

Partizan SH NVR

User manual



BE DIFFERENT
LEAD WITH IT

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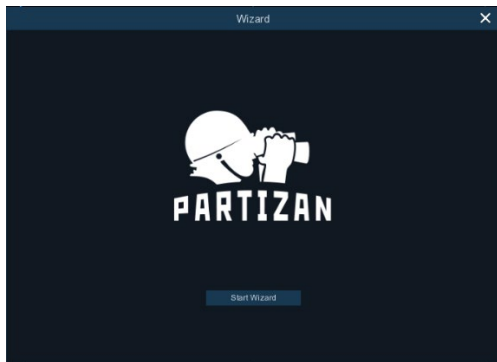
Chapter 1. NVR Starting up

1.1. Start Wizard

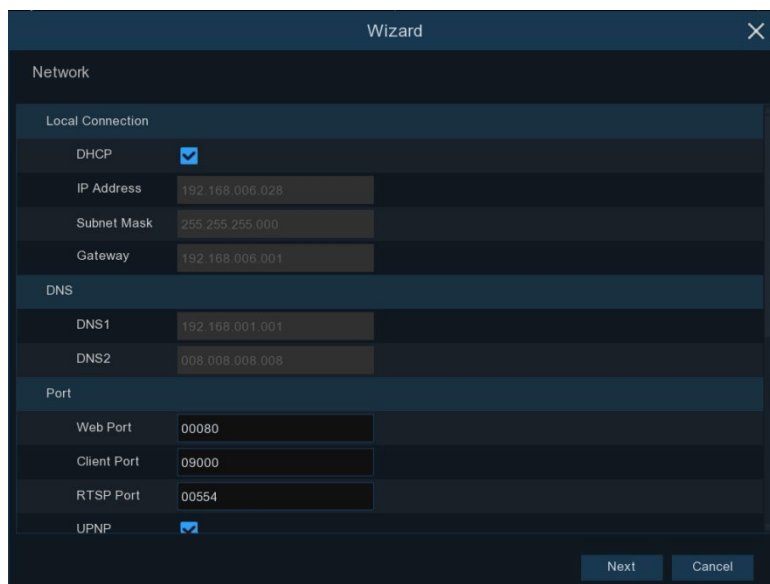
Startup Wizard will help to configure the system and get the NVR works quickly.

1.1.1. Start Wizard

Click the **Start Wizard** to proceed to the next step



1.1.2. Network Configuration



If you connect to a router allows to use DHCP, please check the **DHCP** box. The router will assign automatically all the network parameters for your NVR. Unless the network is manually addressed below parameters:

IP Address: The IP address identifies the NVR in the network. It consists of four groups of numbers between 0 to 255, separated by periods. For example, “192.168.001.100”.

Subnet Mask: Subnet mask is a network parameter which defines a range of IP addresses that can be used in a network. If IP address is like a street where you live then subnet mask is like a neighborhood. The subnet address also consists of four groups of numbers, separated by periods. For example, “255.255.000.000”.

Gateway: This address allows the NVR to access the Internet. The format of the **Gateway** address is the same as the **IP Address**. For example, “192.168.001.001”.

DNS1/DNS2: DNS1 is the primary DNS server and DNS2 is a backup DNS server. Usually should be enough just to enter the DNS1 server address.

Port

Web Port: This is the port that you will use to log in remotely to the NVR (e.g. using the Web Client). If the default port 80 is already taken by other applications, please change it.

Client Port: This is the port that the NVR will use to send information through (e.g. using the mobile app). If the default port 9000 is already taken by other applications, please change it.

RTSP Port: This is the port that the NVR will be allowed to transmit real-time streaming to other device (e.g. using a streaming Media player.).



UPNP: If you want to log in remotely to the NVR using Web Client, you need to complete the port forwarding in your router. Enable this option if your router supports the UPnP. In this case, you do not need to configure manually port forwarding on your router. If your router does not support UPnP, make sure the port forwarding is completed manually in your router.

1.1.3. Date/Time

This menu allows you to configure the Date, Time, Date Format, Time Format, Time Zone, NTP and DST.

Date and Time

Click on the calendar icon to set the current system date.

| Date and Time | NTP | DST |
|---------------|-----|--|
| Date | | 10/25/2017  |
| Time | | 15:39:21 |
| Date Format | | MM/DD/YY  |
| Time Format | | 24Hour  |
| Time Zone | | GMT+08:00  |

Date: Click on the calendar icon to set the system date.

Time: Click to set the system time.

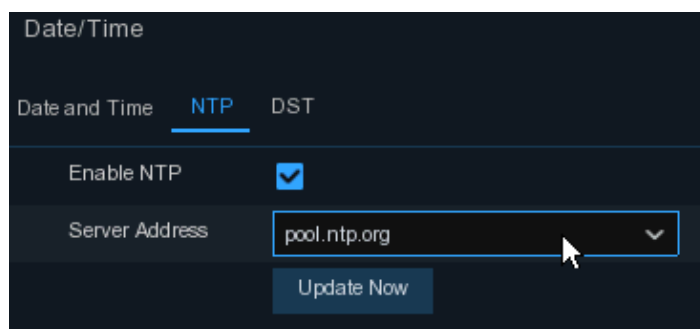
Date Format: Choose from the dropdown menu to set preferred date format.

Time Format: Choose time format between 24Hour and 12Hour.

Time Zone: Set the correct time zone.

NTP

NTP stands for Network Time Protocol. This feature allows you to synchronize the date and time automatically on the NVR over Internet. Therefore, the NVR needs to be connected to the Internet.

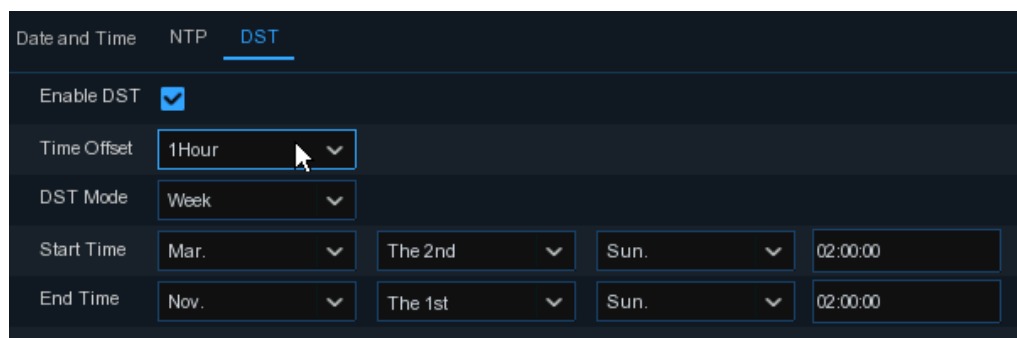


The screenshot shows the 'Date/Time' configuration page with the 'NTP' tab selected. The 'Enable NTP' checkbox is checked. The 'Server Address' field contains 'pool.ntp.org' and has a dropdown arrow. An 'Update Now' button is located below the field.

Check the “**NTP**” box, and select the NTP server.

