# AiO NVR Software for Transportation

## NVR software for EverFocus x86/ARM-based Industrial PC

*User's Manual*


EverFocus


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EVERFOCUS ELECTRONICS CORPORATION

# AiO NVR Software for Transportation

## User's Manual


www.everfocus.com.tw

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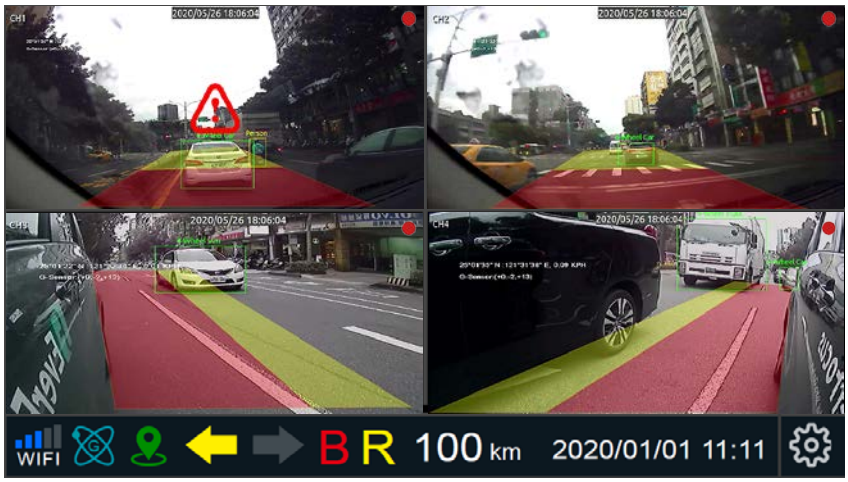
# 1. Introduction

The AiO is an EverFocus in-house designed NVR software that can run on both x86 and ARM-based platforms. This NVR software supports Ubuntu 18.04 operating system. Except for the basic functions that a regular NVR should have, including live view monitoring, video recordings, playback, alarm notification and etc., users can also upgrade the software to perform multiple AI functions such as Blind Spot Monitoring and Driver Fatigue and Distraction Monitoring.

The AiO NVR software supports all EverFocus industrial computers and can be pre-installed inside the hardware upon customer's request.

For more details about EverFocus industrial computers (IPC), please visit EverFocus IPC website.



Chapter
2

# 2. Getting Started

For the system to start recording camera streams, you will have to connect all the necessary hardware devices to your IPC, and configure some basic function settings of the AiO NVR software. Please follow the instructions below.

- **Hardware System (Industrial Computer, IPC)**
  1. The AiO NVR software is pre-installed in your IPC system. Before powering on the IPC, please ensure the necessary devices have been installed with your IPC, such as the storage drives, and then turn on the power of your IPC.
  2. Connect your IPC to the network.
  3. Ensure the IP cameras are connected to the PoE ports of your IPC or connected to the same LAN with your IPC.

- **Configure the AiO NVR Software Settings**

  Please refer to *2.1 Basic Settings for AiO NVR* for more details.

  1. Set up administrator account and password.
  2. Configure system date and time.
  3. Configure the network setting.
  4. Adding IP cameras to the system.
  5. Configure the storage setting.

## 2.1 Basic Settings for AiO NVR

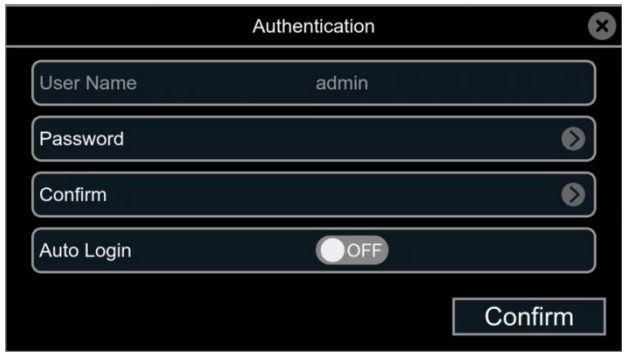
For the first time logging users, you can configure the basic function settings listed as below for the system to record camera streams.

- Set up administrator account and password. Please refer to *2.1.1 System Login*.
- Configure system date and time. Please refer to *2.1.2 Configuring System Date and Time*.
- Configure the network setting. Please refer to *2.1.3 Configuring System Network*.
- Adding IP cameras to the system. Please refer to *2.1.4 Adding IP cameras to the System*.
- Configure the storage setting. Please refer to *2.1.5 Configuring System Storage*.

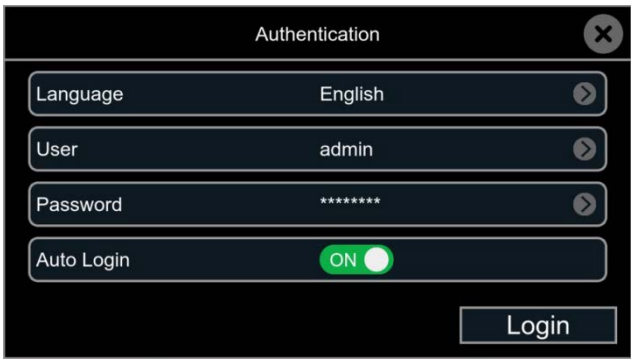
### 2.1.1 System Login

After turning on the power of your hardware system, the system will start initializing the AiO NVR software. When the initialization process is done, the Live View window appears.


For the first-time login user, click the **Setup** button on the bottom-right corner to bring-up the **Authentication** window for setting up the password of the administrator login account. Input the password and then click the **Confirm** button.



After setting up the admin account, you will be prompted to login the system. Select a language and input the login user ID and password. You can optionally switch on the **Auto Login** function. Click the **Login** button, the system will enter the Live View window. Please refer to *2.2 Live View Window* for more details.




**Language:** Select a language for the on-screen display (OSD). You can also change the language on the system setup page (OSD menu > System > General).

**User:** Select an user ID.

**Password:** Input the password.

**Auto Login:** Switch on for the system to login automatically every time when entering the OSD menu.

### 2.1.2 Configuring System Date and Time

You can configure system date and time, time zone or NTP settings using this page.

To configure system date and time, click the **Setup** button on the lower-right corner of the Live View window to bring-up the OSD menu, and then go to System > Date and Time.


**【Date and Time】Page 1**

**Date:** Click to bring-up the on-screen calendar and select a date.

**Time:** Click to bring-up the on-screen clock to set up the time.

**Date Format:** Click to select a format for the date.

**Time Format:** Click to select a format for the time.

Click **Save** to save the settings.

**【Date and Time】Page 2**

**Time Zone:** Click to select a time zone relevant to your region.

**NTP Settings:** If you want to enable the NTP function, switch on NTP Settings. When NTP function is enabled, the system will calibrate the system time every 10 minutes.

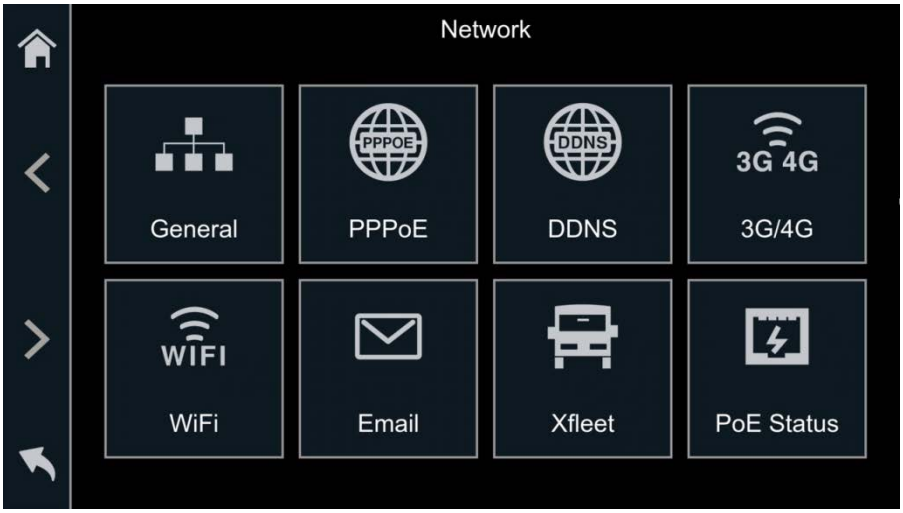
The NTP (Network Time Protocol) function allows your system to automatically sync its clock with a time server. This gives it the ability to constantly have an accurate time setting (your system will periodically sync automatically).

**NTP Server:** Click to select a NTP server.

Click **Save** to save the settings.

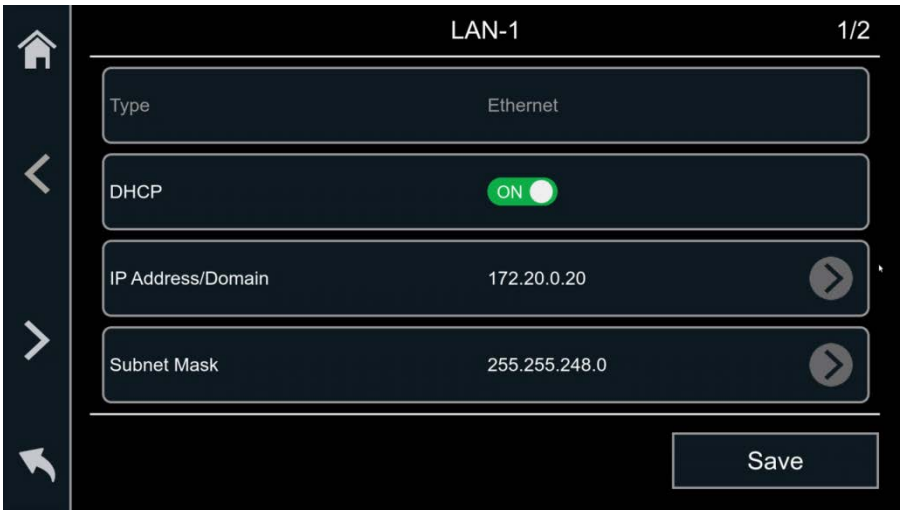
### 2.1.3 Configuring System Network

To configure system network, click the **Setup** button on the lower-right corner of the Live View window to bring-up the OSD menu, and then go to Network.




#### 2.1.3.1 DHCP and Static IP

If you want to configure system network with **Static IP** or **DHCP**, go to OSD menu > Network > General > LAN-1.



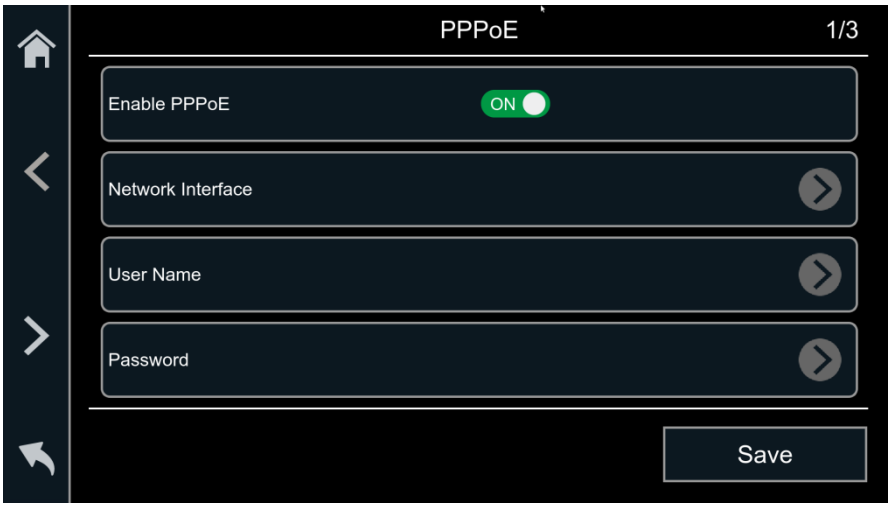

1. To configure the system with a static IP address, switch the **DHCP** button **OFF** and then manually input the IP address, subnet mask and gateway. Click **Save** to save the settings.
2. To configure the system network with DHCP, switch the **DHCP** button **ON** and the DHCP server in LAN will automatically assign an IP configuration for the network connection. Click **Save** to save the settings.

### 2.1.3.2 PPPoE

If you want to configure system network with **PPPoE**, go to OSD menu > Network > PPPoE.

The PPPoE is a DSL-connection application. The ISP (Internet Service Provider) will ask the user to input a username and password. Please contact your ISP for these details.

Switch the **Enable PPPoE** button **ON**, and then select a Network Interface if your system supports multiple LAN ports. Enter the User name and Password provided by the ISP. Click **Save** to save the settings.



### 2.1.3.3 3G/4G

If you want to configure system network with **3G/4G**, go to OSD menu > Network > 3G/4G.

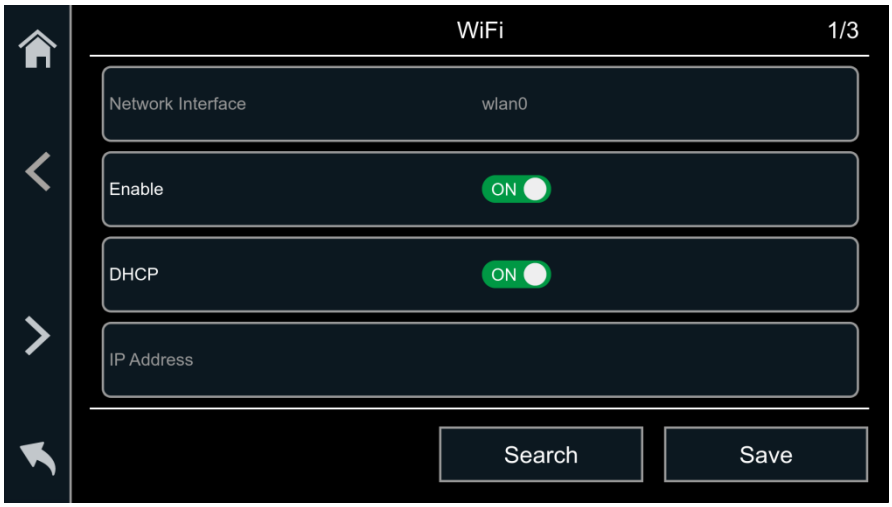

1. Ensure the 3G/4G module and antenna have been installed properly on the system.
2. Switch the **Enable** button **ON**.
3. Input the APN, Dial Number, User Name and Password provided by the network service provider and then click the **Save** button.

When the system is connected to 3G/4G network, the connection status will display “connected” in the **Network Status** field. The information about the Internet Service Provider (ISP) along with signal strength (0~100) and data rate will be displayed in the relative column fields.



### 2.1.3.4 WiFi

If you want to connect to **WiFi** network, go to OSD menu > Network > WiFi.




**Enable**: Switch the button **ON** to enable the WiFi function.

**DHCP**: Switch the button **ON** for DHCP server in LAN to automatically assign an IP. Switch the button **OFF** and then set up a fixed IP address for network connection.

**IP address:** Displays the system's current IP Address. A static IP address must be set manually. If DHCP is selected, this value will be assigned automatically.

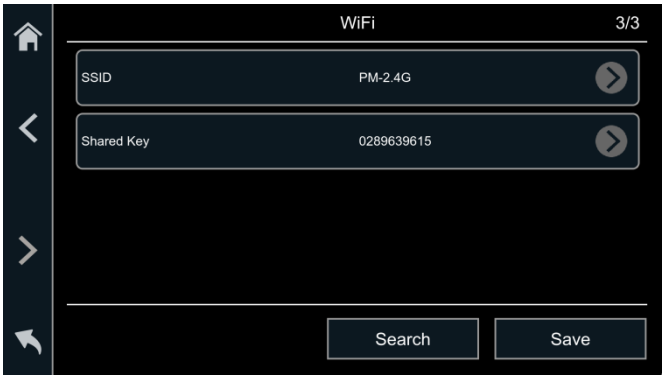
**Subnet Mask:** Displays the subnet mask for your network so the system will be recognized within the network. If DHCP is selected, this value will be assigned automatically.

**Gateway:** Displays the gateway on your network for the system to use when communicating with any devices not on the local network. If DHCP is selected, this value will be assigned automatically.

**DNS 1:** Displays the primary DNS server for your network. If DHCP is selected and an internet connection is available, this value should be assigned automatically. This field must have a valid DNS address in order to use the DDNS feature (see *3.4.3 DDNS*).

**DNS 2:** This field shows the secondary DNS server for your network.

**SSID:** Click to enter the name (SSID) of the wireless network; or click the **Search** button to search for the available WiFi network.



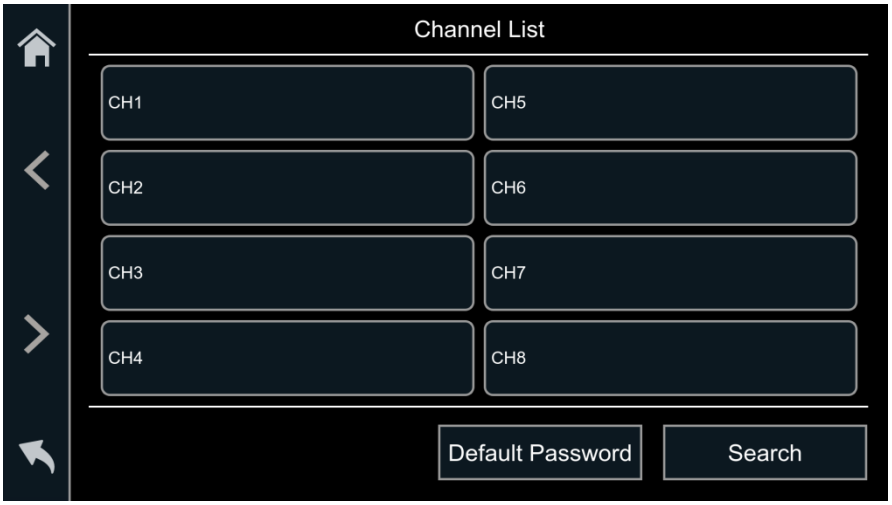

**Shared Key:** Enter the password of the wireless network.

**Save:** Click to save the settings.

### 2.1.4 Adding IP Cameras to the System

To add IP cameras, click the **Setup** button on the lower-right corner of the Live View window to bring-up the OSD menu, and then go to Channel > Channel List.

There are two ways to add IP cameras to the system, 1) Automatically add IP cameras to all channels and 2) Manually add IP cameras to channels one by one.




**To automatically add IP cameras to all channels:**

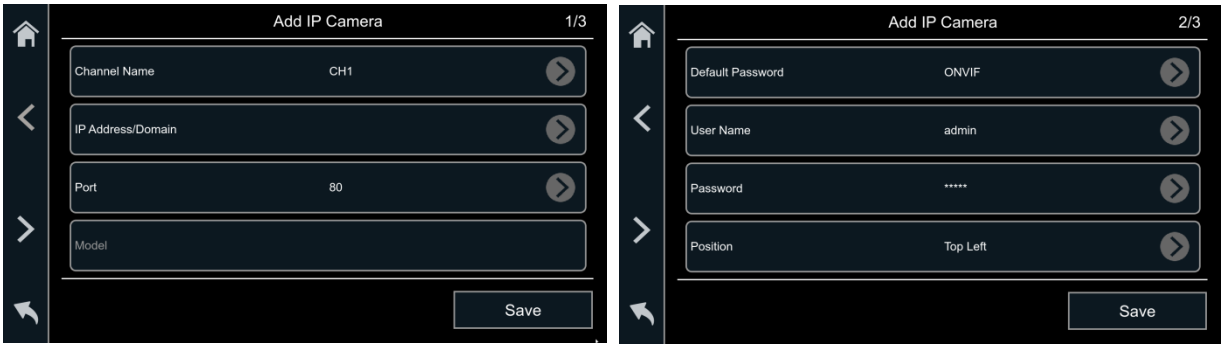
1. Ensure the IP cameras are connected to the PoE ports of your hardware system or connected to the same LAN with your hardware system.
2. Click the **Search** button to search for the IP cameras. The searched IP cameras will be displayed.
3. Click the **Auto Add All** button, the system will automatically add the IP cameras to each channel based on the number order from the searched IP camera list. For example, No.1 camera will be applied to CH1, No.2 camera will be applied to CH2, and so on.

**Note:**

1. After clicking the **Auto Add All** button, by default, all the IP cameras will be added to the system with ONVIF user name and password (admin/admin). You can click the **Default Password** button and then click ONVIF to modify the default user name and password of ONVIF.
2. If the IP cameras are applied with different user name and password, after adding the IP cameras to the system, you can go to OSD menu > Channel > Channel List, click on the channel to edit the user name and password.

**To manually add IP cameras to channels one by one:**

1. Ensure the IP cameras are connected to the PoE ports of your hardware system or connected to the same LAN with your hardware system.
2. Click on an available channel to enter the **Add IP Camera** page, and input the information.




**Channel Name:** You can optionally edit the channel name. Click to edit the channel name. The channel name will be displayed on the channel of the Live View window. By default, the channel name is displayed on the upper-left corner of the channel window. To change the position, click the **Position** function below and select a position.

**IP Address/Domain:** Click to input the IP address of the IP camera.

**Port:** Input the port number. By default, 80 is applied. Change the port number only if necessary.

**Model:** Displays the model name of the IP camera.

**Default Password:** Click to select a pre-defined default password for the IP camera. The IP camera will be applied with the selected user name and password. You can also manually edit the user name and password in the **User Name** and **Password** fields below.

> **Note:** You can modify the **Default Password**. On the **Channel List**, click the **Default Password** button and then click **ONVIF** or **Custom 0-6** to modify the default user name and password.

**User Name:** Click to input the user name of the IP camera.

**Password:** Click to input the password of the IP camera.

**Position:** Select a position to display the channel name on the channel window.

**Type:** If you want to connect the IP camera through ONVIF, select **ONVIF**. If you want to connect the IP camera through RTSP, select **RTSP** and then input the **Main Stream** or **Sub Stream** syntax in the below fields.

**Main Stream:** If **RTSP** is selected in the **Type** field, input the RTSP syntax of the main stream.

**Sub Stream:** If **RTSP** is selected in the **Type** field, input the RTSP syntax of the sub stream.

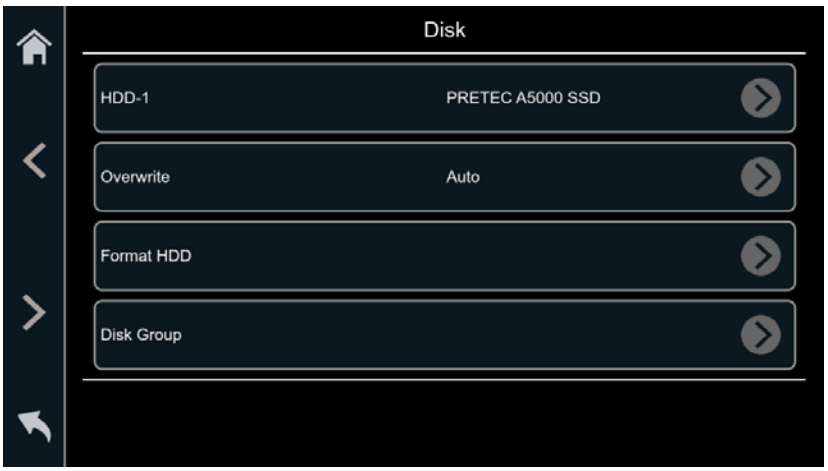
3. Click **Save** to save the settings.

### 2.1.5 Configuring System Storage

By default, the system will automatically record all the channels continuously (Normal Recording) when the system is turned on. If you connect a new storage to the system, a **Storage Alert** icon  will be displayed on the Live View window. You can click on the **Storage Alert** icon to enter the **Disk** page to format the storage device.

To configure system storage:

1. Ensure the storage device(s) have been installed in your system.
2. Click the **Setup** button  on the lower-right corner of the Live View window to bring-up the OSD menu. Click Device > Disk, the below page appears.




For the first time connected disk storage, users will have to format the disk(s) before using the disk(s). To format the disk(s), click the **Format HDD** field, click on the HDD disk and then click the **Save** button. The formatting process shall start. After the HDD format process is done, the "HDD Format Done" message will display. Click **OK**, the system will automatically start recording all the connected channels.

