
| APPENDIX 3 COMPATIBLE USB FLASH DRIVE LIST .....    | 71 |
| APPENDIX 4 COMPATIBLE HARD DISK LIST .....          | 72 |
| APPENDIX 5 BATTERY REPLACEMENT .....                | 73 |
| APPENDIX 6 DISK ARRAY COMPATIBLE LIST .....         | 74 |
| APPENDIX 7 EAZY NETWORKING .....                    | 75 |
| A8.1 Via EagleEyes on iOS / Android Device .....    | 75 |
| A8.2 Icons .....                                    | 80 |

# 1. HARDWARE OVERVIEW

## 1.1 Front Panel

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

### 1) Select & Unlock

These two buttons are used to unmount a hard disk. Press **Select** and check the HDD indicator (red & always on) to ensure the hard disk you want to unmount is chosen. Then, choose **Unlock** to unmount the hard disk (HDD indicator: red & flashing).

When the hard disk unmount is completed, the indicator will be off, and you're ready to remove the hard disk from the HDD tray.

### 2) HDD Indicators

Check the HDD indicator for each installed hard disk to ensure the hard disks work normally.








**Note:** Some statuses are for selected models only.

| Color | Status    | Meaning  |
|-------|-----------|--|
| --    | No light  | No hard disk is installed, or the installed hard disk is not detected. Please install a hard disk or replace the installed hard disk, and try again. |
| Green | Always on | The installed hard disk is detected well.  |
| Green | Flashing  | Data reading / writing.  |
| Red   | Always on | The hard disk is selected for unmounting.  |
| Red   | Flashing  | The device is mounting or unmounting the selected hard disk.   |

### 3) Status LED indicators

Press to power on the device; press and hold for 3 seconds to power off the device.

**Note:** Some indicators are for selected models only.

|   |   |
|---|---|
|  | This device is power-supplied.                            |
|  | The device is connected to Internet.                      |
|  | The device is connected to LAN.                           |
|  | An alarm event occurs.                                    |
| <b>err.</b>   | Any of the adapter, power or fan is abnormal.             |
|  | Video playback is on.                                     |
| eSATA   | An external disk array is connected.                      |
|  | An USB flash drive or USB hard disk is connected.         |
|  | This device is in the standby mode when it's powered off. |

### 4) Power (⏻)

Press to power on the device; press and hold for 3 seconds to power off the device.

### 5) Mouse port (🖱)

Insert a mouse for function operation.

### 6) USB port (🔌)

Insert a compatible USB flash drive for video backup.

**Note:** For the compatible list of USB flash drives, please refer to "APPENDIX 3 COMPATIBLE USB FLASH DRIVE LIST" at page 71.

## 1.2 Rear Panel

---

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

---

1) HDMI (HDMI1)

This port is used to connect the monitor which supports HDMI interface for main monitor output

2) HDMI2

This port is used to connect a secondary monitor which supports HDMI interface for secondary monitor output. For details, please refer to “6.10 DISPLAY” at page 47.

3) VGA

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

---

**Note:** The VGA video output is unavailable when the HDMI video output is set to 4K2K.

---

4) VIDEO OUT

Connect to a CRT monitor for main monitor output.

5) eSATA

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

---

**Note:** Please purchase a disk array supporting Linux system to ensure your device works properly. For the compatible list, please refer to “APPENDIX 6 DISK ARRAY COMPATIBLE LIST” at page 74.

---



---

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

---

6) WAN

This port is used to connect your device to Internet.

7) LAN

This port is used to connect IP cameras to this device with a hub (if necessary) locally.

8) MIC IN

Connect to a microphone for audio transmission.

9) AUDIO OUT

Connect to a speaker for audio transmission.

10) External I/O Ports (COM / NO / GND / Alarm IN / RS485)

These ports are used to connect external I/O devices, such as magnetic contacts or buzzers, or external control devices, such as other brand’s speed dome camera or keyboard controller.

The ports available depend on the model you have.

11) USB port

Insert a mouse for function operation or a USB flash drive for video backup.

---

**Note:** There are two USB ports on the rear panel. The bottom port is a dummy port. Please do not connect any mouse or USB flash drive.

---

12) USB 3.0

Insert a compatible USB flash drive or USB hard disk for video backup.

---

**Note:** For the compatible list of USB flash drives, please refer to “APPENDIX 3 COMPATIBLE USB FLASH DRIVE LIST” at page 71.

---

13) DC IN

Connect to the supplied adapter.

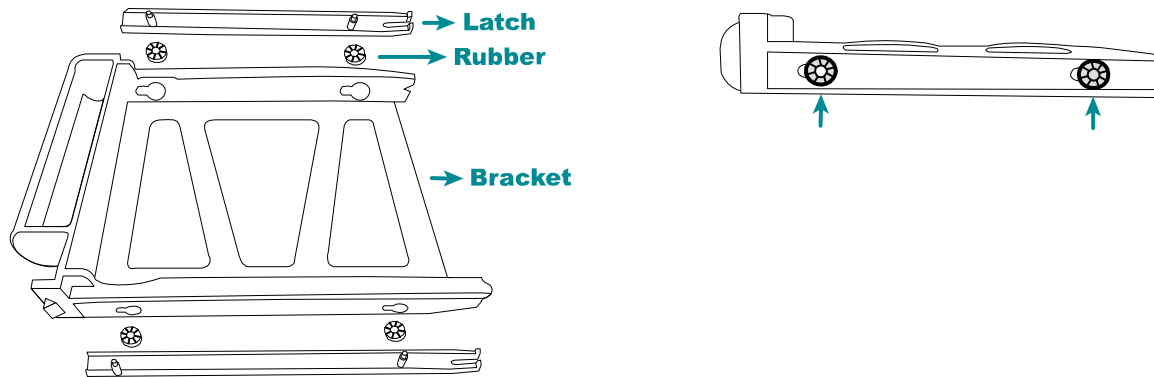
## 2. CONNECTION

### 2.1 Hard Disk Installation

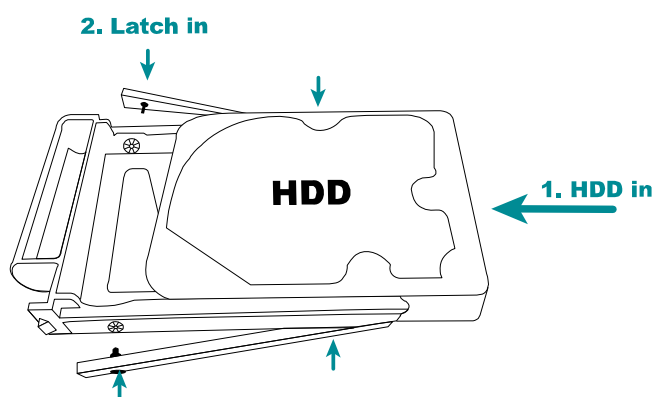
**Note:** It's necessary to install a hard disk first before firmware upgrade to ensure the upgrade process works properly.

#### ■ Type 1

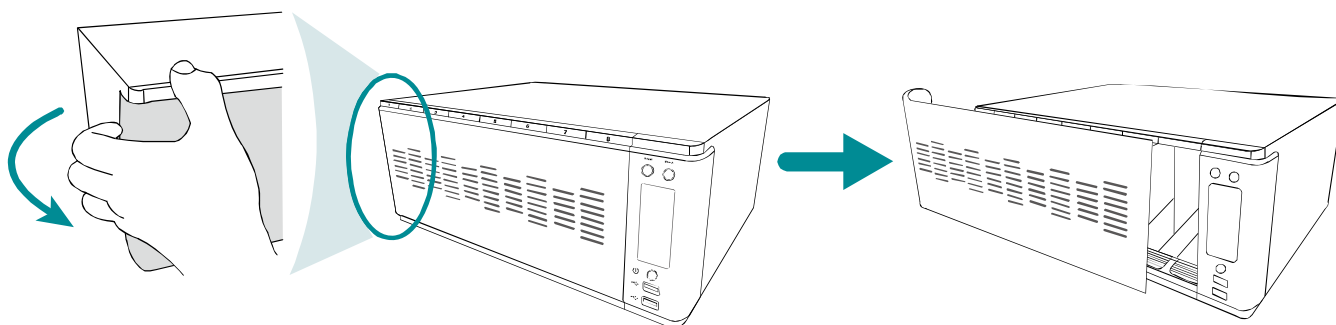
Step1: Find the HDD tray and its accessories in the sales package, and place the rubber to the HDD tray as shown below.



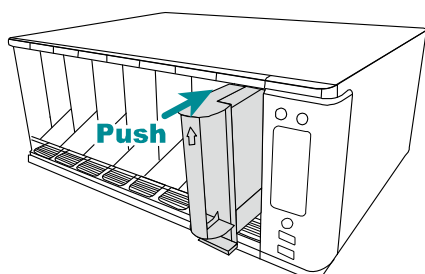
Step2: Get a compatible hard disk. With the PCB side facing down and the hard disk's connector facing the outside. Then, place the hard disk in the HDD tray and insert the latches.



Step3: Remove the front cover by pulling from the left end of the cover as indicated below. You'll see eight HDD bays.



Step4: Push the HDD tray with a hard disk installed to the end of the HDD bay to ensure the hard disk is inserted properly.



Step5: Replace the front cover removed in Step3 back to the NVR.

Step6: Power on the NVR and wait till the initialization is completed. Check if the HDD indicator on the front panel is flashing in red.

---

**Note:** Please check "HDD Indicators" in "1.1 Front Panel" for details.

---

Then, right click the mouse to exit from the full screen mode. Click **MENU** → **STORAGE** to see if all hard disks you inserted are detected, and click  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**. For details, please check "6.6 STORAGE" at page 41.

## ■ Type 2

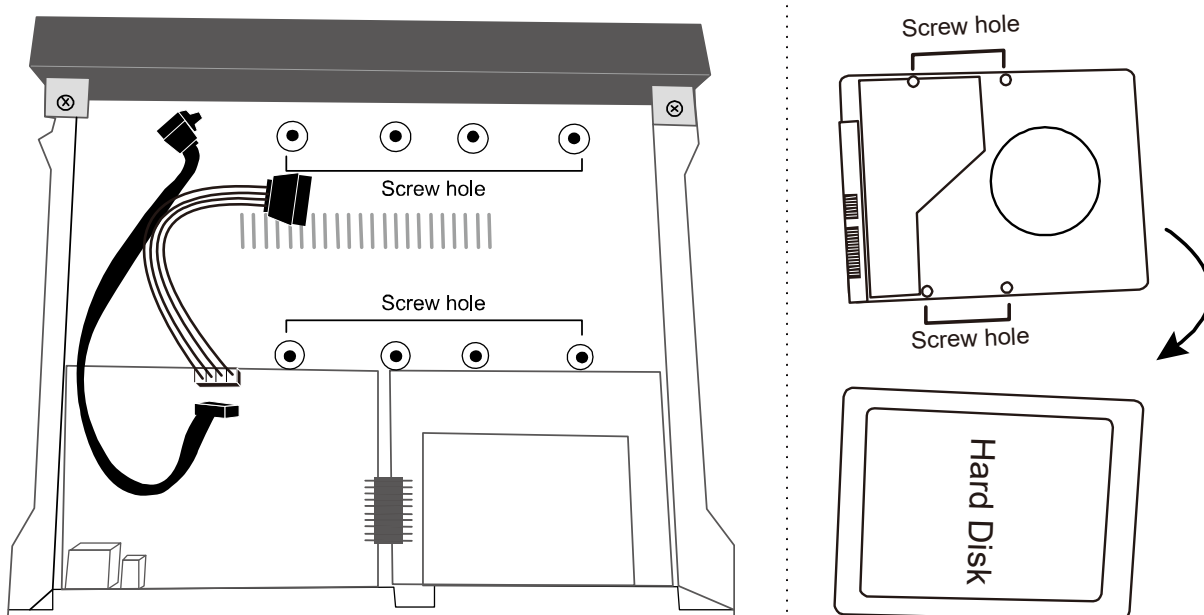
Step1: Remove the top cover, and find where to install a hard disk on the recorder.

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.

---

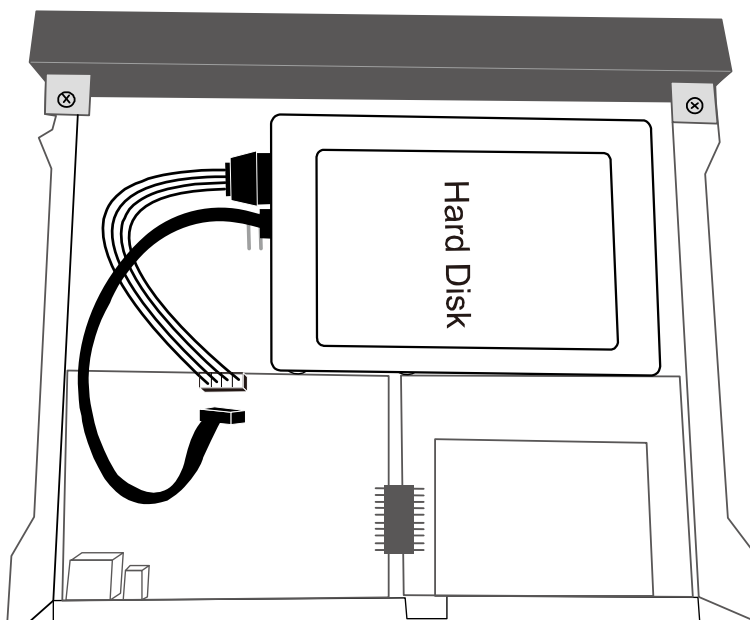
**Note:** To use a green hard disk, use **ONLY** the hard disk designed especially for surveillance to ensure the device works properly.

---



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 on the base with the supplied screws from the bottom side of the recorder.

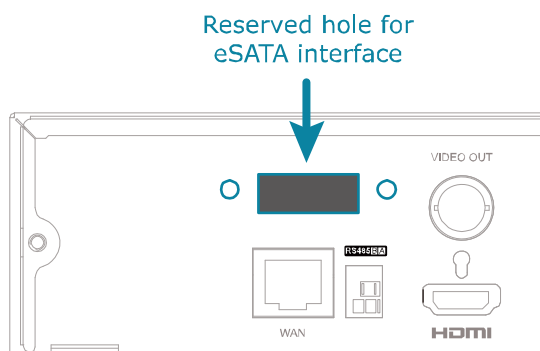


Step5: Replace the top cover and fasten the screws you loosened in Step1.

Step6: Remove the protective film on the bottom of the recorder if any to ensure the heat dissipation can work normally.

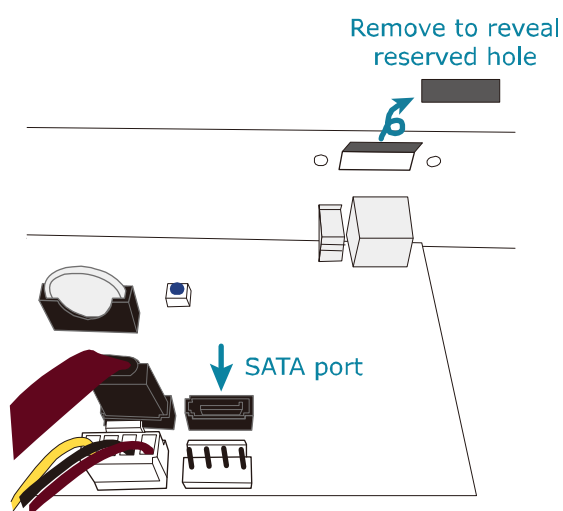
### Add eSATA interface with optional SATA-to-eSATA cable

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 below.



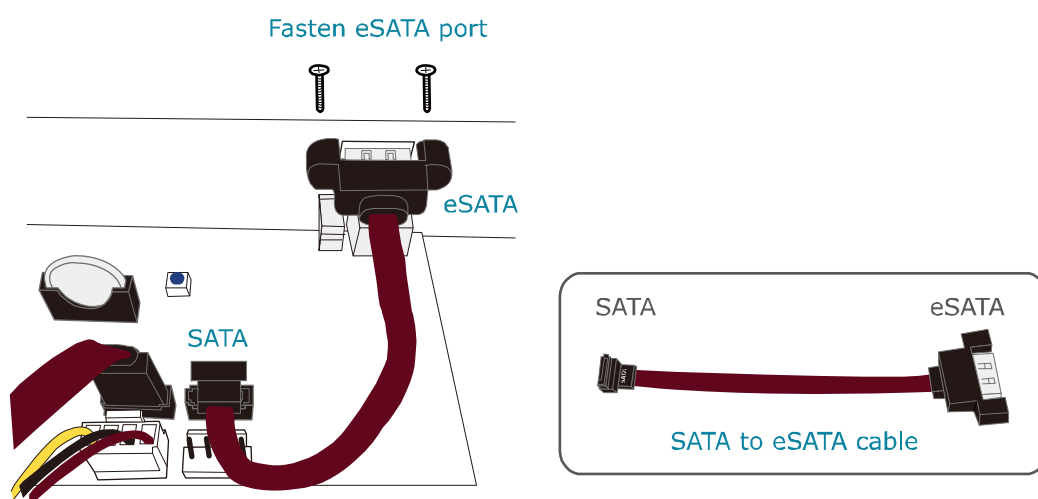
Step2: Remove the top cover of the recorder to reveal its main board. Remove the thin piece of metal that block the reserved hole. Then, remove one SATA cable on the board.

**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.

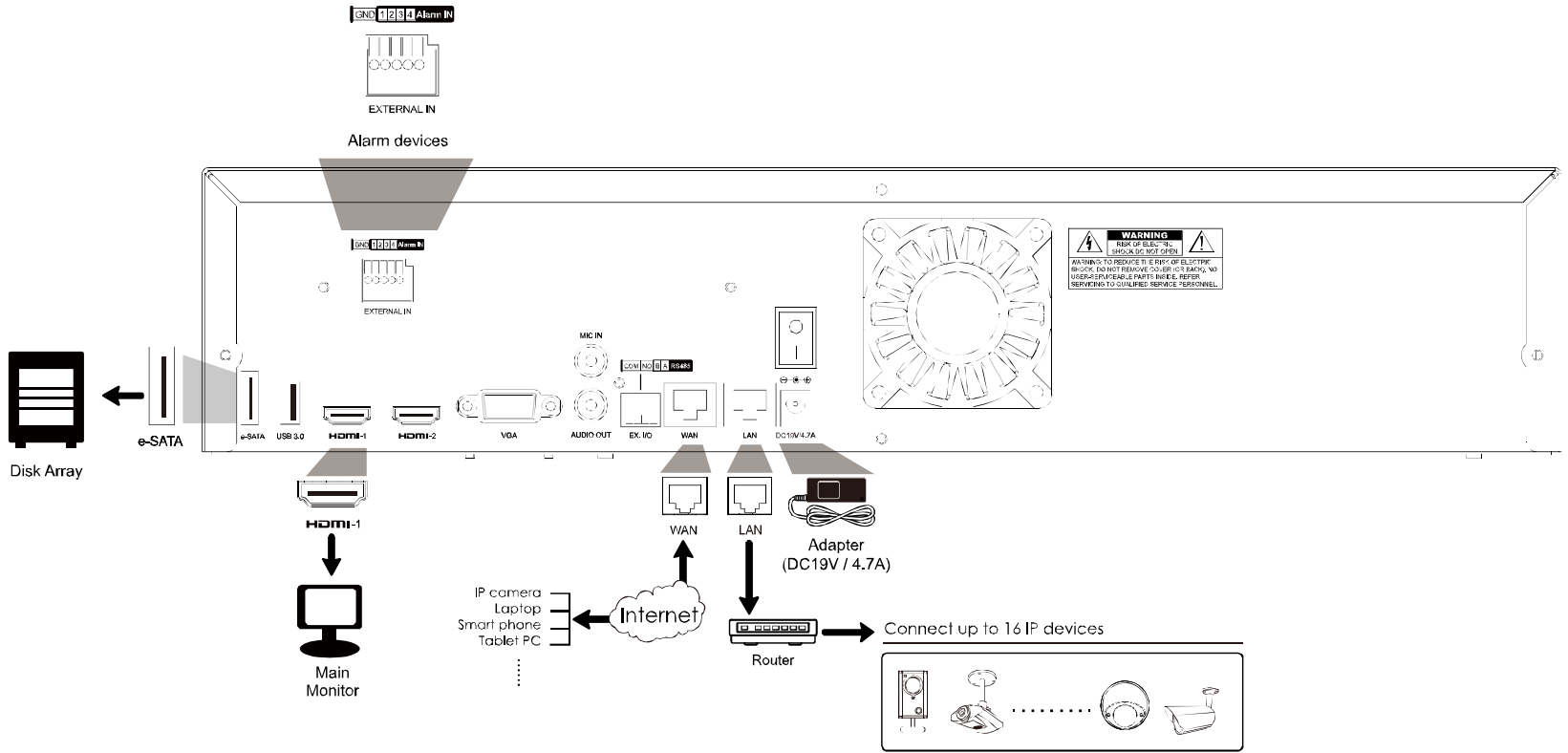
**Note:** The SATA-to-eSATA cable is optional and need to purchase separately.