DST

DST stands for Daylight Savings Time.



The screenshot shows the 'Date and Time' configuration page with the 'DST' tab selected. The 'Enable DST' checkbox is checked. The 'Time Offset' dropdown is set to '1Hour'. The 'DST Mode' dropdown is set to 'Week'. The 'Start Time' is set to 'Mar.', 'The 2nd', 'Sun.', and '02:00:00'. The 'End Time' is set to 'Nov.', 'The 1st', 'Sun.', and '02:00:00'.

DST: Enable if Daylight Saving Time (DST) is observed in your region.

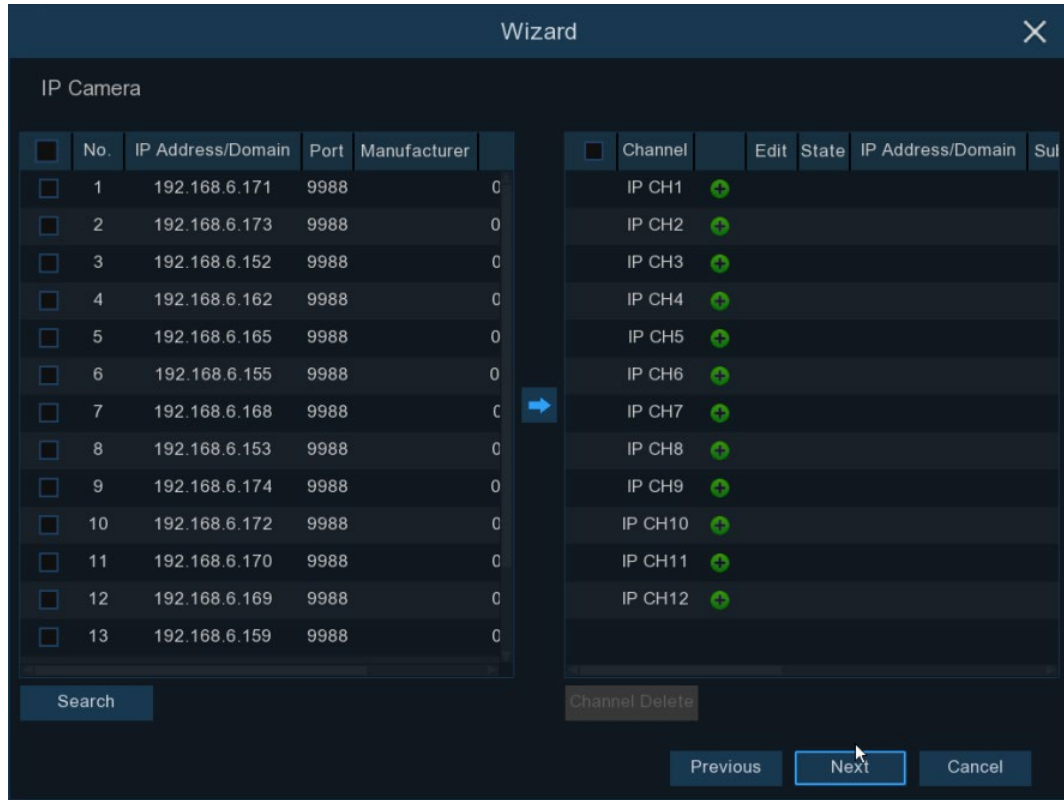
Time Offset: Select the amount of time to offset for DST.


Time Mode: Choose to set the daylight saving time in weeks or in days.

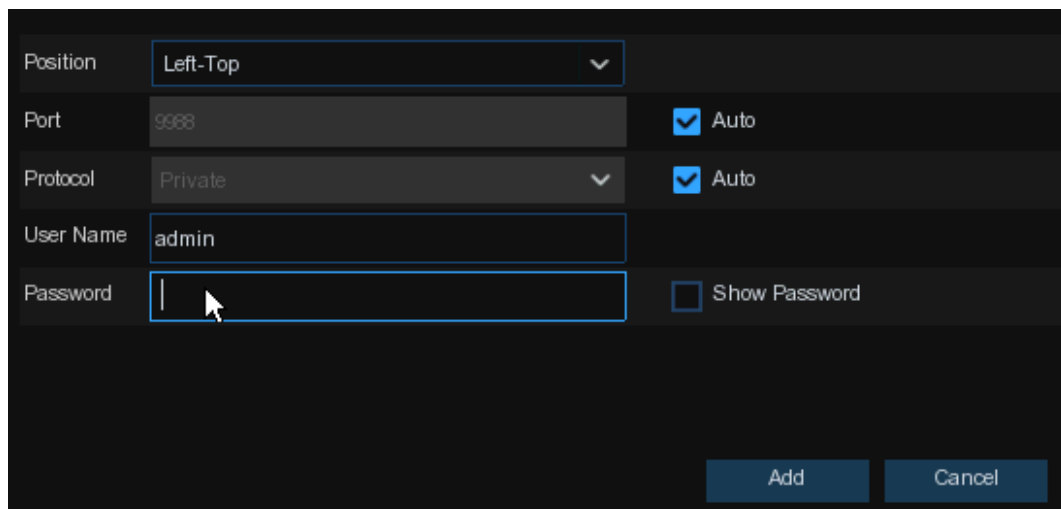
Start Time/End Time: Set the start time and end time for daylight saving.

1.1.4. IP Camera


This menu allows you to add IP cameras to the NVR.