**HDD-1:** Click to view the storage information.

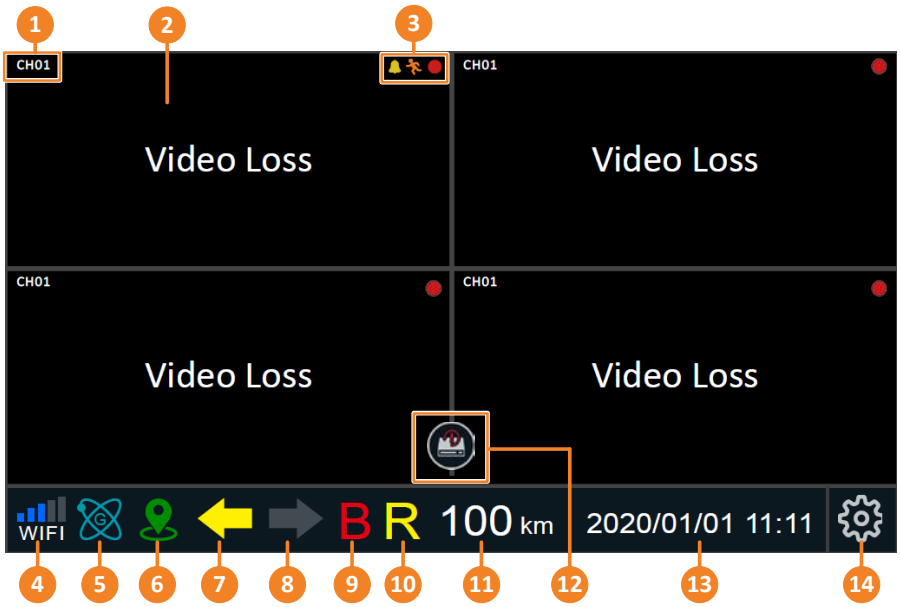
**Overwrite:** Select **Auto** to enable the overwrite function; **Off** to disable the overwrite function. If **Auto** is selected, the system will overwrite the oldest files on the HDD when HDD is full. If Off is selected, please check the HDD status regularly, to make sure the HDD is not full. The **1/3/7/14/30/90** Days stands for the max. number of recording days. For example, if 3 days is selected, the system will only record for 3 days and then start the overwrite process, which means, the system will always keep 3-day-recordings in the storage.

**Format HDD:** Click to enter the **Disk** page to format the storage device.

**Disk Group:** If multiple disks are connected (depends on system model), you can optionally assign recording channels to different disks. Each channel can only be assigned to one disk. Disk Group allows you to balance recordings across multiple storage disks. For example, you can record channels 1~4 to one disk and 5~8 to another disk. This can reduce the amount of wear on the disks and may extend the life of the disks.

## 2.2 Live View Window

After login, the system will enter the Main View of the AiO NVR software, which is the Live View window. You can perform some functions on the Main View. Please refer to the descriptions in the table below.



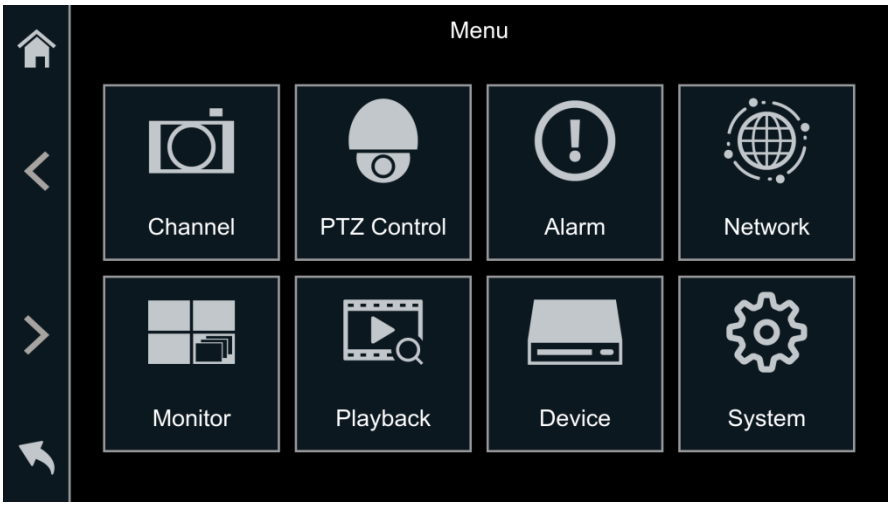

| No | Name | Description |
|---|---|---|
| 1 | **Channel Number** | The system will automatically display the channel number once the channel has been applied with an IP camera. You can optionally edit the channel number (name) and the display position, please refer to **Channel Name** in *3.1.1 Channel List.* |
| 2 | **Live Channel** | Double-click on a channel can display the channel in full screen. To exit the full screen mode, double-click on the channel again. To change the layout, go to OSD Menu > Monitor > Layout. |
| 3 | **Status Icons** | The Status Icons displayed on the screen are designed to alert users when any of the following situations occur:<br>Channel recording<br>Motion event is detected<br>External I/O alarm is triggered |
| 4 | **WiFi Connection** | When the system has connected to a WiFi network, the WiFi icon will be displayed. To configure WiFi network, please refer to *2.1.3.4 WiFi*. |
| 5 | **G-Sensor** | Click on the **G-Sensor** icon can display the X/Y/Z value. Note when the **G-sensor** icon has been clicked, the **Left/Right/B/R** icons will be hidden by a **Vehicle** icon . To display the **Left/Right/B/R** icons again, click on the **Vehicle** icon. |

| | | |
|---|---|---|
| **6** | **GPS Coordinates** | Click on the **GPS** icon can display the GPS coordinates. Note when the **GPS** icon has been clicked, the **Left/Right/B/R** icons will be hidden by a **Vehicle** icon  . To display the **Left/Right/B/R** icons again, click on the **Vehicle** icon. |
| **7** | **Left Turn Icon** | When the driver is making a left turn signal, the **Left Turn** icon will blink with yellow color. |
| **8** | **Right Turn Icon** | When the driver is making a right turn signal, the **Right Turn** icon will blink with yellow color. |
| **9** | **Brake Icon** | When the driver is making a brake, the **B** icon will light with red color. |
| **10** | **Reverse Icon** | When the driver is reversing car, the **R** icon will light with yellow color. |
| **11** | **Speed** | Displays the current vehicle speed. You can optionally change the speed unit. Go to OSD menu > Monitor > Monitor OSD, click on **Speed Unit** and select the desired unit. Please refer to *3.5.3 Monitor OSD*. |
| **12** | **Storage Alert Icon** | When storage disk error occurs, or new storage disk is detected by the system, this icon will appear. Click on the icon to enter the **Disk** page for disk configuration. Please refer to *3.7.1 Disk* for more details. |
| **13** | **System Date and Time** | Displays system date and time. To change system date and time, go to OSD Menu > System > Date and Time. |
| **14** | **OSD Menu** | Click the **Setting** button  to enter the OSD Menu. Please refer to *3. OSD Menu*. |

Chapter
3

# 3. OSD Menu

You can use the OSD Menu to configure system settings. Click the **Setup** button on the lower-right corner of the Live View window to bring-up the OSD menu.



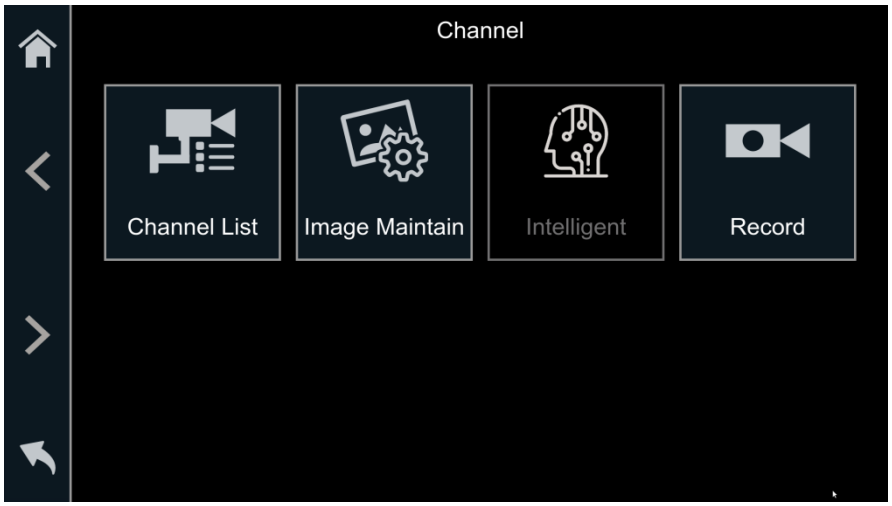

**【OSD Menu Operation】**

1. To display OSD menu, click the **Setup** button on the lower-right corner of the Live View window.
2. Click on any icons to enter the setup menus.
3. If there are multiple pages for a single setup section, click the **Next** or **Previous** buttons on the left pane to switch among pages.
4. To return to the previous level of the OSD menu, click the Return button.
5. To exit the OSD menu, click the **Home** button or **Return** button on the left pane.

## 3.1 Channel

On the Channel page, you can add IP cameras, configure IP camera settings and record settings and enable some Intelligent functions.

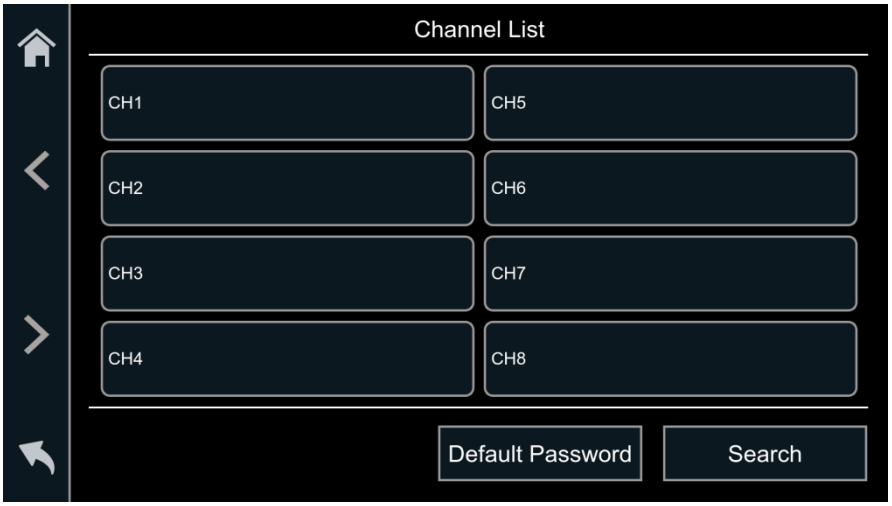
**Note:** Intelligent function, such as Driver Fatigue and Distraction Monitoring and Blind Spot Monitoring, is project-based. Please consult with EverFocus for more details ts@everfocus.com.tw.




### 3.1.1 Channel List

You can add IP cameras using this page. On the OSD menu, click Channel > Channel List.

There are two ways to add IP cameras to the system, 1) Automatically add IP cameras to all channels and 2) Manually add IP cameras to channels one by one.



**To automatically add IP cameras to all channels:**

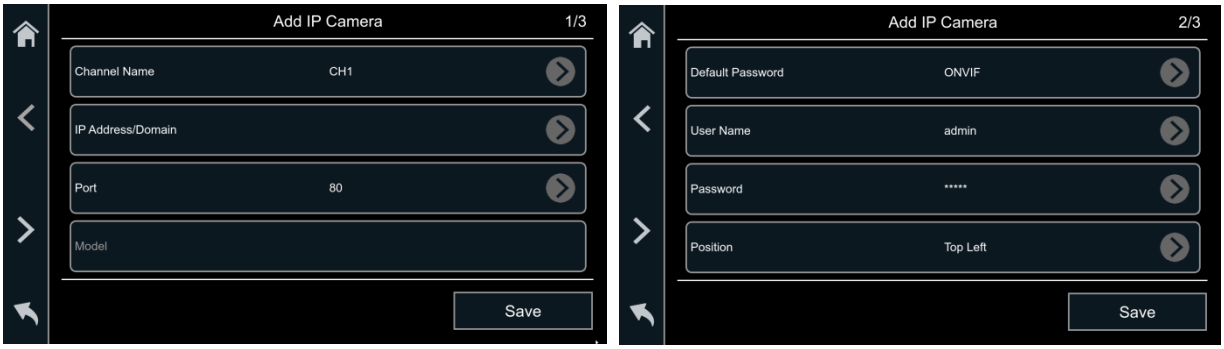
1. Ensure the IP cameras are connected to the PoE ports of your hardware system or connected to the same LAN with your hardware system.
2. Click the **Search** button to search for the IP cameras. The searched IP cameras will be displayed.
3. Click the **Auto Add All** button, the system will automatically add the IP cameras to each channel based on the number order from the searched IP camera list. For example, No.1 camera will be applied to CH1, No.2 camera will be applied to CH2, and so on.

**Note:**

1. After clicking the **Auto Add All** button, by default, all the IP cameras will be added to the system with ONVIF user name and password (admin/admin). You can click the **Default Password** button and then click ONVIF to modify the default user name and password of ONVIF.
2. If the IP cameras are applied with different user name and password, after adding the IP cameras to the system, you can go to OSD menu > Channel > Channel List, click on the channel to edit the user name and password.

**To manually add IP cameras to channels one by one:**

1. Ensure the IP cameras are connected to the PoE ports of your hardware system or connected to the same LAN with your hardware system.
2. Click on an available channel to enter the **Add IP Camera** page, and input the information.




**Channel Name:** You can optionally edit the channel name. Click to edit the channel name. The channel name will be displayed on the channel of the Live View window. By default, the channel name is displayed on the upper-left corner of the channel window. To change the position, click the **Position** function below and select a position.

**IP Address/Domain:** Click to input the IP address of the IP camera.

**Port:** Input the port number. By default, 80 is applied. Change the port number only if necessary.

**Model:** Displays the model name of the IP camera.

**Default Password:** Click to select a pre-defined default password for the IP camera. The IP camera will be applied with the selected user name and password. You can also manually edit the user name and password in the **User Name** and **Password** fields below.

> **Note:** You can modify the **Default Password**. On the **Channel List**, click the **Default Password** button and then click **ONVIF** or **Custom 0-6** to modify the default user name and password.

**User Name:** Click to input the user name of the IP camera.

**Password:** Click to input the password of the IP camera.

**Position:** Select a position to display the channel name on the channel window.

**Type:** If you want to connect the IP camera through ONVIF, select **ONVIF**. If you want to connect the IP camera through RTSP, select **RTSP** and then input the **Main Stream** or **Sub Stream** syntax in the below fields.

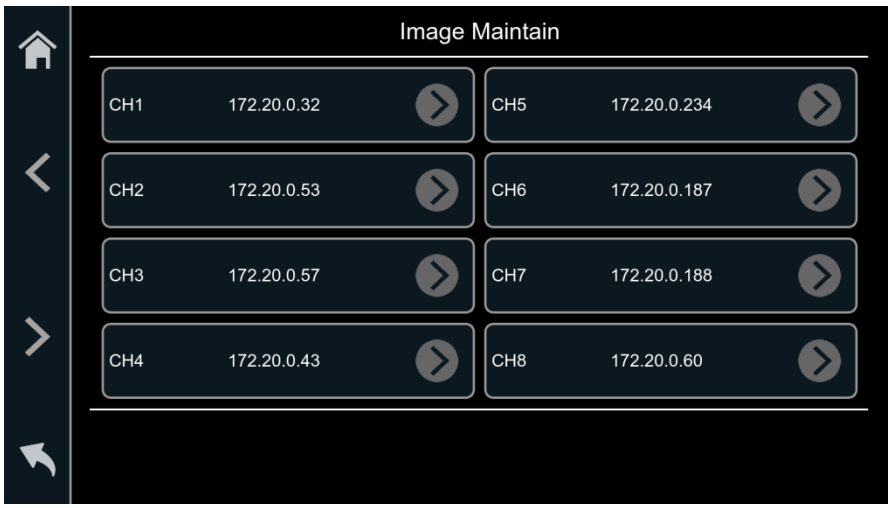
**Main Stream:** If **RTSP** is selected in the **Type** field, input the RTSP syntax of the main stream.

**Sub Stream:** If **RTSP** is selected in the **Type** field, input the RTSP syntax of the sub stream.

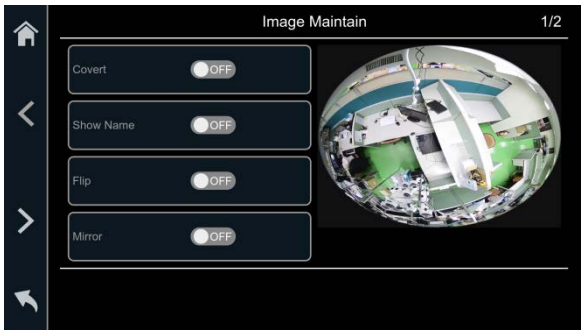
3. Click **Save** to save the settings.

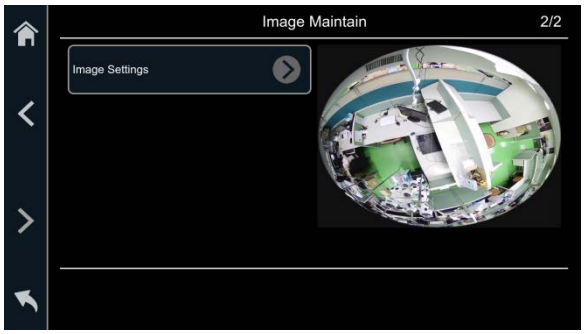
### 3.1.2 Image Maintain

You can configure some image settings using this page. On the OSD menu, click Channel > Image Maintain.




1. Select a channel by clicking on it to enter its image setting page.
2. Switch the button **ON** to enable the desired functions.




**Covert:** Switch the button **ON** to enable hiding the camera stream on the Live View and Sequence mode when logout the system, however, the system will still record the video streams and the recordings can be played back by users who have the privilege to playback.

**Show Name:** Switch the button **ON** to display the channel name on the live channel.

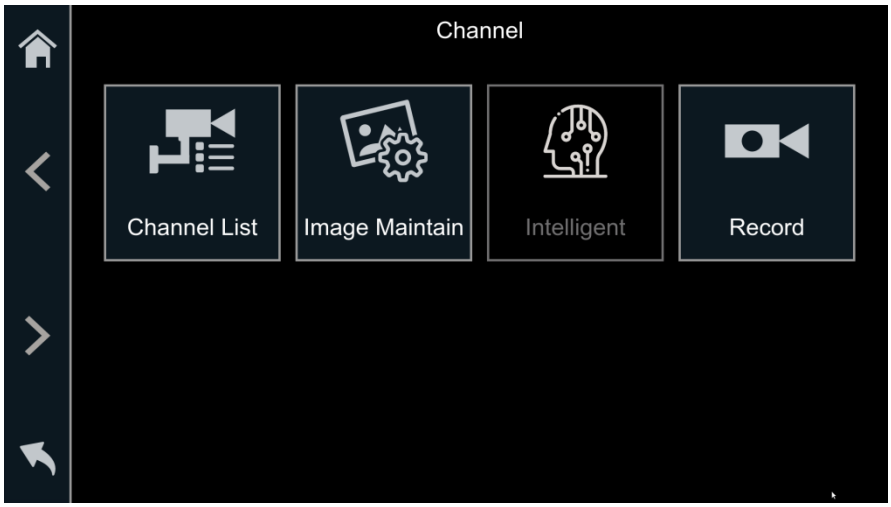
**Flip:** Switch the button **ON** to flip the image. The image will be rotated vertically around a horizontal axis.

**Mirror:** Switch the button **ON** to mirror the image. The image will be rotated horizontally around a vertical axis.

**Image Setting:** Click to enter the color setting page. You can adjust the value (0~255) of **Brightness**, **Sharpness**, **Contrast** and **Saturation**. After configuring the value, click **Save** to save the settings.

### 3.1.3 Intelligent

You can configure the settings of Intelligent functions such as Driver Fatigue and Distraction Monitoring and Blind Spot Monitoring using this page. The functions are project-based and required specific firmware. Please consult with EverFocus for more details ts@everfocus.com.tw.



### 3.1.4 Record

You can configure record, record schedule and audio settings using this page. On the OSD menu, click Channel > Record.


#### 3.1.4.1 Main Stream

Main stream defines the recording video quality which will be saved in the storage device. Click **Main Stream** to enter the **Main Stream** page and then select a channel by clicking on it, the below setup page appears.


**Video Encode Type:** Select the video codec the IP camera is supported.

**Resolution:** Select a recording resolution.

**FPS:** Select a FPS (frames per second) for the recording.

**Bitrate:** Input a bitrate. The Bitrate corresponds to the speed of data transfer that the system will use to record video. Recordings that are encoded at higher bitrates, will be of better quality.

**i-Frame Interval:** Optionally set up an i-Frame interval. For example, if you set up the value as 30, the system will insert an i-Frame every 30 frames to the recording. Note that this function is available for Onvif-supported IP cameras. To enable this function, the protocol of the connected IP camera should select Onvif.

### 3.1.4.2 Sub Stream

Sub stream defines the video quality which is being viewed via remote access, for example web client and CMS. Click **Sub Stream** to enter the **Sub Stream** page and then select a channel by clicking on it, the below setup page appears.


**Video Encode Type:** Select the video codec the IP camera is supported.

**Resolution:** Select a recording resolution.

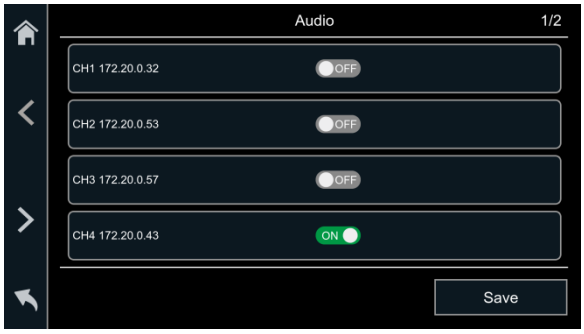
**FPS:** Select a FPS (frames per second) for the recording.

**Bitrate:** Input a bitrate. The Bitrate corresponds to the speed of data transfer that the system will use to record video. Recordings that are encoded at higher bitrates, will be of better quality.

**i-Frame Interval:** Optionally set up an i-Frame interval. For example, if you set up the value as 30, the system will insert an i-Frame every 30 frames to the recording. Note that this function is available for Onvif-supported IP cameras. To enable this function, the protocol of the connected IP camera should select Onvif.

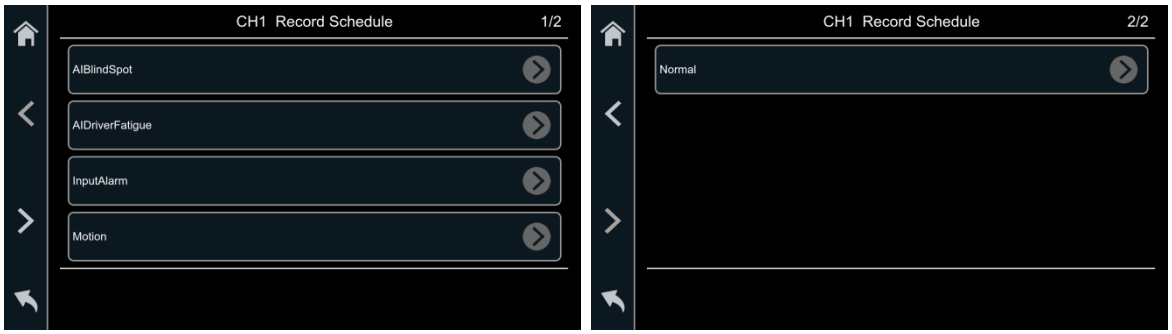
### 3.1.4.3 Audio

If you want to record audio along with video, switch the Audio button **ON** for the desired channels and then click the **Save** button.



### 3.1.4.4 Record Schedule

On this page, you can configure the recording schedule for Normal, Motion, Alarm I/O, or AI Intelligent recordings. Click **Record Schedule** to enter the **Record Schedule** page and then select a channel by clicking on it, the below setup page appears.




Since the record schedule setup steps are the same for each function (Normal, Motion, Alarm I/O, AI Intelligent), here we use Motion record schedule setup for example:

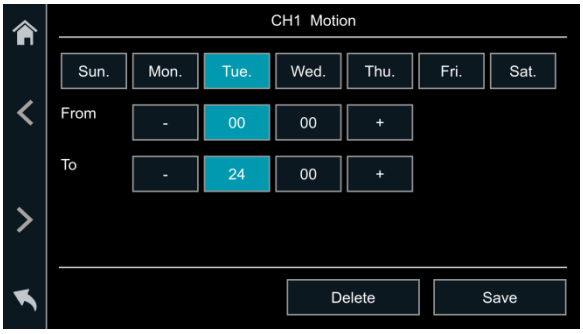
1. Go to OSD Menu > Channel > Record > Record Schedule > Select a Channel > Motion.


**Clear All:** Click to erase all the schedule on the list. You can use the Add button to add schedule to the list.

**Add:** Click to add a schedule to the list.

**Save:** Click to save the settings.

2. Configure the record time schedule for each day of the week. For example, to configure the record time schedule for Tue, click on **Tue**. Use the "+" and "-" buttons to adjust the **Hour** and **Minute** value. Click **Save** to save the settings.

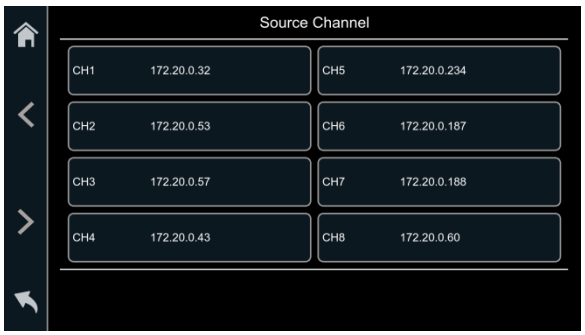



3. You can optionally click the **Add** button (see image on Step 1) to add a schedule to the Motion Schedule list. For example, you can set up 2 record schedule for Sun, e.g. 9am ~ 10am; 2pm ~4pm, by using the Add button.