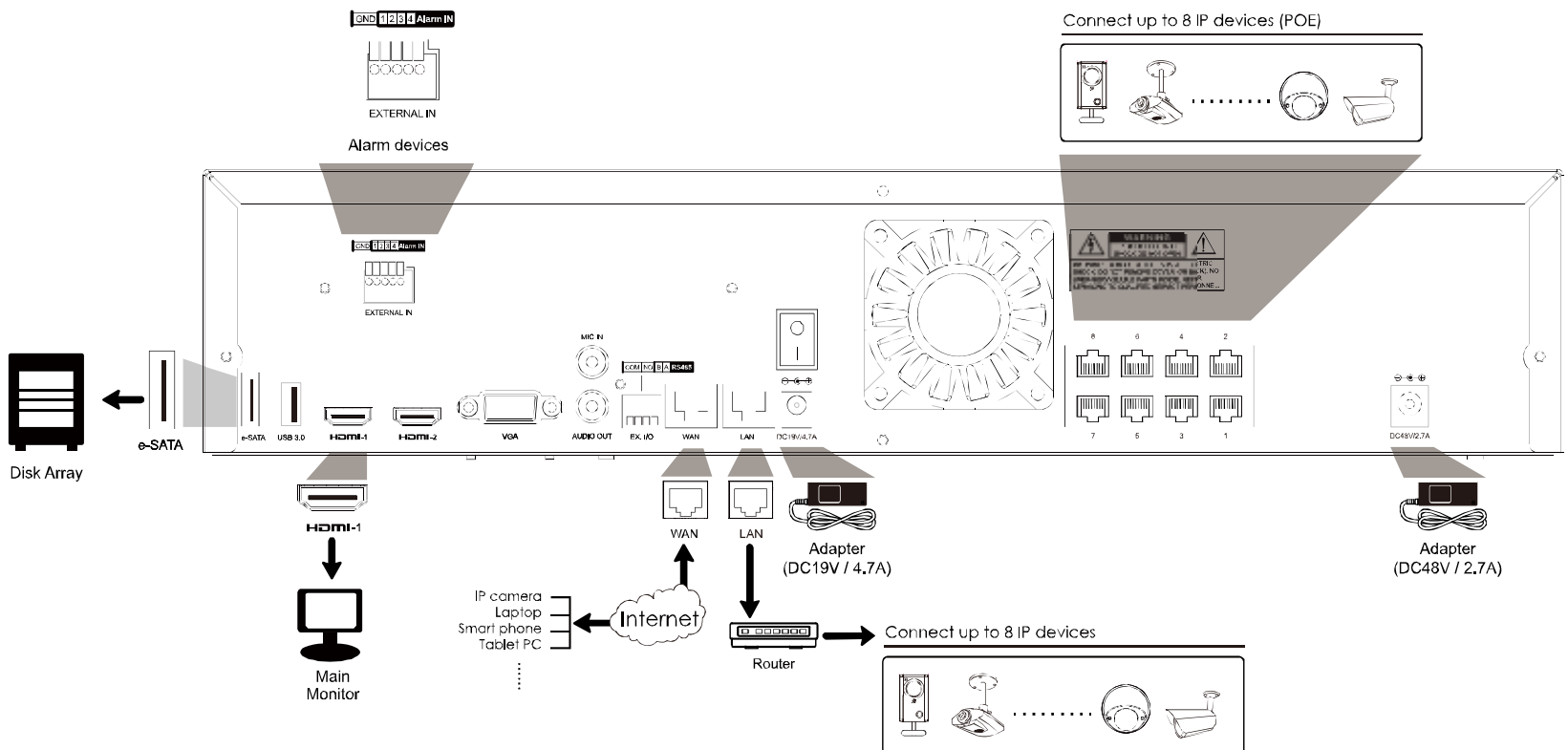
## 2.2 Connection

Connect a monitor, IP cameras, adapters, a mouse, and other devices necessary to this recorder as illustrated below.

### ■ Type 1



### ■ Type 2



Then, power on the whole system and wait till the system initialization is done.

## 2.3 Camera IP Configurations by LAN

The auto mode is used to simplify the complicated network settings within three minutes. The connection mode of the LAN port is **AUTO** by default. This mode is suitable when the LAN port of the device is connected to a hub / switch.

---

**Note:** SETTING Path: **MENU** → **NETWORK** → **LAN** → **MODE**.

---

**Note:** For access this recorder remotely with your mobile device or laptop, you need to connect this recorder to Internet. For details, please get the network setup manual from [www.surveillance-download.com/user/network\\_setup/network\\_setup\\_recorder.pdf](http://www.surveillance-download.com/user/network_setup/network_setup_recorder.pdf).

---

The device will automatically configure the IP address of a camera connected by LAN if:


- The connected IP camera is our brand's IP camera.
- The IP configuration method of the camera is **DHCP**.
- The camera is powered on before the device is powered on.

If the device **doesn't** configure the IP address of your camera automatically as described above, your IP camera might **NOT** be:

- Our brand's IP camera.
- Set to **DHCP** as its default IP configuration method.

To solve this, reconfigure the IP address of the camera to 10.1.1.xx (xx ranges from 11 ~ 253), which is in the same network segment as the device.

- For other brand's IP camera, please check its user manual to know how to change the IP address manually.
- For our brand's IP camera, please check the instructions below:
  - a) Go to **MENU** → **CAMERA** → **CONNECTION**, and select **IP SEARCH** at the bottom right corner. You'll see the list of every connected IP camera with its connection status to this device and MAC address.

| IP SEARCH                |   |             |           |               |           |             |         |                   |        |
|--------------------------|---|-------------|-----------|---------------|-----------|-------------|---------|-------------------|--------|
| ASSIGN                   | EDIT  | DEVICE TYPE | IP        | NETMASK       | GATEWAY   | PRIMARY DNS | PORT    | MAC               | VENDOR |
| <input type="checkbox"/> |  | IPCAM       | 10.2.1.33 | 255.255.255.0 | 10.2.1.10 | 8.8.8.8     | 88      | 00:0E:53:31:06:E5 | AVTECH |
|                          |   |             |           |               |           |             | REFRESH | ADD               |        |


The device will **automatically** configure the IP address of a camera connected by LAN if:

- The connected IP camera is our brand's IP camera.
- Reset the IP camera to default value (the default IP configuration method of the camera is "DHCP").
- The camera is powered on before the device is powered on.

If the device **doesn't** configure the IP address of your camera automatically as described above, your IP camera might **NOT** be:


- Our brand's IP camera.
- Set to "DHCP" as its default IP configuration method.



- b) To solve this, use our brand's IP camera, and reconfigure its IP address to 10.1.1.xx (xx ranges from 11 ~ 253). Select  (EDIT), and change the network type from **STATIC** to **DHCP**. Then, Click **APPLY** to save your changes.

| SETUP  |               |
|--|---------------|
| NETWORK TYPE   | DHCP          |
| IP   | 10.1.1.14     |
| PORT   | 88            |
| USER NAME  | Admin         |
| PASSWORD   | *****         |
| NETMASK  | 255.255.255.0 |
| GATEWAY  | 10.1.1.10     |
| PRIMARY DNS  | 8.8.8.8       |
| <input type="button" value="CANCEL"/> <input type="button" value="APPLY"/> |               |

- c) Check  to assign the camera to a specific channel automatically, and choose **ADD**.

| IP SEARCH                           |   |             |           |               |           |             |  |                                    |        |  |
|-------------------------------------|---|-------------|-----------|---------------|-----------|-------------|--|------------------------------------|--------|--|
| ASSIGN                              | EDIT  | DEVICE TYPE | IP        | NETMASK       | GATEWAY   | PRIMARY DNS | PORT                                   | MAC                                | VENDOR |  |
| <input checked="" type="checkbox"/> |  | IPCAM       | 10.1.1.14 | 255.255.255.0 | 10.1.1.10 | 8.8.8.8     | 88                                     | 00:0E:53:31:06:E5                  | AVTECH |  |
|                                     |   |             |           |               |           |             | <input type="button" value="REFRESH"/> | <input type="button" value="ADD"/> |        |  |

- d) The device will then detect the IP camera and display images soon.

---

**Note:** To configure this recorder to access other IP camera connected remotely for live viewing or video backup, you need to connect this recorder to Internet first.

---

## 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.

---

| <b>SETUP WIZARD</b>   |                                     |
|---|-------------------------------------|
|   | ENGLISH ▼                           |
| <p>WELCOME TO THE SETUP WIZARD.</p> <p>PLEASE FOLLOW THE WIZARD TO FINISH BASIC CONFIGURATIONS.</p> |                                     |
| <input type="button" value="SKIP"/>   | <input type="button" value="NEXT"/> |

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

| <b>SETUP WIZARD</b>  |   |
|--|---|
| <p>PLEASE INPUT THIS MACHINE NAME</p> <div style="border: 1px solid black; width: 150px; height: 20px; margin: 0 auto;"></div> |   |
| <input type="button" value="SKIP"/>  | <input type="button" value="PREV"/> <input type="button" value="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**.

---

| <b>SETUP WIZARD</b>   |   |
|---|---|
| USER NAME   | office_hd   |
| PASSWORD  | office145   |
| CONFIRM PASSWORD  | office145   |
| <p>PLEASE INPUT THE ADMINISTRATOR'S USER NAME AND PASSWORD.</p> |   |
| <input type="button" value="SKIP"/>                             | <input type="button" value="PREV"/> <input type="button" value="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** → **ACCOUNT** → **USER LIST**.

---

| SETUP WIZARD  |             |
|---|-------------|
| DATE  | 2015/MAR/05 |
| TIME  | 14:33:46    |
| FORMAT  | Y/M/D ▼     |
| GMT   | GMT+08:00 ▼ |
| <div style="display: flex; justify-content: space-between;"> <span>SKIP</span> <span>PREV</span> <span>NEXT</span> </div> |             |

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** → **TIME**.

---

| SETUP WIZARD  |              |
|---|--------------|
| NTP SERVER  | Pool.ntp.org |
| SYNC PERIOD   | OFF ▼        |
| <div style="display: flex; justify-content: space-between;"> <span>SKIP</span> <span>PREV</span> <span>NEXT</span> </div> |              |

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 to **MENU** → **TIME**.

---

| SETUP WIZARD  |               |
|---|---------------|
| NETWORK TYPE  | STATIC ▼      |
| IP  | 192.168.1.10  |
| GATEWAY   | 192.168.1.1   |
| NETMASK   | 255.255.255.0 |
| PRIMARY DNS   | 8.8.8.8       |
| SECONDARY DNS   | 168.95.1.1    |
| PORT  | 80            |
| <div style="display: flex; justify-content: space-between;"> <span>SKIP</span> <span>PREV</span> <span>NEXT</span> </div> |               |

Configure network setup by using the traditional method. For details, please download the instructions from [www.surveillance-download.com/user/network\\_setup/network\\_setup\\_recorder.pdf](http://www.surveillance-download.com/user/network_setup/network_setup_recorder.pdf).

---

**Note:** To configure network setup by using the traditional method later, please go to **MENU** → **NETWORK**.

---

| SETUP WIZARD  |                   |
|---|-------------------|
| SMTP SERVER   | Smtg.gmail.com    |
| PORT  | 465               |
| MAIL FROM   | manager@gmail.com |
| SSL ENCRYPTION  | ON                |
| VERIFY PASSWORD   | ON                |
| USER NAME   | manager@gmail.com |
| PASSWORD  | ●●●●●●            |
| <div style="display: flex; justify-content: space-between;"> <span>SKIP</span> <span>PREV</span> <span>NEXT</span> </div> |                   |

Configure event notifications by email.

---

**Note:** To configure email notifications later, please go to **MENU** → **NETWORK** -> **E-MAIL**.

---

| SETUP WIZARD                        |   |
|-------------------------------------|---|
| DDNS                                | ON  |
| SYSTEM NAME                         | Eagleeyes ▼   |
| HOST NAME                           | MAC000E533A3D   |
| E-MAIL                              |   |
| CURRENT HOST ADDRESS                |   |
| MAC000E533A3D4A.ddns.eagleeyes.tw   |   |
| <input type="button" value="SKIP"/> | <input type="button" value="PREV"/> <input type="button" value="NEXT"/> |

Enable DDNS if needed.





**Note:** To enable the DDNS later, please go to **MENU** → **NETWORK** → **DDNS**.

## 3.2 Mount Hard Disk

When this device is powered on, you'll see the hard disk indicators are flashing in red, indicating the hard disk are not detected by this recorder.

Right click the mouse to exit from the full screen mode. Click **MENU** → **STORAGE** to see the status of each connected hard disks. Click  one by one to mount them. When you're prompted to clear the hard disk, choose **YES**.

When the hard disk is mounted, the status will be changed from **MOUNTING** to **READY**.

| STORAGE   |         |        |          |        |       |                 |           |                     |               |
|---|---------|--------|----------|--------|-------|-----------------|-----------|---------------------|---------------|
| HDD NEARLY FULL (GB)  |         |        |          |        |       |                 | 5         | ▼                   |               |
| HDD OVERHEAT ALERT (°C)   |         |        |          |        |       |                 | 70        | ▼                   |               |
| OVERWRITE   |         |        |          |        |       |                 | ON        |                     |               |
| KEEP DATA LIMIT(DAYS)   |         |        |          |        |       |                 | OFF       | ▼                   |               |
| TEMPERATURE TO ENABLE FAN (°C)  |         |        |          |        |       |                 | 30        | ▼                   |               |
| REMINDER WHEN FORMATTING HDD  |         |        |          |        |       |                 | OFF       | ▼                   |               |
|   | ID      | TYPE   | STATUS   | SIZE   | TEMP. | SERIAL NUMBER   | FREE SIZE | FORMAT TIME         | HEALTH STATUS |
|   <input checked="" type="checkbox"/> | HDD 5-1 | NORMAL | INACTIVE | 750GB  | --    | WD-WCAV53797317 | 269.856GB | 2017/07/18 23:03:52 | GOOD          |
|   <input checked="" type="checkbox"/> | HDD 5-2 | NORMAL | INACTIVE | 1.00TB | --    | WD-WMC1U5344933 | 9.88GB    | 2017/07/18 23:10:55 | GOOD          |
|   |         |        |          |        |       |                 |           |                     |               |
|   |         |        |          |        |       |                 |           |                     |               |

## 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 SECUIRITY.   |  |
| <input checked="" type="radio"/> MODIFY<br><input type="radio"/> REMIND ME LATER<br><input type="radio"/> DON'T REMIND ME ANYMORE |  |
| <input type="button" value="CONFIRM"/>  |  |

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

To change later, go to **MENU** → **ACCOUNT** → **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 |  |
|           |    |           |            |  |

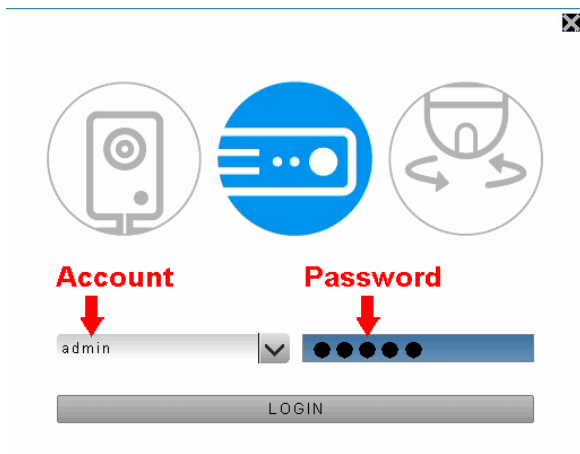
# 4. USER INTERFACE

## 4.1 Local Access

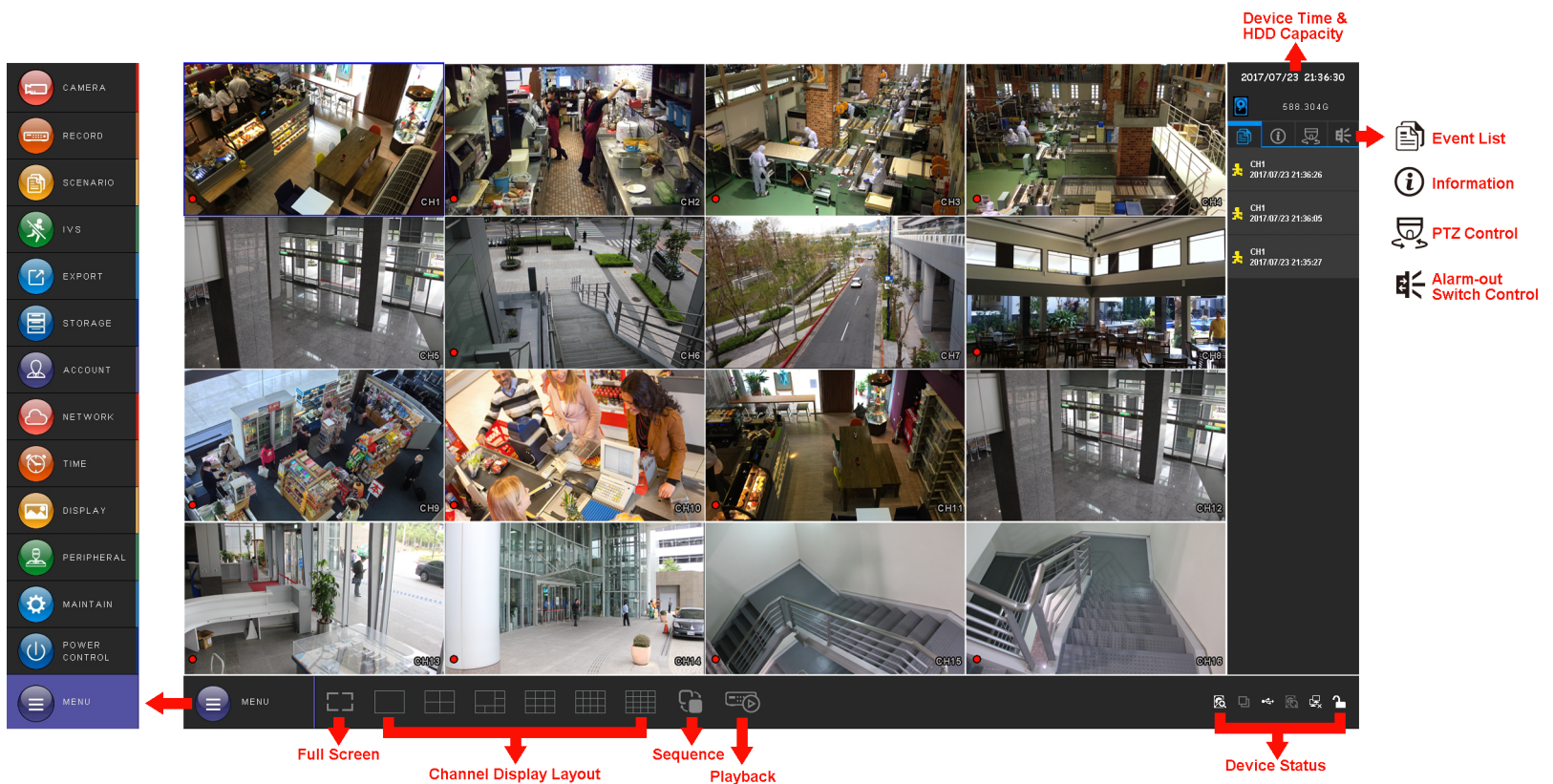
Connect your USB mouse to one of the USB ports on the front panel, and move your mouse to enter the password with the password keypad. The default user name and password are both **admin**.

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 43.


























## 4.2 Interface Overview





















### 4.3 Status & Operation







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

|   |                                    |  |                             |
|---|------------------------------------|--|-----------------------------|
|    | Key lock                           |    | Key unlock                  |
|    | Channel lock                       |    | Channel unlock              |
|    | USB flash drive / device connected |    | No USB device connected     |
|    | Timer record on                    |    | Timer record off            |
|    | Overwrite on                       |    | Overwrite off               |
|    | Sequence mode on                   |    | Sequence mode off           |
|    | PTZ mode on                        |    | PTZ mode off                |
|    | USB backup in progress             |    | USB flash drive full        |
|    | USB backup failed                  |    | CPU loading                 |
| <b>Network Status:</b>  |                                    |  |                             |
|  | (WAN) Internet connected           |  | (WAN) Internet disconnected |
|  | (WAN) Local connection             |  |                             |
|  | (LAN) DHCP / Static IP mode        |  | (LAN) Camera disconnected   |

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


|   |                             |   |                       |   |                     |   |                    |
|---|-----------------------------|---|-----------------------|---|---------------------|---|--------------------|
|  | Camera disconnected         |  | Original size         |  | Fit to screen       |  | Digital zoom       |
|  | Audio on                    |  | Audio off             |  | Alarm out           |  | Alarm out disabled |
|  | Recording                   |  | Alarm event           |  | Motion event        |  | PIR event          |
|  | Scene change event          |  | One way pass event    |  | Virtual fence event |   |                    |
|  | Add a camera by auto search |  | Add a camera manually |  | IP camera setup     |   |                    |