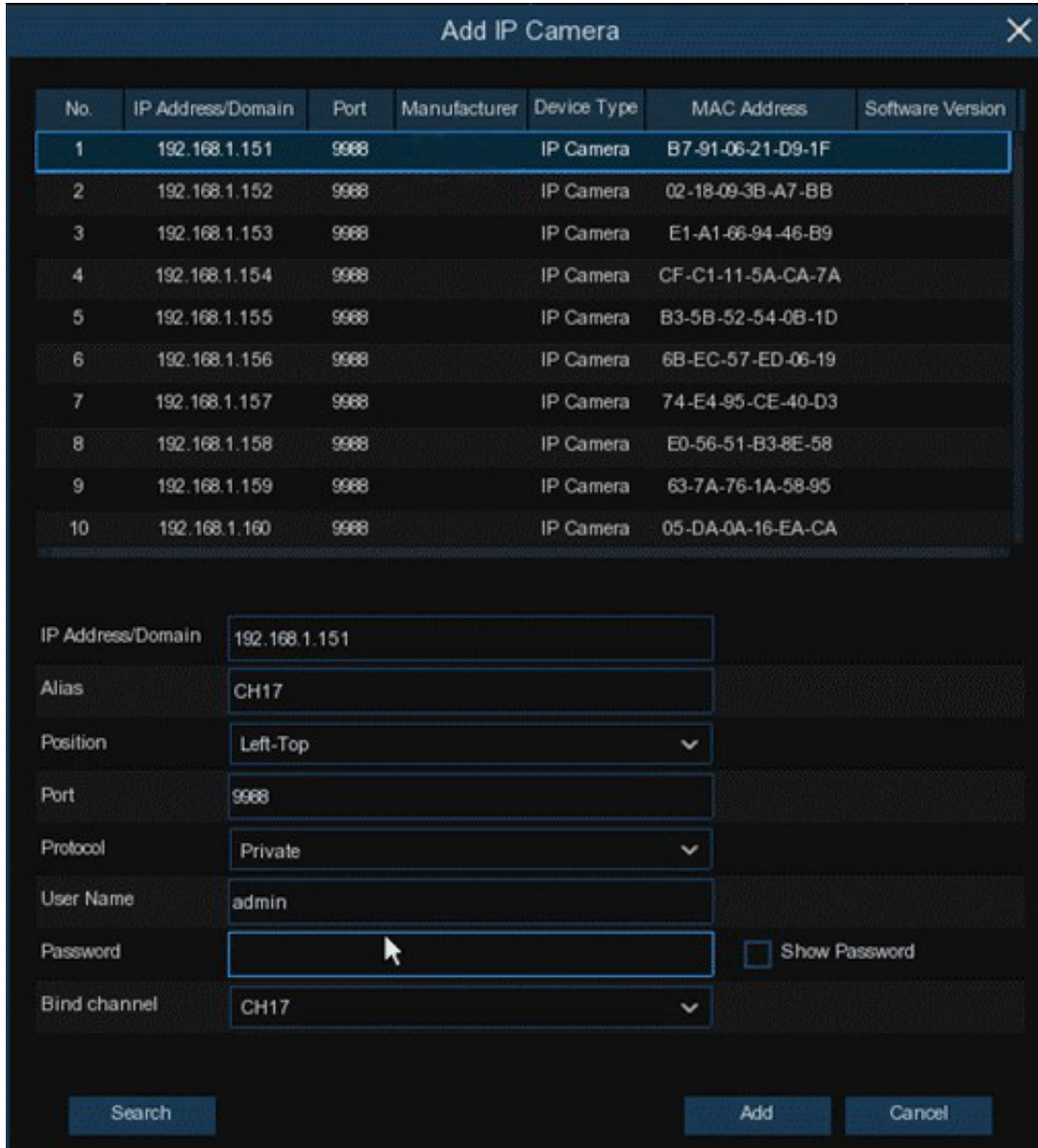


Click **Search** to search IP cameras in the same network. Choose the IP camera(s) you want to add, and then click  icon to add to the NVR.



Enter the camera's user name & password to add the camera(s).

You can also click  button to add individual IP camera to a single channel.



| No. | IP Address/Domain | Port | Manufacturer | Device Type | MAC Address | Software Version |
|-----|-------------------|------|--------------|-------------|-------------------|------------------|
| 1 | 192.168.1.151 | 9988 | | IP Camera | B7-91-06-21-D9-1F | |
| 2 | 192.168.1.152 | 9988 | | IP Camera | 02-18-09-3B-A7-BB | |
| 3 | 192.168.1.153 | 9988 | | IP Camera | E1-A1-66-94-46-B9 | |
| 4 | 192.168.1.154 | 9988 | | IP Camera | CF-C1-11-5A-CA-7A | |
| 5 | 192.168.1.155 | 9988 | | IP Camera | B3-5B-52-54-0B-1D | |
| 6 | 192.168.1.156 | 9988 | | IP Camera | 6B-EC-57-ED-06-19 | |
| 7 | 192.168.1.157 | 9988 | | IP Camera | 74-E4-95-CE-40-D3 | |
| 8 | 192.168.1.158 | 9988 | | IP Camera | E0-56-51-B3-8E-58 | |
| 9 | 192.168.1.159 | 9988 | | IP Camera | 63-7A-76-1A-58-95 | |
| 10 | 192.168.1.160 | 9988 | | IP Camera | 05-DA-0A-16-EA-CA | |

| | |
|-------------------|---|
| IP Address/Domain | <input type="text" value="192.168.1.151"/> |
| Alias | <input type="text" value="CH17"/> |
| Position | <input type="text" value="Left-Top"/> ▼ |
| Port | <input type="text" value="9988"/> |
| Protocol | <input type="text" value="Private"/> ▼ |
| User Name | <input type="text" value="admin"/> |
| Password | <input type="password"/> <input type="checkbox"/> Show Password |
| Bind channel | <input type="text" value="CH17"/> ▼ |

Click **Search** button to search IP cameras, and then click one of the IP camera in the device list.

IP Address/Domain: IP address or domain name of the IP camera.

Alias: Name of the IP camera.

Position: Position to display the camera name on the screen.

Port: Port of the IP camera.

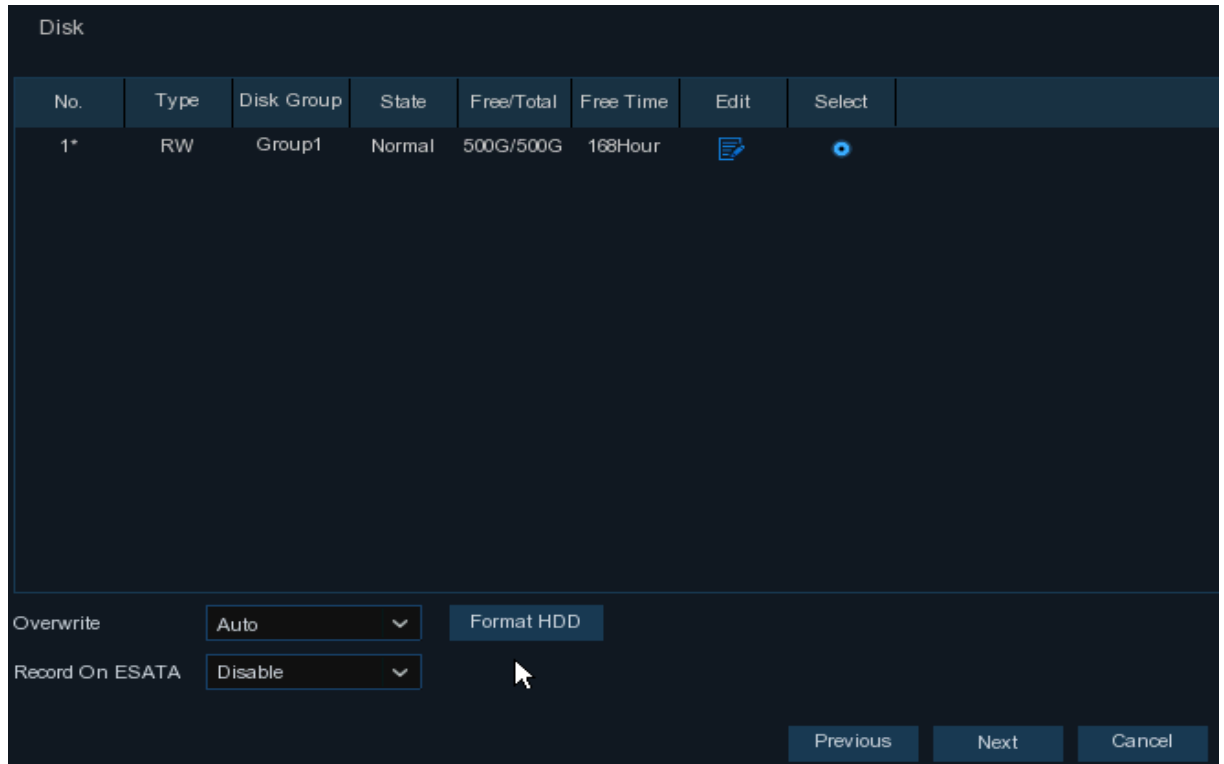
Protocol: Choose the protocol of the IP camera from the dropdown menu.