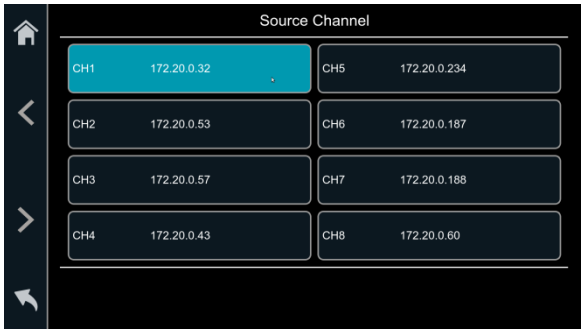
### 3.1.4.5 Copy Parameter

You can apply the same configurations on the Record page from one channel to other channels. For example, if you want to apply the same record schedule and Main Stream, Sub Stream settings from Channel 1 to Channel 5, 6, 7, 8, you can use the Copy Parameter function.

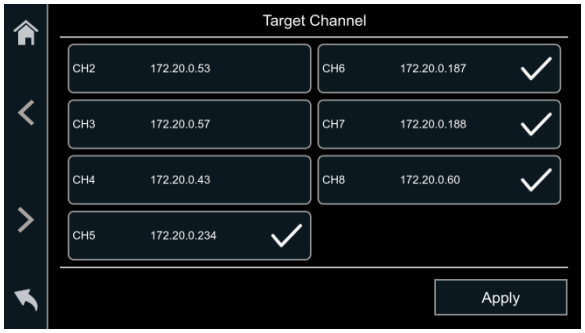
1. Go to OSD Menu > Channel > Record > Copy Parameter, the below **Source Channel** page appears.




2. On the Source Channel page, select a source channel you would like to apply its parameters to other channels by clicking on it.




3. On the Target Channel page, select the channels you would like to apply the same parameters from the source channel.

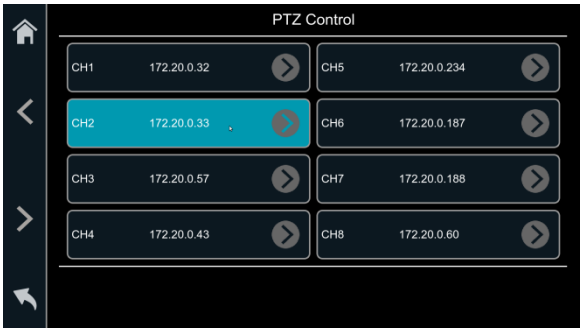



4. Click **Apply** to apply the settings.

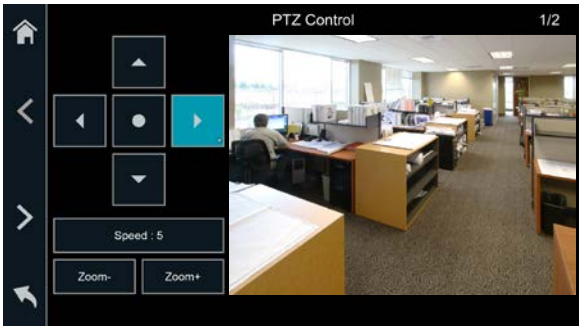
## 3.2 PTZ Control

With the PTZ Control Panel, you can control the connected PTZ cameras using the on-screen PTZ control panel.

1. Ensure the PTZ camera has been connected to the system.
2. On the OSD Menu, click PTZ Control, the below PTZ Control page appears.




3. Click on the channel of the PTZ camera, the PTZ control panel along with camera preview window appear.



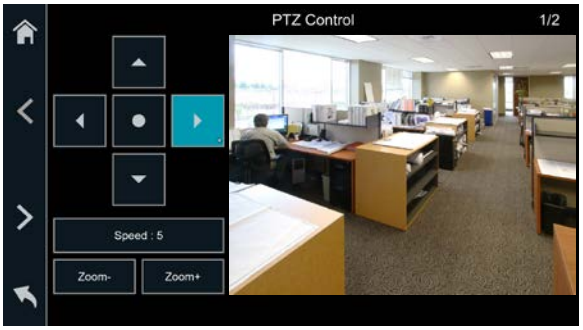

4. You can use the direction buttons or adjust the operation speed to control the PTZ camera; or use the **Zoom-** or **Zoom+** buttons to zoom in/out the camera view.
5. You can optionally set up the preset positions for the PTZ camera. Please refer to *3.2.1 Setting up Preset Positions* for more details.

### 3.2.1 Setting up Preset Positions

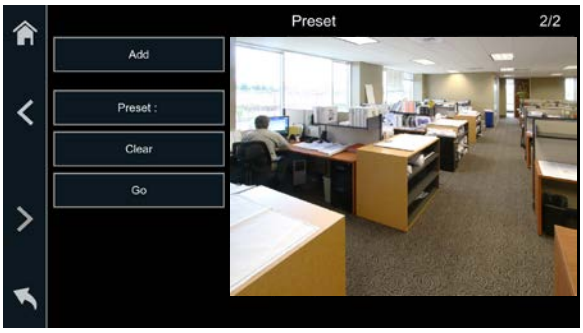
You can set up multiple preset positions and perform the Go to Preset Positions function using this page.

**To set up Preset Positions:**

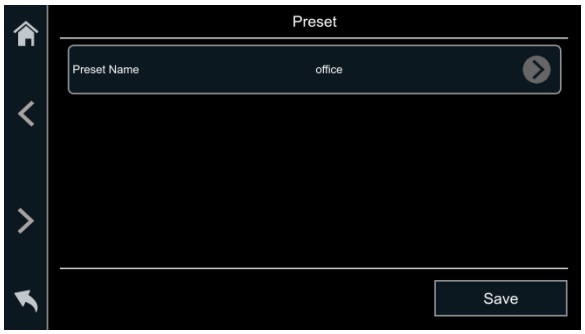
1. Follow **Steps 1-3** in *3.2 PTZ Control* to enter the PTZ Control page.




2. Use the direction buttons or zoom buttons to search for the position where you want to set up a preset position.
3. Click the **>** button to switch to the Preset page on page 2.



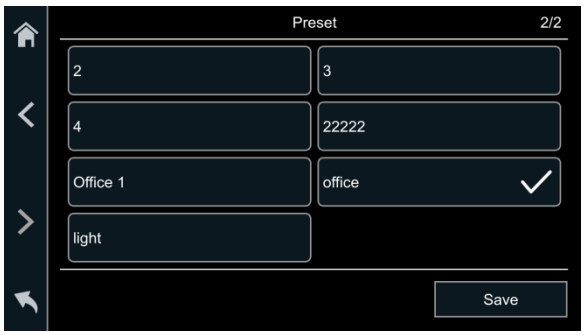

4. Click the **Add** button and input a name for this position.



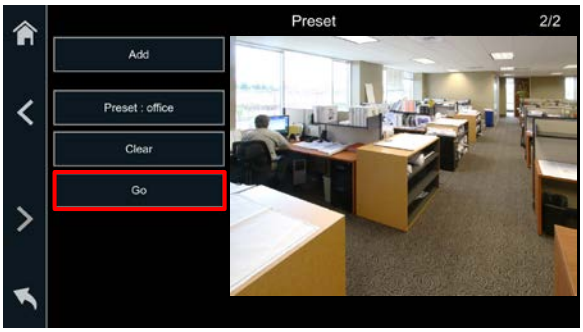

5. Click **Save**, this position has been added to the Preset list.
6. Follow **Steps 1-5** to add more positions.
7. To clear a preset position, on the Preset page, click the **Preset** button to display the Preset list, select a preset position and click **Save**. On the Preset page, click the **Clear** button to clear the preset position.

**To perform the Go to Preset Position function:**

1. Configure the preset positions in advance.
2. On the Preset page, click the **Preset** button to display the Preset list and then select a preset position. Click **Save**.

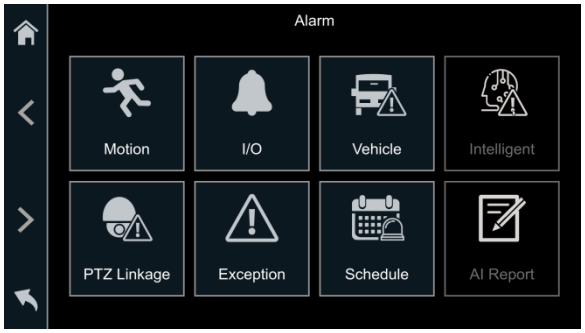



3. On the Preset page, click the **Go** button, the PTZ camera will turn to the selected preset position.



## 3.3 Alarm

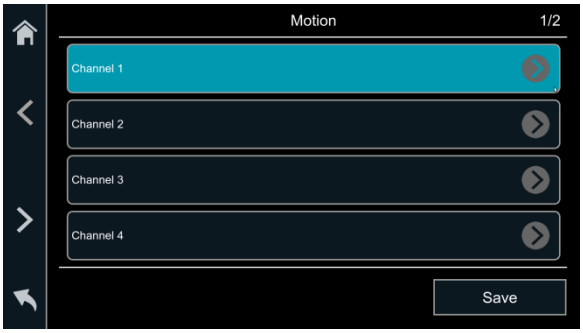
You can configure the alarm settings on this page, including Motion, I/O, Vehicle, Intelligent and system alarm. You can also configure the alarm schedule using this page.



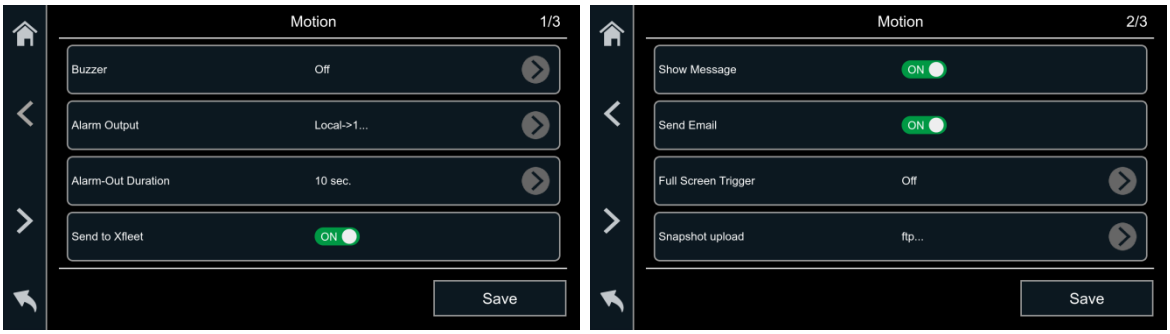

### 3.3.1 Motion

You can configure the motion event actions and notifications on this page. On the OSD menu, go to Alarm > Motion.

1. Ensure the Motion Detection function has been set up and enabled on the camera side. Please refer to the manual of your IP camera.
2. On the OSD menu, click Alarm > Motion to display the below Motion page.




3. Select a channel and click on it. Configure the relative motion event action settings.




**Buzzer:** Select a time for hardware system buzzer to sound when a motion event is triggered. Select **Off** to disable the function.

**Alarm Output:** Select the desired external alarm output device(s) connected to the hardware system (Local) or connected to the IPCam (CH).

**Alarm-Out Duration:** Select an alarm output duration when events occur. When an event is triggered, the alarm will last based on the setup time.

**Send to Xfleet:** Switch the button **ON** to send the alarm data to the Xfleet server. Note that for the Xfleet server to receive alarm data from the IPC system in order to perform the alarm event actions on Xfleet server, this function must be enabled. And the connection between the IPC system and Xfleet server must be established in advance (please refer to *3.4.7 Xfleet*).

**Show Message:** Switch the button **ON** to display the motion icon on the live channel when a motion event is triggered.

**Send Email:** Switch the button **ON** to enable the Email alert function. When a motion event is triggered, the system will send an email alert with a text info to the pre-configured Email receiver. Note that for this function to work, you have to set up the Email function in advance (please refer to *3.4.6 Email*).

**Full Screen Trigger:** If this function is enabled and a motion event is triggered, the triggered channel will be displayed in full screen. You can select to display the full screen on Main Screen or Call Screen (if supported).

**Snapshot Upload:** When a motion event is triggered, the system will take a snapshot image and send to the selected storage server (FTP, Google Drive or MS Azure). Note that for this function to work, you have to set up the relative functions in advance (please refer to *3.7 FTP* and *3.8 Cloud*).


**Video Upload:** When a motion event is triggered, the system will upload the motion event video clips (.avi) to the selected storage server (FTP, Google Drive or MS Azure) or SD Card (has to be pre-installed). Note that for this function to work, you have to set up the relative functions in advance (please refer to *3.7 FTP* and *3.8 Cloud*).

**Record Channel:** Select the desired channel(s) you want to record when a motion event is triggered. Note that for recording function to work, the Record Schedule function has to be configured (please refer to *3.1.4.4 Record Schedule*).

**Pre-Record:** Select a pre-record time when an event is triggered.

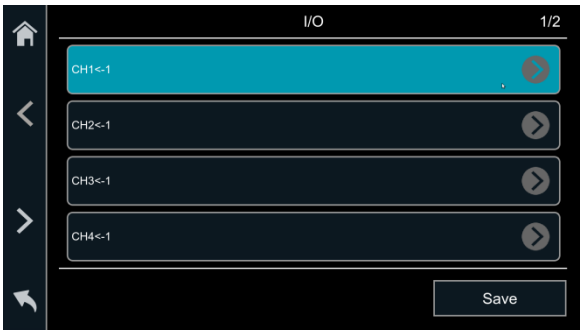
**Post-Record:** Select a post-record time when an event is triggered.

4. Click **Save** to save the settings.

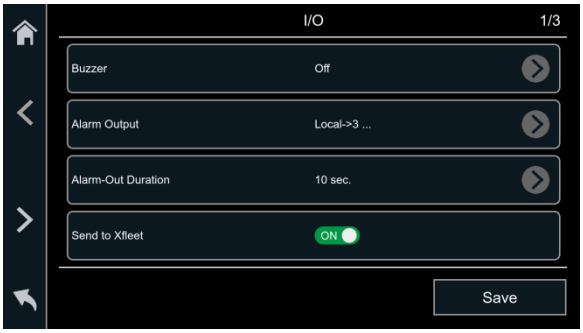
### 3.3.2 I/O

You can configure the alarm I/O event actions and notifications on this page. On the OSD menu, go to Alarm > I/O.

1. Ensure the alarm I/O devices are connected to the hardware system.
2. On the OSD menu, click Alarm > I/O to display the below I/O page.




3. Select a channel and click on it. Configure the relative I/O event action settings.





**Buzzer:** Select a time for hardware system buzzer to sound when an event is triggered. Select **Off** to disable the function.

**Alarm Output:** Select the desired external alarm output device(s) connected to the hardware system (Local) or connected to the IPCam (CH).

**Alarm-Out Duration:** Select an alarm output duration when events occur. When an event is triggered, the alarm will last based on the setup time.

**Send to Xfleet:** Switch the button **ON** to send the alarm data to the Xfleet server. Note that for the Xfleet server to receive alarm data from the IPC system in order to perform the alarm event actions on Xfleet server, this function must be enabled. And the connection between the IPC system and Xfleet server must be established in advance (please refer to *3.4.7 Xfleet*).

**Show Message:** Switch the button **ON** to display the I/O alarm icon on the live channel when an I/O event is triggered.

**Send Email:** Switch the button **ON** to enable the Email alert function. When an I/O event is triggered, the system will send an email alert with a text info to the pre-configured Email receiver. Note that for this function to work, you have to set up the Email function in advance (please refer to *3.4.6 Email*).

**Full Screen Trigger:** If this function is enabled and an I/O event is triggered, the triggered channel will be displayed in full screen. You can select to display the full screen on Main Screen or Call Screen (if supported).

**Snapshot Upload:** When an I/O event is triggered, the system will take a snapshot image and send to the selected storage server (FTP, Google Drive or MS Azure). Note that for this function to work, you have to set up the relative functions in advance (please refer to *3.7 FTP* and *3.8 Cloud*).


**Video Upload:** When an I/O event is triggered, the system will upload the I/O event video clips (.avi) to the selected storage server (FTP, Google Drive or MS Azure) or SD Card (has to be pre-installed). Note that for this function to work, you have to set up the relative functions in advance (please refer to *3.7 FTP* and *3.8 Cloud*).

**Record Channel:** Select the desired channel(s) you want to record when an I/O event is triggered. Note that for recording function to work, the Record Schedule function has to be configured (please refer to *3.1.4.4 Record Schedule*).

**Pre-Record:** Select a pre-record time when an event is triggered.

**Post-Record:** Select a post-record time when an event is triggered.

4. Click **Save** to save the settings.

### 3.3.3 Vehicle

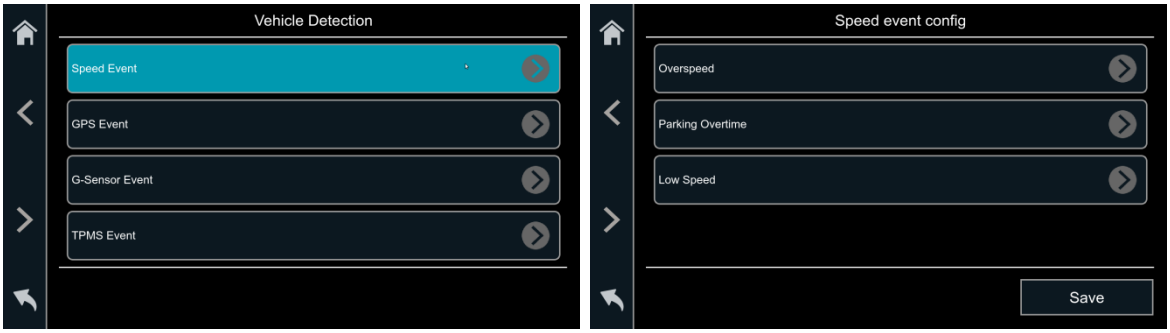
You can configure the vehicle event actions and notifications on this page. The vehicle events include speed, GPS, G-Sensor and tire pressure (TPMS). On the OSD menu, go to Alarm > Vehicle.

#### 3.3.3.1 Speed Event

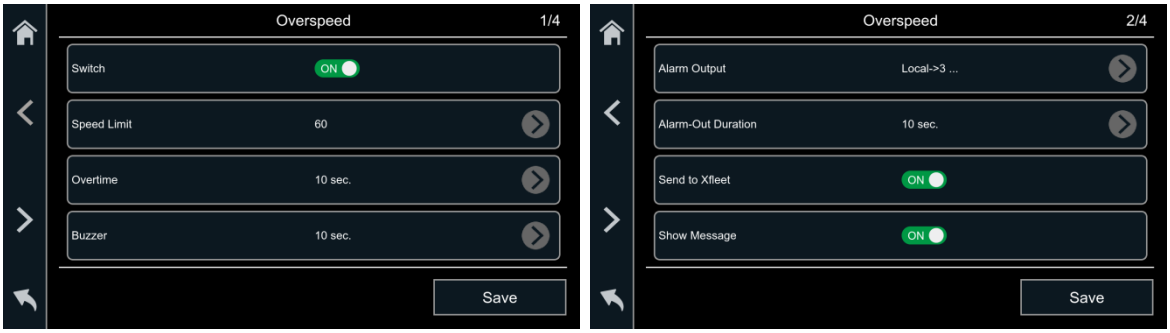
You can set up the speed limit, including Over Speed, Parking Overtime and Low Speed on this page. The speed data is from the GPS device, if you want to enable the speed event function, a GPS device has to be pre-installed to the system.

The configuration steps for Over Speed, Parking Overtime and Low Speed are the same, here we use **Overspeed** for example:

1. Ensure the GPS device has been connected to the hardware system.
2. On the OSD menu, click Alarm > Vehicle > Speed Event to display the below page.




3. Click **Overspeed** to enter the setup page.




**Switch:** Switch the button **ON** to enable the Overspeed event function.

**Speed Limit:** Set up an upper speed limit.

**Overtime:** Set up a time overtime range for the overspeed alarm. When the vehicle speed exceeds the upper limit over the setup time, the Overspeed alarm will be triggered.

**Buzzer:** Select a time for hardware system buzzer to sound when an event is triggered. Select **Off** to disable the function.

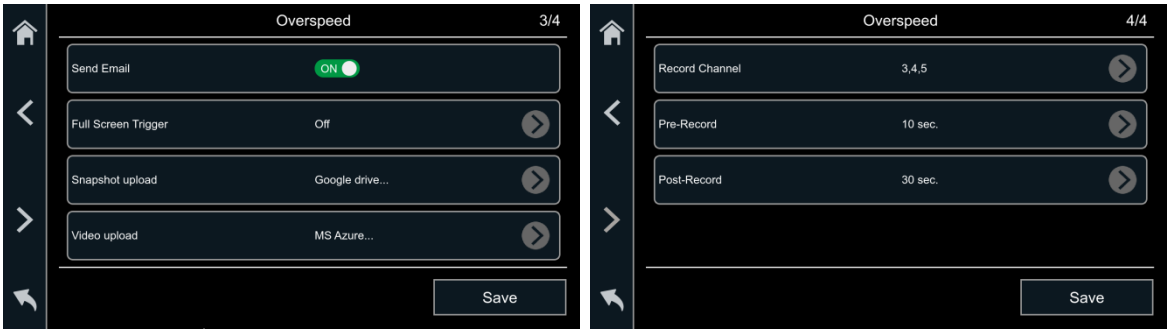
**Alarm Output:** Select the desired external alarm output device(s) connected to the hardware system (Local) or connected to the IPCam (CH).

**Alarm-Out Duration:** Select an alarm output duration when events occur. When an event is triggered, the alarm will last based on the setup time.

**Send to Xfleet:** Switch the button **ON** to send the alarm data to the Xfleet server. Note that for the Xfleet server to receive alarm data from the IPC system in order to perform the alarm event actions on Xfleet server, this function must be enabled. And the connection between the IPC system and Xfleet server must be established in advance (please refer to *3.4.7 Xfleet*).

**Show Message:** Switch the button **ON** to display the alarm icon 

on the live channel when an event is triggered.




**Send Email:** Switch the button **ON** to enable the Email alert function. When an event is triggered, the system will send an email alert with a text info to the pre-configured Email receiver. Note that for this function to work, you have to set up the Email function in advance (please refer to *3.4.6 Email*).

**Full Screen Trigger:** If this function is enabled and an event is triggered, the triggered channel will be displayed in full screen. You can select to display the full screen on Main Screen or Call Screen (if supported).

**Snapshot Upload:** When an event is triggered, the system will take a snapshot image and send to the selected storage server (FTP, Google Drive or MS Azure). Note that for this function to work, you have to set up the relative functions in advance (please refer to *3.7 FTP* and *3.8 Cloud*).

**Video Upload:** When an event is triggered, the system will upload the event video clips (.avi) to the selected storage server (FTP, Google Drive or MS Azure) or SD Card (has to be pre-installed). Note that for this function to work, you have to set up the relative functions in advance (please refer to *3.7 FTP* and *3.8 Cloud*).

**Record Channel:** Select the desired channel(s) you want to record when an event is triggered. Note that for recording function to work, the Record Schedule function has to be configured (please refer to *3.1.4.4 Record Schedule*).

**Pre-Record:** Select a pre-record time when an event is triggered.

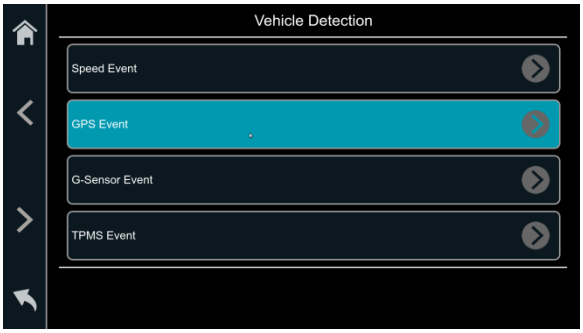
**Post-Record:** Select a post-record time when an event is triggered.

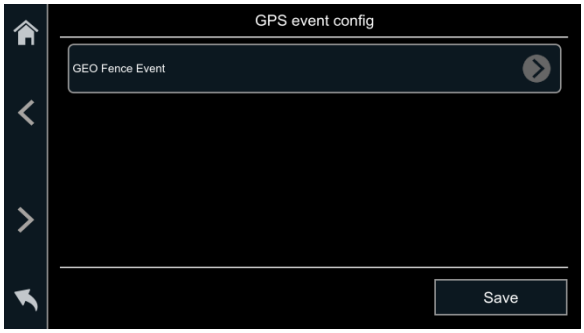
4. Click **Save** to save the settings.

### 3.3.3.2 GPS Event

You can set up a Geofence and apply the alarm activations for the setup Geofence.

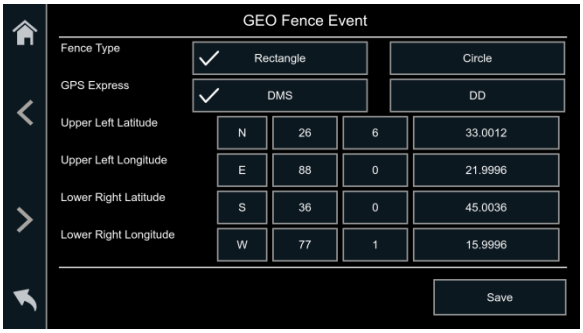
1. Ensure the GPS device has been connected to the hardware system.
2. On the OSD menu, click Alarm > Vehicle > GPS Event to display the below page.