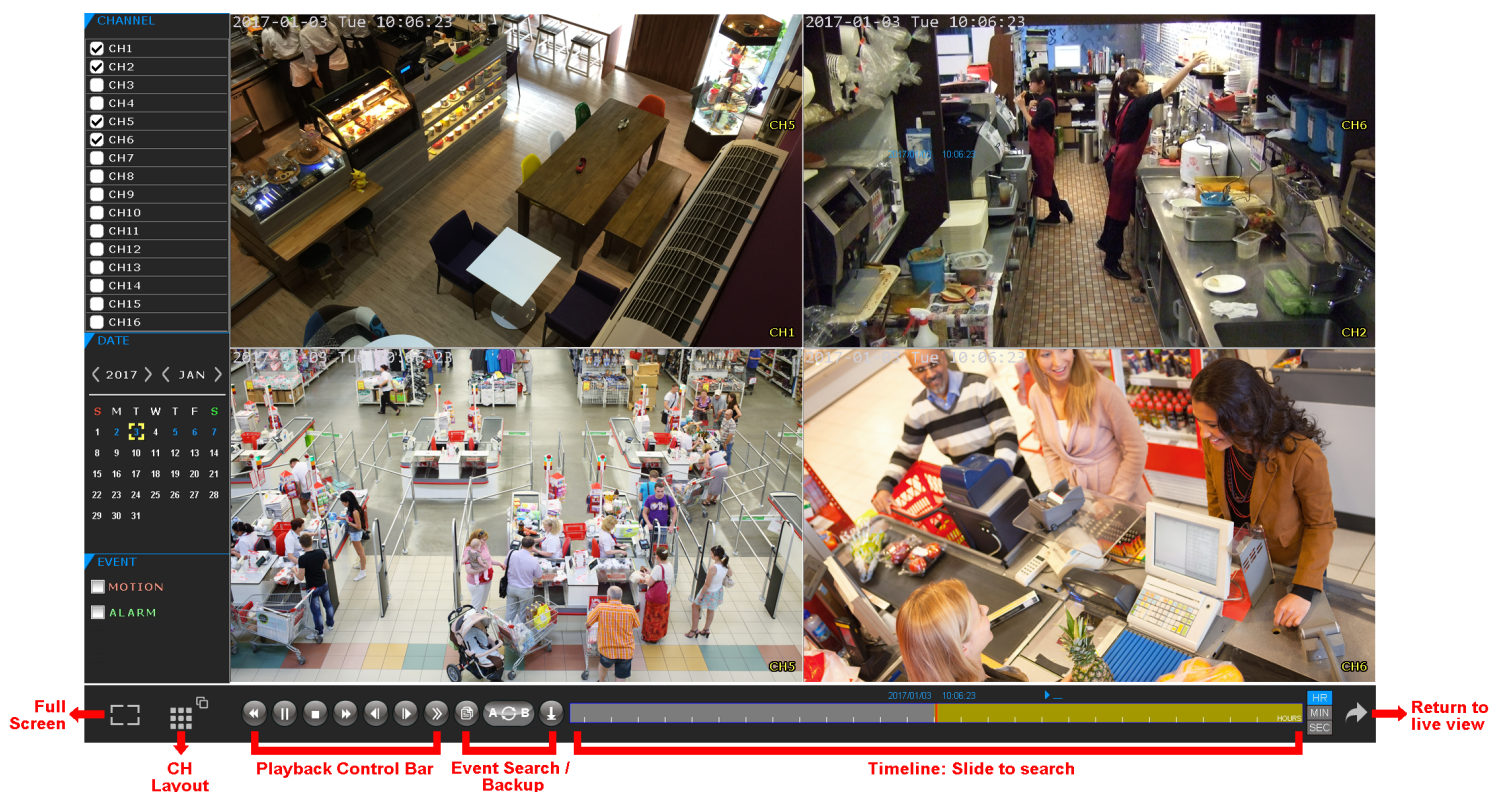
Click **MENU** on the bottom left corner to show the main menu list and its sub items:

|   |          |                |                                |
|---|----------|----------------|--------------------------------|
|    | CAMERA   | CONNECTION     | IP SEARCH                      |
|   |          | DEVICE         |                                |
|   |          | IMAGE          | BRIGHTNESS                     |
|   |          |                | CONTRAST                       |
|   |          |                | SATURATION                     |
|   |          |                | HUE                            |
|   |          | DETECTION      |                                |
| ALARM OUT<br><i>(For selected models only)</i>                                      |          |                |                                |
|    | RECORD   | LIVE STREAM    |                                |
|   |          | RECORD STREAM  |                                |
|   |          | SUBSTREAM      |                                |
|    | SCENARIO |                |                                |
|  | IVS      |                |                                |
|  | EXPORT   | BACKUP         |                                |
|   |          | SCHEDULE       |                                |
|   |          | REGULAR REPORT |                                |
|  | STORAGE  |                | HDD NEARLY FULL (GB)           |
|   |          |                | HDD OVERHEAT ALERT (°C)        |
|   |          |                | OVER WRITE                     |
|   |          |                | KEEP DATA LIMIT(DAYS)          |
|   |          |                | TEMPERATURE TO ENABLE FAN (°C) |
|   |          |                | REMINDER WHEN FORMATTING HDD   |
|  | ACCOUNT  | USER LIST      |                                |
|   |          | GROUP          |                                |
|  | NETWORK  | WAN            |                                |
|   |          | LAN            |                                |
|   |          | DDNS           |                                |
|   |          | E-MAIL         |                                |
|   |          | FTP            |                                |
|   |          | MULTICASTING   |                                |
|   |          | EaZy           |                                |
|  | TIME     | TIME SETUP     | DATE                           |
|   |          |                | TIME                           |
|   |          |                | FORMAT                         |
|   |          |                | NTP SERVER                     |
|   |          |                | SYNC PERIOD                    |
|   |          |                | GMT                            |
|   |          |                | CLIENT TIME SYNC VIA RECORDER  |
|   |          |                | SYNC NTP SERVER TIME           |
|   | DATLIGHT |                |                                |














|   |               |  |  |
|---|---------------|--|--|
|    | DISPLAY       |  | CHANNEL TITLE                                      |
|   |               |  | EVENT STATUS                                       |
|   |               |  | AUTO KEY LOCK(S)                                   |
|   |               |  | HDD DISPLAY MODE                                   |
|   |               |  | DISPLAY OUTPUT                                     |
|   |               |  | LANGUAGE   |
|   |               |  | HDMI2 DISPLAY <i>(For selected models only)</i>    |
|   |               |  | SPOT MONITOR <i>(For selected models only)</i>     |
|   |               |  | COMPOSITE OUTPUT <i>(For selected models only)</i> |
|   |               |  | VGA OUTPUT <i>(For selected models only)</i>       |
|   |               |  | CALL SCREEN DURATION                               |
|   |               |  | QUAD SCREEN DURATION                               |
|   |               |  | NVR MODE <i>(For selected models only)</i>         |
|   |               |  |  |
|  | PERIPHERAL    | LOCAL  | MOUSE SENSITIVITY                                  |
|   |               |  | REMOTE CONTROL ID                                  |
|   |               | JOYSTICK   |  |
|   |               | LOCAL ALARM IN<br><i>(For selected models only)</i>  |  |
|   |               | LOCAL ALARM OUT<br><i>(For selected models only)</i> |  |
|   |               | DEVICES  |  |
|   |               | OVERHEAD DOOR  |  |
|  | MAINTAIN      | SYSTEM   | BACKUP CONFIG                                      |
|   |               |  | RESTORE CONFIG                                     |
|   |               |  | RESET DEFAULT                                      |
|   |               |  | DEVICE TITLE                                       |
|   |               |  | ENABLE AUTO PLUG AND PLAY                          |
|   |               |  | BIND MAC ADDRESS                                   |
|   |               |  | RESET ALL GUARD CONNECTION                         |
|   |               |  |  |
|   |               | UPGRADE  | LOCAL  |
|   |               |  | CAMERA   |
|   |               | ALERT  | EXT. ALERT   |
|   |               |  | INT. BUZZER  |
|   |               |  | 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  |               |  |  |
|   | AUTO REBOOT   |  |  |
|  | POWER CONTROL | HALT THE SYSTEM                                      |  |
|   |               | REBOOT THE SYSTEM                                    |  |
|   |               | LOGOUT   |  |

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.

### Playback Control

|   |                      |   |
|---|----------------------|---|
|  | Fast Forward         | Increase the speed for fast forward.  |
|  | Fast Rewind          | Increase the speed for fast rewind.   |
|  | Play / Pause         | Click to play the latest recorded video clip immediately, and click again to pause.<br>In the pause mode, click  once to get one frame forward, and click  to get one frame rewind. |
|  | Stop                 | Click to stop the video playback.   |
|  | Slow Playback        | Click once to get 1/4X speed playback, and click twice to get 1/8X speed playback.  |
|  | Previous / Next Hour | Click to jump to the next / previous time interval in an hour, for example, 11:00 ~ 12:00 or 14:00 ~ 15:00, and start playing the earliest event video clip recorded during this whole hour.  |
|  | Event List           | Click to enter the quick search menu for specific record data search, or select <b>FULL</b> to show all event logs.   |
|  | Repeat               | Click to set point A and point B in a video clip, and the system will play only the specified range in that clip.   |
|  | Backup               | Click to open the backup menu for video backup.   |

# 5. FREQUENTLY-USED FUNCTIONS

## 5.1 IP Device Search

**Note:** This function is applicable only for our brand’s IP camera. For other brand’s IP camera, please check its user manual to know how to change the IP address manually under the network segment of 10.1.1.xx (xx ranges from 11 ~ 253).

Go to **MENU → CAMERA → CONNECTION**, and select **IP SEARCH** at the bottom right corner. You’ll see the list of every connected IP camera with its connection status to this device and MAC address.

| IP SEARCH                |      |             |           |               |           |             |         |                   |        |
|--------------------------|------|-------------|-----------|---------------|-----------|-------------|---------|-------------------|--------|
| ASSIGN                   | EDIT | DEVICE TYPE | IP        | NETMASK       | GATEWAY   | PRIMARY DNS | PORT    | MAC               | VENDOR |
| <input type="checkbox"/> |      | IPCAM       | 10.2.1.33 | 255.255.255.0 | 10.2.1.10 | 8.8.8.8     | 88      | 00:0E:53:31:06:E5 | AVTECH |
|                          |      |             |           |               |           |             | REFRESH | ADD               |        |


Make sure the IP address of the connected camera is under the network segment of 10.1.1.xx (xx ranges from 11 ~ 253). If not, select and change the network type from **STATIC** to **DHCP**. Then, Click **APPLY** to save your changes.




| SETUP  |               |
|--|---------------|
| NETWORK TYPE   | DHCP          |
| IP   | 10.1.1.14     |
| PORT   | 88            |
| USER NAME  | Admin         |
| PASSWORD   | *****         |
| NETMASK  | 255.255.255.0 |
| GATEWAY  | 10.1.1.10     |
| PRIMARY DNS  | 8.8.8.8       |
| <input type="button" value="CANCEL"/> <input type="button" value="APPLY"/> |               |

Check  to assign the camera to a specific channel automatically, and choose **ADD**.

| IP SEARCH                           |      |             |           |               |           |             |         |                   |        |
|-------------------------------------|------|-------------|-----------|---------------|-----------|-------------|---------|-------------------|--------|
| ASSIGN                              | EDIT | DEVICE TYPE | IP        | NETMASK       | GATEWAY   | PRIMARY DNS | PORT    | MAC               | VENDOR |
| <input checked="" type="checkbox"/> |      | IPCAM       | 10.1.1.14 | 255.255.255.0 | 10.1.1.10 | 8.8.8.8     | 88      | 00:0E:53:31:06:E5 | AVTECH |
|                                     |      |             |           |               |           |             | REFRESH | ADD               |        |

## 5.2 User Account Creation

To create different user account for different access privilege, go to **MENU → ACCOUNT → USER LIST**, and choose  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 43.











| Function         | User Level |            |      |       |
|------------------|------------|------------|------|-------|
|                  | SUPERVISOR | POWER USER | USER | GUEST |
| <b>■ GENERAL</b> |            |            |      |       |
| BACKUP           | ✓          | ✓          |      |       |
| PTZ CONTROL      | ✓          | ✓          |      |       |
| POWER CONTROL    | ✓          |            |      |       |
| REVIEW LOG       | ✓          |            |      |       |
| CONFIG SETUP     | ✓          |            |      |       |
| CLEAR LOG        | ✓          |            |      |       |
| ACCOUNT SETUP    | ✓          |            |      |       |
| CLEAR HDD        | ✓          |            |      |       |
| PUSH VIDEO       | ✓          |            |      |       |
| PUSH STATUS      | ✓          |            |      |       |
| ALARM OUT        | ✓          | ✓          |      |       |
| <b>■ LOCAL</b>   |            |            |      |       |
| LIVE VIDEO       | ✓          | ✓          | ✓    | ✓     |
| LIVE AUDIO       | ✓          | ✓          | ✓    |       |
| PLAYBACK VIDEO   | ✓          | ✓          |      |       |
| PLAYBACK AUDIO   | ✓          | ✓          |      |       |
| <b>■ NETWORK</b> |            |            |      |       |
| LIVE VIDEO       | ✓          |            | ✓    | ✓     |
| LIVE AUDIO       | ✓          |            | ✓    |       |
| PLAYBACK VIDEO   | ✓          |            |      |       |
| PLAYBACK AUDIO   | ✓          |            |      |       |



### 5.3 PTZ Control





|                       |                          |  |
|-----------------------|--------------------------|--|
|                       | Enter                    | Click to confirm your selection / enter the menu.  |
|                       | Up / Down / Left / Right | Click the arrow keys (▲ / ▼ / ◀ / ▶) to more the camera lens up / down / left /right.  |
| <b>Camera Control</b> |                          |  |
|                       | Iris + / Iris -          | This 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.  |
|                       | Focus near / far         | Click to adjust the focus of the image.  |
| <b>Camera Control</b> |                          |  |
|                       | Zoom in / out            | Click to zoom in / out on the image.<br>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. <ul style="list-style-type: none"> <li>Zoom in: Draw the square from top left to bottom right.</li> <li>Zoom out: Draw the square from bottom right to left top.</li> </ul> |
|                       | 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.<br>Before using it, you need to assign a specific function that will be enabled when  is clicked. For details, please refer to the user manual of the camera.   |
|                       | 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.  |
|                       | 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 ● and ●➤ on the screen. The farther these two icons, the faster the movement.   |

|  Preset Point |                      |  |
|--|----------------------|--|
| 01 ~ 10  | Preset point 01 ~ 10 | These ten buttons are used for preset point 1 ~ 10.<br>To set or go to other preset point (such as 15), please enter the numbering manually in the input box next to  , and choose  to set the preset point, or  to go to the preset point. |
|               | 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  to confirm.   |
|               | Go to preset point   | To go to the preset point from 1 ~ 10, simply click the button.<br>To go to the other preset point out of 10, enter the numbering manually in the input box next to  , and choose  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 71.

**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  to go to the playback panel, and choose  at the bottom tool bar to open the backup menu:

**BACKUP**

| <p><b>SOURCE</b></p> <p>DATA TYPE <input checked="" type="checkbox"/> VIDEO <input type="checkbox"/> LOG</p> <p>RANGE 2017/07/18 23:03:52 ~ 2017/07/18 23:03:52</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">&lt; 2017 &gt;</div> <table border="1" style="font-size: 8px; text-align: center;"> <tr><th>SUN</th><th>MON</th><th>TUE</th><th>WED</th><th>THU</th><th>FRI</th><th>SAT</th></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td>1</td></tr> <tr><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td></tr> <tr><td>16</td><td>17</td><td style="background-color: #e0f0ff;">18</td><td>19</td><td>20</td><td>21</td><td>22</td></tr> <tr><td>&lt; JUL &gt;</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td></tr> <tr><td>30</td><td>31</td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> </div> <p style="text-align: center;">&lt; 23:03:52 &gt;    HR   MIN   SEC</p> <p style="text-align: right; font-size: 8px;">HOURS</p> <p><b>CHANNEL</b> <input type="checkbox"/> ALL</p> <table border="1" style="font-size: 8px; text-align: center;"> <tr> <td>CH1  <input checked="" type="checkbox"/></td> <td>CH2  <input type="checkbox"/></td> <td>CH3  <input checked="" type="checkbox"/></td> <td>CH4  <input type="checkbox"/></td> </tr> <tr> <td>CH5  <input type="checkbox"/></td> <td>CH6  <input type="checkbox"/></td> <td>CH7  <input type="checkbox"/></td> <td>CH8  <input type="checkbox"/></td> </tr> <tr> <td>CH9  <input type="checkbox"/></td> <td>CH10  <input type="checkbox"/></td> <td>CH11  <input type="checkbox"/></td> <td>CH12  <input type="checkbox"/></td> </tr> <tr> <td>CH13  <input type="checkbox"/></td> <td>CH14  <input type="checkbox"/></td> <td>CH15  <input type="checkbox"/></td> <td>CH16  <input type="checkbox"/></td> </tr> </table> | SUN   | MON   | TUE   | WED    | THU | FRI | SAT |  |  |  |  |  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | < JUL > | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |  |  |  |  |  | CH1  <input checked="" type="checkbox"/> | CH2  <input type="checkbox"/> | CH3  <input checked="" type="checkbox"/> | CH4  <input type="checkbox"/> | CH5  <input type="checkbox"/> | CH6  <input type="checkbox"/> | CH7  <input type="checkbox"/> | CH8  <input type="checkbox"/> | CH9  <input type="checkbox"/> | CH10  <input type="checkbox"/> | CH11  <input type="checkbox"/> | CH12  <input type="checkbox"/> | CH13  <input type="checkbox"/> | CH14  <input type="checkbox"/> | CH15  <input type="checkbox"/> | CH16  <input type="checkbox"/> | <p><b>DESTINATION</b></p> <p>TARGET <span style="border: 1px solid black; padding: 2px;">USB DEVICE</span> <input checked="" type="checkbox"/></p> <p>REQUIRED SIZE 2 MB </p> <p>AVAILABLE SIZE 3 GB</p> <p><b>STORAGE</b></p> <p>USB PATH <span style="border: 1px solid black; padding: 2px;">/VIDEO</span> <span style="border: 1px solid black; padding: 2px;">...</span></p> <table border="1" style="width: 100%; font-size: 8px;"> <thead> <tr> <th>TIME</th> <th>CHANNEL</th> <th>BACKUP TYPE</th> <th>DEVICE</th> <th>STATUS</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> | TIME | CHANNEL | BACKUP TYPE | DEVICE | STATUS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|--------|-----|-----|-----|--|--|--|--|--|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|---------|----|----|----|----|----|----|----|----|----|--|--|--|--|--|---|--|---|--|--|--|--|--|--|---|---|---|---|---|---|---|--|------|---------|-------------|--------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| SUN   | MON   | TUE   | WED   | THU    | FRI | SAT |     |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |      |         |             |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |   |   |   |        |     | 1   |     |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |      |         |             |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2   | 3   | 4   | 5   | 6      | 7   | 8   |     |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |      |         |             |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9   | 10  | 11  | 12  | 13     | 14  | 15  |     |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |      |         |             |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16  | 17  | 18  | 19  | 20     | 21  | 22  |     |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |      |         |             |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| < JUL >   | 23  | 24  | 25  | 26     | 27  | 28  | 29  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |      |         |             |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30  | 31  |   |   |        |     |     |     |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |      |         |             |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CH1  <input checked="" type="checkbox"/>   | CH2  <input type="checkbox"/>  | CH3  <input checked="" type="checkbox"/> | CH4  <input type="checkbox"/>  |        |     |     |     |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |      |         |             |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CH5  <input type="checkbox"/>  | CH6  <input type="checkbox"/>  | CH7  <input type="checkbox"/>            | CH8  <input type="checkbox"/>  |        |     |     |     |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |      |         |             |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CH9  <input type="checkbox"/>  | CH10  <input type="checkbox"/> | CH11  <input type="checkbox"/>           | CH12  <input type="checkbox"/> |        |     |     |     |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |      |         |             |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CH13  <input type="checkbox"/>   | CH14  <input type="checkbox"/> | CH15  <input type="checkbox"/>           | CH16  <input type="checkbox"/> |        |     |     |     |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |      |         |             |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TIME  | CHANNEL   | BACKUP TYPE   | DEVICE  | STATUS |     |     |     |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |      |         |             |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |   |   |   |        |     |     |     |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |      |         |             |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |   |   |   |        |     |     |     |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |      |         |             |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |   |   |   |        |     |     |     |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |      |         |             |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |   |   |   |        |     |     |     |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |      |         |             |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |   |   |   |        |     |     |     |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |      |         |             |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |   |   |   |        |     |     |     |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |      |         |             |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |   |   |   |        |     |     |     |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |      |         |             |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |   |   |   |        |     |     |     |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |      |         |             |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |   |   |   |        |     |     |     |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |      |         |             |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |   |   |   |        |     |     |     |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |      |         |             |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

CANCEL    BACKUP

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: The video footage can only be saved to a USB device. Specify where to save in the USB device in **STORAGE**.

Step4: Choose **BACKUP** to start. The backup video will be in the AVI format.

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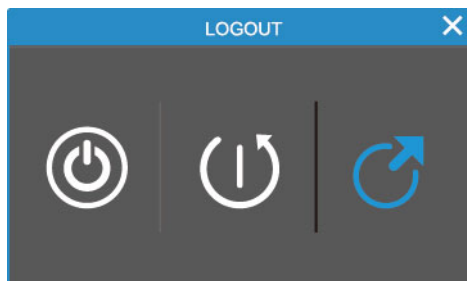
**Note:** When the video compression format is H.265, please use the video player which supports H.265 to play the video footage.

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## 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** → **POWER CONTROL**, and choose  to log out the system.




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

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## 5.6 Hardware Reset

This is used when you lose the access user name and / or password. This will reset your recorder to its factory default values.

### ➤ For 8-bay 36CH & 16CH models

Step 1: Power off your recorder.

Step 2: Find a pinhole on the rear panel of your recorder, next to the VGA port.

Step 3: Use a thin sturdy object, such as a straightened paperclip, and push it through the hole to press the reset button. Press and hold the 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.

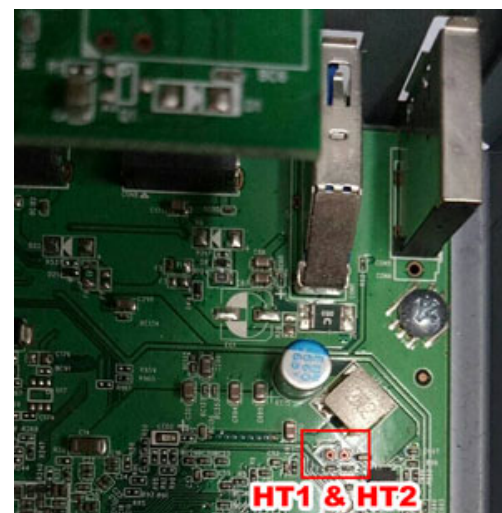
### ➤ For 16CH models without PoE

Step 1: Power off your recorder and remove the top case to reveal the main board of the recorder.

Step 2: Find the two points of HT1 & HT2 on the mainboard. These two points are for hardware reset.

Step 3: Use a thin sturdy object, such as a paperclip or forceps, to touch these two points at the same time for short circuit.

Step4: With the two points touched, power on your recorder and wait till you hear the second beep sound and the reset message shows on the screen.



### ➤ For 16CH, 9CH & 4CH models with PoE

Step 1: Power off your recorder.


Step 2: Open the top case of the recorder to reveal the main board, and find a **blue** 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 and the reset message shows on the screen.

# 6. MAIN MENU

## 6.1 CAMERA

To know how to add our brand's IP cameras automatically, please refer to "2.3 Camera IP Configurations by LAN" at 7.

To manually add a camera connected locally or remotely, click  to enter the setup page.