User Name: User Name of the IP camera.

Password: Password of the IP camera.

Bind channel: Choose a channel of the NVR you want to attach to.

1.1.5. Disk



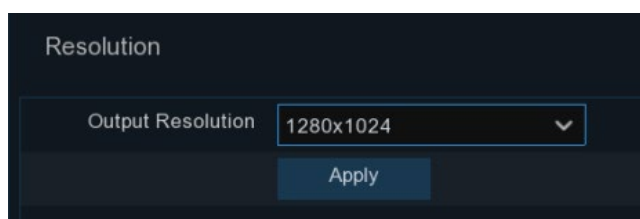
If the HDD is installed in the NVR for the first time, it must be formatted. Select the HDD and then click **Format HDD** button to format the HDD.

Overwrite: Use this option to overwrite the old recordings on the HDD when the HDD is full. For example, if you choose the option 7 days then only the last 7 days recordings are kept on the HDD. To prevent overwriting any old recordings, select Disable. If you have disabled this function, please check the HDD status regularly, to make sure the HDD is not full.

Record On ESATA: If your NVR comes with an e-SATA port on the rear panel, you can enable to record the video to e-SATA HDD.

1.1.6. Resolution

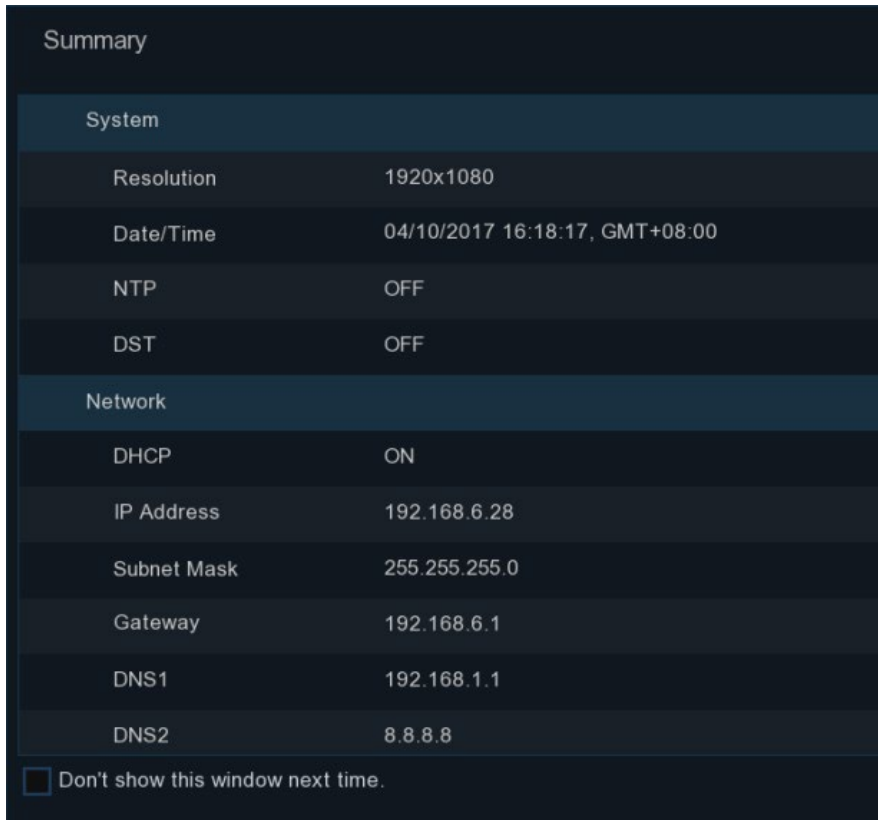
Choose an output resolution matches to your monitor. The NVR supports to adjust the output resolution automatically to match the best resolution of your monitor when the system is starting up.



1.1.7. Summary

You can check the system summary information you had set in the start wizard and finish the wizard.

Tick **"Don't show this window next time"** if you don't want to display Start Wizard when system reboot next time. Click **Finish** button to save & exit.