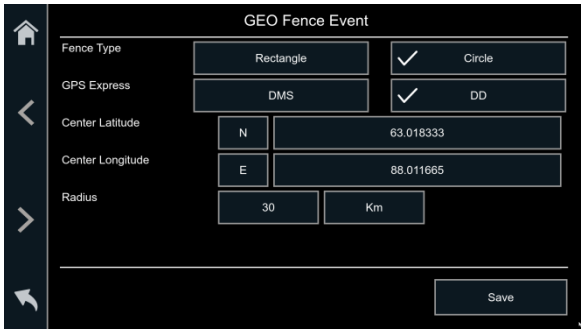



3. Click **GEO Fence Event** to enter the setup page. Switch the button **ON** to enable the GPS event (Geofence) function.

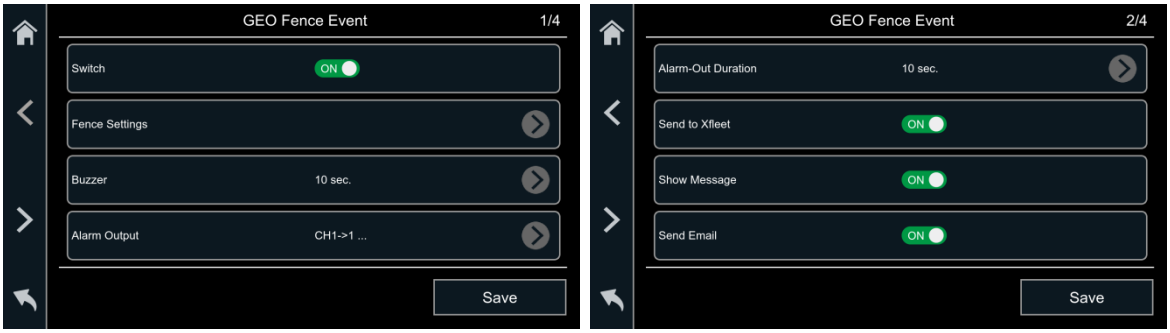

4. To configure a Geofence, click **Fence Settings**.




   a. Select a fence area shape in the Fence Type field. Rectangle or Circle.
   b. Select a GPS coordinate express. DMS (degrees, minutes, seconds) or DD (decimal degrees).
   c. If **Rectangle** is selected, input the coordinates in the Upper Left Latitude/Longitude and Lower Right Latitude/Longitude fields.
   d. If **Circle** is selected, input the coordinates in the center Latitude/Longitude fields. Input a radius and then select a unit (KM or Mile).
   e. Click **Save** to save the settings.

5. Configure the event action and notification functions.




**Switch:** Switch the button **ON** to enable the function.

**Fence Settings:** Refer to **Step 4** above.

**Buzzer:** Select a time for hardware system buzzer to sound when an event is triggered. Select **Off** to disable the function.

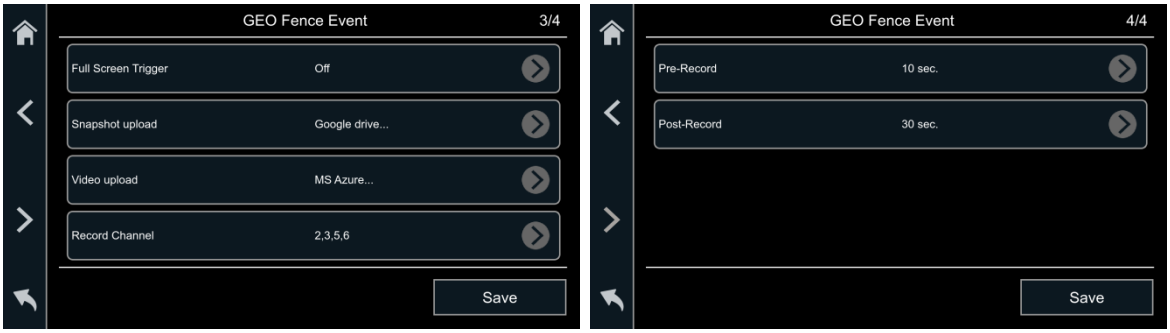
**Alarm Output:** Select the desired external alarm output device(s) connected to the hardware system (Local) or connected to the IPCam (CH).

**Alarm-Out Duration:** Select an alarm output duration when events occur. When an event is triggered, the alarm will last based on the setup time.

**Send to Xfleet:** Switch the button **ON** to send the alarm data to the Xfleet server. Note that for the Xfleet server to receive alarm data from the IPC system in order to perform the alarm event actions on Xfleet server, this function must be enabled. And the connection between the IPC system and Xfleet server must be established in advance (please refer to *3.4.7 Xfleet*).

**Show Message:** Switch the button **ON** to display the alarm icon on the live channel when an event is triggered.

**Send Email:** Switch the button **ON** to enable the Email alert function. When an event is triggered, the system will send an email alert with a text info to the pre-configured Email receiver. Note that for this function to work, you have to set up the Email function in advance (please refer to *3.4.6 Email*).




**Full Screen Trigger:** If this function is enabled and an event is triggered, the triggered channel will be displayed in full screen. You can select to display the full screen on Main Screen or Call Screen (if supported).

**Snapshot Upload:** When an event is triggered, the system will take a snapshot image and send to the selected storage server (FTP, Google Drive or MS Azure). Note that for this

function to work, you have to set up the relative functions in advance (please refer to *3.7 FTP* and *3.8 Cloud*).

**Video Upload:** When an event is triggered, the system will upload the event video clips (.avi) to the selected storage server (FTP, Google Drive or MS Azure) or SD Card (has to be pre-installed). Note that for this function to work, you have to set up the relative functions in advance (please refer to *3.7 FTP* and *3.8 Cloud*).

**Record Channel:** Select the desired channel(s) you want to record when an event is triggered. Note that for recording function to work, the Record Schedule function has to be configured (please refer to *3.1.4.4 Record Schedule*).

**Pre-Record:** Select a pre-record time when an event is triggered.

**Post-Record:** Select a post-record time when an event is triggered.

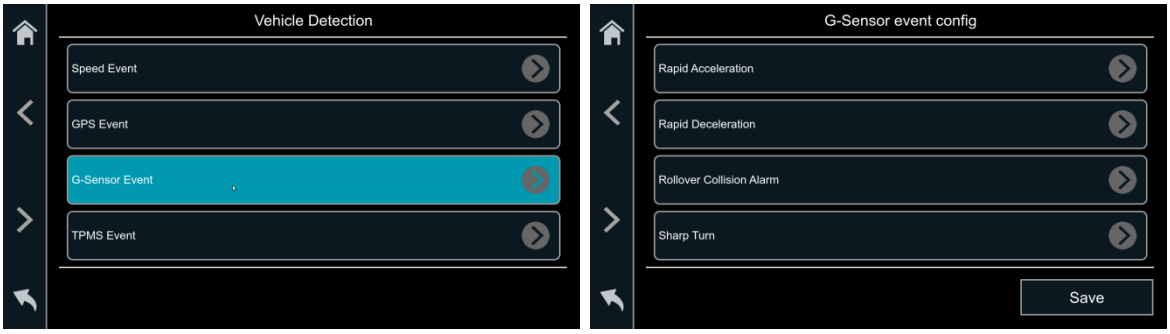
6. Click **Save** to save the settings.

#### 3.3.3.3 G-Sensor Event

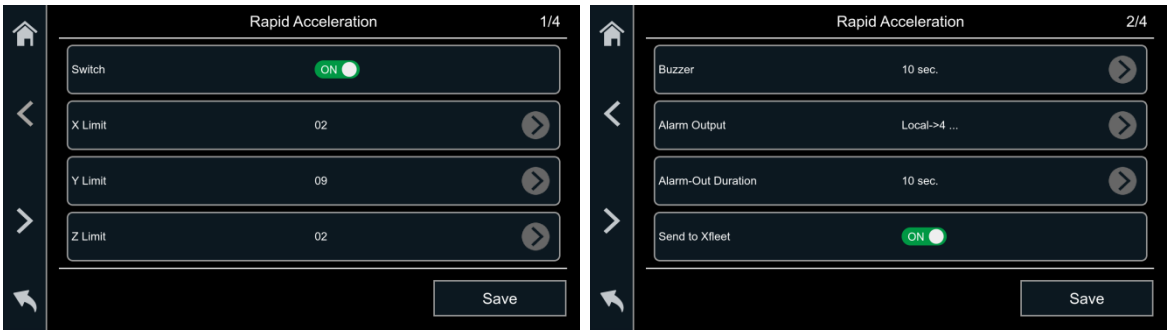
You can configure the gravity value of the X, Y and Z-axial. The G-sensor data can be used to identify when driving behaviors like Rapid Acceleration, Rapid Deceleration, Rollover Collision and Sharp Turn, happen.

The configuration steps for Rapid Acceleration, Rapid Deceleration, Rollover Collision and Sharp Turn are the same. Here we use **Rapid Acceleration** for example:

1. Ensure your system supports the G-sensor function.
2. On the OSD menu, click Alarm > Vehicle > G-Sensor Event to display the below page.




3. Click **Rapid Acceleration** to enter the setup page.




**Switch:** Switch the button **ON** to enable the function.

**X Limit:** Set up the X axial trigger value, the system will trigger the alarm when acceleration reaches this value.

**Y Limit:** Set up the Y axial trigger value, the system will trigger the alarm when acceleration reaches this value.

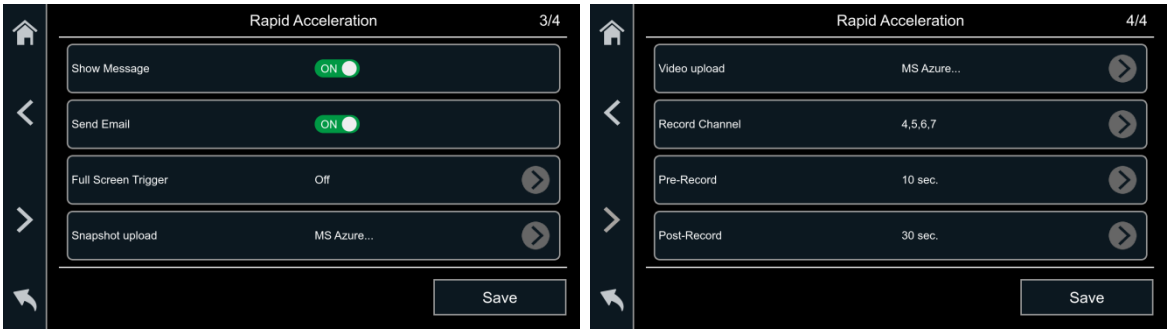
**Z Limit:** Set up the Z axial trigger value, the system will trigger the alarm when acceleration reaches this value.

**Buzzer:** Select a time for hardware system buzzer to sound when an event is triggered. Select **Off** to disable the function.

**Alarm Output:** Select the desired external alarm output device(s) connected to the hardware system (Local) or connected to the IPCam (CH).

**Alarm-Out Duration:** Select an alarm output duration when events occur. When an event is triggered, the alarm will last based on the setup time.

**Send to Xfleet:** Switch the button **ON** to send the alarm data to the Xfleet server. Note that for the Xfleet server to receive alarm data from the IPC system in order to perform the alarm event actions on Xfleet server, this function must be enabled. And the connection between the IPC system and Xfleet server must be established in advance (please refer to *3.4.7 Xfleet*).




**Show Message:** Switch the button **ON** to display the alarm icon on the live channel when an event is triggered.

**Send Email:** Switch the button **ON** to enable the Email alert function. When an event is triggered, the system will send an email alert with a text info to the pre-configured Email receiver. Note that for this function to work, you have to set up the Email function in advance (please refer to *3.4.6 Email*).

**Full Screen Trigger:** If this function is enabled and an event is triggered, the triggered channel will be displayed in full screen. You can select to display the full screen on Main Screen or Call Screen (if supported).

**Snapshot Upload:** When an event is triggered, the system will take a snapshot image and send to the selected storage server (FTP, Google Drive or MS Azure). Note that for this function to work, you have to set up the relative functions in advance (please refer to *3.7 FTP* and *3.8 Cloud*).

**Video Upload:** When an event is triggered, the system will upload the event video clips (.avi) to the selected storage server (FTP, Google Drive or MS Azure) or SD Card (has to be pre-installed). Note that for this function to work, you have to set up the relative functions in advance (please refer to *3.7 FTP* and *3.8 Cloud*).

**Record Channel:** Select the desired channel(s) you want to record when an event is triggered. Note that for recording function to work, the Record Schedule function has to be configured (please refer to *3.1.4.4 Record Schedule*).

**Pre-Record:** Select a pre-record time when an event is triggered.

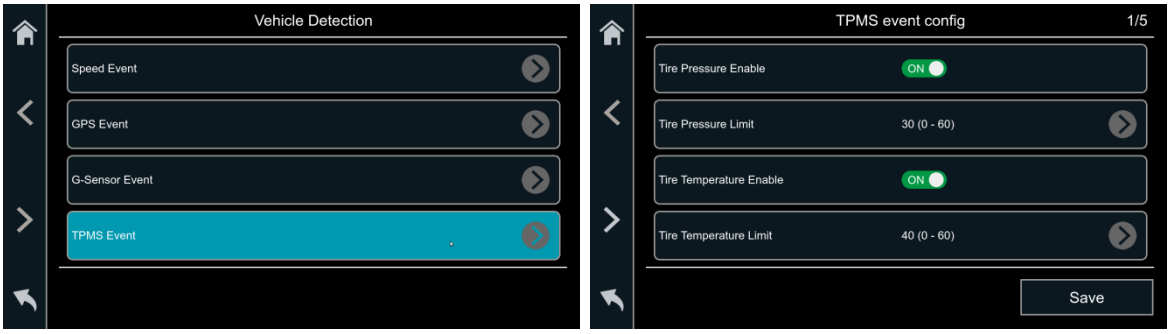
**Post-Record:** Select a post-record time when an event is triggered.

4. Click **Save** to save the settings.

#### 3.3.3.4 TPMS Event

You can configure the Tire Pressure / Temperature event using this page.

1. Ensure the TPMS devices have been connected to the system.
2. On the OSD menu, click Alarm > Vehicle > TPMS Event to display the below page.

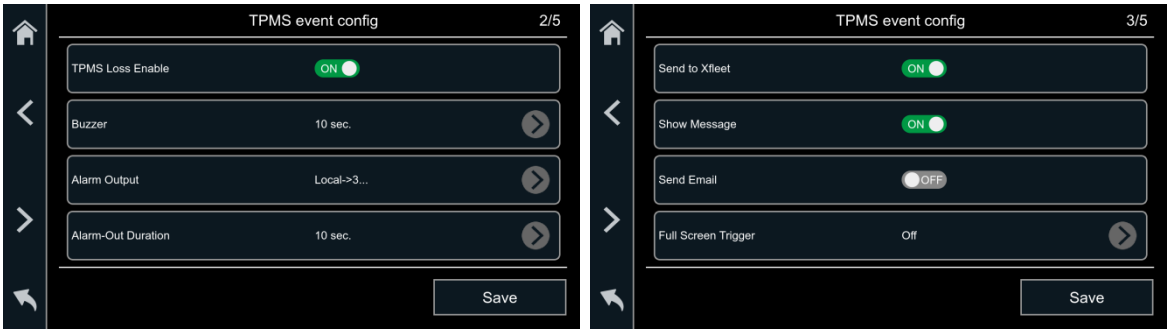



**Tire Pressure Enable:** Switch the button **ON** to enable the function.

**Tire Pressure Limit:** Set up a tire pressure limit. When tire pressure exceeds the setup limit, the system will trigger the alarm.

**Tire Temperature Enable:** Switch the button **ON** to enable the function.

**Tire Temperature Limit:** Set up a tire temperature limit. When tire temperature exceeds the setup limit, the system will trigger the alarm.




**TPMS Loss Enable:** Switch the button **ON** to enable the function.

**Buzzer:** Select a time for hardware system buzzer to sound when an event is triggered. Select **Off** to disable the function.

**Alarm Output:** Select the desired external alarm output device(s) connected to the hardware system (Local) or connected to the IPCam (CH).

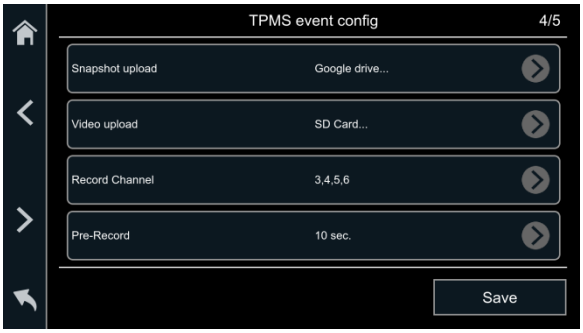
**Alarm-Out Duration:** Select an alarm output duration when events occur. When an event is triggered, the alarm will last based on the setup time.

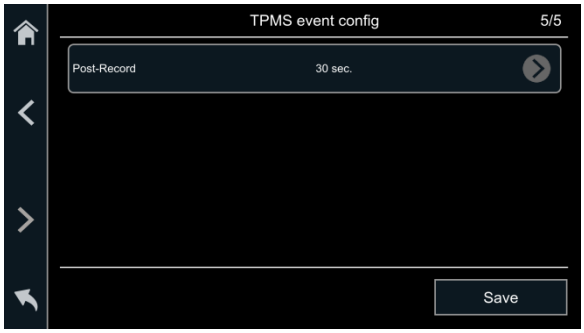
**Send to Xfleet:** Switch the button **ON** to send the alarm data to the Xfleet server. Note that for the Xfleet server to receive alarm data from the IPC system in order to perform the alarm event actions on Xfleet server, this function must be enabled. And the connection between the IPC system and Xfleet server must be established in advance (please refer to *3.4.7 Xfleet*).

**Show Message:** Switch the button **ON** to display the alarm icon on the live channel when an event is triggered.

**Send Email:** Switch the button **ON** to enable the Email alert function. When an event is triggered, the system will send an email alert with a text info to the pre-configured Email receiver. Note that for this function to work, you have to set up the Email function in advance (please refer to *3.4.6 Email*).

**Full Screen Trigger:** If this function is enabled and an event is triggered, the triggered channel will be displayed in full screen. You can select to display the full screen on Main Screen or Call Screen (if supported).




**Snapshot Upload:** When an event is triggered, the system will take a snapshot image and send to the selected storage server (FTP, Google Drive or MS Azure). Note that for this function to work, you have to set up the relative functions in advance (please refer to *3.7 FTP* and *3.8 Cloud*).

**Video Upload:** When an event is triggered, the system will upload the event video clips (.avi) to the selected storage server (FTP, Google Drive or MS Azure) or SD Card (has to be pre-installed). Note that for this function to work, you have to set up the relative functions in advance (please refer to *3.7 FTP* and *3.8 Cloud*).

**Record Channel:** Select the desired channel(s) you want to record when an event is triggered. Note that for recording function to work, the Record Schedule function has to be configured (please refer to *3.1.4.4 Record Schedule*).

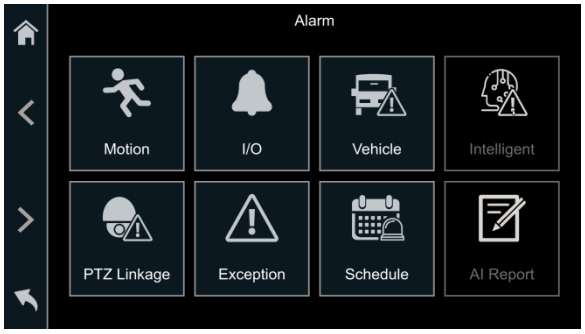
**Pre-Record:** Select a pre-record time when an event is triggered.

**Post-Record:** Select a post-record time when an event is triggered.

3. Click **Save** to save the settings.

### 3.3.4 Intelligent

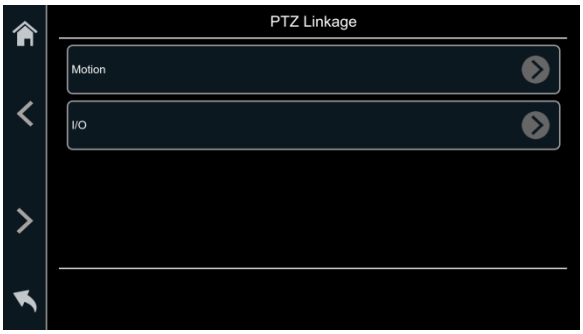
You can configure the Intelligent alarm actions and notifications using this page. The Intelligent function is project-based and required specific firmware. Please consult with EverFocus for more details ts@everfocus.com.tw.



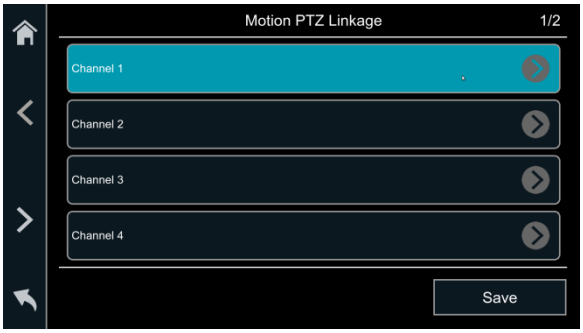
### 3.3.5 PTZ Linkage

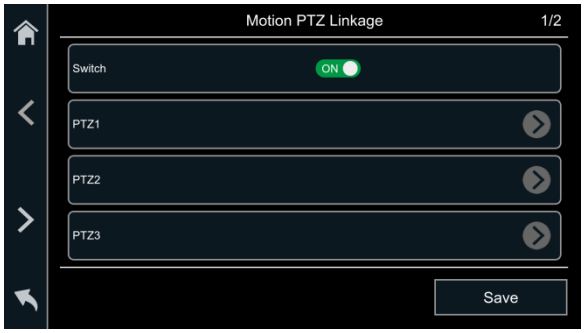
You can associate an alarm trigger (motion or I/O) with a specific camera and then activate a PTZ camera to go to a preset position when the alarm is triggered. When an even is triggered on a camera, the associated PTZ camera will turn to the preset position.

1. Ensure the PTZ cameras have been connected to the hardware system and set up the preset positions of your PTZ cameras in advance (please refer to *3.2.1 Setting up Preset Positions*).
2. On the OSD menu, click Alarm > PTZ Linkage to display the below page.

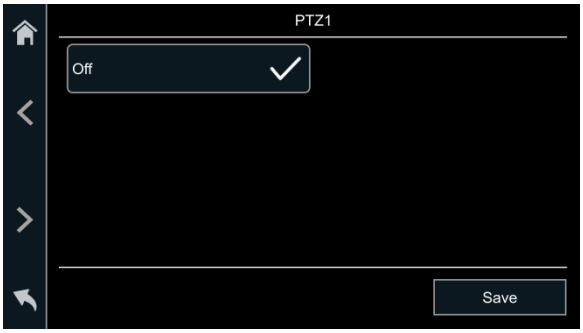



3. Select an event (Motion or I/O) and configure the relative settings. Here we use **Motion** for example. Select a channel to associate with a PTZ camera, the Motion PTZ Linkage page appears. Switch the button **ON** to enable the function.



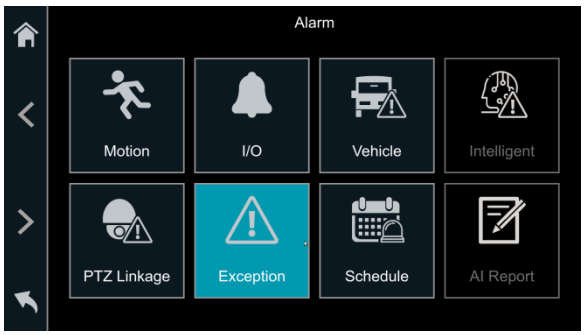

4. Select a PTZ camera to be associated with the selected camera on **Step 3**, the PTZ setup page appears. Select a preset position.

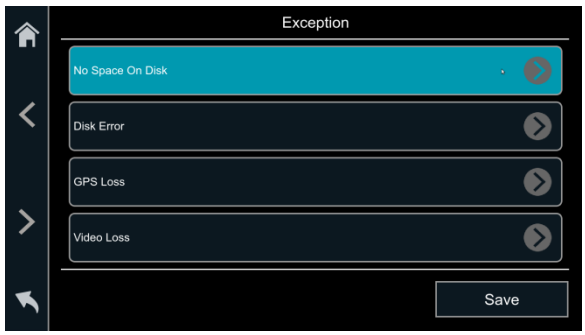



After setting up the preset positions, click to configure a PTZ camera and the preset number. If the PTZ camera is assigned to CH2, select CH2 from the channel dropdown list and then select a desired preset position.

### 3.3.6 Exception

You can configure system alarm event actions and notifications on this page. On the OSD menu, go to Alarm > Exception.