**Note:** Before connecting other brand's IP camera, make sure its IP address is set to 10.1.1.xx (xx ranges from 11 ~ 253). To know how to change the IP address of the camera, please refer to its user manual.

| CONNECTION    |           |      |                                 |           |      |             |        |       |                 |        |                            |                    |
|---------------|-----------|------|---------------------------------|-----------|------|-------------|--------|-------|-----------------|--------|----------------------------|--------------------|
| CHANNEL TITLE | INTERFACE | EDIT | <input type="checkbox"/> ENABLE | URI       | PORT | DEVICE TYPE | VENDOR | MODEL | STREAM PROTOCOL | METHOD | SUB STREAM PATH (REQUIRED) | RECORD STREAM PATH |
| CH1           | IP        |      | <input type="checkbox"/>        | 10.1.1.11 | 88   | IPCAM       |        |       | RTP-Unicast     | HTTP   |                            |                    |
| CH2           | IP        |      | <input type="checkbox"/>        |           |      |             |        |       |                 |        |                            |                    |
| CH3           | IP        |      | <input type="checkbox"/>        |           |      |             |        |       |                 |        |                            |                    |
| CH4           | IP        |      | <input type="checkbox"/>        |           |      |             |        |       |                 |        |                            |                    |

In the setup page, enter the access information of the camera, and click **APPLY** to confirm.

|  |             |  |
|--|-------------|--|
| VENDOR   | ONVIF       |  |
| MODEL  |             |  |
| STREAM PROTOCOL  | RTP-Unicast |  |
| METHOD   | TCP         |  |
| URI  | 10.1.1.22   |  |
| PORT   | 82          |  |
| PATH1  |             |  |
| PATH2  |             |  |
| USER NAME  | test1234    |  |
| PASSWORD   | ●●●●●       |  |
| <input type="button" value="CANCEL"/> <input type="button" value="APPLY"/> |             |  |



| DEVICE        |        |                   |              |             |           |           |          |  |  |  |       |  |  |
|---------------|--------|-------------------|--------------|-------------|-----------|-----------|----------|--|--|--|-------|--|--|
| CHANNEL TITLE | ENABLE | CACHE TIME (MSEC) | PORT FORWARD | CAMERA TYPE | ALARM OUT | OSD TITLE | OSD LOGO |  |  |  |       |  |  |
| CH1           |        |                   | 81           | AUTO        | 3         | UP LEFT   | UP LEFT  |  |  |  |       |  |  |
| CH2           |        |                   | 82           | AUTO        | 3         | UP LEFT   | UP LEFT  |  |  |  |       |  |  |
| CH3           |        |                   | 83           | AUTO        | 3         | UP LEFT   | UP LEFT  |  |  |  |       |  |  |
| CH4           |        |                   | 84           | AUTO        | 3         | UP LEFT   | UP LEFT  |  |  |  |       |  |  |
|               |        |                   |              |             |           |           |          |  |  |  | APPLY |  |  |

1) CHANNEL TITLE

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

2) ENABLE

Here shows the functions you can enable or disable:

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

| Icon | Meaning                     | Description   |
|------|-----------------------------|---|
|      | Time stamp on / off         | Display the recording time or not.  |
|      | Edge recording on / off     | Enable this function to allow video recording directly to the microSD card inserted in the IP camera when the NVR is disconnected to the camera and unable to work properly.                    |
|      | 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 NVR when the NVR 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.  |

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

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 to 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) ALARM OUT *(Depending on the camera you connected)*

This function is used to set how long the device should work in seconds when the  is clicked on the camera channel.

**Note:** An alarm-out device (such as a buzzer) should be connected to an IP 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 52.

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 |

| DETECTION                            |                               |                                     |  |        |      |   |  |
|--------------------------------------|-------------------------------|-------------------------------------|--|--------|------|---|--|
| CHANNEL TITLE                        | ALARM                         | INTERNAL ALARM                      | SENSITIVITY  | MOTION | AREA | ADVANCED CONFIG   |  |
| CH1                                  | OFF <input type="checkbox"/>  | <input checked="" type="checkbox"/> | <div style="display: flex; align-items: center;"> <span style="margin-right: 5px;">2</span> <div style="flex-grow: 1; border: 1px solid black; position: relative;"> <div style="position: absolute; top: -5px; left: 50%; transform: translate(-50%, -50%);">  </div> </div> <span style="margin-left: 5px;">0</span> </div> | ON     | EDIT |  |  |
| CH2                                  | N.C. <input type="checkbox"/> | <input checked="" type="checkbox"/> | <div style="display: flex; align-items: center;"> <span style="margin-right: 5px;">2</span> <div style="flex-grow: 1; border: 1px solid black; position: relative;"> <div style="position: absolute; top: -5px; left: 50%; transform: translate(-50%, -50%);">  </div> </div> <span style="margin-left: 5px;">0</span> </div> | OFF    | EDIT |  |  |
| CH3                                  | N.O. <input type="checkbox"/> | <input checked="" type="checkbox"/> | <div style="display: flex; align-items: center;"> <span style="margin-right: 5px;">2</span> <div style="flex-grow: 1; border: 1px solid black; position: relative;"> <div style="position: absolute; top: -5px; left: 50%; transform: translate(-50%, -50%);">  </div> </div> <span style="margin-left: 5px;">0</span> </div> | OFF    | EDIT |  |  |
| CH4                                  | OFF <input type="checkbox"/>  | <input checked="" type="checkbox"/> | <div style="display: flex; align-items: center;"> <span style="margin-right: 5px;">2</span> <div style="flex-grow: 1; border: 1px solid black; position: relative;"> <div style="position: absolute; top: -5px; left: 50%; transform: translate(-50%, -50%);">  </div> </div> <span style="margin-left: 5px;">0</span> </div> | OFF    | EDIT |  |  |
| <input type="button" value="APPLY"/> |                               |                                     |  |        |      |   |  |

1) ALARM

This function is used when the connected IP camera is our brand's IP camera and it has an alarm-in device connected, such as infrared sensors. Select **N.C.** / **N.O.** depending on your installation need. The default alarm value is **OFF**.

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) SENSITIVITY

Select the detection sensitivity of the selected channel. **2** is the highest sensitivity.

4) MOTION

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

5) AREA

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 |
| <input type="button" value="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 SIZE  |          |        |       |  |              | 8x8     |
| PRIORITY     |          |        |       |  |              | OVERLAY |
| NAME         | FUNCTION | MOSAIC | COLOR | COLOR FOR MASK   | TRANSPARENCY |         |
| MASK1        | OFF      | OFF    | ON    |  | 0%           |         |
| MASK2        | ON       | ON     | ON    |  | 25%          |         |

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

| PRIVACY MASK - EDIT |  |
|---------------------|--|
| NAME                | MASK3  |
| FUNCTION            | ON   |
| MOSAIC              | ON   |
| COLOR               | ON   |
| COLOR FOR MASK      |  |
| TRANSPARENCY        | 50%  |
| LINE WIDTH          | 0  |
| MASK AREA           | SETUP  |

| Item           | Description  |
|----------------|--|
| MOSAIC SIZE    | Choose the mosaic size of the privacy mask. The options are: 8x8, 32x32, and 64x64.  |
| 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%.<br>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.<br>When 0 is chosen, no border is added. |
| MASK AREA      | Select "SETUP" to enter the area selection page. To exit, right click.   |


■ **ROI** ROI (Region of Interest)

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 |        |         |
|--------------------|--------|---------|
| REGION             | ENABLE | QUALITY |
| 1                  | ON     | 7       |
| 2                  | OFF    | 7       |
|                    |        | EDIT    |

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

| REGION OF INTEREST - EDIT |                                |
|---------------------------|--------------------------------|
| ENABLE                    | ON                             |
| QUALITY                   | 0 5 10<br>■■■■■▲■■■■■<br>SETUP |
| AREA                      |                                |
| 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.
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         | ON |   |
| TIMEOUT (SECS)     | 30 | ▼ |
| PRESET GROUP       | 1  | ▼ |
| PRESET NUMBER      | 1  | ▼ |
| APPLY              |    |   |

| Item           | Description   |
|----------------|---|
| GUARD LOCK     | Enable ( <b>ON</b> ) or disable ( <b>OFF</b> ) this function.   |
| TIMEOUT (SECS) | Configure the timeout in seconds ( <b>30 / 60 / 90 / 120</b> ) 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 <b>PRESET NUMBER</b> to choose the preset point number.   |
| PRESET NUMBER  | Choose the preset point number you'd like to use when <b>GUARD LOCK</b> is enabled.   |

**Note:** An alarm-out device (such as a buzzer) should be connected to an IP 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 52.

This function is used when the external alarm-out device is connected to an IP 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 (🔊) 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 (SECS) |   |
| CH1           | alarmout-ch1 | DISABLE               | 1                         | ▼ |
| CH2           | alarmout-ch2 | ENABLE                | 5                         | ▼ |
| 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

| VIDEO SOURCE CONFIG |                          |           |      |      |            |             |        |                |                 |        |     |    |
|---------------------|--------------------------|-----------|------|------|------------|-------------|--------|----------------|-----------------|--------|-----|----|
| LIVE                | RECORD STREAM            | SUBSTREAM |      |      |            |             |        |                |                 |        |     |    |
| CHANNEL             | D.O.R                    | PROFILE   | TYPE |      | IMAGE SIZE | QUALITY     | I.P.S. | BITRATE (kbps) | BITRATE CONTROL | G.O.V. |     |    |
| CH1                 | <input type="checkbox"/> | PROFILE-3 | ✓    | H265 | ✓          | 720 X 480   |        | 30             | ✓               | 2048   | VBR | 30 |
| CH2                 | <input type="checkbox"/> | PROFILE-3 | ✓    | H264 | ✓          | 1280 x 1024 |        | 30             | ✓               | 2048   | VBR | 30 |
| CH3                 | <input type="checkbox"/> | PROFILE-3 | ✓    | H264 | ✓          | 1280 x 1024 |        | 30             | ✓               | 2048   | VBR | 30 |
| CH4                 | <input type="checkbox"/> | PROFILE-3 | ✓    | H264 | ✓          | 1280 x 1024 |        | 30             | ✓               | 2048   | VBR | 30 |
| APPLY               |                          |           |      |      |            |             |        |                |                 |        |     |    |

■ RECORD STREAM


| VIDEO SOURCE CONFIG |               |           |      |            |             |        |                |                 |        |     |    |
|---------------------|---------------|-----------|------|------------|-------------|--------|----------------|-----------------|--------|-----|----|
| LIVE                | RECORD STREAM | SUBSTREAM |      |            |             |        |                |                 |        |     |    |
| PROFILE-1           |               | ✓         |      |            |             |        |                |                 |        |     |    |
| CHANNEL             | PROFILE       | TYPE      |      | IMAGE SIZE | QUALITY     | I.P.S. | BITRATE (kbps) | BITRATE CONTROL | G.O.V. |     |    |
| CH1                 | PROFILE-3     | ✓         | H265 | ✓          | 720 X 480   |        | 30             | ✓               | 2048   | VBR | 30 |
| CH2                 | PROFILE-3     | ✓         | H264 | ✓          | 1280 x 1024 |        | 30             | ✓               | 2048   | VBR | 30 |
| CH3                 | PROFILE-3     | ✓         | H264 | ✓          | 1280 x 1024 |        | 30             | ✓               | 2048   | VBR | 30 |
| CH4                 | PROFILE-3     | ✓         | H264 | ✓          | 1280 x 1024 |        | 30             | ✓               | 2048   | VBR | 30 |
| APPLY               |               |           |      |            |             |        |                |                 |        |     |    |























■ SUB STREAM

| VIDEO SOURCE CONFIG |               |           |      |            |             |        |                |                 |        |     |    |
|---------------------|---------------|-----------|------|------------|-------------|--------|----------------|-----------------|--------|-----|----|
| LIVE                | RECORD STREAM | SUBSTREAM |      |            |             |        |                |                 |        |     |    |
| CHANNEL             | PROFILE       | TYPE      |      | IMAGE SIZE | QUALITY     | I.P.S. | BITRATE (kbps) | BITRATE CONTROL | G.O.V. |     |    |
| CH1                 | PROFILE-3     | ✓         | H265 | ✓          | 720 X 480   |        | 30             | ✓               | 2048   | VBR | 30 |
| CH2                 | PROFILE-3     | ✓         | H264 | ✓          | 1280 x 1024 |        | 30             | ✓               | 2048   | VBR | 30 |
| CH3                 | PROFILE-3     | ✓         | H264 | ✓          | 1280 x 1024 |        | 30             | ✓               | 2048   | VBR | 30 |
| CH4                 | PROFILE-3     | ✓         | H264 | ✓          | 1280 x 1024 |        | 30             | ✓               | 2048   | VBR | 30 |
| 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  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     |
|   |  |  |                                 |          |        |

There are 13 pre-defined scenarios for you to quickly enable the recording and notification functions which are used frequently.

---

**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 IP cameras or the NVR. 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 (For selected models only)

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 68.

---

5) PUSH VIDEO TRIGGERED BY EXTERNAL ALARM *(For selected models only)*

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 IP cameras or the NVR. 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 68.

---

6) MANUAL RECORD

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) SEND PUSH STATUS FOR HEALTH CHECK

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) POP-UP ON LIVE MONITOR (MOTION AND EXTERNAL ALARM EVENT)

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 IP cameras or the NVR. For the alarm events triggered by the PIR sensor built into the camera, please choose PIR instead.

---

9) MOTION DETECTION ON WHEN GUARD ON *(For selected models only)*

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 *(For selected models only)*

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 IP cameras or the NVR. For the alarm events triggered by the PIR sensor built into the camera, please choose PIR instead.

---

11) MOTION DETECTION OFF WHEN GUARD OFF *(For selected models only)*

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 *(For selected models only)*

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 47.

---



**Note:** The functions available depend on the recorder you have.

Click  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**)

## EVENT

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 / one way / virtual fence / scene change depending on the option you've chosen. |
|                  | FLOW COUNTING OUT    |   |
|                  | ONE WAY PASS         |   |
|                  | VIRTUAL FENCE        |   |
|                  | CAMERA SCENE CHANGE  |   |
| HEALTH CHECK     | LOGIN LOCKED         | Choose at least one status that you want to pay attention to.   |
|                  | SYSTEM ERROR         |   |
|                  | 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.   |

RECORD

| Option                        |       | Description  |
|-------------------------------|-------|--|
| START RECORDING EVENT CHANNEL | GROUP | Choose the record profile group you want defined in <b>MENU → RECORD → RECORD STREAM</b> when event recording is on. |

TIME

| Option                   |  | Description   |
|--------------------------|--|---|
| EVERYDAY                 |  | Choose the pre-defined time range within which you want to activate the scenario rule.                          |
| HOLIDAY                  |  |   |
| WEEKDAY                  |  |   |
| <input type="checkbox"/> |  | Click <input type="checkbox"/> to customize the time range within which you want to activate the scenario rule. |

ACTION



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 <b>MENU → RECORD → RECORD STREAM</b> .  |
|                        | START RECORDING EVENT CHANNEL  | Choose the record profile group defined in <b>MENU → RECORD → RECORD STREAM</b> which is used for event-channel recording.   |
|                        | STOP RECORDING EVENT CHANNEL   |  |
|                        | START RECORDING ALL CHANNELS   | Choose the record profile group defined in <b>MENU → RECORD → RECORD STREAM</b> 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 <b>MENU → DISPLAY</b> .  |
|                        | VIDEO MAIL   | You can choose to receive notifications by Email in four ways:<br>1. Event videos<br>2. Snapshots<br>3. Abnormal status<br>4. Text<br>Make sure at least a recipient is selected in <b>RECEIVER</b> and configure the related settings in each setting page. |
|                        | EMAIL SNAPSHOT   |  |
|                        | EMAIL STATUS   |  |
|                        | EMAIL TEXT   |  |
| UPLOAD VIDEO TO FTP    | You can choose to upload event videos or snapshots to the FTP site pre-defined in <b>MENU → NETWORK → FTP</b> .<br>Make sure at least an FTP site is selected in <b>PROFILE</b> , and configure the related settings in each setting page. |  |
| UPLOAD SNAPSHOT TO FTP |  |  |

| 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.<br>To know how to set a preset point, please refer to "5.3 PTZ Control" at page 20.   |
|        | 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.<br>To know how to use this function, please refer to "ADVANCED CONFIG" in "6.1.4 DETECTION" at page 25. |
|        | 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 IP camera connected, and an alarm-out device (such as a buzzer) is connected to the camera.<br>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

This function is available only when the connected IP camera supports this function.

| IVS |               |   |              |              |                    |   |
|-----|---------------|---|--------------|--------------|--------------------|---|
|     | IVS MODE      |   | DISPLAY LINE | SCENE CHANGE | SCENE CHANGE LEVEL | SENSITIVITY   |
| CH1 | FLOW COUNTING | ▼ | OFF          | OFF          | MIDDLE             | ▼  |
| CH2 |               |   |              |              |                    |   |
| CH3 | ONEWAY        | ▼ | OFF          | OFF          | MIDDLE             | ▼  |
| CH4 |               |   |              |              |                    |   |

### 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) SENSITIVITY

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

### 6) DISPLAY LINE


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

### 7) (Clear) & (Edit)

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

## IVS APPLICATION

### ➤ FLOW COUNTING

Step1: Click  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.

|            |  |
|------------|--|
| <b>IN</b>  | People coming from the opposite direction to the arrow mark. |
| <b>OUT</b> | People coming from the same direction as the arrow mark.     |







➤ **VIRTUAL FENCE and ONE WAY**

Step1: Click  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:


|                      |  |
|----------------------|--|
| <b>VIRTUAL FENCE</b> | An event happens for anyone walking across the detection line, and “  ” will be shown on the screen.                    |
| <b>ONE WAY</b>       | An event happens for anyone walking from the opposite direction to the arrow mark, and “  ” will be shown on the screen. |
























































## 6.5 EXPORT

**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 71.

**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  to add an item for backup. You can add several items to copy different data you need.

| BACKUP  |   |         |             |            |        |
|---|---|---------|-------------|------------|--------|
|   |   |         |             |            |        |
| <input type="checkbox"/> SELECT   | TIME                                      | CHANNEL | BACKUP TYPE | DEVICE     | STATUS |
| <input type="checkbox"/>  | 2017/07/18 23:03:52 ~ 2017/07/18 23:03:52 | CH1     | VIDEO       | USB DEVICE | 25%    |
|   |   |         |             |            |        |
|   |   |         |             |            |        |

| BACKUP  |   |   |  |         |             |        |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |  |   |    |    |    |    |    |    |  |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |  |    |    |  |  |  |  |   |                     |  |  |
|---|---|---|--|---------|-------------|--------|---|--|---|--|--|--|--|--|--|---|---|---|---|---|---|---|--|---|---|---|--|---|----|----|----|----|----|----|--|----|----|----|----|----|----|----|---------|----|----|----|----|----|----|----|--|----|----|--|--|--|--|---|---------------------|--|--|
| <b>SOURCE</b>   |   |   | <b>DESTINATION</b>   |         |             |        |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |  |   |    |    |    |    |    |    |  |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |  |    |    |  |  |  |  |   |                     |  |  |
| DATA TYPE <input checked="" type="checkbox"/> VIDEO <input type="checkbox"/> LOG  |   |   | TARGET <input type="text" value="USB DEVICE"/>  |         |             |        |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |  |   |    |    |    |    |    |    |  |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |  |    |    |  |  |  |  |   |                     |  |  |
| RANGE 2017/07/18 23:03:52 ~ 2017/07/18 23:03:52   |   |   | REQUIRED SIZE 2 MB                              |         |             |        |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |  |   |    |    |    |    |    |    |  |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |  |    |    |  |  |  |  |   |                     |  |  |
| <table border="1"> <tr> <td>&lt; 2017 &gt;</td> <td>SUN</td> <td>MON</td> <td>TUE</td> <td>WED</td> <td>THU</td> <td>FRI</td> <td>SAT</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td>1</td> </tr> <tr> <td> </td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> </tr> <tr> <td> </td> <td>9</td> <td>10</td> <td>11</td> <td>12</td> <td>13</td> <td>14</td> <td>15</td> </tr> <tr> <td> </td> <td>16</td> <td>17</td> <td>18</td> <td>19</td> <td>20</td> <td>21</td> <td>22</td> </tr> <tr> <td>&lt; JUL &gt;</td> <td>23</td> <td>24</td> <td>25</td> <td>26</td> <td>27</td> <td>28</td> <td>29</td> </tr> <tr> <td> </td> <td>30</td> <td>31</td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>   |   |   | < 2017 >   | SUN     | MON         | TUE    | WED   | THU  | FRI   | SAT  |  |  |  |  |  |   |   | 1   |   | 2   | 3   | 4   | 5  | 6 | 7 | 8 |  | 9 | 10 | 11 | 12 | 13 | 14 | 15 |  | 16 | 17 | 18 | 19 | 20 | 21 | 22 | < JUL > | 23 | 24 | 25 | 26 | 27 | 28 | 29 |  | 30 | 31 |  |  |  |  |   | AVAILABLE SIZE 3 GB |  |  |
| < 2017 >  | SUN   | MON   | TUE  | WED     | THU         | FRI    | SAT   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |  |   |    |    |    |    |    |    |  |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |  |    |    |  |  |  |  |   |                     |  |  |
|   |   |   |  |         |             |        | 1   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |  |   |    |    |    |    |    |    |  |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |  |    |    |  |  |  |  |   |                     |  |  |
|   | 2   | 3   | 4  | 5       | 6           | 7      | 8   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |  |   |    |    |    |    |    |    |  |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |  |    |    |  |  |  |  |   |                     |  |  |
|   | 9   | 10  | 11   | 12      | 13          | 14     | 15  |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |  |   |    |    |    |    |    |    |  |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |  |    |    |  |  |  |  |   |                     |  |  |
|   | 16  | 17  | 18   | 19      | 20          | 21     | 22  |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |  |   |    |    |    |    |    |    |  |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |  |    |    |  |  |  |  |   |                     |  |  |
| < JUL >   | 23  | 24  | 25   | 26      | 27          | 28     | 29  |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |  |   |    |    |    |    |    |    |  |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |  |    |    |  |  |  |  |   |                     |  |  |
|   | 30  | 31  |  |         |             |        |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |  |   |    |    |    |    |    |    |  |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |  |    |    |  |  |  |  |   |                     |  |  |
| <table border="1"> <tr> <td colspan="4">CHANNEL <input type="checkbox"/> ALL</td> </tr> <tr> <td>CH1  <input checked="" type="checkbox"/></td> <td>CH2  <input type="checkbox"/></td> <td>CH3  <input checked="" type="checkbox"/></td> <td>CH4  <input type="checkbox"/></td> </tr> <tr> <td>CH5  <input type="checkbox"/></td> <td>CH6  <input type="checkbox"/></td> <td>CH7  <input type="checkbox"/></td> <td>CH8  <input type="checkbox"/></td> </tr> <tr> <td>CH9  <input type="checkbox"/></td> <td>CH10  <input type="checkbox"/></td> <td>CH11  <input type="checkbox"/></td> <td>CH12  <input type="checkbox"/></td> </tr> <tr> <td>CH13  <input type="checkbox"/></td> <td>CH14  <input type="checkbox"/></td> <td>CH15  <input type="checkbox"/></td> <td>CH16  <input type="checkbox"/></td> </tr> </table> |   |   | CHANNEL <input type="checkbox"/> ALL   |         |             |        | CH1  <input checked="" type="checkbox"/> | CH2  <input type="checkbox"/> | CH3  <input checked="" type="checkbox"/> | CH4  <input type="checkbox"/> | CH5  <input type="checkbox"/> | CH6  <input type="checkbox"/> | CH7  <input type="checkbox"/> | CH8  <input type="checkbox"/> | CH9  <input type="checkbox"/> | CH10  <input type="checkbox"/> | CH11  <input type="checkbox"/> | CH12  <input type="checkbox"/> | CH13  <input type="checkbox"/> | CH14  <input type="checkbox"/> | CH15  <input type="checkbox"/> | CH16  <input type="checkbox"/> | <b>STORAGE</b><br>USB PATH <input type="text" value="/VIDEO"/>  |   |   |   |  |   |    |    |    |    |    |    |  |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |  |    |    |  |  |  |  |   |                     |  |  |
| CHANNEL <input type="checkbox"/> ALL  |   |   |  |         |             |        |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |  |   |    |    |    |    |    |    |  |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |  |    |    |  |  |  |  |   |                     |  |  |
| CH1  <input checked="" type="checkbox"/>   | CH2  <input type="checkbox"/>  | CH3  <input checked="" type="checkbox"/> | CH4  <input type="checkbox"/>                     |         |             |        |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |  |   |    |    |    |    |    |    |  |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |  |    |    |  |  |  |  |   |                     |  |  |
| CH5  <input type="checkbox"/>  | CH6  <input type="checkbox"/>  | CH7  <input type="checkbox"/>            | CH8  <input type="checkbox"/>                     |         |             |        |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |  |   |    |    |    |    |    |    |  |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |  |    |    |  |  |  |  |   |                     |  |  |
| CH9  <input type="checkbox"/>  | CH10  <input type="checkbox"/> | CH11  <input type="checkbox"/>           | CH12  <input type="checkbox"/>                    |         |             |        |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |  |   |    |    |    |    |    |    |  |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |  |    |    |  |  |  |  |   |                     |  |  |
| CH13  <input type="checkbox"/>   | CH14  <input type="checkbox"/> | CH15  <input type="checkbox"/>           | CH16  <input type="checkbox"/>                    |         |             |        |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |  |   |    |    |    |    |    |    |  |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |  |    |    |  |  |  |  |   |                     |  |  |
| <table border="1"> <thead> <tr> <th>TIME</th> <th>CHANNEL</th> <th>BACKUP TYPE</th> <th>DEVICE</th> <th>STATUS</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>  |   |   | TIME   | CHANNEL | BACKUP TYPE | DEVICE | STATUS  |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |  |   |    |    |    |    |    |    |  |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |  |    |    |  |  |  |  | <input type="button" value="CANCEL"/> <input type="button" value="BACKUP"/> |                     |  |  |
| TIME  | CHANNEL   | BACKUP TYPE   | DEVICE   | STATUS  |             |        |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |  |   |    |    |    |    |    |    |  |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |  |    |    |  |  |  |  |   |                     |  |  |
|   |   |   |  |         |             |        |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |  |   |    |    |    |    |    |    |  |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |  |    |    |  |  |  |  |   |                     |  |  |
|   |   |   |  |         |             |        |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |  |   |    |    |    |    |    |    |  |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |  |    |    |  |  |  |  |   |                     |  |  |
|   |   |   |  |         |             |        |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |  |   |    |    |    |    |    |    |  |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |  |    |    |  |  |  |  |   |                     |  |  |
|   |   |   |  |         |             |        |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |  |   |    |    |    |    |    |    |  |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |  |    |    |  |  |  |  |   |                     |  |  |
|   |   |   |  |         |             |        |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |  |   |    |    |    |    |    |    |  |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |  |    |    |  |  |  |  |   |                     |  |  |
|   |   |   |  |         |             |        |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |  |   |    |    |    |    |    |    |  |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |  |    |    |  |  |  |  |   |                     |  |  |
|   |   |   |  |         |             |        |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |  |   |    |    |    |    |    |    |  |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |  |    |    |  |  |  |  |   |                     |  |  |
|   |   |   |  |         |             |        |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |  |   |    |    |    |    |    |    |  |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |  |    |    |  |  |  |  |   |                     |  |  |
|   |   |   |  |         |             |        |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |  |   |    |    |    |    |    |    |  |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |  |    |    |  |  |  |  |   |                     |  |  |
|   |   |   |  |         |             |        |   |  |   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |  |   |    |    |    |    |    |    |  |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |  |    |    |  |  |  |  |   |                     |  |  |