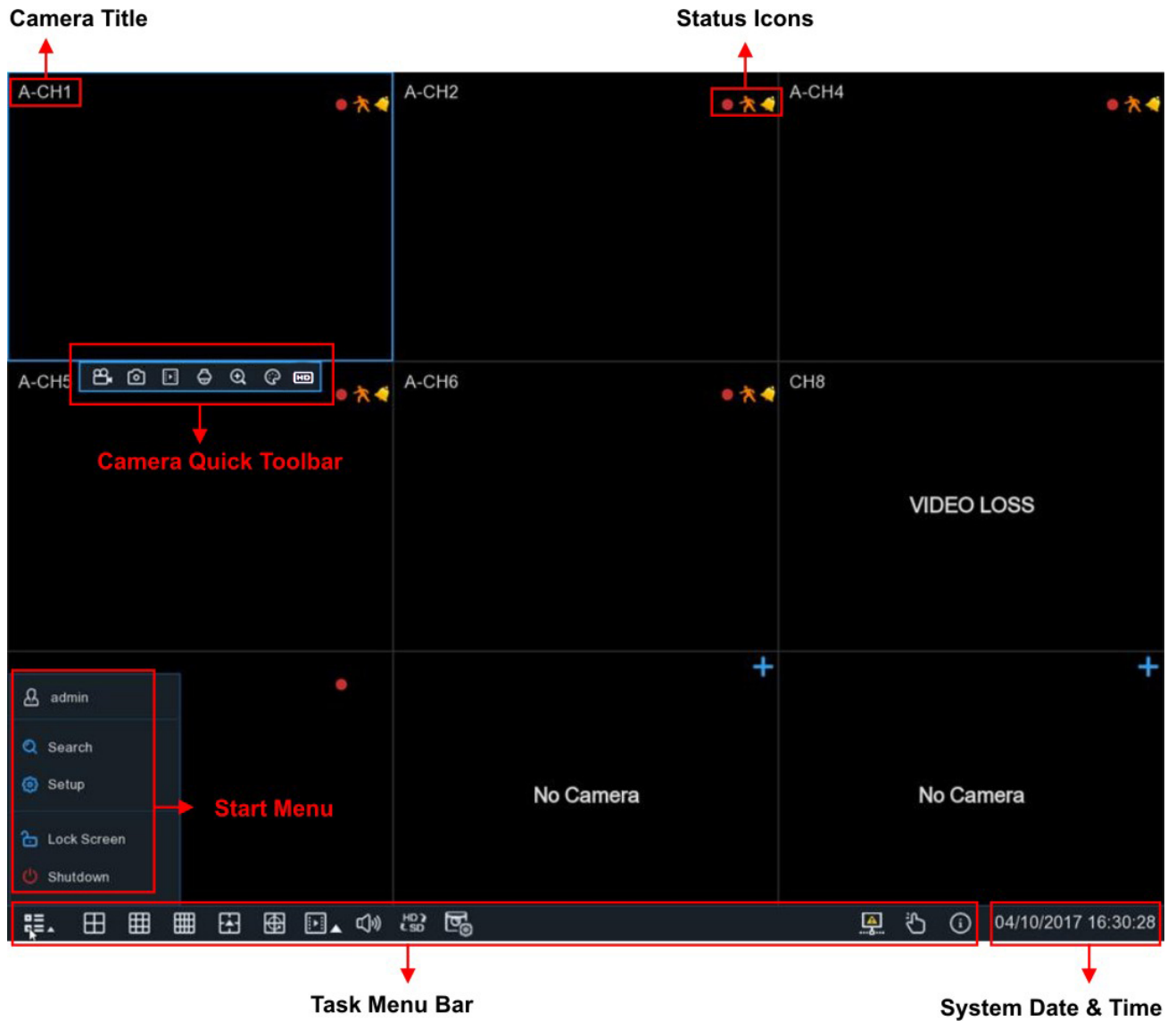


| System | |
|------------|--------------------------------|
| Resolution | 1920x1080 |
| Date/Time | 04/10/2017 16:18:17, GMT+08:00 |
| NTP | OFF |
| DST | OFF |

| Network | |
|-------------|---------------|
| DHCP | ON |
| IP Address | 192.168.6.28 |
| Subnet Mask | 255.255.255.0 |
| Gateway | 192.168.6.1 |
| DNS1 | 192.168.1.1 |
| DNS2 | 8.8.8.8 |

Don't show this window next time.

1.2. Live View Screen Overview



Camera Title

To display the camera title








A-: This indicates that the camera connected is an AHD camera.

T-: This indicates that the camera connected is a TVI camera.

C-: This indicates that the camera connected is a CVI camera.

IP: This indicates that the camera connected is an IP camera.



Status Icons

-  This indicates that the NVR is currently recording.
-  This icon appears when the camera has detected motion.
-  The icon indicates that the external I/O alarm device is triggered.
-  This icon indicates that the HDD is in error to work.
-  This icon indicates the HDD is unformatted.
-  This icon indicates the HDD is full.
-  This icon indicates the HDD is read-only.

VIDEO LOSS: The analog camera is disconnected.

No Camera: IP camera is disconnected.



Decoding Failed: The NVR doesn't support this kind of IP camera compression standard, please change to H.264 compression standard.









-  Click to open **Quick Add** menu to add IP camera.
-  Click to edit current IP camera.

1.2.1. Camera Quick Toolbar

In live viewing, click the left button of your mouse on a connected camera to display the Camera Quick Toolbar.








-  Click to open **Quick Add** menu to add IP camera.
-  Click to edit current IP camera.

-  Click to manually record the channel immediately. If the manually recording is in process, the icon will be in red color. Click one more time to stop manual record.
-  Click to save a snapshot of the current camera image. Manual Capture must be enabled to use this feature. For details on enabling Manual Capture, see [5.2.3.1 Capture](#).
-  Click to play the latest 5 minutes recording of this channel
-  Click to enter PTZ control panel
-  Click to zoom-in the channel. When the  icon appears, press and hold the left button of our mouse to drag the area you want to zoom in.
-  Click to adjust the image color of the channel. You can adjust the HUE, BRIGHT, CONTRAST & SATURATION of the image.
-  To switch the live view video stream between HD & SD. HD is mainstream live view, SD is substream live view.

1.2.2. Taskbar



-  Click to open the Start Menu.
-  Click to choose different layout for live view.
-  Click to choose more layouts for live view.
-  Click to start viewing channels in a sequence.
-  Quick playback. You can choose to play the latest recording for all channels from the beginning of the day, or you can choose the playback from the latest 5s, 10s, 30s, 1Min, 5Min.



Click to adjust audio volume.



Click to switch all IP channels between mainstream and substream (for live view resolution).



Click to switch among real-time, balanced, or smooth view. The view effect modes affect only the live view video quality by bitrate and frame rate but do not affect the recording quality.



To start or stop Manual Record and Manual Alarm.













To view system information, channel information, record info and network state.



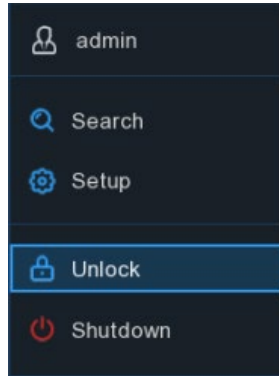
This icon will appear if the network is disconnected.

1.2.3. Start Menu


With the start menu, you can switch user, search & playback, enter system setup menu, lock & unlock the screen, shut down, reboot & logout the system.


| | | |
|---|---|--|
|  admin |  | To switch user. To enable multi-user, please view on 5.6.3 Multi-user0 |
|  Search |  | Search & Playback. View more on Chapter 6 Search , |
|  Setup |  | NVR System Setup. View on Chapter 5 NVR System Setup |
|  Lock Screen |  | Lock & unlock screen. View on 4.2.3.1 Unlock and Lock Screen0 |
|  Shutdown |  | Shutdown, reboot & logout the system. View on 4.2.3.2 Shutdown0 |

1.2.3.1. Unlock and Lock Screen

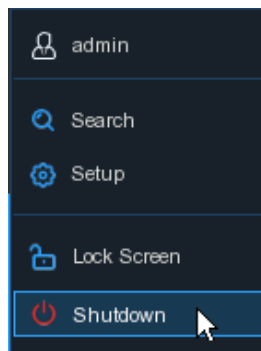


The screen will be locked to protect unauthorized OSD operation while the NVR is not in menu operation 1 minute.

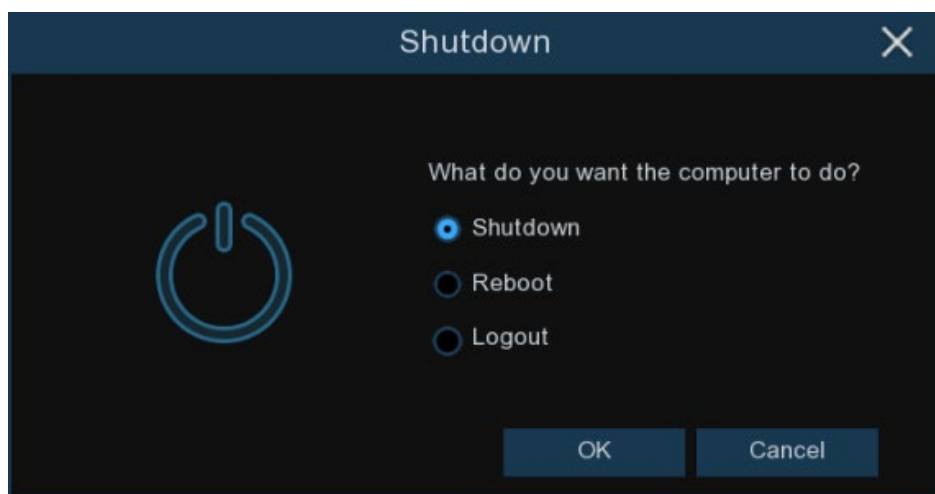
If necessary, you can also lock the screen operation manually. To do so, go to Start Menu, and then click the Lock Screen icon  to lock the system immediately.