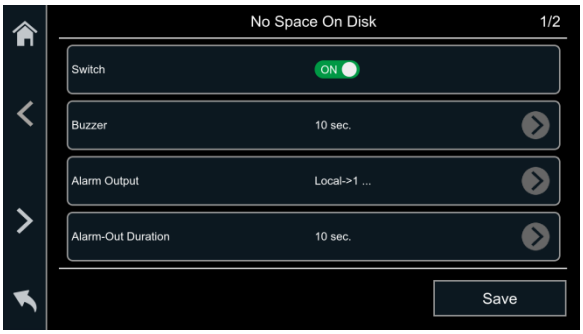


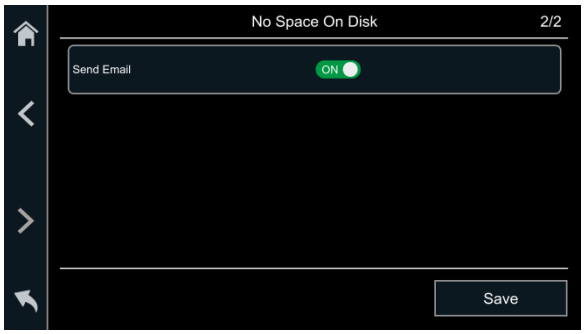




#### 3.3.6.1 No Space On Disk

You can configure multiple alarm actions when capacity of storage device is full.

1. On the OSD menu, click Alarm > Exception > No Space On Disk to display the below page.




**Switch:** Switch the button **ON** to enable the function.

**Buzzer:** Select a time for hardware system buzzer to sound when an event is triggered. Select **Off** to disable the function.

**Alarm Output:** Select the desired external alarm output device(s) connected to the hardware system (Local) or connected to the IPCam (CH).

**Alarm-Out Duration:** Select an alarm output duration when events occur. When an event is triggered, the alarm will last based on the setup time.

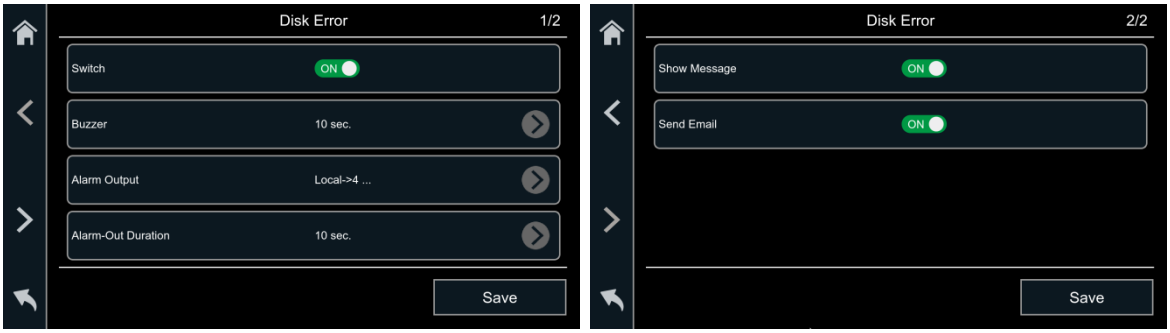
**Send Email:** Switch the button **ON** to enable the Email alert function. When an event is triggered, the system will send an email alert with a text info to the pre-configured Email receiver. Note that for this function to work, you have to set up the Email function in advance (please refer to *3.4.6 Email*).

2. Click **Save** to save the settings.

### 3.3.6.2 Disk Error

You can configure multiple alarm actions when storage device(s) are not detected properly.


1. On the OSD menu, click Alarm > Exception > Disk Error to display the below page.




**Switch:** Switch the button **ON** to enable the function.

**Buzzer:** Select a time for hardware system buzzer to sound when an event is triggered. Select **Off** to disable the function.

**Alarm Output:** Select the desired external alarm output device(s) connected to the hardware system (Local) or connected to the IPCam (CH).

**Alarm-Out Duration:** Select an alarm output duration when events occur. When an event is triggered, the alarm will last based on the setup time.

**Show Message:** Switch the button **ON** to display the alarm icon on the live channel when an event is triggered.

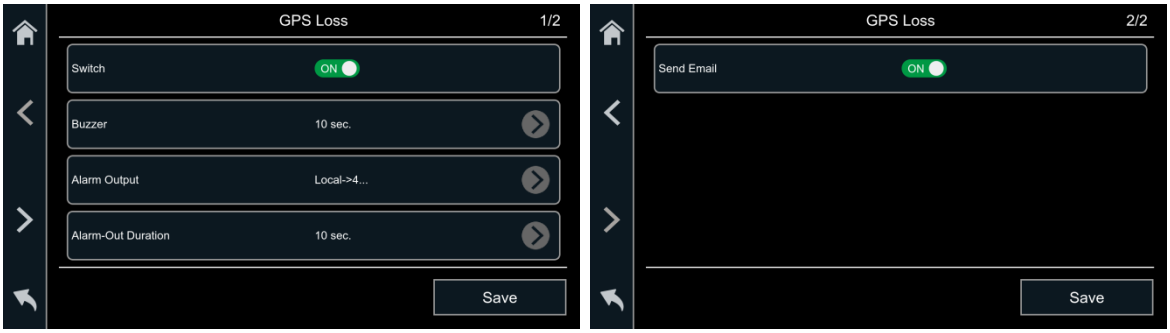
**Send Email:** Switch the button **ON** to enable the Email alert function. When an event is triggered, the system will send an email alert with a text info to the pre-configured Email receiver. Note that for this function to work, you have to set up the Email function in advance (please refer to *3.4.6 Email*).

2. Click **Save** to save the settings.

### 3.3.6.3 GPS Loss

You can configure multiple alarm actions when GPS loss connection.


1. On the OSD menu, click Alarm > Exception > GPS Loss to display the below page.




**Switch:** Switch the button **ON** to enable the function.

**Buzzer:** Select a time for hardware system buzzer to sound when an event is triggered. Select **Off** to disable the function.

**Alarm Output:** Select the desired external alarm output device(s) connected to the hardware system (Local) or connected to the IPCam (CH).

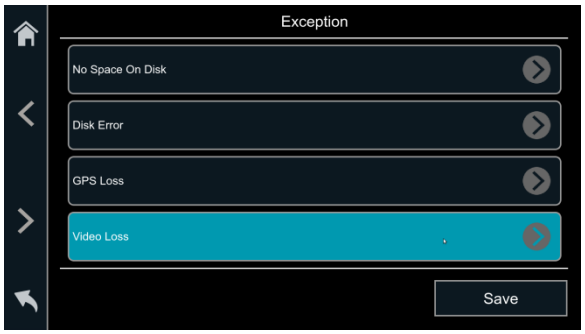
**Alarm-Out Duration:** Select an alarm output duration when events occur. When an event is triggered, the alarm will last based on the setup time.

**Send Email:** Switch the button **ON** to enable the Email alert function. When an event is triggered, the system will send an email alert with a text info to the pre-configured Email receiver. Note that for this function to work, you have to set up the Email function in advance (please refer to *3.4.6 Email*).

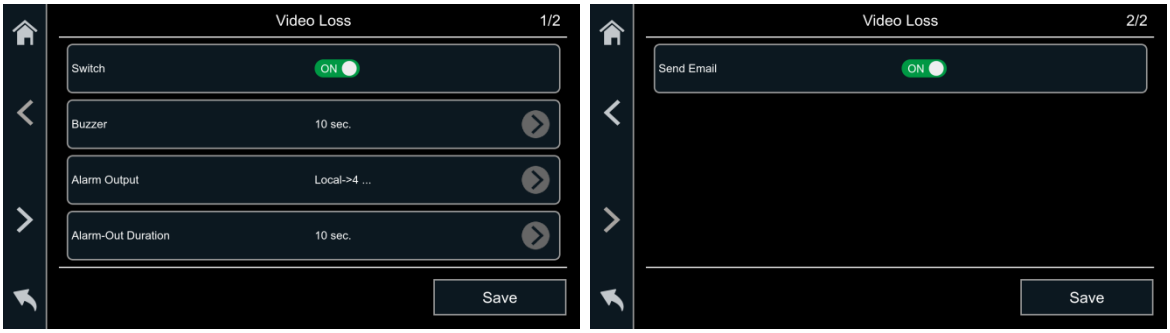
2. Click **Save** to save the settings.

### 3.3.6.4 Video Loss

You can configure multiple alarm actions when video streams loss connection.




1. On the OSD menu, click Alarm > Exception > Video Loss to display the below page.




**Switch:** Switch the button **ON** to enable the function.

**Buzzer:** Select a time for hardware system buzzer to sound when an event is triggered. Select **Off** to disable the function.

**Alarm Output:** Select the desired external alarm output device(s) connected to the hardware system (Local) or connected to the IPCam (CH).

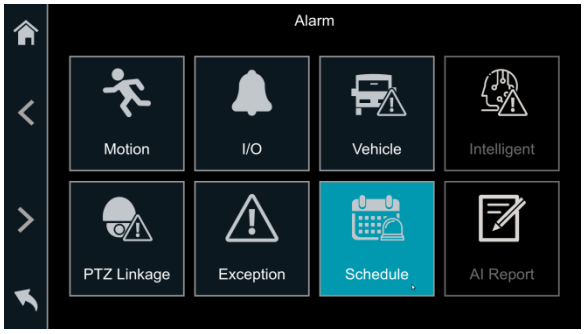
**Alarm-Out Duration:** Select an alarm output duration when events occur. When an event is triggered, the alarm will last based on the setup time.

**Send Email:** Switch the button **ON** to enable the Email alert function. When an event is triggered, the system will send an email alert with a text info to the pre-configured Email receiver. Note that for this function to work, you have to set up the Email function in advance (please refer to *3.4.6 Email*).

2. Click **Save** to save the settings.

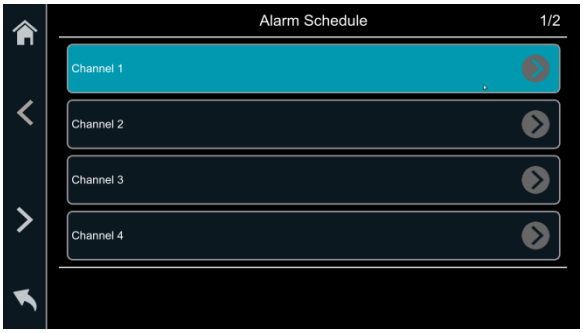
### 3.3.7 Schedule (Alarm Schedule)

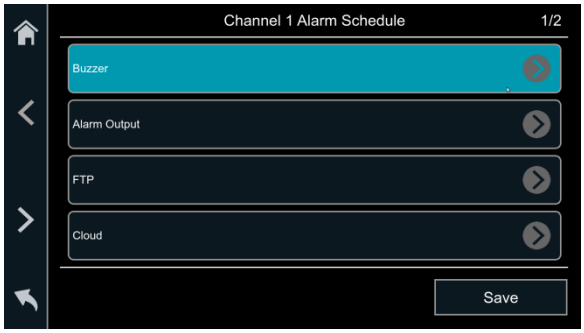
You can configure the schedule to activate the alarm functions for each channel; including Buzzer, Alarm Output (from both system and IP camera), FTP Upload, Cloud, SD card and Email. On the OSD menu, click Alarm > Schedule to enter this page.



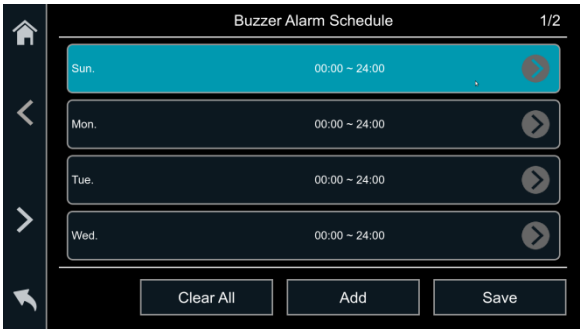

The Alarm Schedule configuration steps for Buzzer, Alarm Output, FTP Upload, Cloud, SD card and Email are the same, here we use **Buzzer** for example:

1. Ensure the Buzzer alarm has been enabled for the relative alarm functions.
2. On the OSD menu, click Alarm > Schedule to enter the Alarm Schedule setup page, select a channel by clicking on it and then click **Buzzer**.




3. After clicking on **Buzzer**, the Buzzer Alarm Schedule page appears.

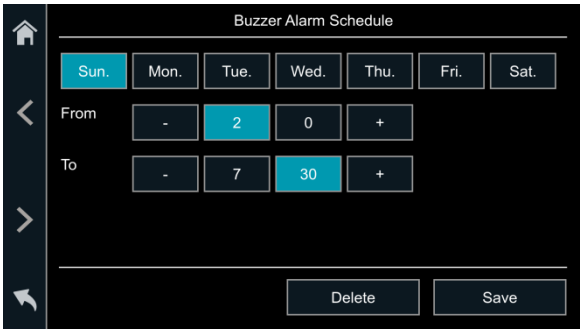



**Clear All:** Click to erase all the schedule on the list. You can use the Add button to add schedule to the list.

**Add:** Click to add a schedule to the list.

**Save:** Click to save the settings.

4. Configure the alarm time schedule for each day of the week. For example, to configure the alarm time schedule for Tue, click on **Tue**. Use the "+" and "-" buttons to adjust the **Hour** and **Minute** value. Click **Save** to save the settings.



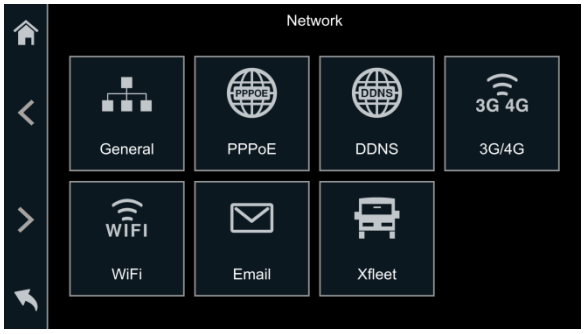

5. You can optionally click the **Add** button (see image on Step 3) to add a schedule to the Buzzer Alarm Schedule list. For example, you can set up 2 alarm schedule for Sun, e.g. 9am ~ 10am; 2pm ~4pm, by using the Add button.

### 3.3.8 AI Report

You can generate Intelligent report using this page. The Intelligent function is project-based and required specific firmware. Please consult with EverFocus for more details ts@everfocus.com.tw.

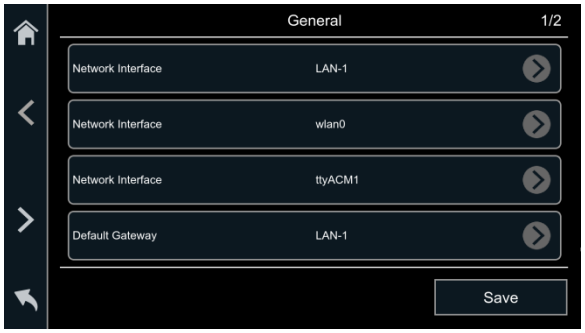
## 3.4 Network

To configure system network, click the **Setup** button on the lower-right corner of the Live View window to bring-up the OSD menu, and then go to Network.




### 3.4.1 General

You can use this page to configure system network with **Static IP** or **DHCP**.





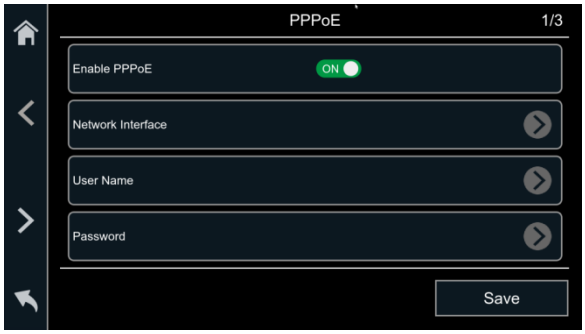
1. On the OSD menu, go to Network > General > LAN-1.
2. To configure the system with a static IP address, switch the **DHCP** button **OFF** and then manually input the IP address, subnet mask and gateway. Click **Save** to save the settings.
3. To configure the system network with DHCP, switch the **DHCP** button **ON** and the DHCP server in LAN will automatically assign an IP configuration for the network connection. Click **Save** to save the settings.

### 3.4.2 PPPoE

You can use this page to configure system network with **PPPoE**.

The PPPoE is a DSL-connection application. The ISP (Internet Service Provider) will ask the user to input a username and password. Please contact your ISP for these details.

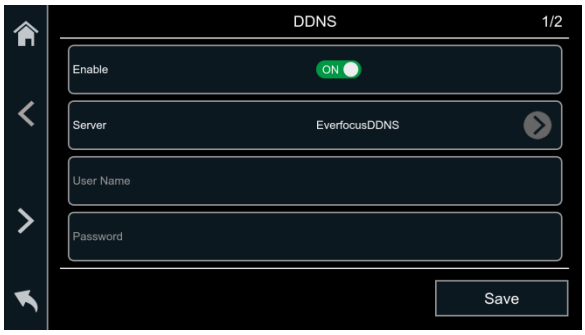
Switch the **Enable PPPoE** button **ON**, and then select a Network Interface if your system supports multiple LAN ports. Enter the User name and Password provided by the ISP. Click **Save** to save the settings.



### 3.4.3 DDNS

You can configure the DDNS setting on this page. DDNS (Dynamic Domain Name System) is a service used to map a domain name to the dynamic IP address of a network device. You can set up the DDNS service for remote access to the system.

DDNS assigns a domain name (URL) to the system, so that the user does not need to go through the trouble of checking if the IP address assigned by DHCP Server has changed. Once the IP is changed, the system will automatically update the information to the DDNS to ensure it is always available for remote access.





**Enable:** Switch the button **ON** to enable the DDNS function.

**Server:** Select a DDNS service provider. It's recommended to use EverFocus DDNS server. Please refer to *3.4.3.1 EverFocus DDNS* for more details.

**User Name:** Input the user name of the DDNS server.

**Password:** Input the password of the DDNS server.

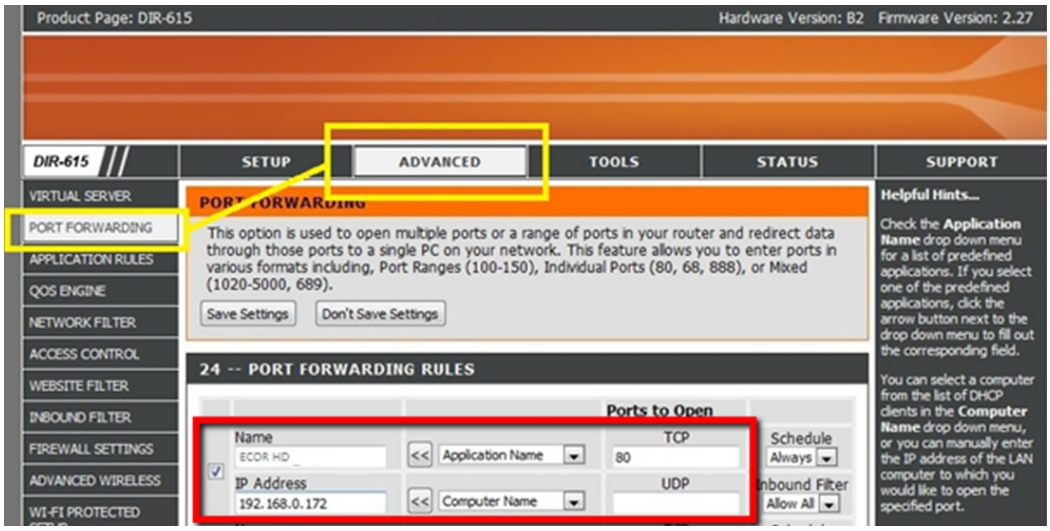
**Domain:** Input the domain name obtained from the DDNS service provider.

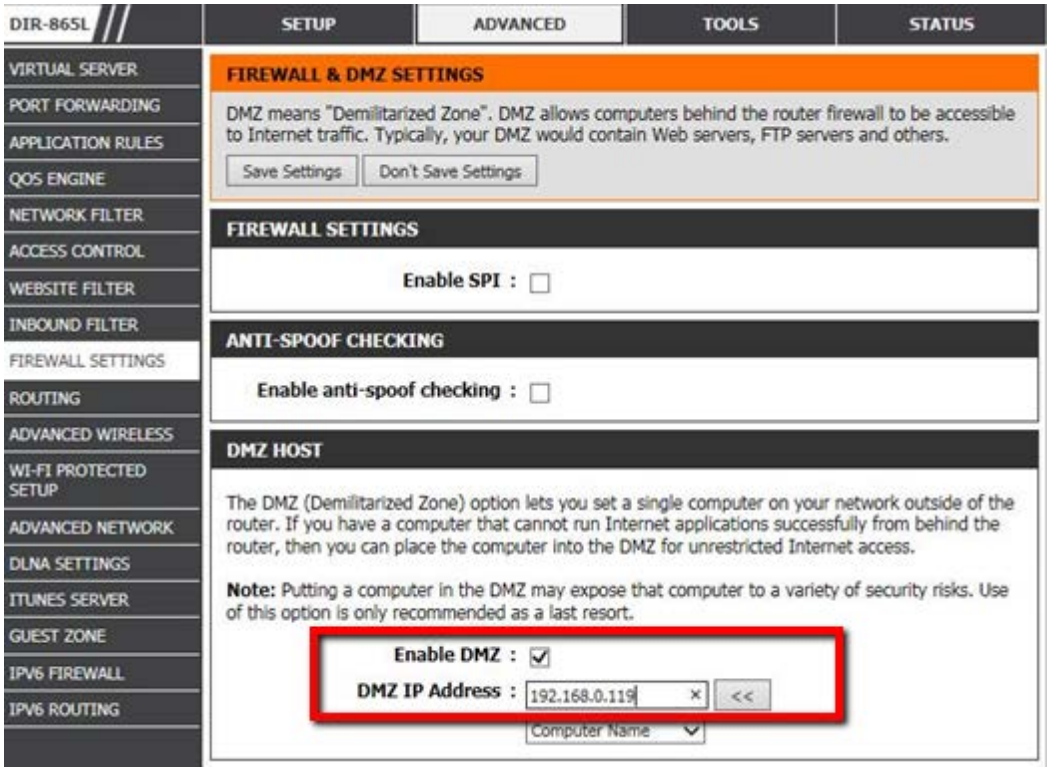
### 3.4.3.1 EverFocus DDNS

Please follow the steps below to enable the DDNS function. On the OSD menu, click Network > DDNS, and select EverfocusDDNS in the Server field.

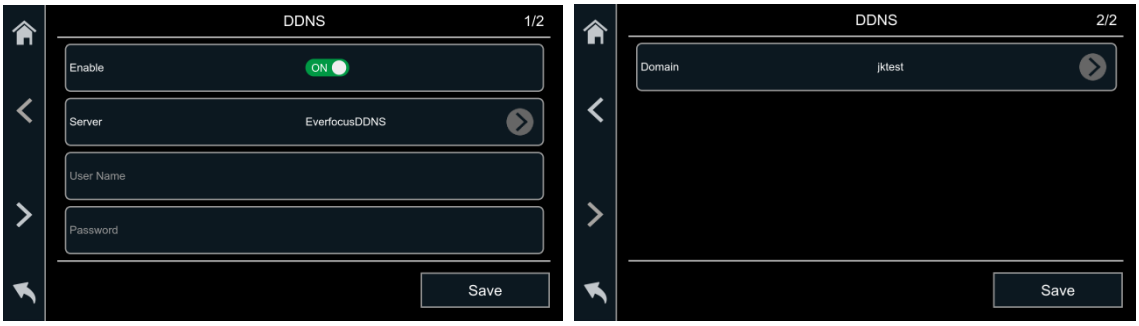
**Setting up EverFocus DDNS**

1. In order to allow remote access to the system from outside of the local network, enable either the **Port Forwarding** or **DMZ** function of your router. Please refer to the manual of your router for more details. Note that if your network is setup with PPPoE, you can skip this step.



2. Configure EverFocus DDNS settings.




   a. Switch the Enable button **ON** to enable the DDNS function.
   b. Select **EverfocusDDNS** in the Server field.
   c. Input a host name in the **Domain** field. You can directly register a host name from EverFocus DDNS server. To do so:
      i. Input a host name in the **Domain** field.
      ii. Click the **Save** button for EverFocus DDNS server to check whether the host name is available. Note that the host name cannot include a space, underline or any special characters particularly _~ ! @ # $ % ^ & * ( ) + < > " ; : . ,

3. The DDNS setup is now complete. Open a browser and enter the domain name (http://[host name].everfocusddns.net) in the address field. The Web interface of the system should be displayed.

### 3.4.4 3G/4G

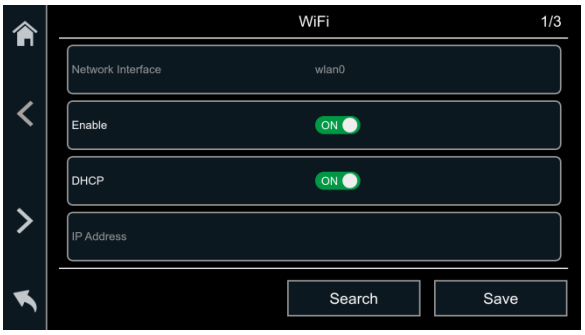
You can use this page to configure system network with **3G/4G**, go to OSD menu > Network > 3G/4G.