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**, check the channel(s) you want.

Step3: The video footage can only be saved to a USB device. Specify the where to save in the USB device in **STORAGE**.

Step4: 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.

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 profiles and use one of them as your backup preference.

| BACKUP  |   |   |   |                              |                              |                              |                              |                              |                              |                               |                               |                               |                               |                               |                               |                               |                                      |
|---|---|---|---|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------------|
| <p><b>SOURCE</b></p> <p>PROFILE: SCHEDULE1 <input type="button" value="v"/></p> <p>ACTIVE: ON</p> <p>RESOLUTION: RECORD STREAM <input type="button" value="v"/></p> <p>EXECUTION PERIOD: DAILY <input type="button" value="v"/></p> <p>EXECUTION TIME: MON 01</p> <p>RANGE: MON 08 : 00 ~ FRI 19 : 00</p>   | <p><b>DESTINATION</b></p> <p>TARGET: FTP <input type="button" value="v"/></p> <p><b>STORAGE</b></p> <p>FTP PROFILE: Profile1 <input type="button" value="v"/></p> <p>FTP PATH: /VIDEO</p> |   |   |                              |                              |                              |                              |                              |                              |                               |                               |                               |                               |                               |                               |                               |                                      |
| →   |   |   |   |                              |                              |                              |                              |                              |                              |                               |                               |                               |                               |                               |                               |                               |                                      |
| <p><b>CHANNEL</b> <input type="checkbox"/> ALL</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td>CH1 <input checked="" type="checkbox"/></td> <td>CH2 <input type="checkbox"/></td> <td>CH3 <input checked="" type="checkbox"/></td> <td>CH4 <input type="checkbox"/></td> </tr> <tr> <td>CH5 <input type="checkbox"/></td> <td>CH6 <input type="checkbox"/></td> <td>CH7 <input type="checkbox"/></td> <td>CH8 <input type="checkbox"/></td> </tr> <tr> <td>CH9 <input type="checkbox"/></td> <td>CH10 <input type="checkbox"/></td> <td>CH11 <input type="checkbox"/></td> <td>CH12 <input type="checkbox"/></td> </tr> <tr> <td>CH13 <input type="checkbox"/></td> <td>CH14 <input type="checkbox"/></td> <td>CH15 <input type="checkbox"/></td> <td>CH16 <input type="checkbox"/></td> </tr> </table> | CH1 <input checked="" type="checkbox"/>   | CH2 <input type="checkbox"/>            | CH3 <input checked="" type="checkbox"/> | CH4 <input type="checkbox"/> | CH5 <input type="checkbox"/> | CH6 <input type="checkbox"/> | CH7 <input type="checkbox"/> | CH8 <input type="checkbox"/> | CH9 <input type="checkbox"/> | CH10 <input type="checkbox"/> | CH11 <input type="checkbox"/> | CH12 <input type="checkbox"/> | CH13 <input type="checkbox"/> | CH14 <input type="checkbox"/> | CH15 <input type="checkbox"/> | CH16 <input type="checkbox"/> | <input type="button" value="APPLY"/> |
| CH1 <input checked="" type="checkbox"/>   | CH2 <input type="checkbox"/>  | CH3 <input checked="" type="checkbox"/> | CH4 <input type="checkbox"/>            |                              |                              |                              |                              |                              |                              |                               |                               |                               |                               |                               |                               |                               |                                      |
| CH5 <input type="checkbox"/>  | CH6 <input type="checkbox"/>  | CH7 <input type="checkbox"/>            | CH8 <input type="checkbox"/>            |                              |                              |                              |                              |                              |                              |                               |                               |                               |                               |                               |                               |                               |                                      |
| CH9 <input type="checkbox"/>  | CH10 <input type="checkbox"/>   | CH11 <input type="checkbox"/>           | CH12 <input type="checkbox"/>           |                              |                              |                              |                              |                              |                              |                               |                               |                               |                               |                               |                               |                               |                                      |
| CH13 <input type="checkbox"/>   | CH14 <input type="checkbox"/>   | CH15 <input type="checkbox"/>           | CH16 <input type="checkbox"/>           |                              |                              |                              |                              |                              |                              |                               |                               |                               |                               |                               |                               |                               |                                      |

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**, check 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.



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

| BACKUP  |  |  |  |   |   |   |   |   |   |  |  |  |  |  |  |  |   |      |                |   |                        |   |  |
|---|--|--|--|---|---|---|---|---|---|--|--|--|--|--|--|--|---|------|----------------|---|------------------------|---|--|
| <p><b>SOURCE</b></p> <p>PROFILE: PROFILE1 <input type="button" value="v"/></p> <p>ACTIVE: ON</p> <p>EXECUTION PERIOD: WEEKLY <input type="button" value="v"/></p> <p>EXECUTION DAY OF WEEK: MON <input type="button" value="v"/></p> <p>EXECUTION HOUR: 1 <input type="button" value="v"/></p> <p><b>CHANNEL</b> <input checked="" type="checkbox"/> ALL</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td>CH1 <input checked="" type="checkbox"/></td> <td>CH2 <input checked="" type="checkbox"/></td> <td>CH3 <input checked="" type="checkbox"/></td> <td>CH4 <input checked="" type="checkbox"/></td> </tr> <tr> <td>CH5 <input checked="" type="checkbox"/></td> <td>CH6 <input checked="" type="checkbox"/></td> <td>CH7 <input checked="" type="checkbox"/></td> <td>CH8 <input checked="" type="checkbox"/></td> </tr> <tr> <td>CH9 <input checked="" type="checkbox"/></td> <td>CH10 <input checked="" type="checkbox"/></td> <td>CH11 <input checked="" type="checkbox"/></td> <td>CH12 <input checked="" type="checkbox"/></td> </tr> <tr> <td>CH13 <input checked="" type="checkbox"/></td> <td>CH14 <input checked="" type="checkbox"/></td> <td>CH15 <input checked="" type="checkbox"/></td> <td>CH16 <input checked="" type="checkbox"/></td> </tr> </table> | CH1 <input checked="" type="checkbox"/>  | CH2 <input checked="" type="checkbox"/>  | CH3 <input checked="" type="checkbox"/>  | CH4 <input checked="" type="checkbox"/> | CH5 <input checked="" type="checkbox"/> | CH6 <input checked="" type="checkbox"/> | CH7 <input checked="" type="checkbox"/> | CH8 <input checked="" type="checkbox"/> | CH9 <input checked="" type="checkbox"/> | CH10 <input checked="" type="checkbox"/> | CH11 <input checked="" type="checkbox"/> | CH12 <input checked="" type="checkbox"/> | CH13 <input checked="" type="checkbox"/> | CH14 <input checked="" type="checkbox"/> | CH15 <input checked="" type="checkbox"/> | CH16 <input checked="" type="checkbox"/> | <p><b>DESTINATION</b></p> <p>EVENT TYPE: 4 SELECTED <input type="button" value="v"/></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">EDIT</th> <th>E-MAIL ADDRESS</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"> <input type="button" value="✎"/> <input type="button" value="🗑"/> </td> <td>tech_support@gmail.com</td> </tr> <tr> <td style="text-align: center;"> <input type="button" value="+"/> <input type="button" value="📧"/> </td> <td></td> </tr> </tbody> </table> | EDIT | E-MAIL ADDRESS | <input type="button" value="✎"/> <input type="button" value="🗑"/> | tech_support@gmail.com | <input type="button" value="+"/> <input type="button" value="📧"/> |  |
| CH1 <input checked="" type="checkbox"/>   | CH2 <input checked="" type="checkbox"/>  | CH3 <input checked="" type="checkbox"/>  | CH4 <input checked="" type="checkbox"/>  |   |   |   |   |   |   |  |  |  |  |  |  |  |   |      |                |   |                        |   |  |
| CH5 <input checked="" type="checkbox"/>   | CH6 <input checked="" type="checkbox"/>  | CH7 <input checked="" type="checkbox"/>  | CH8 <input checked="" type="checkbox"/>  |   |   |   |   |   |   |  |  |  |  |  |  |  |   |      |                |   |                        |   |  |
| CH9 <input checked="" type="checkbox"/>   | CH10 <input checked="" type="checkbox"/> | CH11 <input checked="" type="checkbox"/> | CH12 <input checked="" type="checkbox"/> |   |   |   |   |   |   |  |  |  |  |  |  |  |   |      |                |   |                        |   |  |
| CH13 <input checked="" type="checkbox"/>  | CH14 <input checked="" type="checkbox"/> | CH15 <input checked="" type="checkbox"/> | CH16 <input checked="" type="checkbox"/> |   |   |   |   |   |   |  |  |  |  |  |  |  |   |      |                |   |                        |   |  |
| EDIT  | E-MAIL ADDRESS                           |  |  |   |   |   |   |   |   |  |  |  |  |  |  |  |   |      |                |   |                        |   |  |
| <input type="button" value="✎"/> <input type="button" value="🗑"/>   | tech_support@gmail.com                   |  |  |   |   |   |   |   |   |  |  |  |  |  |  |  |   |      |                |   |                        |   |  |
| <input type="button" value="+"/> <input type="button" value="📧"/>   |  |  |  |   |   |   |   |   |   |  |  |  |  |  |  |  |   |      |                |   |                        |   |  |
| <input type="button" value="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**).

|   |  |
|---|--|
| <b>EXECUTION PERIOD</b>                               | Select how often you want to receive reports: <b>MONTHLY</b> , <b>WEEKLY</b> or <b>DAILY</b> .   |
| <b>EXECUTION DAY OF MONTH / EXECUTION DAY OF WEEK</b> | Depending on the option you selected in <b>EXECUTION PERIOD</b> : <ul style="list-style-type: none"> <li>■ <b>EXECUTION DAY OF MONTH</b> shows when <b>MONTHLY</b> is selected. Select one date from 1 ~ 31.</li> <li>■ <b>EXECUTION DAY OF WEEK</b> shows when <b>WEEKLY</b> is selected. Select one day from Monday ~ Sunday.</li> </ul> |

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




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

Step4: Click  to manually add an Email address to receive reports or  to select from the E-mail address list pre-defined in **NETWORK → E-MAIL**,  to modify the selected Email address, and  to remove the selected Email address from the recipients list.

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.

| STORAGE   |      |        |        |       |       |                 |           |                     |               |
|---|------|--------|--------|-------|-------|-----------------|-----------|---------------------|---------------|
| HDD NEARLY FULL (GB)  |      |        |        |       |       |                 | 5         | ▼                   |               |
| HDD OVERHEAT ALERT (°C)   |      |        |        |       |       |                 | 70        | ▼                   |               |
| OVERWRITE   |      |        |        |       |       |                 | ON        |                     |               |
| KEEP DATA LIMIT(DAYS)   |      |        |        |       |       |                 | OFF       | ▼                   |               |
| TEMPERATURE TO ENABLE FAN (°C)  |      |        |        |       |       |                 | 30        | ▼                   |               |
| REMINDER WHEN FORMATTING HDD  |      |        |        |       |       |                 | OFF       |                     |               |
|   | ID   | TYPE   | STATUS | SIZE  | TEMP. | SERIAL NUMBER   | FREE SIZE | FORMAT TIME         | HEALTH STATUS |
|    | HDD2 | NORMAL | READY  | 750GB | 33°C  | WD-WCAV53797317 | 269.856GB | 2017/07/18 23:03:52 | GOOD          |
|   |      |        |        |       |       |                 |           |                     |               |
|   |      |        |        |       |       |                 |           |                     |               |


### 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

By default, 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) 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)  Mount /  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 without clicking  first.

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## 6.7 ACCOUNT

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

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

| USER LIST   |           |            |
|---|-----------|------------|
| EDIT  | USER NAME | GROUP      |
|   | admin     | SUPERVISOR |
|    |           |            |
|   |           |            |
|   |           |            |


■ How to create an account

Select , enter a user name and its password, and assign a user group in which includes the access rights you wish to grant 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 42.




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


| ADD   |  |
|---|--|
| USER NAME   | TEST1  |
| PASSWORD  | ●●●●●●●●   |
| CONFIRM PASSWORD  | ●●●●●●●●   |
| GROUP   | POWER USER  |
| <input type="button" value="SAVE"/> <input type="button" value="CANCEL"/> |  |

This menu 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 42.

**Note:** The functions available depend on the recorder you have.

| BACKUP        |       |   |       |   |
|---------------|-------|---|-------|---|
| MANAGER       | ▼     |    |       |   |
| GENERAL       | LOCAL | NETWORK   |       |   |
| BACKUP        |       |   | ALL   | ▼ |
| PTZ CONTROL   |       |   | OFF   |   |
| POWER CONTROL |       |   | ON    |   |
| REVIEW LOG    |       |   | ON    |   |
| CONFIG SETUP  |       |   | OFF   |   |
| CLEAR LOG     |       |   | OFF   |   |
| ACCOUNT SETUP |       |   | OFF   |   |
| CLEAR HDD     |       |   | OFF   |   |
| PUSH VIDEO    |       |   | ON    |   |
| PUSH STATUS   |       |   | ON    |   |
| ALARM OUT     |       |   | ON    |   |
|               |       |   | APPLY |   |

| Icon  | Meaning | Description   |
|---|---------|---|
|  | Delete  | Choose a customized user group and delete it. The default user groups ( <b>SUPERVISOR</b> , <b>POWER USER</b> , <b>USER</b> and <b>GUEST</b> ) can't be removed.  |
|  | Add     | Click to enter a group name, and select the tabs of <b>GENERAL</b> , <b>LOCAL</b> and <b>NETWORK</b> to choose the corresponding functions you want to enable or disable. Then, click <b>APPLY</b> 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  choose a customized group to import the configurations. Then, you can quickly modify the configurations and click <b>APPLY</b> to confirm. |

## 6.8 NETWORK

There are two RJ45 ports on the rear panel: **WAN** and **LAN**.




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

**Note:** For more details about these three functions and network configurations, please get the network setup manual from [www.surveillance-download.com/user/network\\_setup/network\\_setup\\_recorder.pdf](http://www.surveillance-download.com/user/network_setup/network_setup_recorder.pdf).

| WAN          | WAN                                    |   |
|--------------|--|---|
| LAN          | NETWORK TYPE                           | STATIC <span style="float: right;">▼</span> |
| DDNS         | IP                                     | 192.168.1.112                               |
| E-MAIL       | GATEWAY                                | 192.168.1.254                               |
| FTP          | NETMASK                                | 255.255.255.0                               |
| MULTICASTING | PRIMARY DNS                            | 168.95.1.1                                  |
| EaZy         | SECONDARY DNS                          | 139.175.55.244                              |
|              | PORT                                   | 88  |
|              | CHECK INTERNET AVAILABILITY BY ADDRESS | www.google.com                              |
|              | MAC 00:0E:53:00:13:77                  |   |

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  | ●●●●●●                   |
| <b>EDIT</b>   | <b>E-MAIL ADDRESS</b>    |
|   | manager_1@fulltech.com   |
|    |                          |
|   |                          |

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 NAME |       |       |       |       |       | office         |
| PASSWORD  |       |       |       |       |       | ●●●●●●●●       |
|           |       |       |       |       |       | APPLY          |

In this menu, users could configure the multicast address and port used for each channel for data streaming.

Three streams for different usage could be configured per channel. These are used for different video data requests from different clients.

| MULTICASTING                                  |                                  |                           |                               |                                  |                           |                               |                                  |                           |                               |
|---|----------------------------------|---------------------------|-------------------------------|----------------------------------|---------------------------|-------------------------------|----------------------------------|---------------------------|-------------------------------|
| TIMEOUT (SECS)                                |                                  |                           |                               |                                  |                           |                               |                                  | 50                        | ▼                             |
| LIMIT THE TRANSFERING OF THE RECORDING STREAM |                                  |                           |                               |                                  |                           |                               |                                  | 2                         | ▼                             |
|   | MULTICAST<br>STREAM 1<br>ADDRESS | MULTICAST<br>SREAM 1 PORT | STREAM 1 TIME<br>TO LIVE(TTL) | MULTICAST<br>STREAM 2<br>ADDRESS | MULTICAST<br>SREAM 2 PORT | STREAM 2 TIME<br>TO LIVE(TTL) | MULTICAST<br>STREAM 3<br>ADDRESS | MULTICAST<br>SREAM 3 PORT | STREAM 3 TIME<br>TO LIVE(TTL) |
| CH1   | 239.0.0.1                        | 9000                      | 15                            | 239.0.0.2                        | 9002                      | 15                            | 239.0.0.3                        | 9004                      | 15                            |
| CH2   | 239.0.0.1                        | 9006                      | 15                            | 239.0.0.2                        | 9008                      | 15                            | 239.0.0.3                        | 9010                      | 15                            |
| CH3   | 239.0.0.1                        | 9012                      | 15                            | 239.0.0.2                        | 9014                      | 15                            | 239.0.0.3                        | 9016                      | 15                            |
| CH4   | 239.0.0.1                        | 9018                      | 15                            | 239.0.0.2                        | 9020                      | 15                            | 239.0.0.3                        | 9022                      | 15                            |

1) TIMEOUT (SECS)

Set the timeout in second for transmission attempt in second for this channel, after which the attempt will be down. The options are: **10 / 20 / 30 / 50 / 120 / 240 / 300**.

2) LIMIT THE TRANSFERING OF THE RECORDING STREAM

Set the number of how many record streaming could be transferred at the same time.

3) MULTICAST STREAM ADDRESS

Configure the addresses used for the three streams per channel.

The address range for multicasting is from 224.0.0.0 to 239.255.255.255.

---

**Note:** The address for each stream per channel should be unique and can't be the same as other stream in the same channel or other channel.

---

4) MULTICAST STREAM PORT

Set the event recording function on / off.

Configure the ports used for the three streams per channel.

The port range is from 1 to 65535.

---


**Note:** The port for each stream per channel should be unique and can't be the same as other stream in the same channel or other channel.