If the system is locked, you can click the Unlock icon  to unlock the system for further operation.

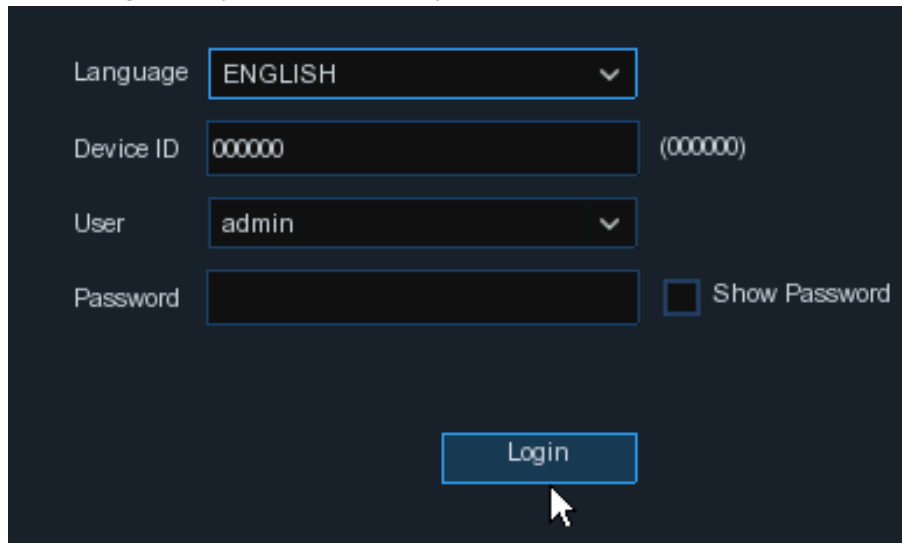
1.2.3.2. Shutdown



Click the **Shutdown** button from Start Menu, and then check the further action you want to move. Click **OK** button, system will require to input the Admin password to authenticate.



If you choose **Logout** the system, the live viewing screen will be disappeared. You will need to login the system for further operations.

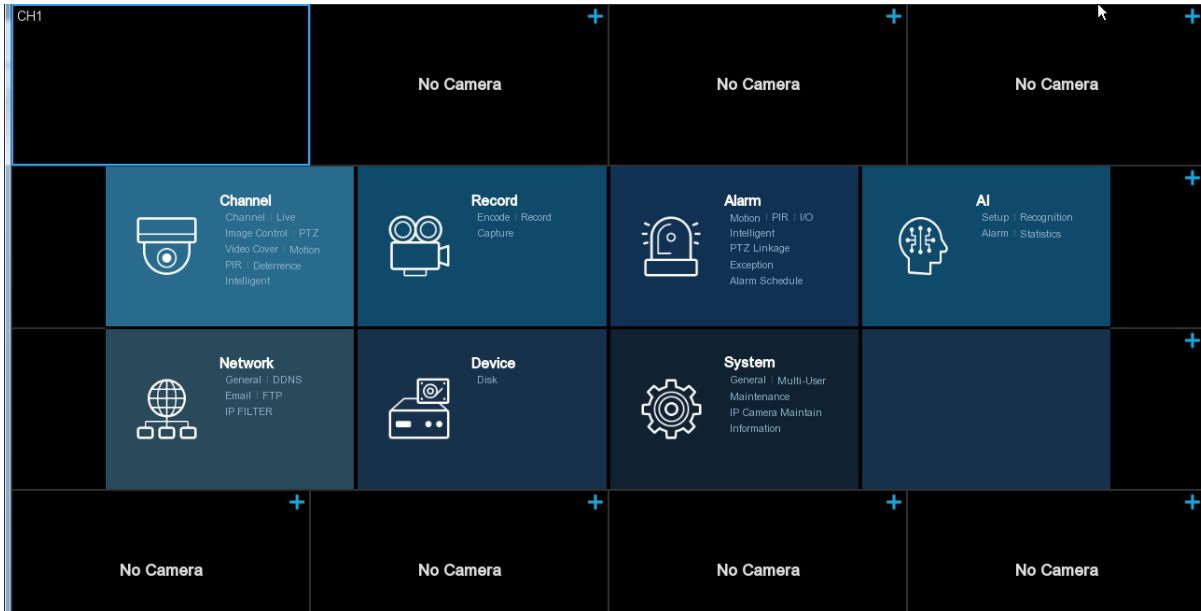


The image shows a login form with the following fields and controls:

- Language: A dropdown menu currently set to "ENGLISH".
- Device ID: A text input field containing "000000" with "(000000)" displayed to its right.
- User: A dropdown menu currently set to "admin".
- Password: A text input field with a "Show Password" checkbox to its right, which is currently unchecked.
- Login: A blue button with the text "Login" and a mouse cursor pointing at it.

Chapter 2. NVR System Setup

You are able to configure the NVR for Channel, Record, Alarm, Network, Device & System from [Start Menu](#) → [Setup](#).

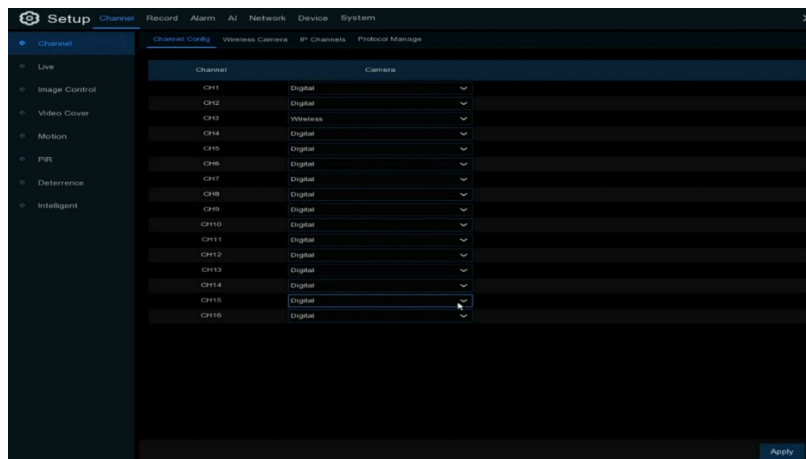


2.1. Channel

In this section, you are allowed to configure the camera, live view display, manage IP cameras, adjust IP camera's image, PTZ setup, motion setup, convert mode, and more.