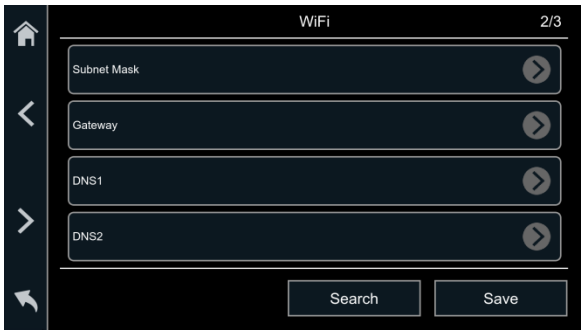


1. Ensure the 3G/4G module and antenna have been installed properly on the system.
2. Switch the **Enable** button **ON**.
3. Input the APN, Dial Number, User Name and Password provided by the network service provider and then click the **Save** button.
4. When the system is connected to 3G/4G network, the connection status will display “connected” in the **Network Status** field. The information about the Internet Service Provider (ISP) along with signal strength (0~100) and data rate will be displayed in the relative column fields.


### 3.4.5 WiFi

You can use this page to connect to **WiFi** network, go to OSD menu > Network > WiFi.




**Enable**: Switch the button **ON** to enable the WiFi function.

**DHCP**: Switch the button **ON** for DHCP server in LAN to automatically assign an IP. Switch the button **OFF** and then set up a fixed IP address for network connection.

**IP address:** Displays the system's current IP Address. A static IP address must be set manually. If DHCP is selected, this value will be assigned automatically.

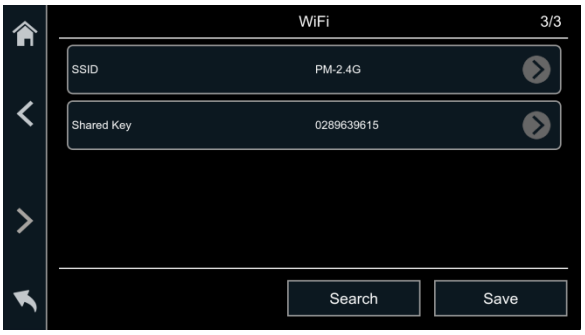
**Subnet Mask:** Displays the subnet mask for your network so the system will be recognized within the network. If DHCP is selected, this value will be assigned automatically.

**Gateway:** Displays the gateway on your network for the system to use when communicating with any devices not on the local network. If DHCP is selected, this value will be assigned automatically.

**DNS 1:** Displays the primary DNS server for your network. If DHCP is selected and an internet connection is available, this value should be assigned automatically. This field must have a valid DNS address in order to use the DDNS feature (see *3.4.3 DDNS*).

**DNS 2:** This field shows the secondary DNS server for your network.

**SSID:** Click to enter the name (SSID) of the wireless network; or click the **Search** button to search for the available WiFi network.

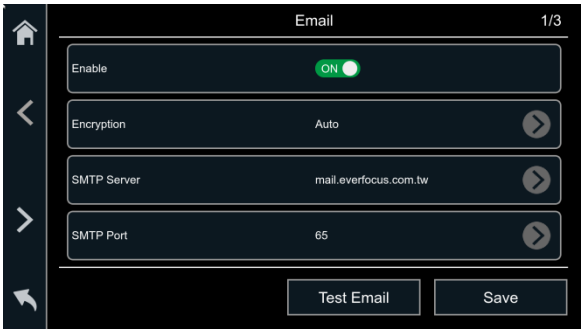



**Shared Key:** Enter the password of the wireless network.

**Save:** Click to save the settings.

### 3.4.6 Email

You can configure email settings for sending email alerts (text) on this page. To configure Email alarm, please refer to **Send Email** of each alarm function in *3.3 Alarm*. To configure Email alarm schedule, please refer to *3.3.7 schedule*. On the OSD menu, click Network > Email.





**Enable**: Switch the button **ON** to enable the function.

**Encryption:** Select an encryption if your Email server requires the **SSL** or **TLS** verification. Select **Auto** if you are not sure. Select **Disable** to disable this function.

**SMTP Server:** Enter the SMTP server address of your Email.

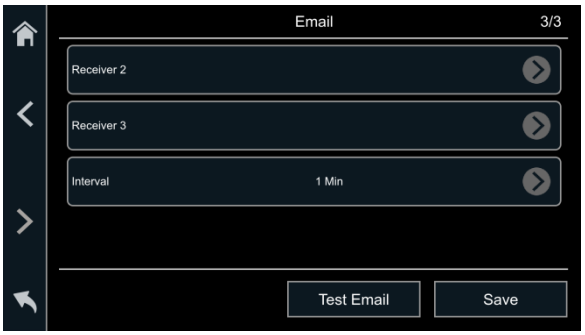
**SMTP Port:** Enter the port number used by the SMTP server.

**User Name:** Input your **Email** address.

**Password:** Input the **password** of the sender.

**Sender:** Input the Email **address** of the sender (the system).

**Receiver1-3:** Input the **Email** address of the receiver. You can input 3 receiver email addresses.



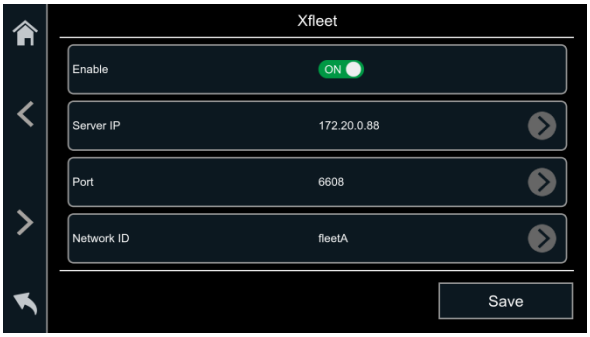

**Interval:** Configure an interval to send Emails when events occur.

**Test Email:** Click to **test** whether the Email function is working properly.

**Save:** Click to save the settings.

### 3.4.7 Xfleet

If you are using EverFocus Xfleet server for fleet management, you can use this page to set up connection between your system and Xfleet server.




Xfleet is a Web-based fleet management system which integrates GPS positioning, 3G/4G mobile wireless communication and GIS (Geographic Information System) techniques, allowing users to easily track, monitor and manage any type of fleet vehicles on a Web browser anywhere and anytime.

With Xfleet, not only can you reduce overall costs by effectively utilizing resources such as vehicles, fuel, and manpower, but you can improve the management efficiency and business performance by keeping and analyzing the historical records (graphical reports) of the vehicle data as needed.

Go to OSD menu > Network > Xfleet to display the above page. To successfully establish the connection between the system and Xfleet server, enable the Xfleet function and enter the IP Address and Port Number (6608) of the Xfleet server. Input a Network ID for your IPC system, which will be used on the Xfleet server. Click **Save** to save the settings.

After configuring the Xfleet settings, you need to build up connection on the Xfleet server side. Please refer to the manual of Xfleet Management System.

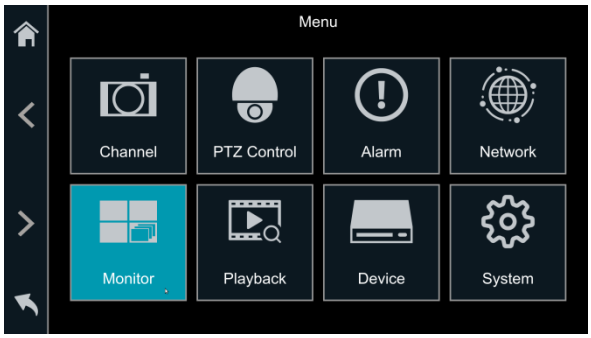
### 3.4.8 PoE Status

This page is only available for certain models that support PoE card in the system.


Go to OSD menu > Network > PoE Status and you can view the PoE status. If the PoE ports are connected with devices, the status will show **On**, otherwise, **Off** will be shown.

## 3.5 Monitor

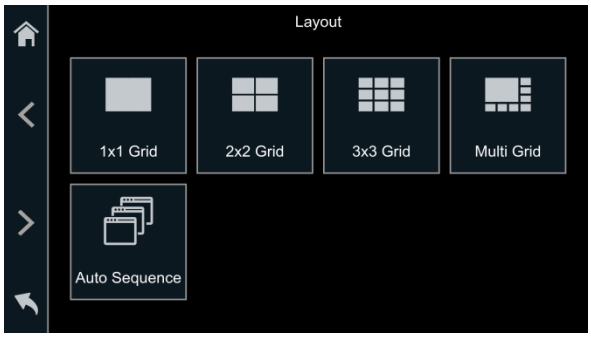
You can select the desired layout for live view displaying, or configure the sequence order for the main monitor using this page. Click the **Setup** button on the lower-right corner of the Live View window to bring-up the OSD menu, and then go to Monitor.




### 3.5.1 Layout

You can select the desired Layout using the Layout or configure the sequence order for the main monitor using this page. On the OSD menu, click Monitor > Layout.

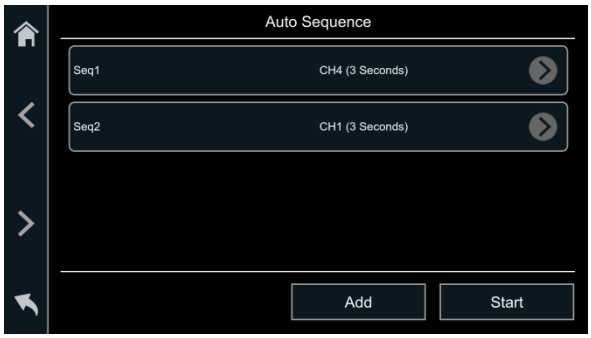
To select a layout, on the OSD menu, click Monitor > Layout and directly click on the layout icon.



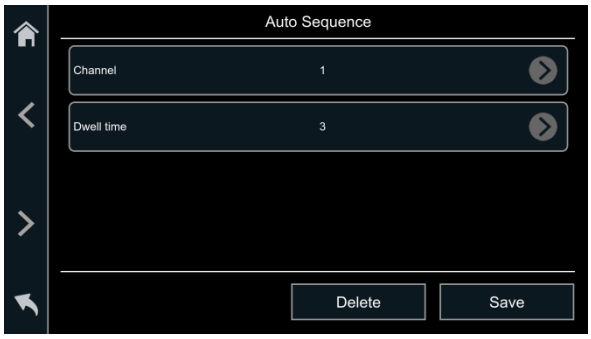
#### 3.5.1.1 Auto Sequence

You can configure up to 10 sequence numbers of the sequencing order for the Main monitor. The Sequence will repeat continuously from number 1 to number 10 until you click the **Stop** button.

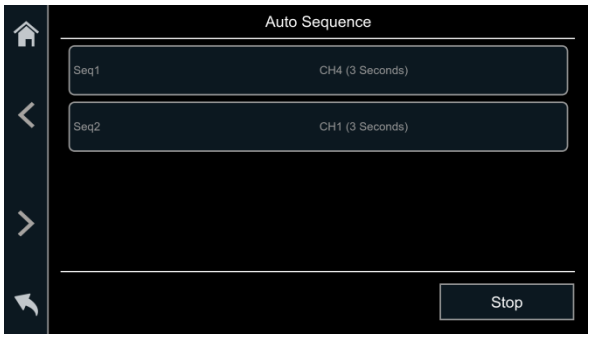
1. On the OSD menu, click Monitor > Layout > Auto Sequence.
2. Click the **Add** button to add sequence channel to the Auto Sequence list.




3. Select a channel in the Channel field and then set up the dwell time for this channel.




4. Click **Save**, this sequence channel has been added to the list.
5. Follow **Step 1** to **Step 4** to add up to 10 sequence channels.
6. To start the Sequence function, click the **Start** button, and the system will turn to the main page and display in Sequence mode.
7. To stop the Sequence mode, go to Monitor > Layout > Auto Sequence, and click the **Stop** button.



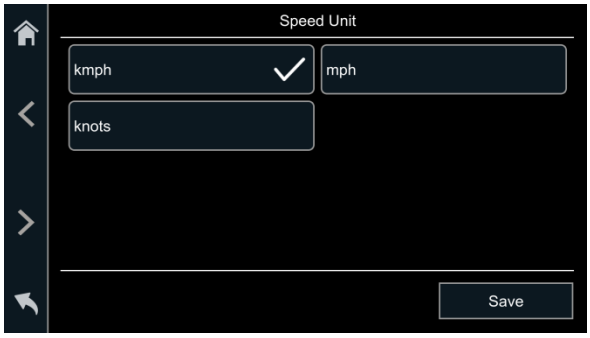
### 3.5.2 Call Monitor

This function is currently reserved.

### 3.5.3 Monitor OSD

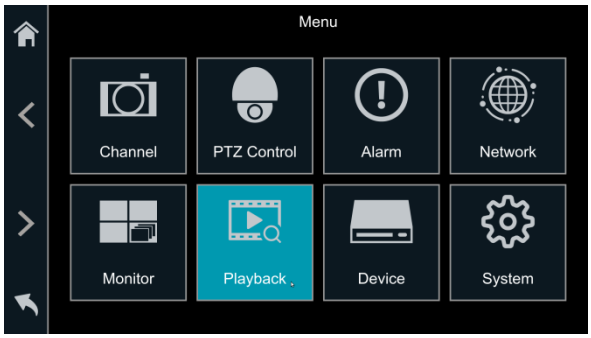
You can select the unit of the speed displaying on the Live View page.

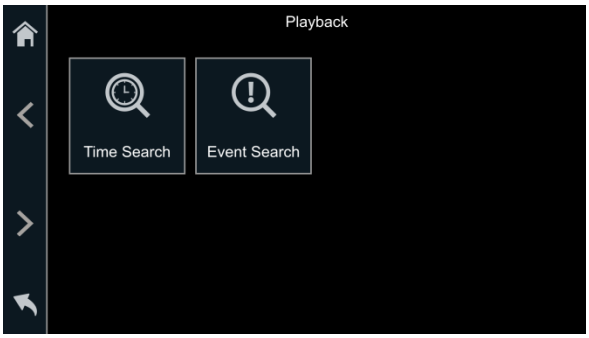
Go to OSD menu > Monitor > Monitor OSD, click on **Speed Unit** and select the desired unit.

## 3.6 Playback

You can search and then play back the Normal (continuous) recordings and Event recordings using the Playback window. Click the **Setup** button on the lower-right corner of the Live View window to bring-up the OSD menu, and then go to Playback.

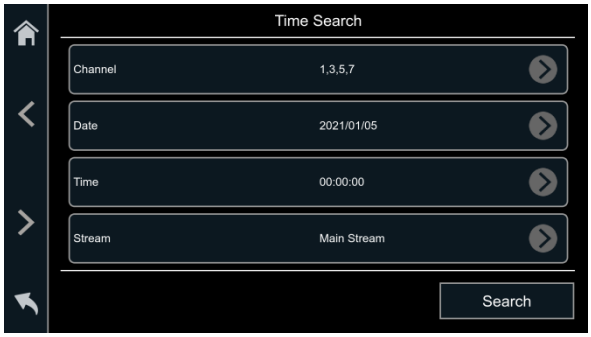



### 3.6.1 Time Search

Follow the steps below to search for recordings within a time range.

1. On the OSD menu, click Playback > Time Search.
2. Select the desired channels or click the **Select All** button to select all channels. Select a date and time and a stream type.




3. Click the **Search** button, the searched recordings will be displayed on the Playback Window.


4. You can use the buttons on the Playback Window to playback or copy the recordings. Please refer to *3.6.1.1 Playback Window* for more details.

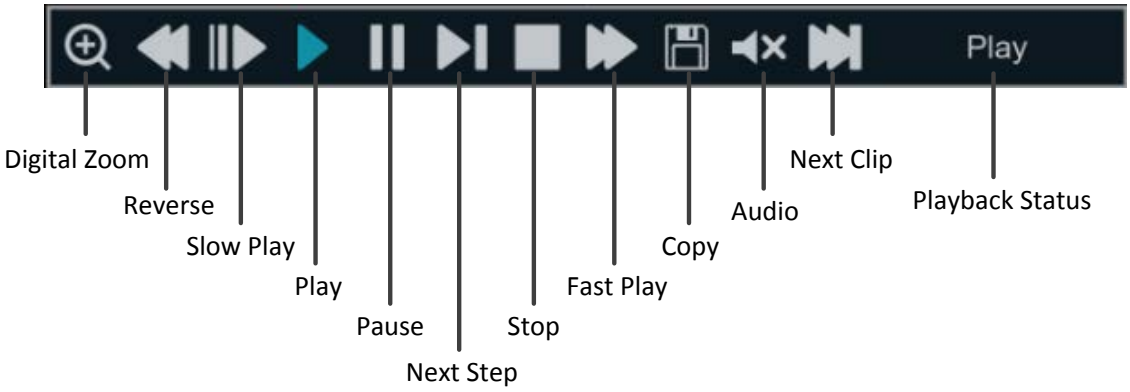
### 3.6.1.1 Playback Window

You can use the buttons on the Playback Window to playback or copy the recordings.


| No | Name | Description |
|---|---|---|
| 1 | **Hide Button** | Click to hide or display the Playback Control Panel. |
| 2 | **Playback Layout** | Layout: The layout divisions will be automatically assigned by the system based on the number of selected channels. For example, if 1 channel is selected, the system will automatically assign single-division; if 2~4 channels are selected, 4-division will be assigned; if 5~8 channels are selected, 9-division will be assigned.<br>Channel: Double-click on a channel can display the channel in full screen. |
| 3 | **Playback Control Panel** | You can use the playback control panel to operate the multiple functions. Please refer to *3.6.1.2 Playback Control Panel* for more details. |
| 4 | **Playback Time** | Displays the current playback time. |
| 5 | **Exit** | Click to exit the Playback Window. |

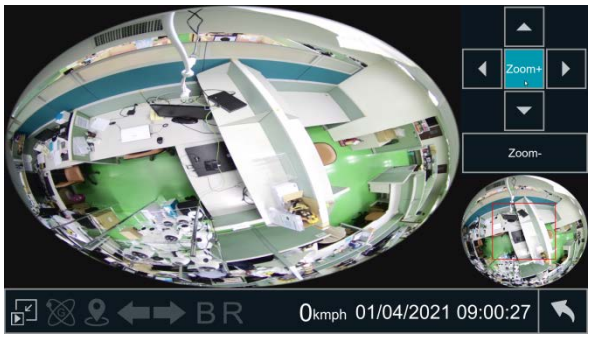
### 3.6.1.2 Playback Control Panel

You can use the playback control panel to operate the below functions:




**To perform the Digital Zoom function:**

1. On the Playback Layout, select a channel by clicking on it, the selected channel will be highlighted with a blue frame.
2. Click the **Digital Zoom** button on the Playback Control Panel, the Digital Zoom control panel will be displayed on the right side.

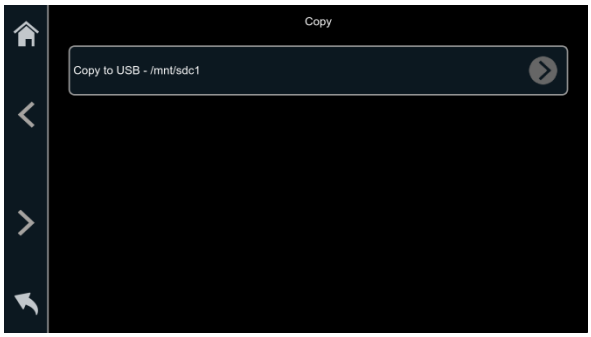



3. Use the **Zoom +** or **Zoom -** buttons to zoom in or zoom out the channel view and then use the direction buttons to navigate the location where you want to have a close-up view.
4. To exit the Digital Zoom mode, click the **Return** button on the lower-right corner of the window.

**To backup the recordings to the USB storage device:**

1. Ensure a USB storage device has been connected to the system.
2. Click the **Copy** button on the Playback Control Panel.


3. Select the channels, date, time and then click the **Copy** button, select the USB storage device, the copy process begins.



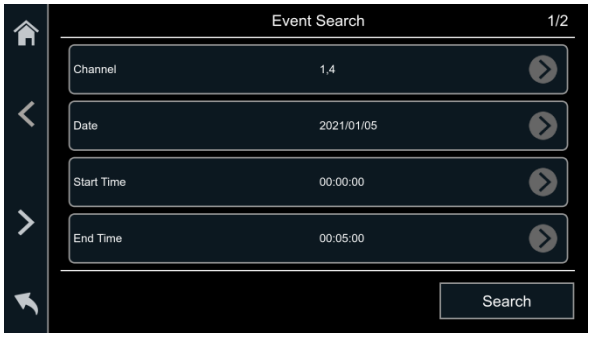


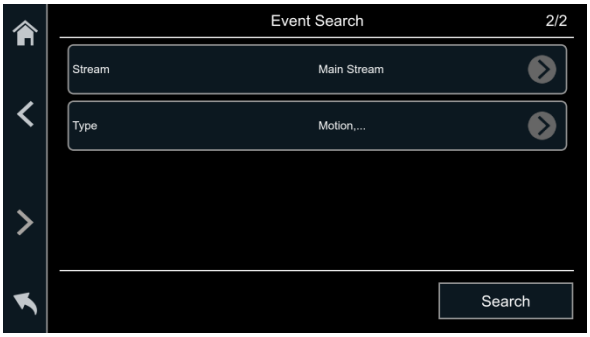
4. Once the process is done, the recordings (.avi) are now stored in the selected USB device.

### 3.6.2 Event Search

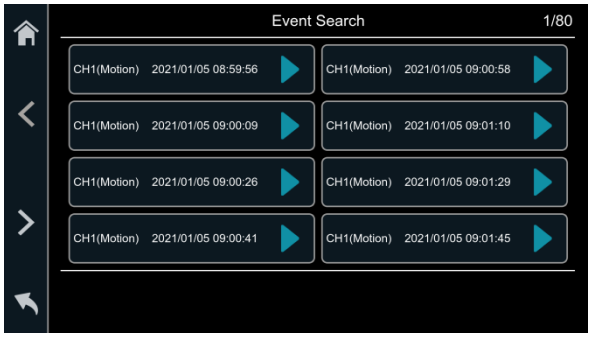
Follow the steps below to search for event recordings (Motion or Alarm) within a time range. The Blind Spot Monitoring and Driver Fatigue Detection are project-based functions. If your system supports these 2 AI functions, you can also search for AI alarm recordings using this page.

1. On the OSD menu, click Playback > Event Search.
2. Select the desired channels or click the **Select All** button to select all channels. Select a date and time range, select a stream type and the alarm type (Motion and/or Alarm).

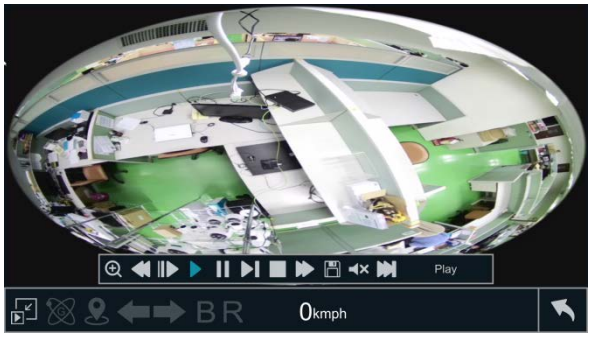



3. Click **Save** and then click the **Search** button, the searched recordings will be displayed.




4. Directly click on an event recording to start playing back.




5. You can use the buttons on the Playback Window to playback or copy the recordings. Please refer to *3.6.1.1 Playback Window* for more details.

## 3.7 Device

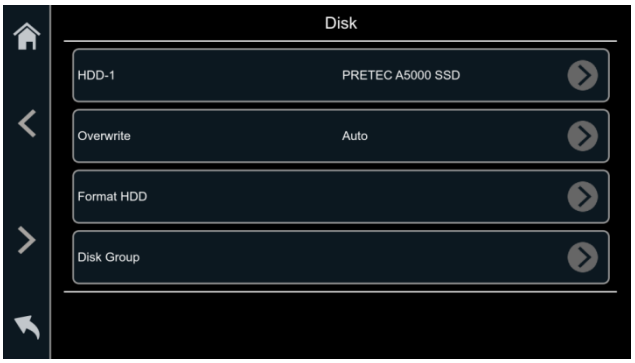
You can configure local storage device settings or cloud storage settings using this page. Click the **Setup** button on the lower-right corner of the Live View window to bring-up the OSD menu, and then go to Device > Disk.

### 3.7.1 Disk

By default, the system will automatically record all the channels continuously (Normal Recording) when the system is turned on. If you connect a new storage to the system, a **Storage Alert** icon will be displayed on the Live View window. You can click on the **Storage Alert** icon to enter the **Disk** page to format the storage device. You can also enter the Disk page through OSD menu > Device > Disk.

To configure system storage:

1. Ensure the storage device(s) have been installed in your system.
2. On the OSD menu, go to Device > Disk, the below page appears.




For the first time connected disk storage, users will have to format the disk(s) before using the disk(s). To format the disk(s), click the **Format HDD** field, click on the HDD disk and then click the **Save** button. The formatting process shall start. After the HDD format process is done, the "HDD Format Done" message will display. Click **OK**, the system will automatically start recording all the connected channels.

**HDD-1:** Click to view the storage information.

**Overwrite:** Select **Auto** to enable the overwrite function; **Off** to disable the overwrite function. If **Auto** is selected, the system will overwrite the oldest files on the HDD when HDD is full. If Off is selected, please check the HDD status regularly, to make sure the HDD is not full. The **1/3/7/14/30/90** Days stands for the max. number of recording days. For example, if 3 days is selected, the system will only record for 3 days and then start the overwrite process, which means, the system will always keep 3-day-recordings in the storage.