---

5) TIME TO LIVE(TTL)

Set the connection time in second for each stream from 1 ~ 999.

This function is used to connect this recorder to Internet by using EaZy Networking. For details, please refer to “APPENDIX 7 EAZY NETWORKING” at page 75.

| <b>EaZy</b>   |  |
|---|--|
| ENABLE EAZY NETWORKING  | ON   |
|  | MAC: 000e53eca7b4                          |
|   | UUID: E736DCBF-D4BB-4CA8-86FD-62658E2ECEC1 |
|   | PORT: 80                                   |
|   | EAZY NETWORKING OFFLINE                    |

## 6.9 TIME

| <b>TIME SETUP</b>             |                   |
|-------------------------------|-------------------|
| 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               |
| SYNC NTP SERVER TIME          | SUBMIT            |

- 1) DATE  
Set the current date. The default display format is YEAR – MONTH – DATE (**Y-M-D**).
- 2) TIME  
Set the current time in HOUR : MIN : SEC.
- 3) FORMAT  
Set the time display format: **Y/M/D**, **M/D/Y** or **D/M/Y**.
- 4) NTP SERVER  
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) GMT  
Select your time zone.
- 7) CLIENT TIME SYNC VIA RECORDER  
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.

---

- 8) SYNC NTP SERVER  
Chose **SUBMIT** to synchronize the recorder's time with the NTP server pre-defined in **NTP SERVER**.

---

**Note:** This function requires internet connection. Please make sure your recorder is connected to the internet.

---

| DAYLIGHT        |      |   |     |   |       |   |       |
|-----------------|------|---|-----|---|-------|---|-------|
| DAYLIGHT SAVING |      |   |     |   | ON    |   |       |
| START TIME      | 1ST  | ▼ | MON | ▼ | AUG   | ▼ | 06:00 |
| END TIME        | LAST | ▼ | MON | ▼ | OCT   | ▼ | 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) ADJUST  
Set the time in HOUR : MIN.

## 6.10 DISPLAY

| DISPLAY  |                 |   |
|--|-----------------|---|
| CHANNEL TITLE                                      | ON              |   |
| EVENT STATUS                                       | ON              |   |
| AUTO KEY LOCK(S)                                   | 30              | ▼ |
| HDD DISPLAY MODE                                   | RE,MAINING SIZE | ▼ |
| DISPLAY OUTPUT                                     | AUTO            | ▼ |
| LANGUAGE   | ENGLISH         | ▼ |
| HDMI2 DISPLAY <i>(For selected models only)</i>    | SETUP           |   |
| SPOT MONITOR <i>(For selected models only)</i>     | SETUP           |   |
| COMPOSITE OUTPUT <i>(For selected models only)</i> | SETUP           |   |
| VGA OTUPUT <i>(For selected models only)</i>       | MAIN MONITOR    | ▼ |
| CALL SCREEN DURATION                               | 10              | ▼ |
| QUAD SCREEN DURATION                               | 10              | ▼ |
| NVR MODE <i>(For selected models only)</i>         | 16              | ▼ |

- 1) CHANNEL TITLE  
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 14.

---

- 3) AUTO KEYLOCK (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) DISPLAY OUTPUT  
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) LANGUAGE

Select the language of the OSD.

7) HDMI2 DISPLAY *(For selected models only)*

Specify how the second HDMI port is used for video output: **CALL MONITOR** / **EVENT MONITOR** / **LIVE**.

- **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.

| HDMI2 DISPLAY        |              |   |
|----------------------|--------------|---|
| FUNCTION             | CALL MONITOR | ▼ |
| CALL SCREEN DURATION | 5            | ▼ |
| 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.

| HDMI2 DISPLAY  |               |   |  |  |  |  |
|--|---------------|---|--|--|--|--|
| FUNCTION   | EVENT MONITOR | ▼ |  |  |  |  |
| LAYOUT   | 4             | ▼ |  |  |  |  |
| PRE-ALARM (SEC)  | 3             | ▼ |  |  |  |  |
| POST-ALARM (SEC)   | 5             | ▼ |  |  |  |  |
| <table border="1" style="width: 100%; height: 100px; border-collapse: collapse;"> <tr> <td style="width: 50%;"></td> <td style="width: 50%;"></td> </tr> <tr> <td style="width: 50%;"></td> <td style="width: 50%;"></td> </tr> </table> |               |   |  |  |  |  |
|  |               |   |  |  |  |  |
|  |               |   |  |  |  |  |

- **LIVE** is used to select how many channels you'd like to show on the spot monitor.

| HDMI2 DISPLAY  |   |   |   |   |   |   |
|--|---|---|---|---|---|---|
| FUNCTION   | LIVE  | ▼ |   |   |   |   |
| LAYOUT   | 4   | ▼ |   |   |   |   |
| <table border="1" style="width: 100%; height: 100px; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;"> <div style="border: 1px solid black; display: inline-block; padding: 2px;">CH1</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">▼</div> </td> <td style="width: 50%; text-align: center;"> <div style="border: 1px solid black; display: inline-block; padding: 2px;">CH3</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">▼</div> </td> </tr> <tr> <td style="text-align: center;"> <div style="border: 1px solid black; display: inline-block; padding: 2px;">CH5</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">▼</div> </td> <td style="text-align: center;"> <div style="border: 1px solid black; display: inline-block; padding: 2px;">CH8</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">▼</div> </td> </tr> </table> |   |   | <div style="border: 1px solid black; display: inline-block; padding: 2px;">CH1</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">▼</div> | <div style="border: 1px solid black; display: inline-block; padding: 2px;">CH3</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">▼</div> | <div style="border: 1px solid black; display: inline-block; padding: 2px;">CH5</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">▼</div> | <div style="border: 1px solid black; display: inline-block; padding: 2px;">CH8</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">▼</div> |
| <div style="border: 1px solid black; display: inline-block; padding: 2px;">CH1</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">▼</div>  | <div style="border: 1px solid black; display: inline-block; padding: 2px;">CH3</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">▼</div> |   |   |   |   |   |
| <div style="border: 1px solid black; display: inline-block; padding: 2px;">CH5</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">▼</div>  | <div style="border: 1px solid black; display: inline-block; padding: 2px;">CH8</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">▼</div> |   |   |   |   |   |

8) SPOT MONITOR (For selected models only)

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

- **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         |              |   |
|----------------------|--------------|---|
| FUNCTION             | CALL MONITOR | ▼ |
| CALL SCREEN DURATION | 5            | ▼ |
| 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.

| SPOT MONITOR  |               |   |  |  |  |  |
|---|---------------|---|--|--|--|--|
| FUNCTION  | EVENT MONITOR | ▼ |  |  |  |  |
| LAYOUT  | 4             | ▼ |  |  |  |  |
| PRE-ALARM (SEC)   | 3             | ▼ |  |  |  |  |
| POST-ALARM (SEC)  | 5             | ▼ |  |  |  |  |
| <table border="1" style="width: 100%; height: 100px;"> <tr> <td style="width: 50%;"></td> <td style="width: 50%;"></td> </tr> <tr> <td style="width: 50%;"></td> <td style="width: 50%;"></td> </tr> </table> |               |   |  |  |  |  |
|   |               |   |  |  |  |  |
|   |               |   |  |  |  |  |

- **LIVE** is used to select how many channels you'd like to show on the spot monitor.

| SPOT MONITOR  |       |   |       |       |       |       |
|---|-------|---|-------|-------|-------|-------|
| FUNCTION  | LIVE  | ▼ |       |       |       |       |
| PROFILE   | 1     | ▼ |       |       |       |       |
| LAYOUT  | 4     | ▼ |       |       |       |       |
| <table border="1" style="width: 100%; height: 100px;"> <tr> <td style="width: 50%; text-align: center;">CH1 ▼</td> <td style="width: 50%; text-align: center;">CH3 ▼</td> </tr> <tr> <td style="width: 50%; text-align: center;">CH5 ▼</td> <td style="width: 50%; text-align: center;">CH8 ▼</td> </tr> </table> |       |   | CH1 ▼ | CH3 ▼ | CH5 ▼ | CH8 ▼ |
| CH1 ▼   | CH3 ▼ |   |       |       |       |       |
| CH5 ▼   | CH8 ▼ |   |       |       |       |       |

9) COMPOSITE OUTPUT (For selected models only)

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

- **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.

| COMPOSITE OUTPUT     |              |   |
|----------------------|--------------|---|
| FORMAT               | NTSC         | ▼ |
| FUNCTION             | CALL MONITOR | ▼ |
| CALL SCREEN DURATION | 5            | ▼ |
| 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.

| COMPOSITE OUTPUT  |               |   |  |  |  |  |
|---|---------------|---|--|--|--|--|
| FORMAT  | NTSC          | ▼ |  |  |  |  |
| FUNCTION  | EVENT MONITOR | ▼ |  |  |  |  |
| LAYOUT  | 4             | ▼ |  |  |  |  |
| PRE-ALARM (SEC)   | 3             | ▼ |  |  |  |  |
| POST-ALARM (SEC)  | 5             | ▼ |  |  |  |  |
| <table border="1" style="width: 100%; height: 100px;"> <tr> <td style="width: 50%;"></td> <td style="width: 50%;"></td> </tr> <tr> <td style="width: 50%;"></td> <td style="width: 50%;"></td> </tr> </table> |               |   |  |  |  |  |
|   |               |   |  |  |  |  |
|   |               |   |  |  |  |  |


- LIVE** is used to select how many channels you'd like to show on the spot monitor.

| HDMI2 DISPLAY   |                                    |   |                                    |                                    |                                    |                                    |
|---|------------------------------------|---|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| FORMAT  | NTSC                               | ▼ |                                    |                                    |                                    |                                    |
| FUNCTION  | LIVE                               | ▼ |                                    |                                    |                                    |                                    |
| PROFILE   | 1                                  | ▼ |                                    |                                    |                                    |                                    |
| LAYOUT  | 4                                  | ▼ |                                    |                                    |                                    |                                    |
| <table border="1" style="width: 100%; height: 100px;"> <tr> <td style="width: 50%; text-align: center;"> <input type="text" value="CH1"/> ▼         </td> <td style="width: 50%; text-align: center;"> <input type="text" value="CH3"/> ▼         </td> </tr> <tr> <td style="width: 50%; text-align: center;"> <input type="text" value="CH5"/> ▼         </td> <td style="width: 50%; text-align: center;"> <input type="text" value="CH8"/> ▼         </td> </tr> </table> |                                    |   | <input type="text" value="CH1"/> ▼ | <input type="text" value="CH3"/> ▼ | <input type="text" value="CH5"/> ▼ | <input type="text" value="CH8"/> ▼ |
| <input type="text" value="CH1"/> ▼  | <input type="text" value="CH3"/> ▼ |   |                                    |                                    |                                    |                                    |
| <input type="text" value="CH5"/> ▼  | <input type="text" value="CH8"/> ▼ |   |                                    |                                    |                                    |                                    |


10) VGA OUTPUT *(For selected models only)*

Choose **MAIN MONITOR** or **SPOT MONITOR** for how the VGA port is used for video output. When **SPOT MONITOR** is chosen, go to **SPOT MONITOR** to choose how you'd like the monitor to display the video.

11) 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. 

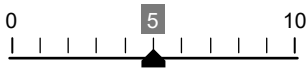
12) QUAD SCREEN DURATION

Select the duration time in second (**03 / 05 / 10 / 15**) when the channel display mode is 4-cut and (Sequence) is selected. 

13) NVR MODE *(For selected models only)*

The recorder can be used as a 9CH or 16CH recorder. When it's used as a 9CH recorder, the live display supports 4K2K resolution; when it's used as a 16CH recorder, the live display supports only 1080P resolution even when a 5MP camera is connected.

## 6.11 PERIPHERAL

| LOCAL             |  |
|-------------------|--|
| MOUSE SENSITIVITY |  |
| REMOTE CONTROL ID | 0  |

1) MOUSE SENSITIVITY

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


2) 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.

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  from the PTZ control panel and move on the screen), or simply connect the compatible joystick, AVX102, to the recorder.

---

| JOYSTICK              |  |
|-----------------------|--|
| MAX SPEED OF X AXIS   |  |
| MAX SPEED OF Y AXIS   |  |
| CURVE ORDER OF X AXIS | 1  |
| CURVE ORDER OF Y AXIS | 1  |

---

**Note:** This function is available for the models which support alarm-in connection to the recorder itself. Please check the specifications of your recorder to know if your recorder supports this function.

---

This function is used when the external alarm-in device is connected directly to the recorder. You can configure how the alarm device should work by choosing **N.O.** or **N.C.**

| LOCAL ALARM IN |          |   |
|----------------|----------|---|
| CHANNEL TITLE  | ALARM IN |   |
| CH1            | N.C.     | ✓ |
| CH2            | N.O.     | ✓ |
| CH3            | OFF      | ✓ |
| CH4            | OFF      | ✓ |

**Note:** This function is available for the models which support alarm-out connection to the recorder itself. Please check the specifications of your recorder to know if your recorder supports this function. To know how to configure the alarm-out device connected to an IP camera, please refer to "6.1.5 ALARM OUT" at page 28.

This function is used when the external alarm-out device is connected directly to the recorder. 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 (⏏) 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  |                       |   |                           |       |
|------------|-----------------------|---|---------------------------|-------|
| NAME       | RESTORE AUTOMATICALLY |   | ALARM OUT DURATION (SECS) |       |
| Alarm Out1 | DISABLE               | ▼ | 1                         | ▼     |
| Alarm Out2 | ENABLE                | ▼ | 5                         | ▼     |
|            |                       |   |                           | APPLY |

**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) ID

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) DEVICE

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.

This function is available only when a rolling door remote controller is used to connect this recorder and an overhead door. When this function is configured correctly, you'll be able to control an overhead door up and down via this recorder or our app.


**Note:** To know how to connect a rolling door remote controller to this recorder and an overhead door, please check its user manual or check with your distributor.

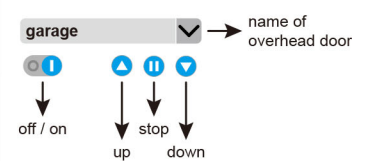
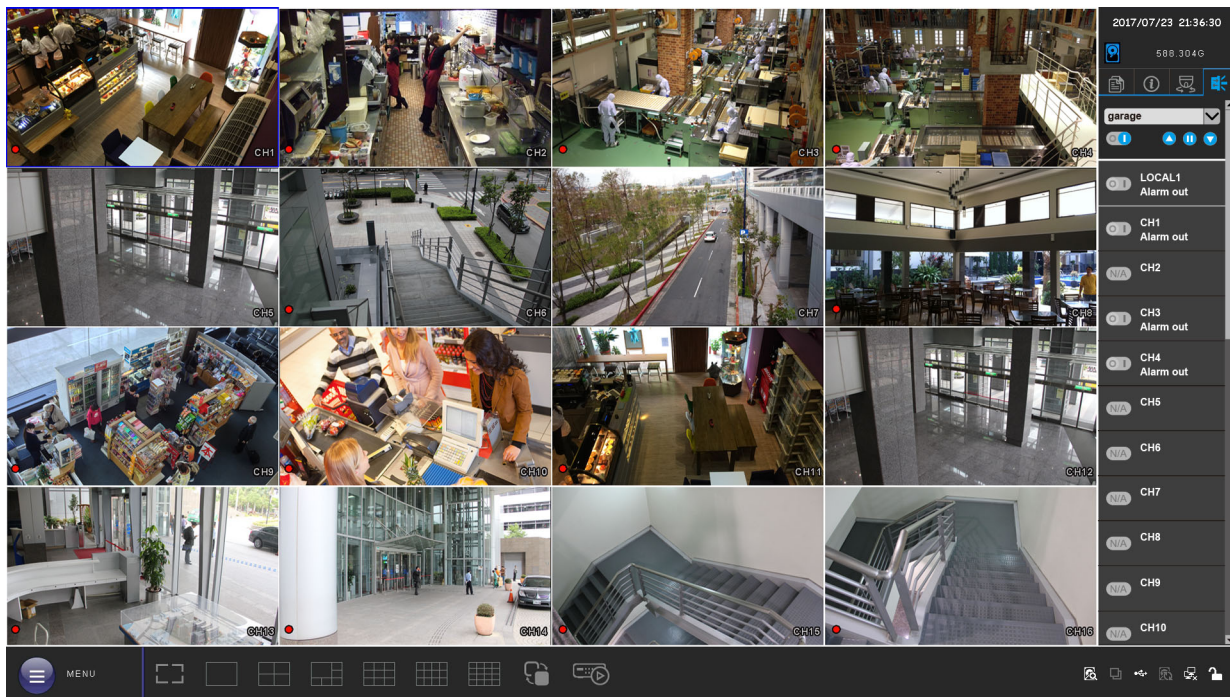
| OVERHEAD DOOR  |        |        |    |           |         |
|--|--------|--------|----|-----------|---------|
| EDIT   | NAME   | VENDOR | ID | BAUD RATE | CHANNEL |
|  <br> | garage | UOI    | 1  | 4800      | CH1     |

Click on  to add the connected rolling door remote controller, and make sure the **ID** and **BAUD RATE** are the same as the controller is configured.

|           |        |   |
|-----------|--------|---|
| NAME      | home   |   |
| VENDOR    | UOI    | ▼ |
| ID        | 2      |   |
| BAUD RATE | 2400   | ▼ |
| CHANNEL   | CH3    | ▼ |
| SAVE      | CANCEL |   |

Click on **SAVE** to save the settings and return to the live view.

In the live view, click on  on the right panel to reveal the control bar of the overhead door and try if you can control the door properly.



## 6.12 MAINTAIN

| SYSTEM                     |        |
|----------------------------|--------|
| BACKUP CONFIG              | SUBMIT |
| RESTORE CONFIG             | SUBMIT |
| RESET DEFAULT              | SUBMIT |
| DEVICE TITLE               | nvr_1  |
| ENABLE AUTO PLUG AND PLAY  | ON     |
| BIND MAC ADDRESS           | OFF    |
| RESET ALL GUARD CONNECTION | SUBMIT |

### 1) BACKUP CONFIG / RESTORE CONFIG

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

To restore the 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) DEVICE TITLE

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) RESET ALL GUARD CONNECTION *(For selected models only)*

When there’re more than 2 users who have the authority to enable Push Video on their mobile devices and configure its related settings, it might be confusing to know whose command is working. In this case, use this function could force the camera to discard all Push Video setup and reconfigure it.

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

**Note:** During the upgrade process, make sure the power **STAYS CONNECTED** or the upgrade may be failed and cause system damages to the device where the upgrade process has been started.

LOCAL

**LOCAL** is where you can check if there's new firmware version for this recorder and choose to upgrade online (**ONLINE UPGRADE**) or via a USB flash drive (**MANUAL UPGRADE**).

**Note:** To upgrade online, make sure this recorder is connected to the internet first.

| UPGRADE         |                                     |
|-----------------|-------------------------------------|
| LOCAL           | CAMERA                              |
| CURRENT VERSION | 1002-1001-1001-1000                 |
| ONLINE VERSION  | REFRESH                             |
| RELEASE NOTE    | YOUR FIRMWARE IS THE LATEST VERSION |
| ONLINE UPGRADE  | SUBMIT                              |
| CUSTOMIZATION   | SUBMIT                              |
| VERSION         | SUBMIT                              |

To upgrade the recorder directly online, click on **SUBMIT** in **ONLINE UPGRADE**.

To upgrade via a USB flash drive, 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** in **MANUAL UPGRADE** 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 71.


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                  |  |         | STATUS  |
| CH1     | 1085-1032-1046-1020-A1A1 | /mnt/usb/FullImg-1086-1033-1046-1020.bin | + © □   |         |
| CH2     | 1020S-1007S-1011S-1009S  |  | + © □   |         |
| CH3     |                          |  | + © □   |         |
| CH4     |                          |  | + © □   |         |
|         |                          | REFRESH                                  | UPGRADE | COPY TO |
|         |                          |  |         | ▼       |

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  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                            | ▼                   |  |
|---|--------|---------------------------------------|---------------------|---|
| NAME  | SIZE   | TYPE                                  | MODIFIED DATE       |   |
| FullImg-1086-1033-1046-1020.bin   | 27.6MB | regular file                          | 2017-07-13 12:19:32 |   |
| FullImg-1022-1007-1011-1009.bin   | 9.6MB  | regular file                          | 2017-08-16 17:05:16 |   |
|   |        | <input type="button" value="CANCEL"/> |                     | <input type="button" value="SELECT"/>   |

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.

| 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 | ▼   |

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) KEY BUZZER

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

4) VLOSS BUZZER

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) ALARM BUZZER DURATION (SEC)

Select the duration time for alarm buzzer in second (**5 / 10 / 20 / 40**).

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

| EVENT LOG  |                      |         |
|------------|----------------------|---------|
| EVENT      | TIME                 | COMMENT |
| KEY UNLOCK | 2011/NOV/19 15:49:07 |         |
| VIDEO LOSS | 2011/NOV/19 15:32:05 | 04      |
| POWER ON   | 2011/NOV/19 15:32:02 |         |
|            |                      | PREV    |
|            |                      | NEXT    |
|            |                      | CLEAN   |

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

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 ~ 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**).

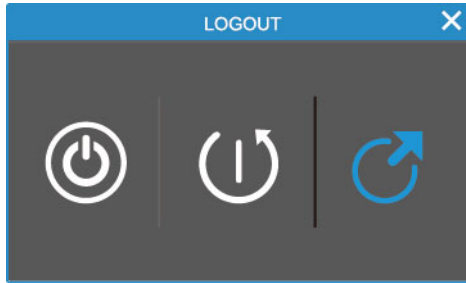
This function is used to schedule this device to reboot regularly to free some unused cache data and ensure the system stays stable and reliable.




| AUTO REBOOT |         |         |
|-------------|---------|---------|
| ENABLE      | ON      |         |
| PERIOD      | WEEKLY  |         |
| DAILY       | 01 : 00 |         |
| WEEKLY      | MON     | 06 : 00 |
| MONTHLY     | 1       | 01 : 00 |

Enable this function (**ON**) and choose the frequency (**DAILY / WEEKLY / MONTHLY**) to reboot this recorder.

## 6.13 POWER CONTROL

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



| Icon  | Meaning       | Description  |
|---|---------------|--|
|  | System Halt   | Click to stop the system and remove the power adapter.       |
|  | System Reboot | Click to reboot the system.                                  |
|  | 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.