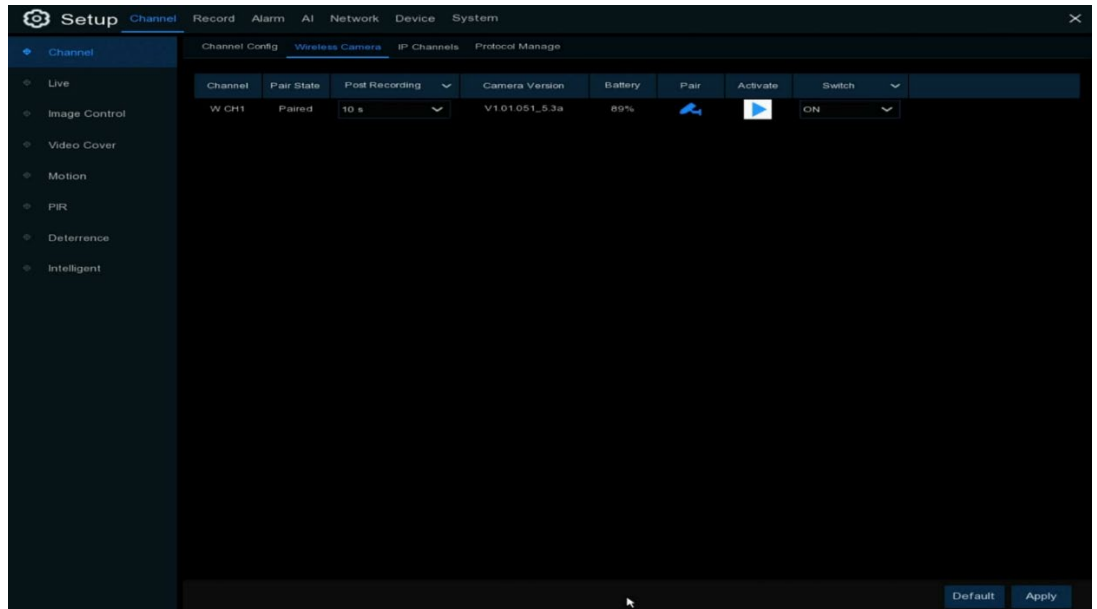
2.1.1. Channel

2.1.1.1. Channel Config



Here you can choose the channel type, with wireless and digital options.

2.1.1.2. Wireless Camera



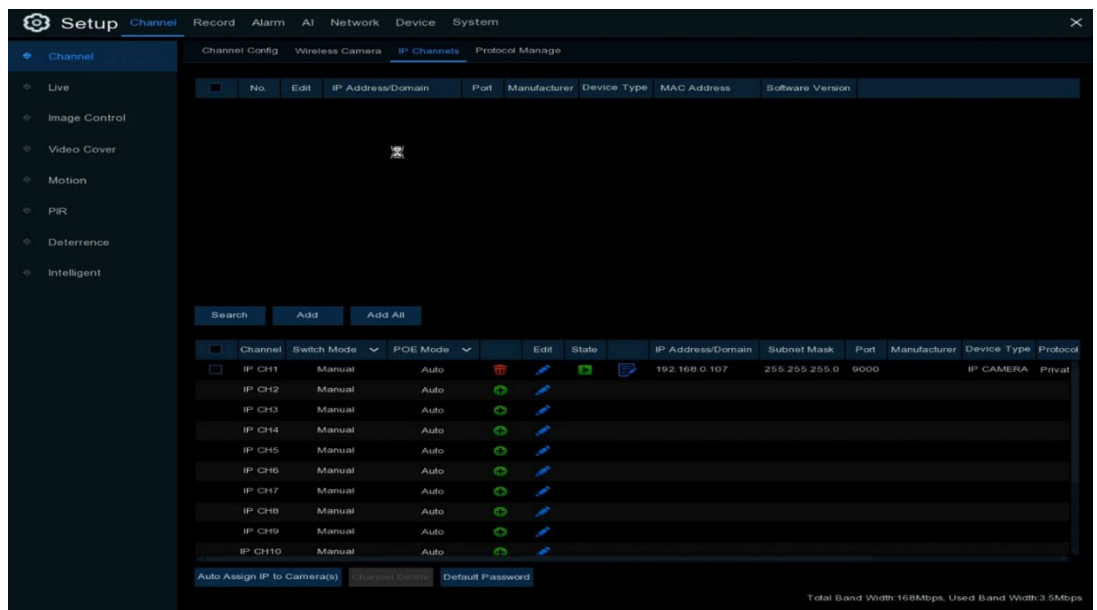
This menu can set the parameters of the wireless camera. If there is no channel of the wireless camera type, this menu is empty.

(Picture here)

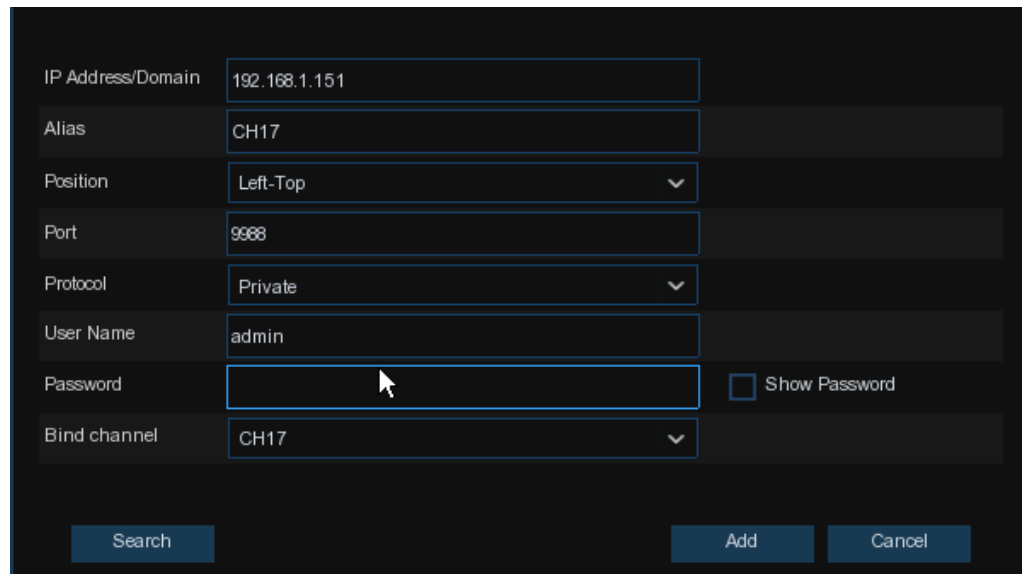
Click the pairing icon to start pairing the wireless camera.

Click Activate to activate and view the current camera image

2.1.1.3. IP Channels



Click **Search** to search IP cameras from local network, click **Add** to add individual IP camera, click **Add All** to add all IP cameras.