**Format HDD:** Click to enter the **Disk** page to format the storage device.

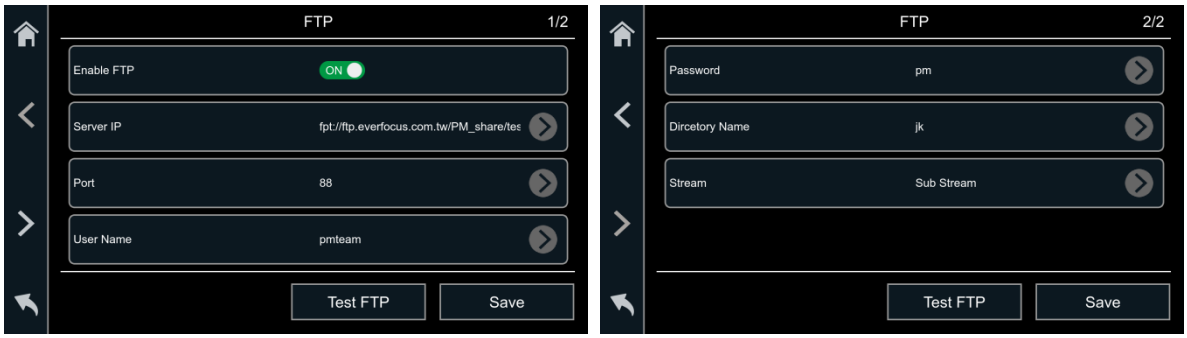
**Disk Group:** If multiple disks are connected (depends on system model), you can optionally assign recording channels to different disks. Each channel can only be assigned to one disk. Disk Group allows you to balance recordings across multiple storage disks. For example, you can record channels 1~4 to one disk and 5~8 to another disk. This can reduce the amount of wear on the disks and may extend the life of the disks.

### 3.7.2 FTP

You can configure the FTP server setting on this page. When there is a Motion or Alarm event occurs, the system will send an instant snapshot image or video clip to the FTP server.

Note that for this function to work, the **Snapshot Upload** or **Video Upload** function must be enabled in the related alarm setting. Please refer to *3.3 Alarm* for more details.

Click the **Setup** button on the lower-right corner of the Live View window to bring-up the OSD menu, and then go to Device > FTP.




**Enable FTP:** Switch the button **ON** to enable the function.

**Server IP:** Input the FTP server IP.

**Port:** Input the port number of the FTP server.

**User Name:** Input the user name of the FTP server.

**Password:** Input the password of the FTP server.

**Directory Name:** Input a directory name to create a folder in the FTP server.

**Stream:** Select a resolution for the snapshot image. Main or Sub stream resolution.

**Test FTP:** Click to test the FTP server connection.

**Save:** Click to save the settings.

### 3.7.3 Cloud

You can configure the Cloud server setting on this page. When there is a Motion or Alarm event occurs, the system will send an instant snapshot image or video clips to the Cloud storage.

Note that for this function to work, the **Snapshot Upload** or **Video Upload** function must be enabled in the related alarm setting. Please refer to *3.3 Alarm* for more details.

Click the **Setup** button on the lower-right corner of the Live View window to bring-up the OSD menu, and then go to Device > Cloud.

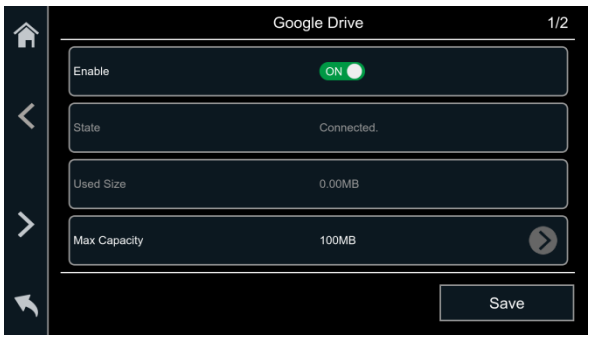

#### 3.7.3.1 Google Drive

You can configure the Cloud settings (Google Drive) on this page. After configuring the settings, the system will automatically send the Motion and Alarm snapshot images (.jpg) or video clips (.avi) to the associated storage location when alarm events occur.

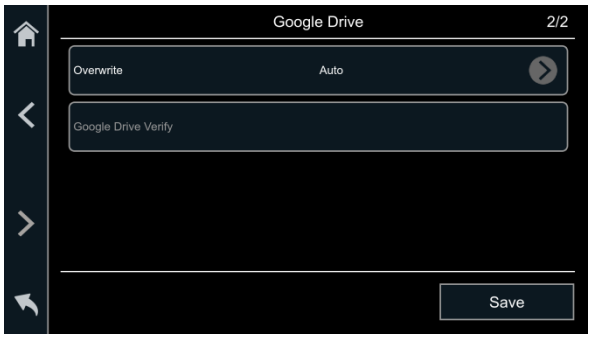
Note that for this function to work, the **Google Drive** function in the **Snapshot Upload** or **Video Upload** fields must be enabled in the related alarm setting. Please refer to *3.3 Alarm* for more details.

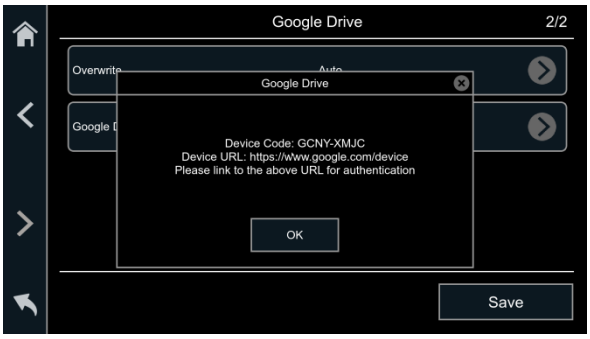
**<u>To set up connection between the system and Google Drive:</u>**

1. Switch the Enable button **ON** and click the **Save** button.

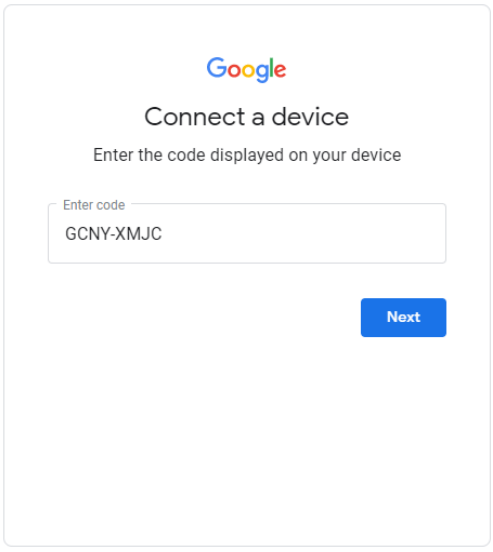


2. Go to page 2, find the **Google Drive Verify** field and click on it, a "Google Drive" message window appears.

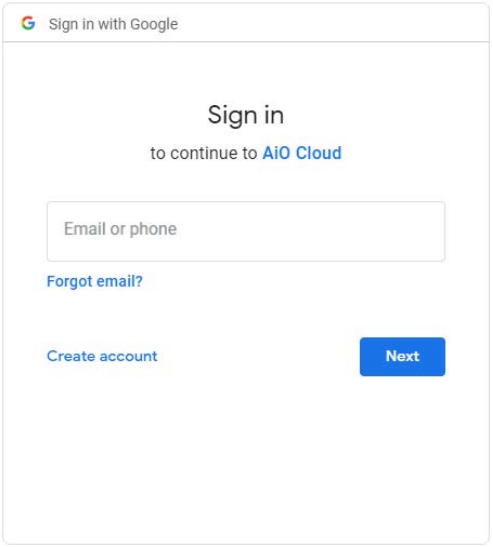


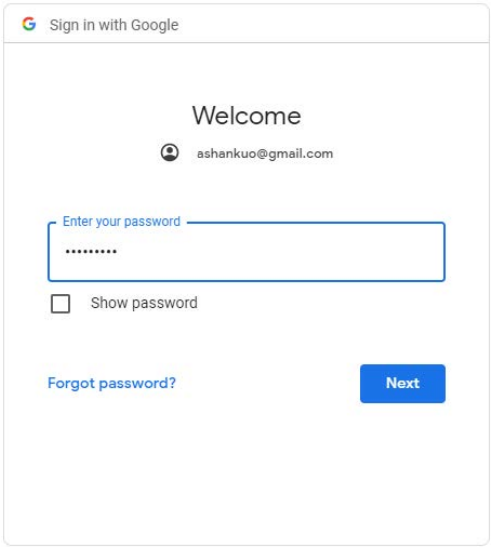




3. Open a web browser, key in " https://www.google.com/device " in the address field and click the **Enter** key. Input the **Device Code**, which is provided in the "Google Drive" message window.

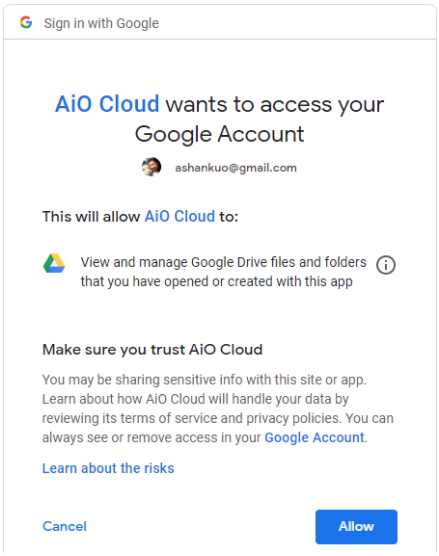


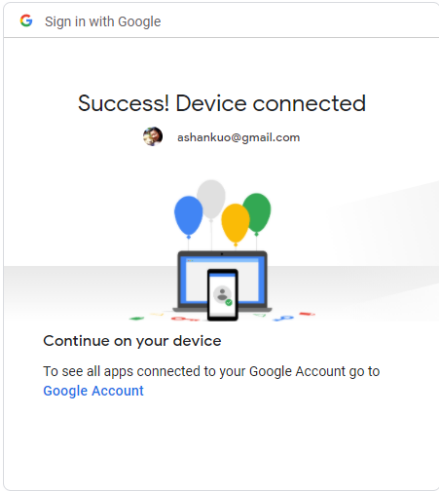

4. Click **Next** and sign in with your Google account.



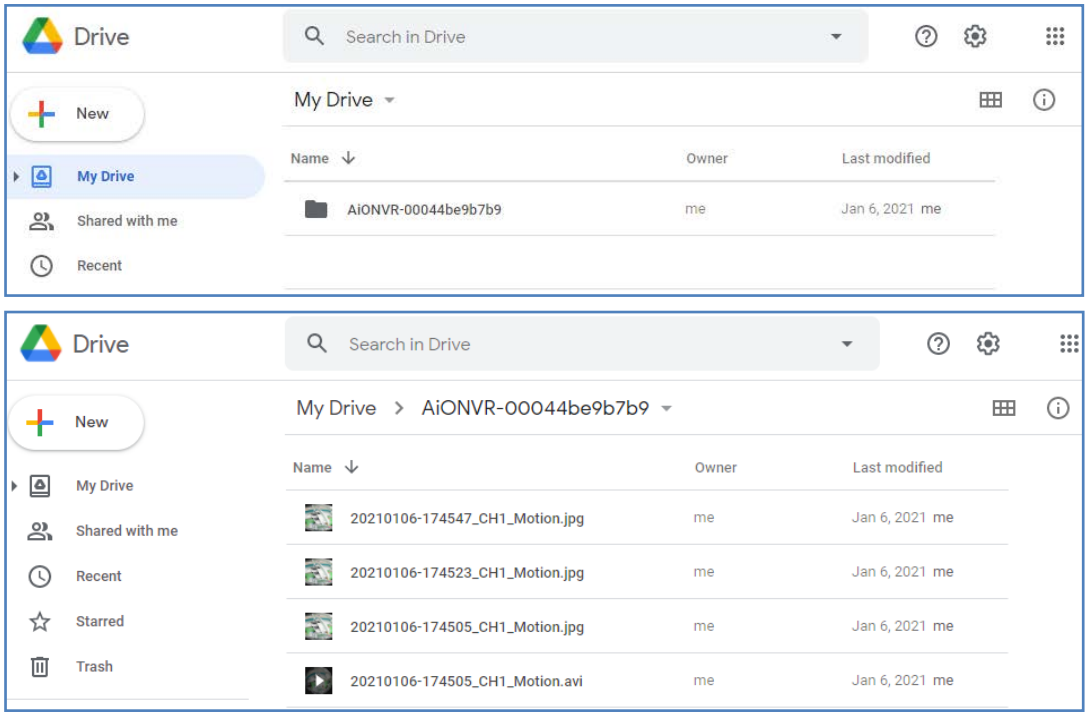



5. Click **Next** and click **Allow** for the system to connect to Google Drive.




6. The connection has been established and you should receive alarm snapshot images or videos from the system.



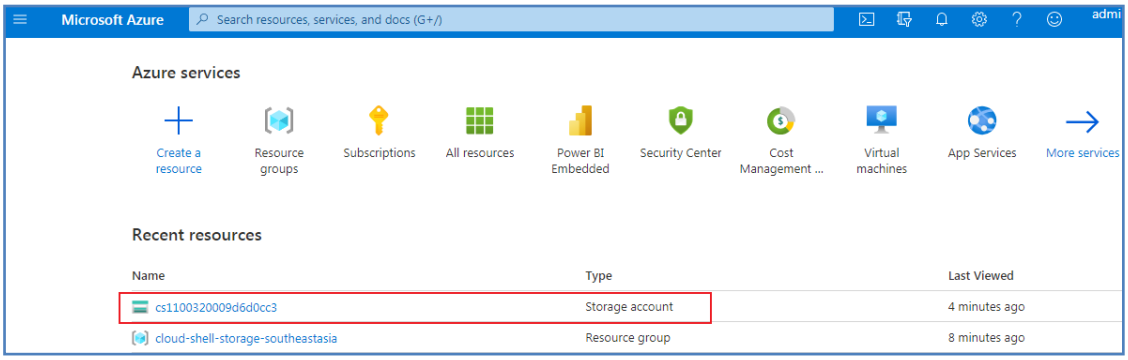
### 3.7.3.2 MS Azure

You can configure the Cloud settings (Microsoft Azure) on this page. After configuring the settings, the system will automatically send the Motion and Alarm snapshot images (.jpg) or video clips (.avi) to the associated storage location when alarm events occur.

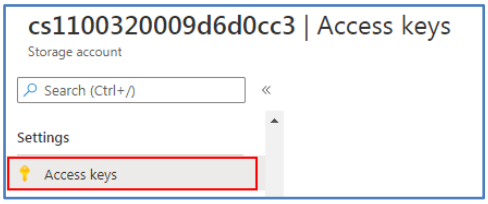
Note that for this function to work, the **MS Azure** function in the **Snapshot Upload** or **Video Upload** fields must be enabled in the related alarm setting. Please refer to *3.3 Alarm* for more details.

**<u>To set up connection between the system and Microsoft Azure:</u>**

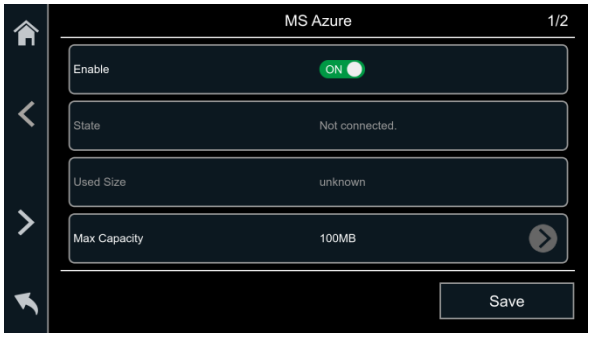
1. Store the Connection String (.txt) of Azure in a USB storage device:
   a. Login your Microsoft Azure account (https://portal.azure.com/#home) and then create a "storage account".



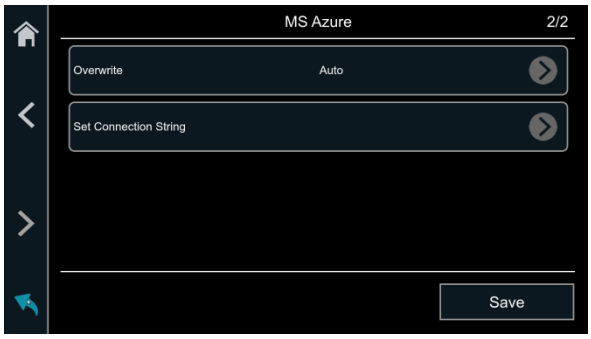

   b. In the Settings > Access keys field, find the connection string key and save it in a text file.




   c. Store the file in a USB storage device.
2. Insert the USB storage device stored with the connection string into your system.
3. Go to OSD menu > Device > Cloud > MS Azure, switch the Enable button **ON** and click the **Save** button.



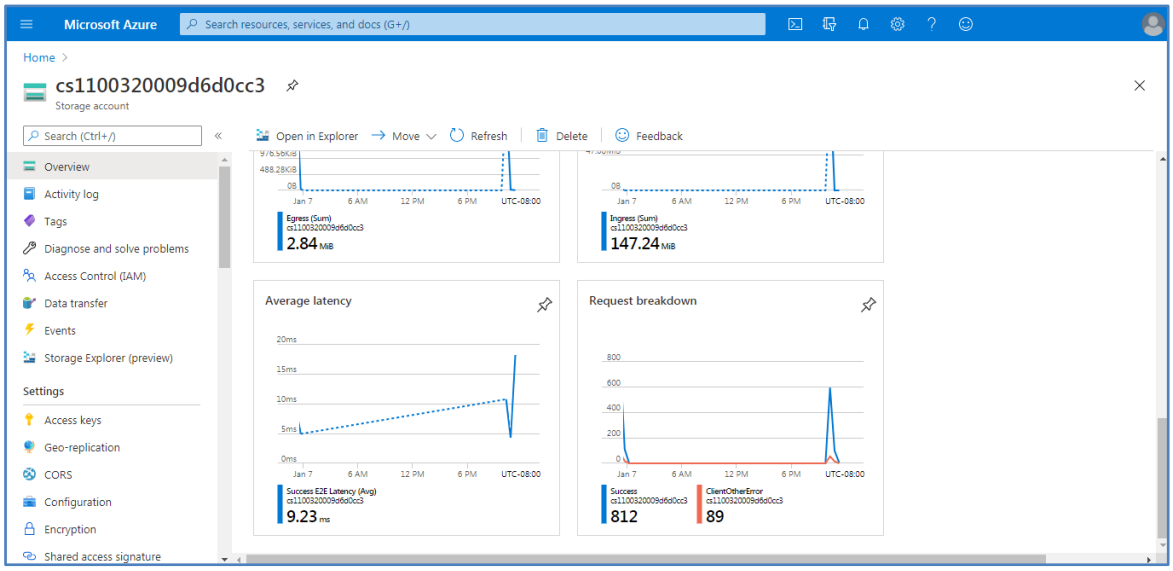
4. Go to MS Azure setup page 2, find the **Set Connection String** field and click on it. Select the connection string file from the USB storage device, and then click **Yes**.





5. Click **OK**. The connection has been established.

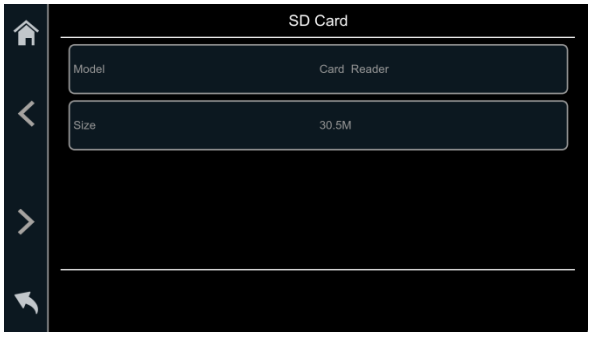

6. You should now receive the alarm data from the system on your MS Azure account.



### 3.7.4 SD Card

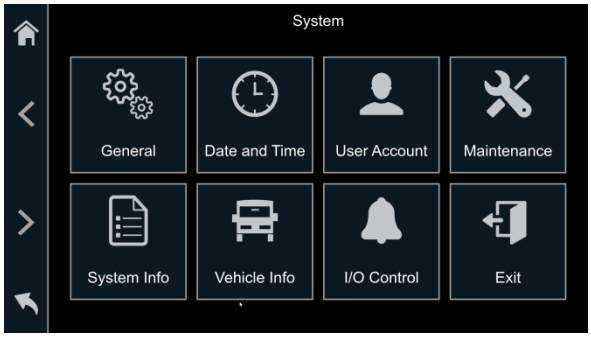
You can enter the SD card page to view the storage capacity. The SD card can be used to store the alarm videos (.avi) when the pre-configured events are triggered.

To store alarm videos to the SD card, the **SD Card** function in the **Video Upload** field must be enabled in the related alarm setting. Please refer to *3.3 Alarm* for more details.



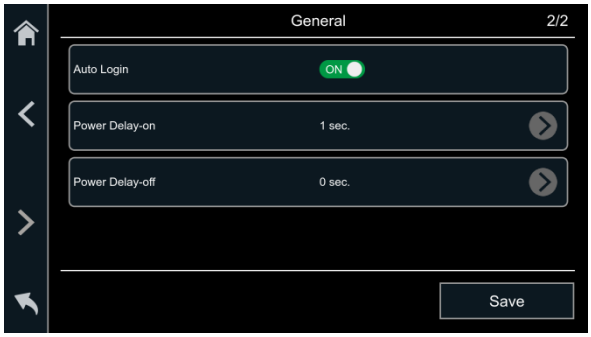
## 3.8 System

You can configure system settings using this page. Click the **Setup** button on the lower-right corner of the Live View window to bring-up the OSD menu, and then go to System.




### 3.8.1 General

Go to OSD menu > System > General to enter this page.


**Device Name:** Input a desired name for your system. The name can include both letters and numbers.

**Device ID:** Input a device ID.

**Language:** Select a language.

**Menu Timeout:** Select a timeout time for the OSD menu to automatically exit. Select Off for the OSD menu to display continuously.

**Auto Login:** Switch on for the system to login automatically every time when entering the OSD menu.

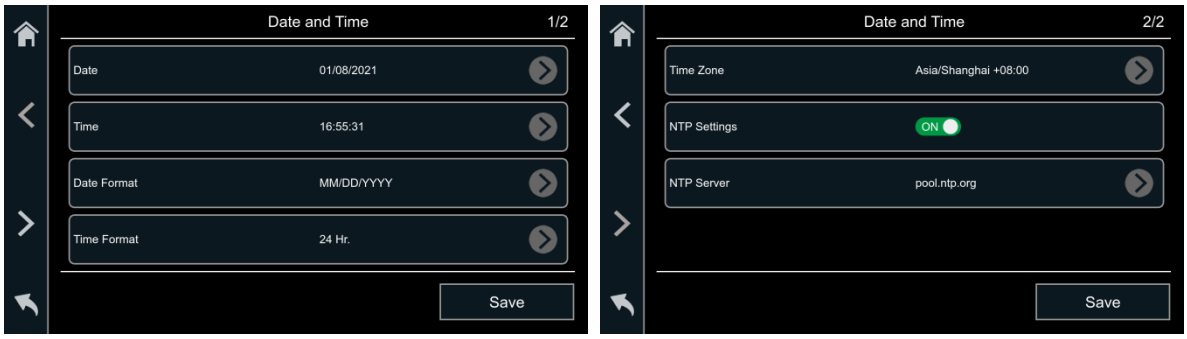
**Power Delay-on:** Set the delay time to supply power to the system in order to avoid excess consumption surge at ignition.

**Power Delay-off:** Set the delay time to power off the system after ignition off. It can extend the recording time after ignition off.

**Save:** Click to save the settings.

### 3.8.2 Date and Time

Go to OSD menu > System > Date and Time to enter this page.




**Date:** Click to bring-up the on-screen calendar and select a date.

**Time:** Click to bring-up the on-screen clock to set up the time.

**Date Format:** Click to select a format for the date.

**Time Format:** Click to select a format for the time.

**Time Zone:** Click to select a time zone relevant to your region.

**NTP Settings:** If you want to enable the NTP function, switch on NTP Settings. When NTP function is enabled, the system will calibrate the system time every 10 minutes.

The NTP (Network Time Protocol) function allows your system to automatically sync its clock with a time server. This gives it the ability to constantly have an accurate time setting (your system will periodically sync automatically).

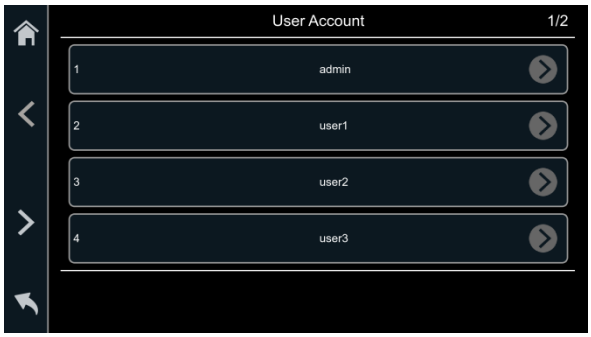
**NTP Server:** Click to select a NTP server.