## 6.1 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.

**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.

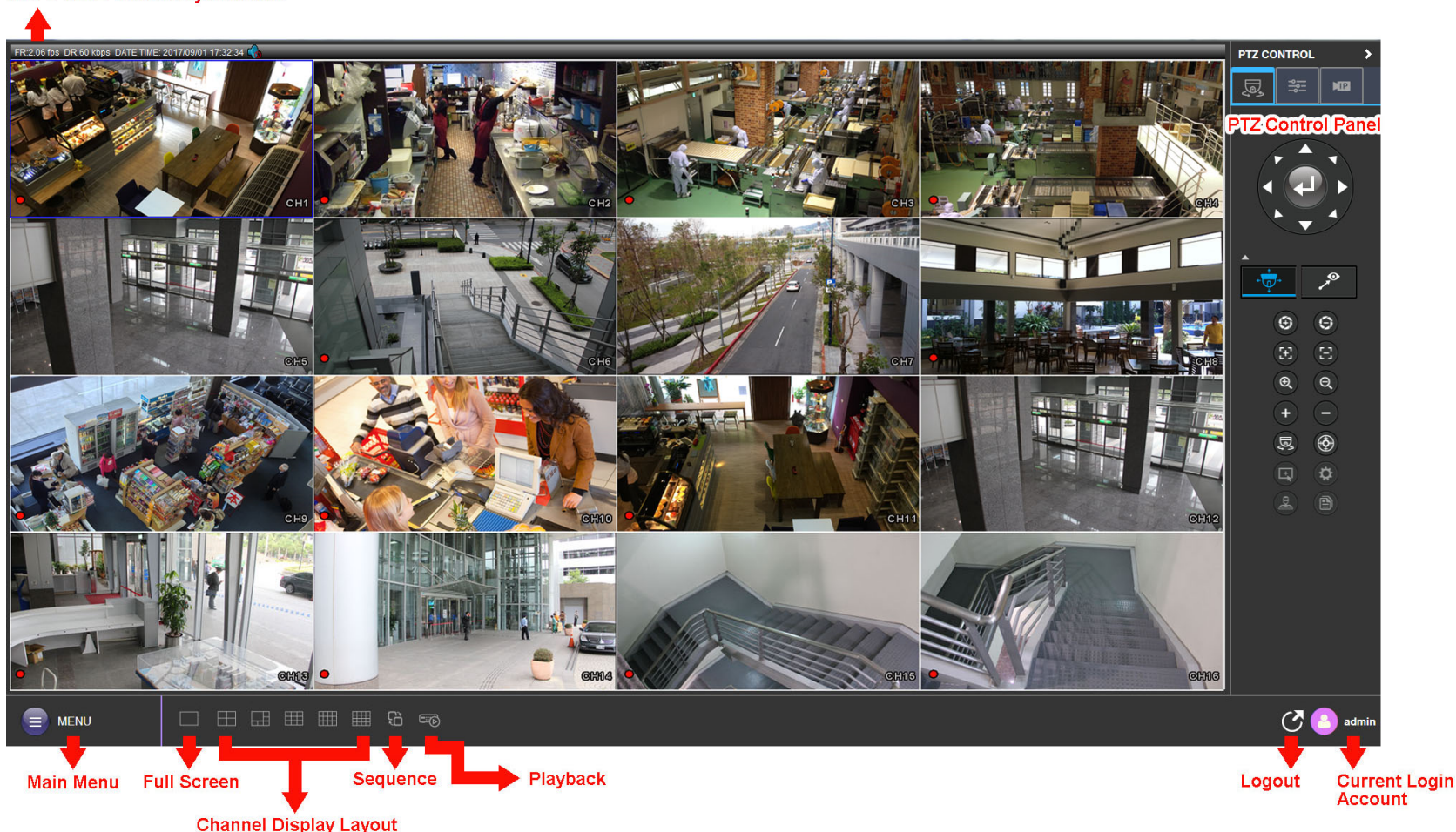
If the port number this device used is NOT 80, you need to key in the port number additionally. The format is *ipaddress:portnum*.

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".

Current Streaming Information:  
 FR: Frame rate  
 DR: Data rate  
 DATE TIME: Current system time



## 6.2 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).

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

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

**Note:** You might be charged for Internet access via 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.

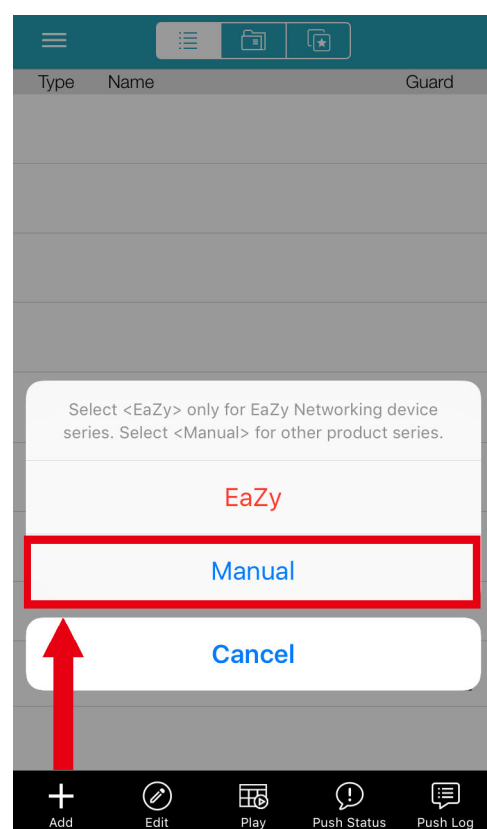
Go to **App Store / Play Store** from your iOS / Android mobile devices and search *EagleEyes* to download.

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.

Step1: Open *EagleEyes* to go to the address book.

Step2: Then, click **Add** and select **Manual** to go to the setting page and manually add your device to *EagleEyes*.

**Note:** If you want to use EaZy Networking to connect your recorder to the internet, please refer to "APPENDIX 7 EAZY NETWORKING" at page 75.





# APPENDIX 1 PRODUCT SPECIFICATIONS

## ➤ With PoE

|                              |                     | Model 1   | Model 2                             |
|------------------------------|---------------------|---|-------------------------------------|
| <b>Hardware</b>              |                     |   |                                     |
| Video Input                  |                     | LAN port with PoE x 16  | LAN port with PoE x 8               |
| Video Output                 | HDMI                | YES (4K2K)  | YES (4K2K)                          |
|                              | VGA**               | YES (720P / Spot Monitor Supported)   | YES (720P / Spot Monitor Supported) |
|                              | Composite           | YES (Spot Monitor Supported)  | YES (Spot Monitor Supported)        |
| Video Output Resolution      |                     | Up to 4K2K (3840 x 2160)  |                                     |
| Audio Output                 |                     | YES   |                                     |
| Audio Input                  |                     | YES (Mic in)  |                                     |
| Alarm I/O                    |                     | 4 in / 1 out  |                                     |
| HDD Storage**                |                     | Either two 16TB SATA HDD installed in the recorder, or one 16TB SATA HDD installed and a disk array connected to the recorder via the eSATA interface |                                     |
| eSATA Port                   |                     | Expandable with a SATA to eSATA cable   |                                     |
| RS485 Port                   |                     | YES   |                                     |
| USB Ports                    |                     | USB 2.0 x 2   |                                     |
| Ethernet                     | LAN port            | 10/100 Mbps with PoE (IEEE802.3af)  |                                     |
|                              | Internet (WAN) port | 1000Mbps  |                                     |
| Fan                          |                     | YES   |                                     |
| <b>Software</b>              |                     |   |                                     |
| Video Compression Format     |                     | H.265   |                                     |
| Audio Compression Format     |                     | G.711   |                                     |
| Local / Remote Display Mode  |                     | 16CH  | 8CH                                 |
| Local / Remote Playback Mode |                     | 16CH  | 8CH                                 |
| Single Channel Playback      |                     | YES   |                                     |
| Record Stream                |                     | Dual  |                                     |
| Recording Mode               |                     | Manual / Event / Alarm / Schedule   |                                     |
| Recording Resolution         |                     | 480 IPS @ 4K2K (3840 x 2160)  | 240 IPS @ 4K2K (3840 x 2160)        |
| Recording Throughput         |                     | Up to 160Mbps   | Up to 80Mbps                        |
| Pre-alarm Recording          |                     | YES   |                                     |
| Quick Search                 |                     | Time / Event  |                                     |
| Event Notification           |                     | Push Video / Push Status / Video Mail / Message Mail  |                                     |
| Security                     |                     | Multiple user access levels with password   |                                     |
| Multicast                    |                     | YES   |                                     |
| Seamless Recording***        |                     | YES   |                                     |
| EaZy Networking              |                     | YES   |                                     |
| IVS***                       |                     | YES   |                                     |
| Spot Monitor Setup           |                     | Call Monitor / Event Monitor / Live Monitor (VGA & Composite)   |                                     |

|                                  |             | Model 1   | Model 2                 |
|----------------------------------|-------------|---|-------------------------|
| <b>Software</b>                  |             |   |                         |
| Alarm Scenario Setup             |             | YES   |                         |
| Alarm Pop-up & Preview           |             | YES   |                         |
| Free DDNS Service                |             | YES   |                         |
| <b>Network</b>                   |             |   |                         |
| Protocols                        |             | DDNS, PPPoE, DHCP, NTP, SNTP, TCP/IP, ICMP, SMTP, FTP, HTTP, RTP, RTSP, RTCP, IPv4, UPnP, DNS, UDP, IGMP  |                         |
| ONVIF Compatible                 |             | YES   |                         |
| Max. Online User                 |             | 40  |                         |
| Remote Access                    | Web Browser | Windows Edge, Google Chrome, Mozilla Firefox & Opera on Windows 10 (and later versions) and Google Chrome & Mozilla Firefox on MAC  |                         |
|                                  | PC program  | 32CH CMS software for Windows OS  |                         |
|                                  | Moble app   | EagleEyes on iOS & Android mobile devices   |                         |
| <b>General</b>                   |             |   |                         |
| <b>General</b>                   |             |   |                         |
| Power Source ( $\pm 10\%$ )      |             | DC54V / 3.2A  |                         |
| PoE Power Output                 |             | IEEE802.3af, 130W total   | IEEE802.3af, 100W total |
| Operating Temperature            |             | 10°C ~ 40°C (50°F ~ 104°F)  |                         |
| Operating Humidity               |             | 10% ~ 85%   |                         |
| Dimensions (mm) <sup>***</sup>   |             | 319.5 x 254.9 x 52  |                         |
| Net Weight (kg)                  |             | 2   |                         |
| Minimum PC Browsing Requirements |             | <ul style="list-style-type: none"> <li>• Intel core i3 or higher, or equivalent AMD</li> <li>• 2GB RAM</li> <li>• AGP graphics card, Direct Draw, 32MB RAM</li> <li>• Windows 10, Windows 8, Windows 7, Windows Vista, DirectX 9.0 or later</li> <li>• Internet Explorer 7.x or later (Windows Edge not supported)</li> </ul> |                         |
| Peripherals                      |             | SATA to eSATA cable (PWSC07F320200)   |                         |
| Certification                    |             | CE / UL (Power Adapter)   |                         |

\* Specifications are subject to change without notice.

\*\* Hard disks are optional

\*\*\* Available only when the connected cameras are supported

\*\*\*\* Dimensional tolerance:  $\pm 5\text{mm}$



## ➤ Without PoE

|                              |                     | Model 3   | Model 4   |
|------------------------------|---------------------|---|---|
| <b>Hardware</b>              |                     |   |   |
| Video Input                  |                     | One LAN port (up to 16 IP cameras)  | One LAN port (up to 9 IP cameras)   |
| Video Output                 | HDMI                | YES (4K2K)  | YES (4K2K)  |
|                              | VGA**               | YES (720P / Spot Monitor Supported)   | YES (720P / Spot Monitor Supported)   |
|                              | Composite           | --  | --  |
| Video Output Resolution      |                     | Up to 4K2K (3840 x 2160)  |   |
| Audio Output                 |                     | YES   |   |
| Audio Input                  |                     | YES (Mic in)  |   |
| Alarm I/O                    |                     | 4 in / 1 out  |   |
| HDD Storage**                |                     | Either two 16TB SATA HDD installed in the recorder, or one 16TB SATA HDD installed and a disk array connected to the recorder via the eSATA interface | Either one 16TB SATA HDD installed in the recorder, or a disk array connected to the recorder via the eSATA interface |
| eSATA Port                   |                     | Expandable with a SATA to eSATA cable   |   |
| RS485 Port                   |                     | --  |   |
| USB Ports                    |                     | USB 2.0 x 2   |   |
| Ethernet                     | LAN port            | 1000Mbps  |   |
|                              | Internet (WAN) port | 10/100 Mbps   |   |
| Fan                          |                     | YES   | --  |
| <b>Software</b>              |                     |   |   |
| Video Compression Format     |                     | H.265   |   |
| Audio Compression Format     |                     | G.711   |   |
| Local / Remote Display Mode  |                     | 16CH  | 9CH   |
| Local / Remote Playback Mode |                     | 16CH  | 9CH   |
| Single Channel Playback      |                     | YES   |   |
| Record Stream                |                     | Dual  |   |
| Recording Mode               |                     | Manual / Event / Alarm / Schedule   |   |
| Recording Resolution         |                     | 480 IPS @ 4K2K (3840 x 2160)  | 270 IPS @ 4K2K (3840 x 2160)  |
| Recording Throughput         |                     | Up to 160Mbps   | Up to 80Mbps  |
| Pre-alarm Recording          |                     | YES   |   |
| Quick Search                 |                     | Time / Event  |   |
| Event Notification           |                     | Push Video / Push Status / Video Mail / Message Mail  |   |
| Security                     |                     | Multiple user access levels with password   |   |
| Multicast                    |                     | YES   |   |
| Seamless Recording***        |                     | YES   |   |
| EaZy Networking              |                     | YES   |   |
| IVS***                       |                     | YES   |   |
| Spot Monitor Setup           |                     | Call Monitor / Event Monitor / Live Monitor (VGA)   |   |

|                                  |             | Model 3   | Model 4          |
|----------------------------------|-------------|---|------------------|
| <b>Software</b>                  |             |   |                  |
| Alarm Scenario Setup             |             | YES   |                  |
| Alarm Pop-up & Preview           |             | YES   |                  |
| Free DDNS Service                |             | YES   |                  |
| <b>Network</b>                   |             |   |                  |
| Protocols                        |             | DDNS, PPPoE, DHCP, NTP, SNTP, TCP/IP, ICMP, SMTP, FTP, HTTP, RTP, RTSP, RTCP, IPv4, UPnP, DNS, UDP, IGMP  |                  |
| ONVIF Compatible                 |             | YES   |                  |
| Max. Online User                 |             | 40  |                  |
| Remote Access                    | Web Browser | Windows Edge, Google Chrome, Mozilla Firefox & Opera on Windows 10 (and later versions) and Google Chrome & Mozilla Firefox on MAC  |                  |
|                                  | PC program  | 32CH CMS software for Windows OS  |                  |
|                                  | Moble app   | EagleEyes on iOS & Android mobile devices   |                  |
| <b>General</b>                   |             |   |                  |
| <b>General</b>                   |             |   |                  |
| Power Source ( $\pm 10\%$ )      |             | DC12V / 3A  | DC12V / 2A       |
| PoE Power Output                 |             | --  |                  |
| Operating Temperature            |             | 10°C ~ 40°C (50°F~104°F)  |                  |
| Operating Humidity               |             | 10% ~ 85%   |                  |
| Dimensions (mm) <sup>***</sup>   |             | 319.5 x 254.9 x 52  | 260 x 235.7 x 48 |
| Net Weight (kg)                  |             | 2   | 0.912            |
| Minimum PC Browsing Requirements |             | <ul style="list-style-type: none"> <li>• Intel core i3 or higher, or equivalent AMD</li> <li>• 2GB RAM</li> <li>• AGP graphics card, Direct Draw, 32MB RAM</li> <li>• Windows 10, Windows 8, Windows 7, Windows Vista, DirectX 9.0 or later</li> <li>• Internet Explorer 7.x or later (Windows Edge not supported)</li> </ul> |                  |
| Peripherals                      |             | SATA to eSATA cable (PWSC07F320200)   |                  |
| Certification                    |             | CE / UL (Power Adapter)   |                  |

\* Specifications are subject to change without notice.

\*\* Hard disks are optional

\*\*\* Available only when the connected cameras are supported

\*\*\*\* Dimensional tolerance:  $\pm 5\text{mm}$

➤ **8-bay Models (w/o PoE)**

|                              |                     | <b>Model 5</b>  | <b>Model 6</b>                        | <b>Model 7</b>                        |
|------------------------------|---------------------|---|---------------------------------------|---------------------------------------|
| <b>Hardware</b>              |                     |   |                                       |                                       |
| Video Input                  |                     | One LAN port<br>(up to 64 IP cameras)   | One LAN port<br>(up to 36 IP cameras) | One LAN port<br>(up to 16 IP cameras) |
| Video Output                 |                     | HDMI x 2 / VGA x 1 / Composite x 1  |                                       |                                       |
| Video Output Resolution      |                     | HDMI-1: Up to 3840 x 2160 (4K2K)<br>HDMI-2 & VGA: Up to 1920 x 1080 (Full HD) |                                       |                                       |
| Audio Output                 |                     | YES (Line out / HDMI)   |                                       |                                       |
| Audio Input                  |                     | YES (Mic in)  |                                       |                                       |
| Alarm I/O                    |                     | 4 in / 1 out  |                                       |                                       |
| HDD Storage**                |                     | Eight 16TB hard disks   |                                       |                                       |
| eSATA Port                   |                     | NO  |                                       |                                       |
| RS485 Port                   |                     | YES   |                                       |                                       |
| USB Ports                    |                     | USB 3.0 x 1 / USB 2.0 x 2   |                                       |                                       |
| Ethernet                     | LAN port            | 1000Mbps  |                                       |                                       |
|                              | Internet (WAN) port | 1000Mbps  |                                       |                                       |
| <b>Software</b>              |                     |   |                                       |                                       |
| Video Compression Format     |                     | H.265   |                                       |                                       |
| Audio Compression Format     |                     | G.711   |                                       |                                       |
| Local / Remote Display Mode  |                     | 36CH  | 16CH                                  |                                       |
| Local / Remote Playback Mode |                     | 36CH  | 16CH                                  |                                       |
| Single Channel Playback      |                     | YES   |                                       |                                       |
| Record Stream                |                     | Dual  |                                       |                                       |
| Recording Mode               |                     | Manual / Event / Alarm / Schedule   |                                       |                                       |
| Recording Resolution         |                     | Up to 1080 IPS @ 3840 x 2160  | Up to 480 IPS @ 3840 x 2160           |                                       |
| Recording Throughput         |                     | 320Mbps   | 300Mbps                               | 160Mbps                               |
| Pre-alarm Recording          |                     | YES   |                                       |                                       |
| Quick Search                 |                     | Time / Event  |                                       |                                       |
| Event Notification           |                     | Push Video / Push Status / Video Mail / Message Mail                          |                                       |                                       |
| Security                     |                     | Multiple user access levels with password                                     |                                       |                                       |
| Multicast                    |                     | YES   |                                       |                                       |
| Seamless Recording***        |                     | YES   |                                       |                                       |
| EaZy Networking              |                     | YES   |                                       |                                       |
| IVS***                       |                     | YES   |                                       |                                       |
| Spot Monitor Setup           |                     | Call Monitor / Event Monitor / Live Monitor<br>(HDMI-2, VGA & Composite)      |                                       |                                       |

|                                  | Model 5   | Model 6  | Model 7 |
|----------------------------------|---|--|---------|
| <b>Software</b>                  |   |  |         |
| Alarm Scenario Setup             | YES   |  |         |
| Alarm Pop-up & Preview           | YES   |  |         |
| Free DDNS Service                | YES   |  |         |
| <b>Network</b>                   |   |  |         |
| Protocols                        | DDNS, PPPoE, DHCP, NTP, SNTP, TCP/IP, ICMP, SMTP, FTP, HTTP, RTP, RTSP, RTCP, IPv4, UPnP, DNS, UDP, IGMP  |  |         |
| ONVIF Compatible                 | YES   |  |         |
| Max. Online User                 | 80  | 40   |         |
| Remote Access                    | Web Browser   | Windows Edge, Google Chrome, Mozilla Firefox & Opera on Windows 10 (and later versions) and Google Chrome & Mozilla Firefox on MAC |         |
|                                  | PC program  | 32CH CMS software for Windows OS   |         |
|                                  | Moble app   | EagleEyes on iOS & Android mobile devices  |         |
| <b>General</b>                   |   |  |         |
| Power Source ( $\pm 10\%$ )      | DC12V / 12.5A   |  |         |
| Power Consumption ( $\pm 10\%$ ) | 14W<br>(No hard disks connected)  |  |         |
| Operating Temperature            | 10°C ~ 40°C (50°F~104°F)  |  |         |
| Operating Humidity               | 10% ~ 85%   |  |         |
| Dimensions (mm) <sup>****</sup>  | 358 x 267 x 152   |  |         |
| Net Weight (kg)                  | 5.8   |  |         |
| Minimum PC Browsing Requirements | <ul style="list-style-type: none"> <li>• Intel core i3 or higher, or equivalent AMD</li> <li>• 2GB RAM</li> <li>• AGP graphics card, Direct Draw, 32MB RAM</li> <li>• Windows 10 and later versions</li> <li>• Windows Edge, Google Chrome, Mozilla Firefox &amp; Opera on Windows 10 (and later versions)</li> </ul> |  |         |
| Certification                    | CE / UL (Power Adapter)   |  |         |

\* Specifications are subject to change without notice.

\*\* Hard disks are optional

\*\*\* Available only when the connected cameras are supported

\*\*\*\* Dimensional tolerance:  $\pm 5\text{mm}$

## APPENDIX 2 PUSH VIDEO CONFIGURATION

**Note:** This function is for selected models only. Please check the product specifications or check with your installer to know more details.

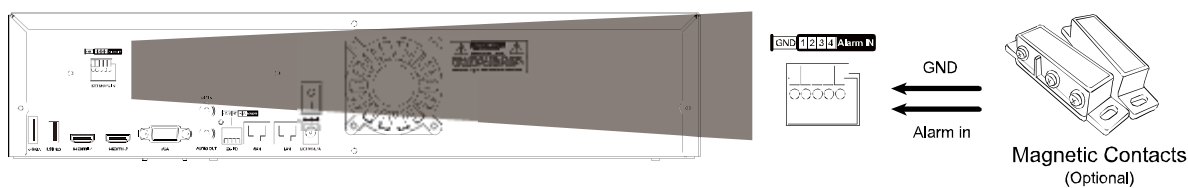
### A2.1 Alarm Sensor Connection

There are two ways to connect the alarm sensor: directly to this recorder or to the camera.

#### To the recorder

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.



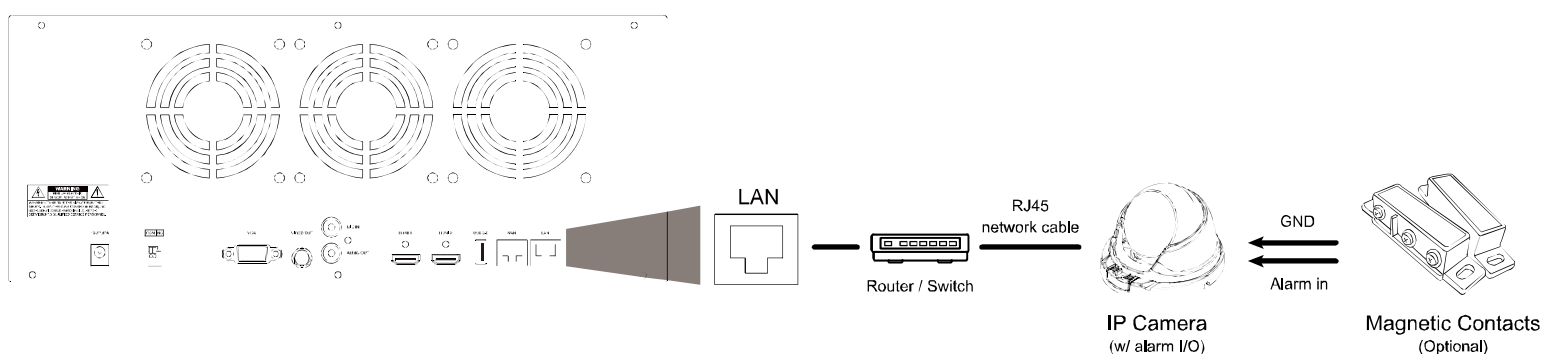
1. Go to **MENU → CAMERA → DETECTION** and set **MOTION** to **ON**.
2. Go to **MENU → PERIPHERAL → LOCAL ALARM IN** and configure **ALARM IN** to **N.C. / N.O.**

| LOCAL ALARM IN |          |   |
|----------------|----------|---|
| CHANNEL TITLE  | ALARM IN |   |
| CH1            | N.C.     | ▼ |
| CH2            | N.O.     | ▼ |
| CH3            | OFF      | ▼ |
| CH4            | OFF      | ▼ |

#### To the camera

If the connected IP camera is our brand's IP camera with alarm I/O support, you can 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 | ALARM                         | INTERNAL ALARM | SENSITIVITY | MOTION | AREA | ADVANCED CONFIG |
| CH1           | OFF <input type="checkbox"/>  | ON             |             | ON     | EDIT |                 |
| CH2           | N.C. <input type="checkbox"/> | OFF            |             | ON     | EDIT |                 |
| CH3           | N.O. <input type="checkbox"/> | OFF            |             | OFF    | EDIT |                 |
| CH4           | OFF <input type="checkbox"/>  | OFF            |             | OFF    | EDIT |                 |
|               |                               |                |             |        |      | 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 “6.2 Mobile Devices” at page 60.

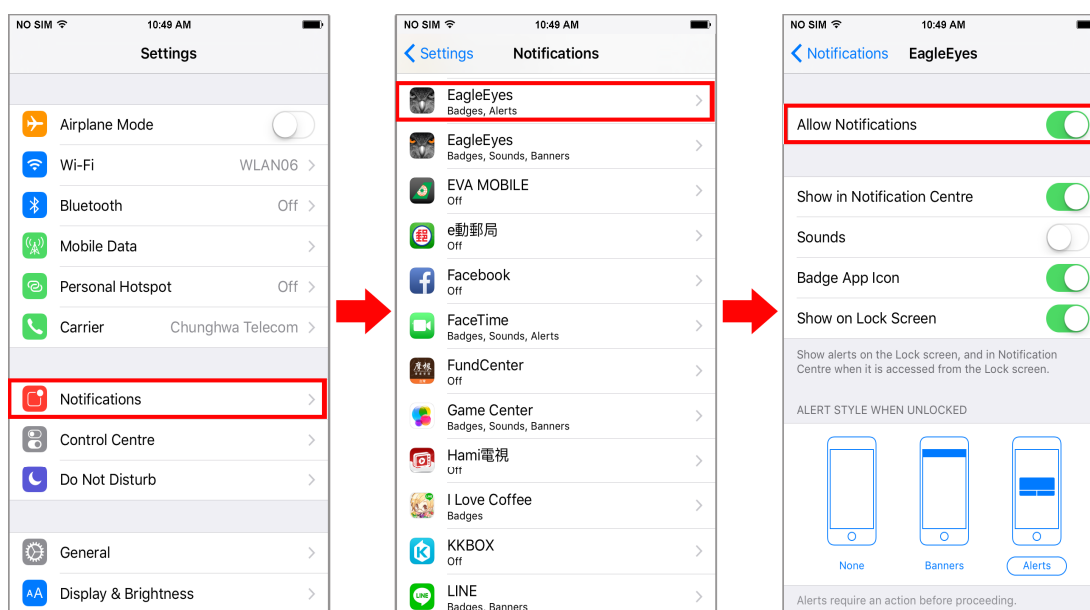
Step1: Go to **MENU → SCENARIO**, and enable the necessary rules:

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

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

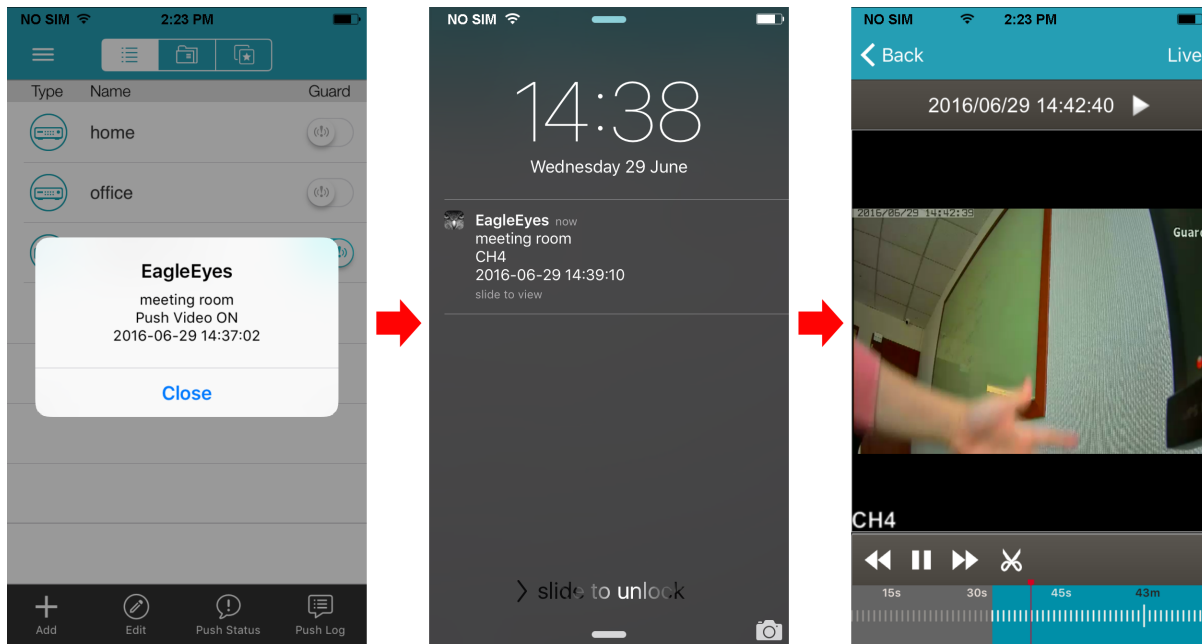
## A2.3 Enable Push Video

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



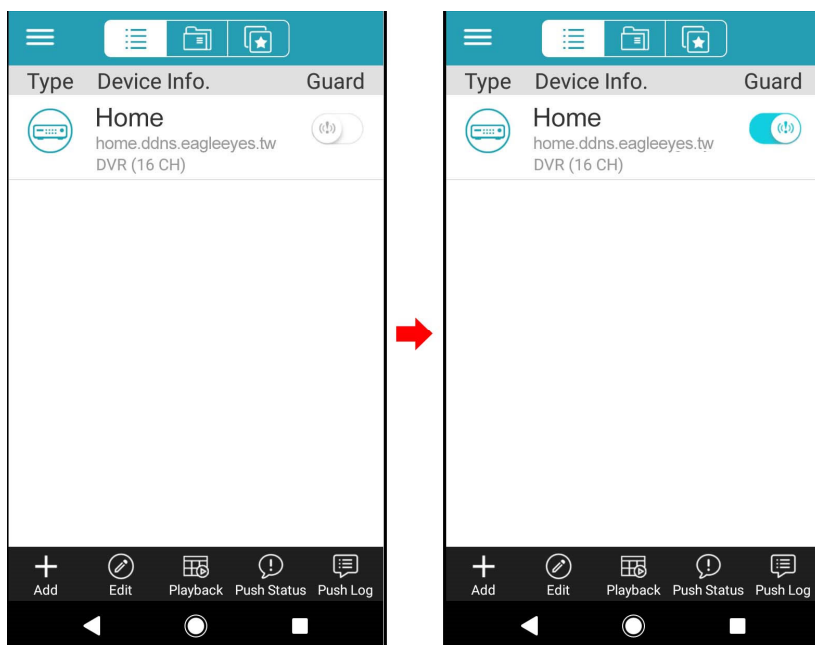
Step2: Open **EagleEyes**, and switch **Guard** to **ON**. You'll receive the message indicating that Push Video is on.

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.




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 | MODEL         | CAPACITY |
| ST1000VX001 | 1TB      | ST4000VX013  | 4TB      | ST8000VE001   | 8TB**    |
| ST1000VX005 | 1TB      | ST6000VX0001 | 6TB**    | ST10000VX0004 | 10TB**   |
| ST2000VX004 | 2TB      | ST6000VX0011 | 6TB**    | ST10000VX0004 | 10TB**   |
| ST3000VM002 | 3TB      | ST6000NM0024 | 6TB**    | ST10000VE0004 | 10TB**   |
| ST3000VX004 | 3TB      | ST6000VX001  | 6TB**    | ST10000VE000  | 10TB**   |
| ST3000VX005 | 3TB      | ST8000VX002  | 8TB**    | ST10000VE001  | 10TB**   |
| ST4000VM000 | 4TB      | ST8000VX0022 | 8TB**    | ST14000VX0008 | 14TB**   |
| ST4000VX000 | 4TB      | ST8000VE000  | 8TB**    | ST16000VE000  | 16TB**   |
| ST4000VX002 | 4TB      | ST8000VX004  | 8TB**    | ST18000VE002  | 18TB**   |
| ST4000VX007 | 4TB      | ST8000VE000  | 8TB**    |               |          |
| WD          |          |              |          |               |          |
| MODEL       | CAPACITY | MODEL        | CAPACITY | MODEL         | CAPACITY |
| WD10PURX    | 1TB      | WD30EURX     | 3TB      | WD6001FSYZ    | 6TB**    |
| WD20PURX    | 2TB      | WD30EFRX     | 3TB      | WD82PURZ      | 8TB**    |
| WD20EURS    | 2TB      | WD40PURX     | 4TB      | WD120PURZ     | 10TB**   |
| WD20EURX    | 2TB      | WD40EURX     | 4TB      | WD121PURZ     | 12TB**   |
| WD20EFRX    | 2TB      | WD60EURX     | 6TB**    | WD120PURZ     | 14TB**   |
| WD2002FAEX  | 2TB      | WD60PURX     | 6TB**    |               |          |
| WD30PURX    | 3TB      | WD6001FFWX   | 6TB**    |               |          |
| TOSHIBA     |          |              |          |               |          |
| MODEL       | CAPACITY | MODEL        | CAPACITY | MODEL         | CAPACITY |
| DT01ACA100  | 1TB      | MD03ACA200V  | 2TB      | MD03ACA400V   | 4TB      |
| DT01ABA100V | 1TB      | DT01ABA300V  | 3TB      | DT02ABA400V   | 4TB      |
| DT01ACA200  | 2TB      | DT01ACA300   | 3TB      | MD04ABA500V   | 5TB**    |
| DT01ABA200V | 2TB      | MD03ACA300V  | 3TB      |               |          |

\* 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.

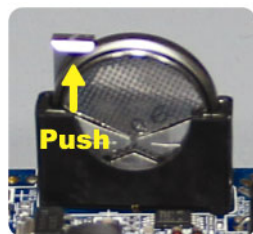
Step2: Power off the device, and disconnect the power.

Step3: Remove the device upper cover or rear panel to find the battery on the mainboard.

Step4: Push the release as indicated below to remove the battery.



**Type1**



**Type 2**

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 cover and connect to power.

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

## APPENDIX 6 DISK ARRAY COMPATIBLE LIST

Here's the compatible list for disk arrays.

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**Note:** For the compatible hard disks used for those disk arrays listed below, please check their respective user manuals or official websites.



---

| Brand   | Model Number |
|---------|--------------|
| Proware | EP-D501-AA   |
|         | EP-2123-UA-R |
| RAIDON  | GT1650-SB3   |
|         | GR3630-SB3   |
| STARDOM | DR5-WBS3     |

## APPENDIX 7 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. The video transmission speed depends on how many EaZy accounts are simultaneously online and the transmission speed of your network.

EaZy Networking is configured via EagleEyes on an iOS / android device. 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 , not .
- You have an iOS / Android mobile device with EagleEyes installed.


### A8.1.1 Recorder Setup

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

**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    | WAN                                    |                               |
|--------|--|-------------------------------|
| LAN    | NETWORK TYPE                           | DHCP <input type="checkbox"/> |
| 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                            |
|        | CHECK INTERNET AVAILABILITY BY 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 NETWORKING   | ON |
| DDNS   |  MAC: 000e53eca7b4<br>UUID: E736DCBF-D4BB-4CA8-86FD-62658E2ECEC1<br>PORT: 80<br>EAZY NETWORKING OFFLINE |    |
| E-MAIL |  |    |
| FTP    |  |    |
| EaZy   |  |    |

## A8.1.2 EagleEyes Setup

Two options can be chosen for EaZy Networking setup: **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.

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.

### 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.



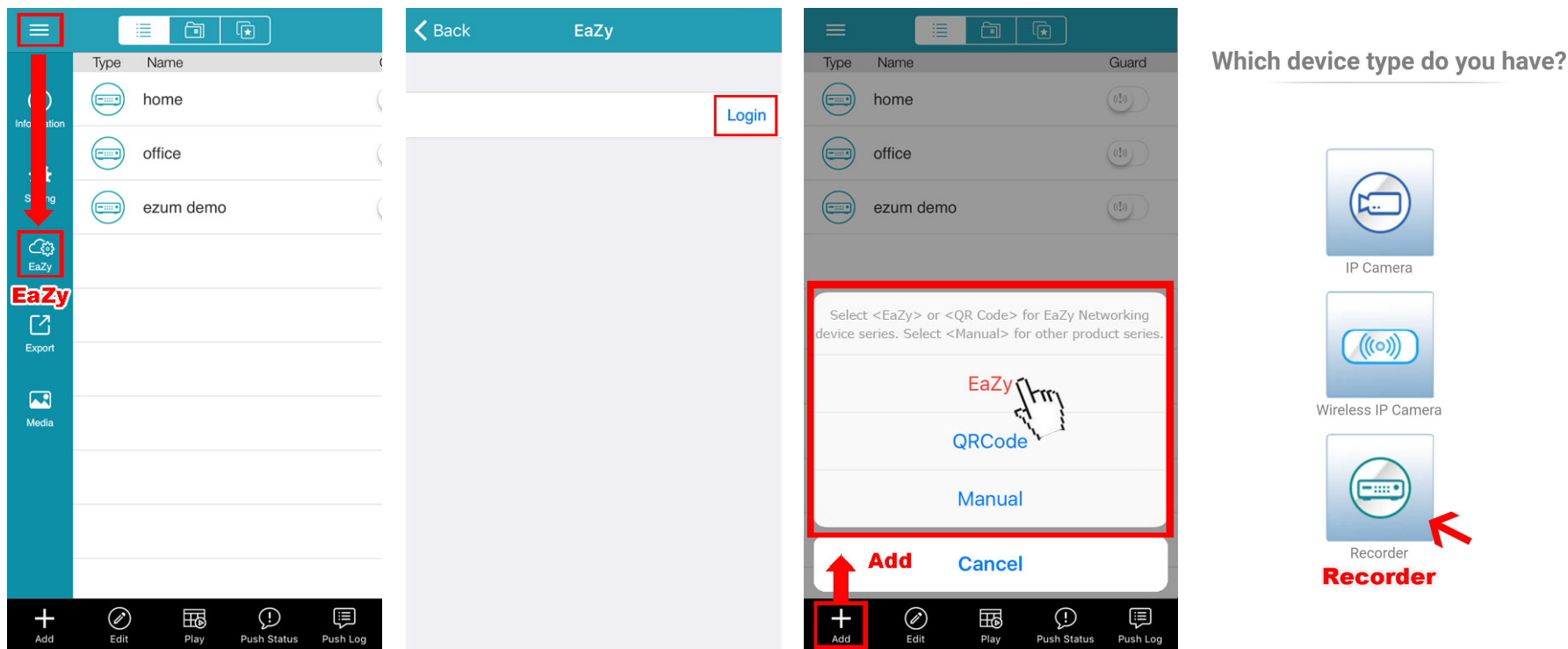
Step1: Go to **MENU** → **NETWORK** → **WAN**. Set **NETWORK TYPE** to **DHCP**, and make sure the network icon on the bottom right corner is changed from  to .


### By EaZy

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.



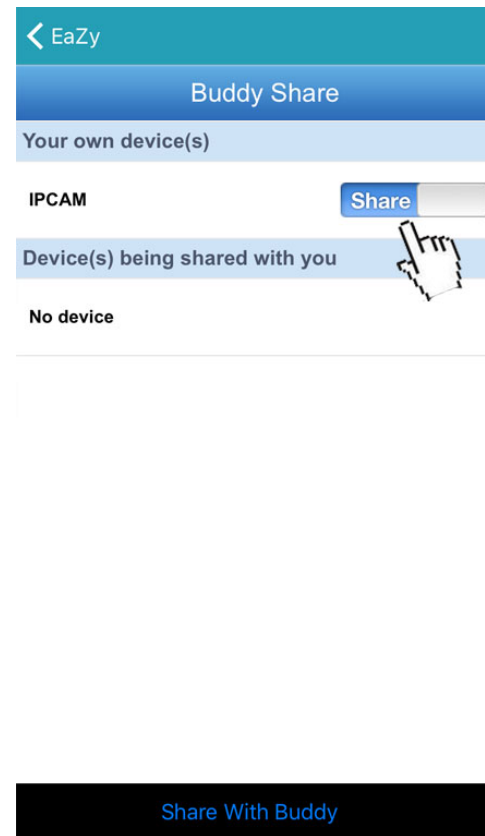
Step6: Click the newly-added device and see if you could access successfully.

### 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.

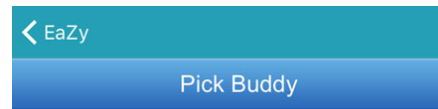
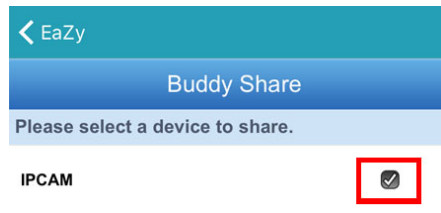
Step1: Log into the cloud service.

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**.



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**.

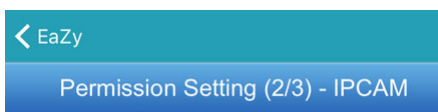
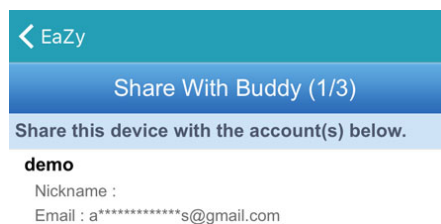


Please enter a buddy's account or Email, or you could pick one from 'Buddy List' alternatively.



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 and how long the account is allowed to stay after access successfully.



Connection time limit: 1 Minute

User level: NORMAL

**SUPERVISOR :**  
Can configure and customize all settings, hear audio stream, and receive Push Video / Push Status notifications.

**POWER USER :**  
Can do remote playback.

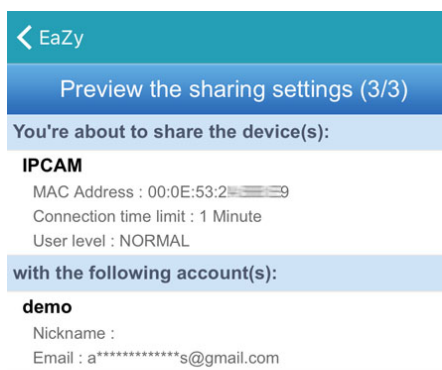
**NORMAL :**  
Can perform basic control.

**GUEST :**  
Can only see live stream.













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: Return to the address book of EagleEyes. You'll see the device being shared is marked with an icon of two people.

| Icon   | Color                         | Indication  |
|--|-------------------------------|---|
| <b>Device icon</b>   |                               |   |
|   | Teal                          | This device is a DVR or NVR.  |
|   | Blue                          | This device is an IP camera.  |
|   | Orange                        | This device is an IP speed dome camera.   |
|   | Red                           | This device is disconnected and unidentified.   |
| <b>Device status</b>   |                               |   |
|  or  | Depending on the device color | This device is configured to the Internet via Eazy Networking (AVTECH Cloud Service).<br>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 (AVTECH Cloud Service).<br>The icon will be grayed out if you disable the device share. |
|   | 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.