**Save:** Click to save the settings.

### 3.8.3 User Account

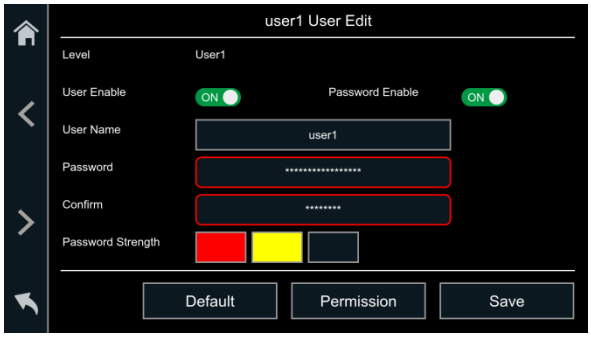
Go to OSD menu > System > User Account to enter this page.

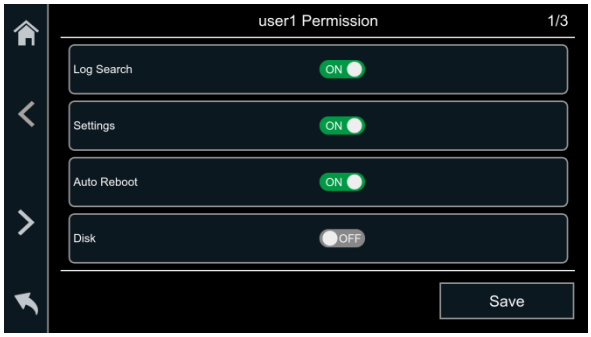
You can configure the user settings on this page. Up to 7 user accounts (1 administrator and 6 users) can be configured.




**Admin:** You can set up the password of the administrator account. The administrator account has full privileges so the Permission (functions) cannot be configured.

**User 1-6:** Only the administrator account has the right to configure user accounts and grant permission. Up to 6 user accounts can be configured.




**User Enable:** Switch the button **ON** to enable this account.

**Password Enable:** Switch the button **ON** to enable the password. Switch the button **OFF** if you want to login without password.

**User Name:** Display the user account.

**Password:** Input the password.

**Confirm:** Input the password again to confirm the password.

**Password Strength:** Displays the security strength of the setup password.

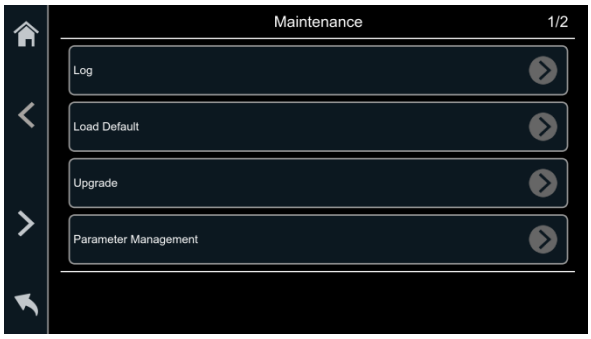
**Default:** Click to restore to default value.

**Permission:** Click to display the permission items. Only the enabled functions can be performed for this user account.

**Save:** Click to save the settings.

### 3.8.4 Maintenance

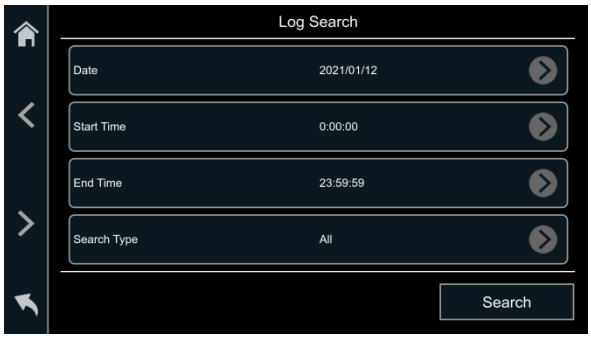
Go to OSD menu > System > Maintenance to enter this page.

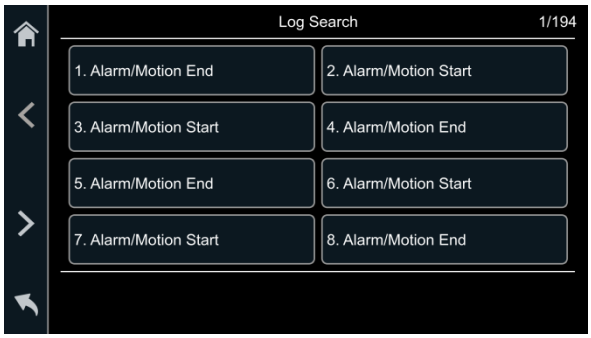




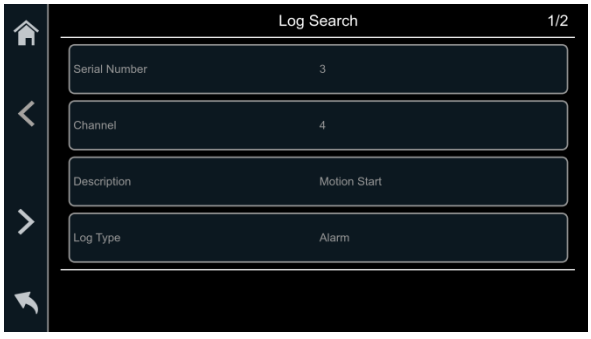
#### 3.8.4.1 Log

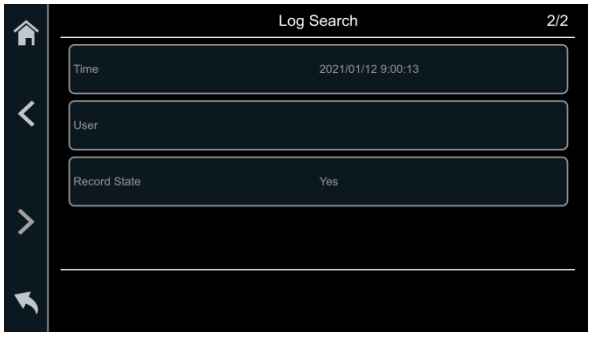
You can search for logs on this page. Go to OSD menu > System > Maintenance > Log.




Select the date, time, search type and then click the **Search** button, the searched logs will be displayed. Click on a log can display the log details.

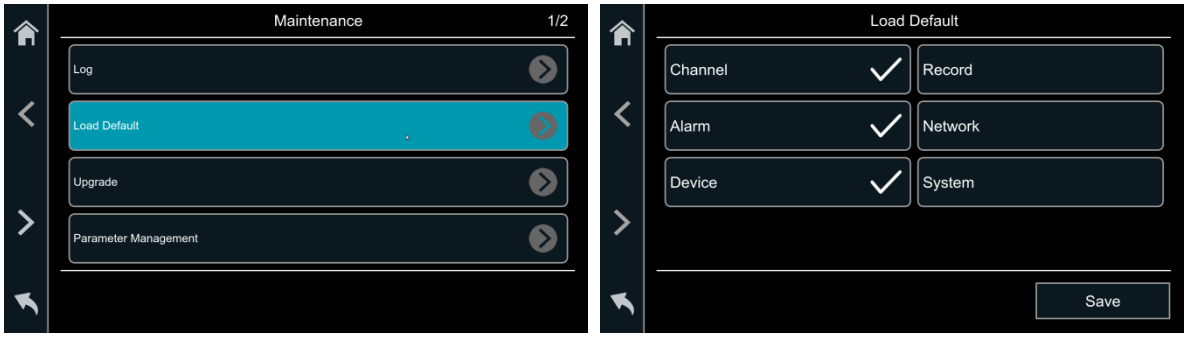


### 3.8.4.2 Load Default

You can restore to system default using this page. Go to OSD menu > System > Maintenance > Load Default.

Select the desired items to be restored to factory default and then click **Save**. Restoring default settings will not delete recordings and snapshots saved to the storage disk.




### 3.8.4.3 Upgrade

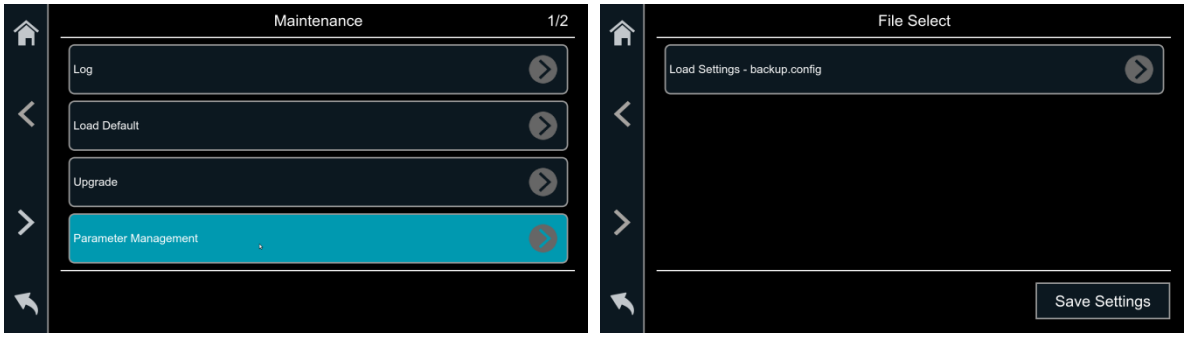
You can upgrade system firmware using this page. Go to OSD menu > System > Maintenance > Upgrade.


1. Restore the firmware file (.deb) in a USB storage device and insert the USB storage device to the system.
2. Go to OSD menu > System > Maintenance > Upgrade, select the firmware file from the USB storage device
3. Click **Yes** to start system upgrade.

**Note:** Do not take out the USB storage device or turn off the power during system upgrading. When the upgrade is done, the system will restart automatically.

### 3.8.4.4 Parameter Management

You can import or export the system parameters to a USB storage device. Go to OSD menu > System > Maintenance > Parameter Management.

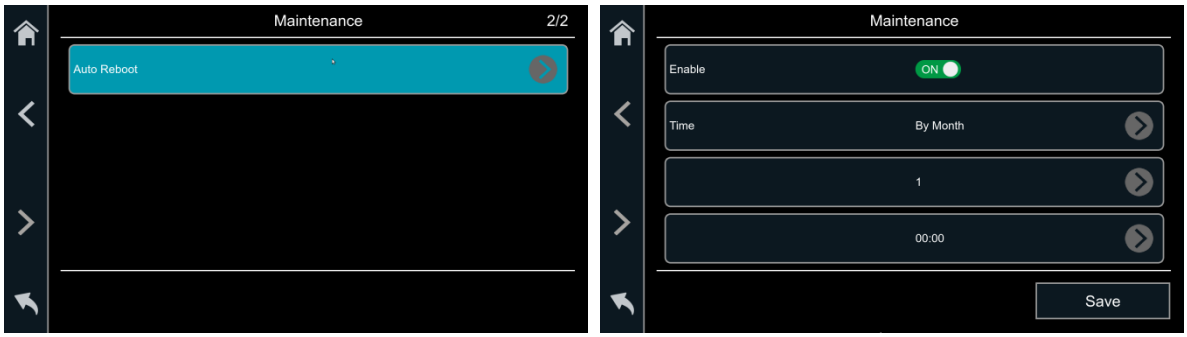



**Save Settings:** Insert a USB storage device to the system and then click **Save Settings** to export system configurations.

**Load Settings:** Insert a USB storage device to the system and then click **Load Settings** to import system configuration file.

### 3.8.4.5 Auto Reboot

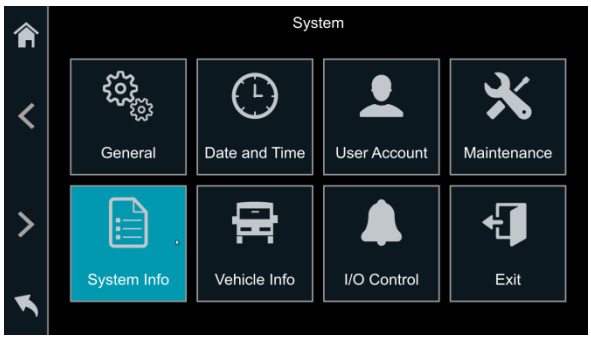
You can regularly reboot the system. It is recommended to leave this function enabled, as it maintains the operational integrity of your system. Go to OSD menu > System > Maintenance > Auto Reboot.



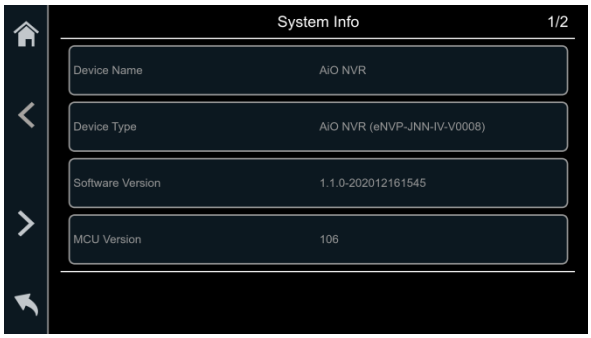

Switch the Enable button **ON** to enable the function and then set up the reboot time for the system to regularly reboot at the setup time. Click the **Save** button to save the settings.

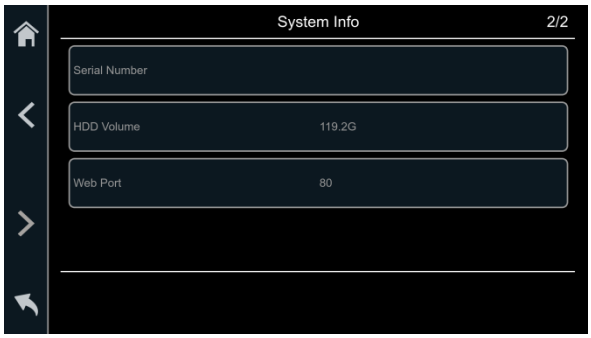
### 3.8.5 System Info

This menu allows you to view the system information. Go to OSD menu > System > System Info to enter this page.



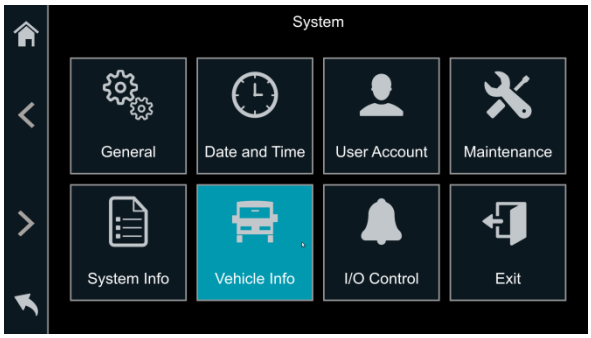

You can view system information such as device name, device type, software version, MCU version, HDD volume and Web port.

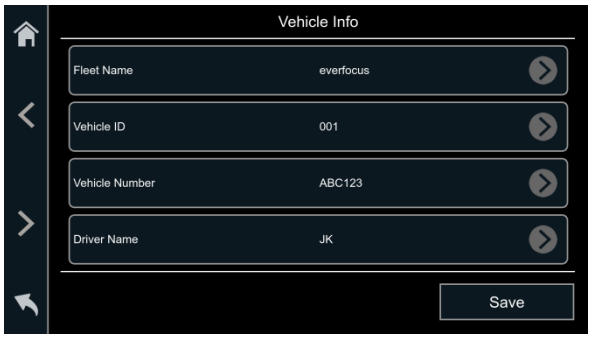



### 3.8.6 Vehicle Info

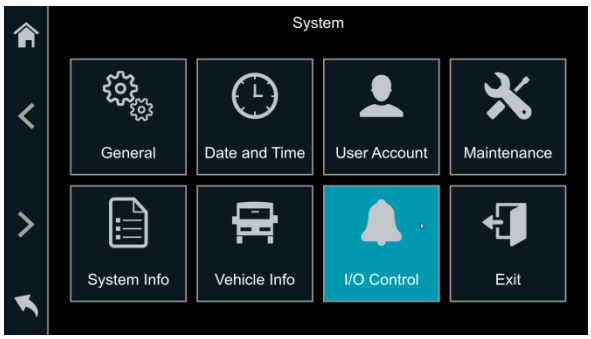
You can input vehicle info such as fleet name, vehicle ID, vehicle number or driver name on this page. The information can be used to transfer to cloud storage such as Microsoft Azure. Go to OSD menu > System > Vehicle Info to enter this page.

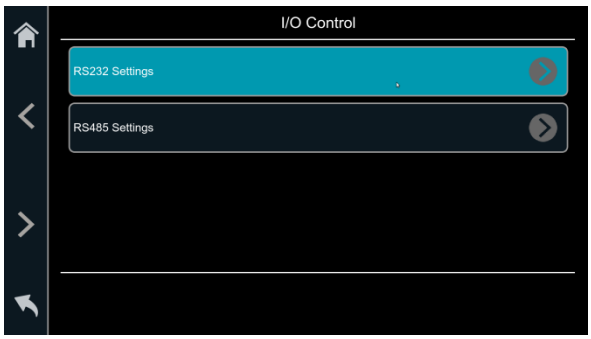


### 3.8.7 I/O Control

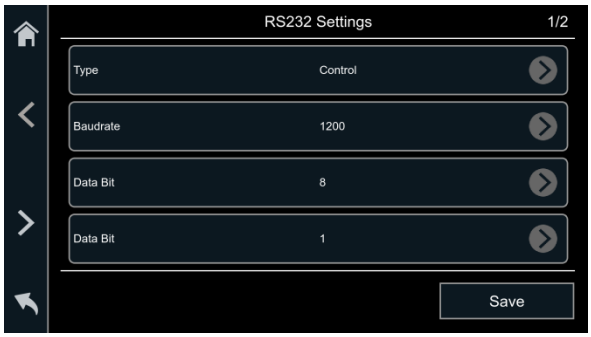
You can configure RS-232 and RS-485 settings using this page. Go to OSD menu > System > I/O control to enter this page.




#### 3.8.7.1 RS232 Settings

Go to OSD menu > System > I/O control > RS232 to enter this page.





**Type:** Select Control or Text Insert.

**Baudrate:** This field is to set the speed at which is used to transmit instruction or information through the RS-232 port on the system. There are eight different speeds: 1200 BPS, 2400 BPS, 4800 BPS, 9600 BPS, 19200 BPS, 38400 BPS, 57600 BPS and 115200 BPS.

**Data Bit:** This field is the data bit at which you will be transferring. There are two settings for this option: 8 or 7.

**Stop Bit:** This field is to set the stop bit for the RS-232 connection. There are two different stop bits, 1 or 2.

**Parity:** This field is to select the parity level at which you will be connected. You can choose between None or Odd.

**Save:** Click to save the settings.

**Note:** For details on the RS-232 related settings, please consult EverFocus for more details ts@everfocus.com.tw.

### 3.8.7.2 RS485 Settings

Go to OSD menu > System > I/O control > RS485 to enter this page.


**PTZ Protocol:** Select PTZ protocol, choose from the following protocols: Transparent, Pelco_D, Pelco_P, Everfocus or Samsung. (Note: All cameras on the RS-485 bus must use the same protocol)

**RS485 ID:** This is the ID used by the EKB500 to send commands to the system. On an RS-485 connection, every device (PTZ, system and controller) must be assigned an unique ID number between 0 and 127.

**Baudrate:** This field is to set the speed at which is used to transmit instruction or information through the RS-485 port on the system. There are eight different speeds: 1200 BPS, 2400 BPS, 4800 BPS, 9600 BPS, 19200 BPS, 38400 BPS, 57600 BPS and 115200 BPS.

**Data Bit:** This field is the data bit at which you will be transferring. There are two settings for this option: 8 or 7.

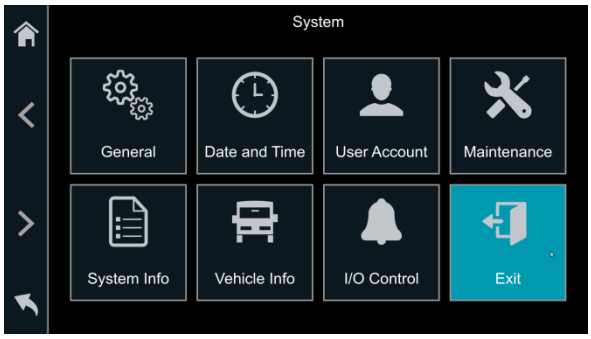
**Stop Bit:** This field is to set the stop bit for the RS485 connection. There are two different stop bits, 1 or 2.

**Parity:** This field is to select the parity level at which you will be connected. You can choose between None or Odd.

**Save:** Click to save the settings.

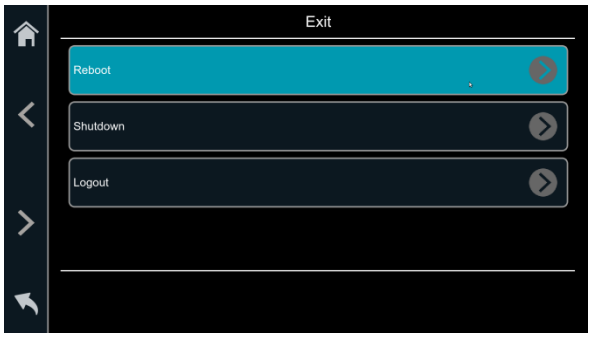
### 3.8.8 Exit

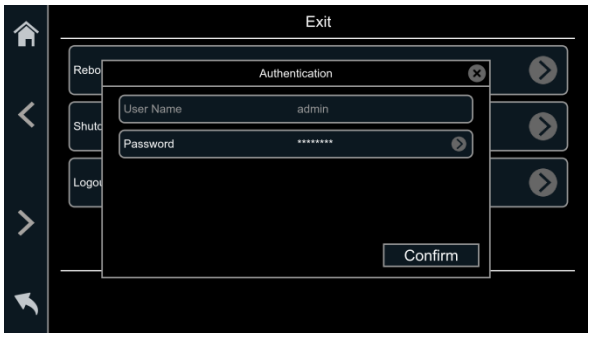
Go to OSD menu > System > Exit to enter this page.




#### 3.8.8.1 Reboot

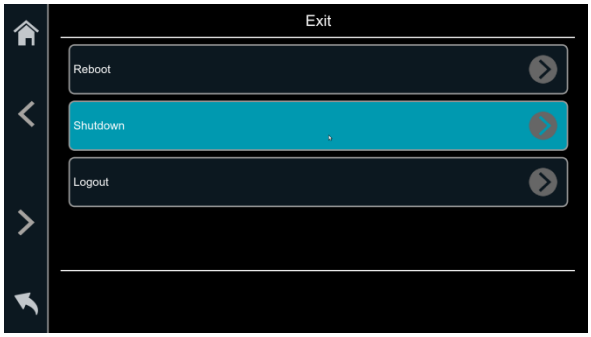
To manually reboot the system, go to OSD menu > System > Exit > Reboot, input the password and then click the **Confirm** button.

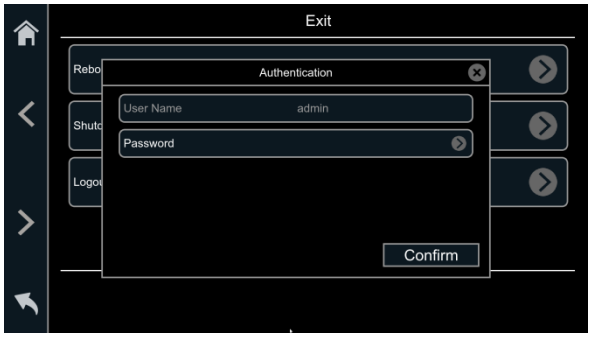



#### 3.8.8.2 Shutdown

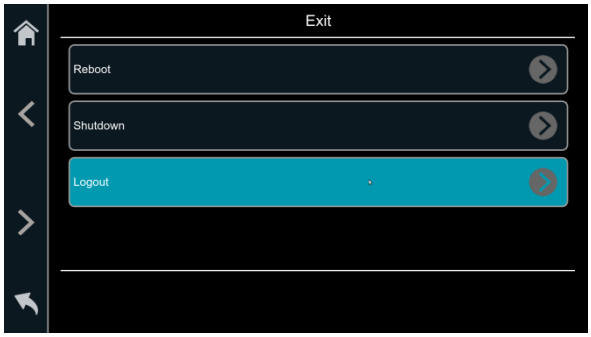
To shutdown the system, go to OSD menu > System > Exit > Shutdown, input the password and then click the **Confirm** button.



#### 3.8.8.3 Logout

To Logout the system, go to OSD menu > System > Exit and click Logout. After logging out, you will need to login again before accessing the OSD Menu.



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Your EverFocus product is designed and manufactured with high quality materials and components which can be recycled and reused.
This symbol means that electrical and electronic equipment, at their end-of-life, should be disposed of separately from your household waste.
Please, dispose of this equipment at your local community waste collection/recycling centre.
In the European Union there are separate collection systems for used electrical and electronic product.
Please, help us to conserve the environment we live in!

Ihr EverFocus Produkt wurde entwickelt und hergestellt mit qualitativ hochwertigen Materialien und Komponenten, die recycelt und wieder verwendet werden können.
Dieses Symbol bedeutet, dass elektrische und elektronische Geräte am Ende ihrer Nutzungsdauer vom Hausmüll getrennt entsorgt werden sollen.
Bitte entsorgen Sie dieses Gerät bei Ihrer örtlichen kommunalen Sammelstelle oder im Recycling Centre.
Helfen Sie uns bitte, die Umwelt zu erhalten, in der wir leben!

EverFocus