The screenshot shows a configuration form for an IP camera. The fields are as follows:

| | |
|-------------------|--------------------------|
| IP Address/Domain | 192.168.1.151 |
| Alias | CH17 |
| Position | Left-Top |
| Port | 9988 |
| Protocol | Private |
| User Name | admin |
| Password | <input type="password"/> |
| Bind channel | CH17 |

At the bottom right of the form, there is a checkbox labeled "Show Password" which is currently unchecked. Below the form are three buttons: "Search", "Add", and "Cancel".

Click **Search** button to search IP cameras, and then click one of the IP camera in the device list.

IP Address/Domain: IP address or domain name of the IP camera

Alias: Name of the IP camera

Position: Position to display the camera name on the screen.

Port: Port of the IP camera

Protocol: Choose the protocol of the IP camera from the dropdown menu

User Name: User Name of the IP camera

Password: Password of the IP camera

Bind channel: Choose a channel of the NVR you want to attach to

Auto Assign IP to Camera(s): The added IP camera would be not able to connect if its IP address is not in the same network segment with NVR. With this function to reassign an IP address to all added IP cameras.

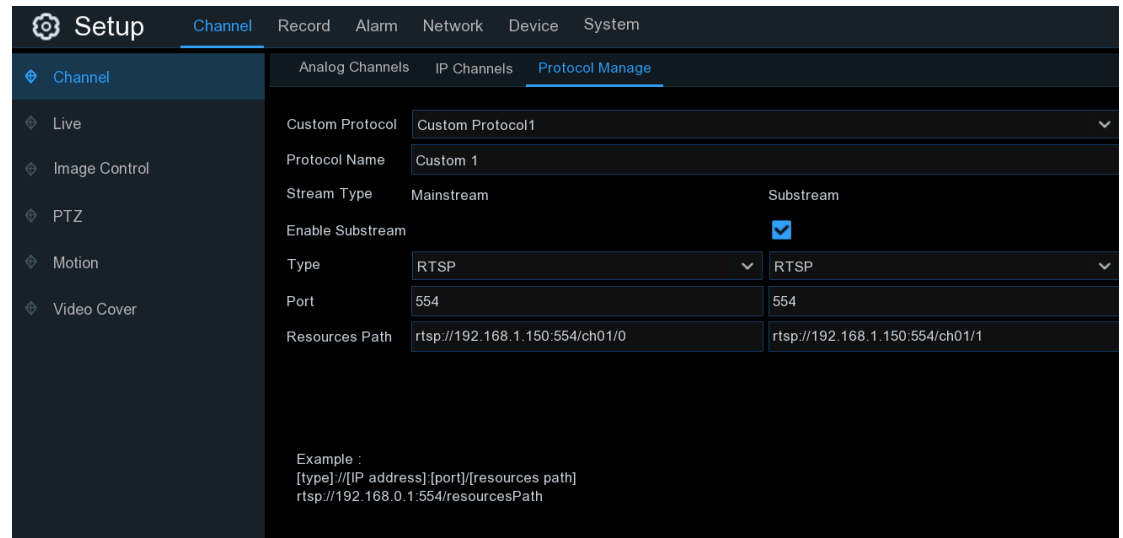
Channel Delete: Choose one or more added IP cameras, and click this button to delete.

Click the drop-down box of switch mode to switch between manual / auto to add IPC mode.

Click the drop-down box of POE mode to select auto mode or EPOE mode.

2.1.1.4. Protocol Manage

With the Protocol Manage, you can edit your own RTSP protocol for IP camera connection.



Custom Protocol: The system support max. 10 custom protocol options.

Protocol Name: To give a name to your custom protocol.

Enable Substream: Check the box if you want to enable sub-stream.

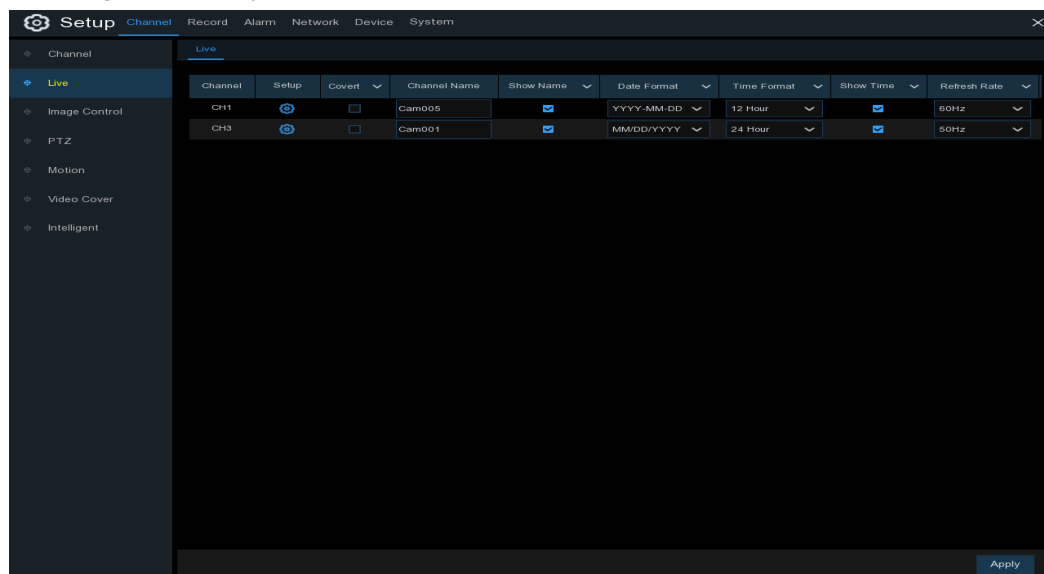
Type: Only RTSP available now.

Port: Input the RTSP port of your IP camera.

Resources Path: Input the RTSP address of your IP camera.

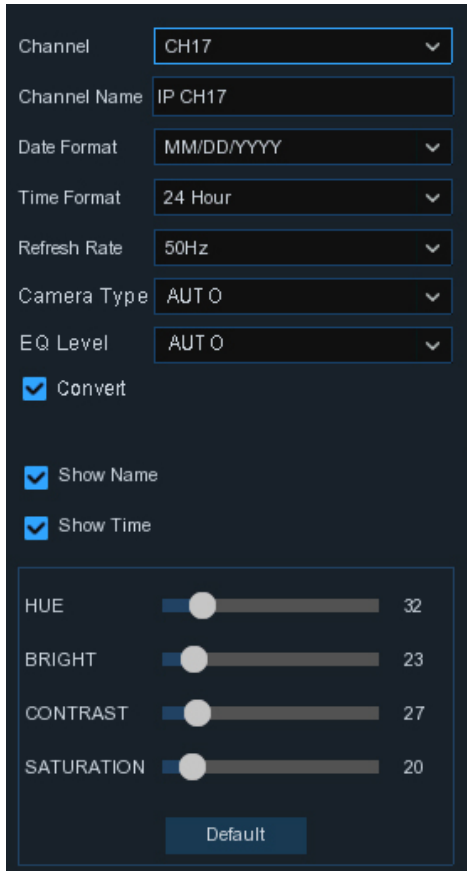
2.1.2. Live

To configure camera parameters.



Channel: Display channel name.

Setup: Click  icon into the setup page.



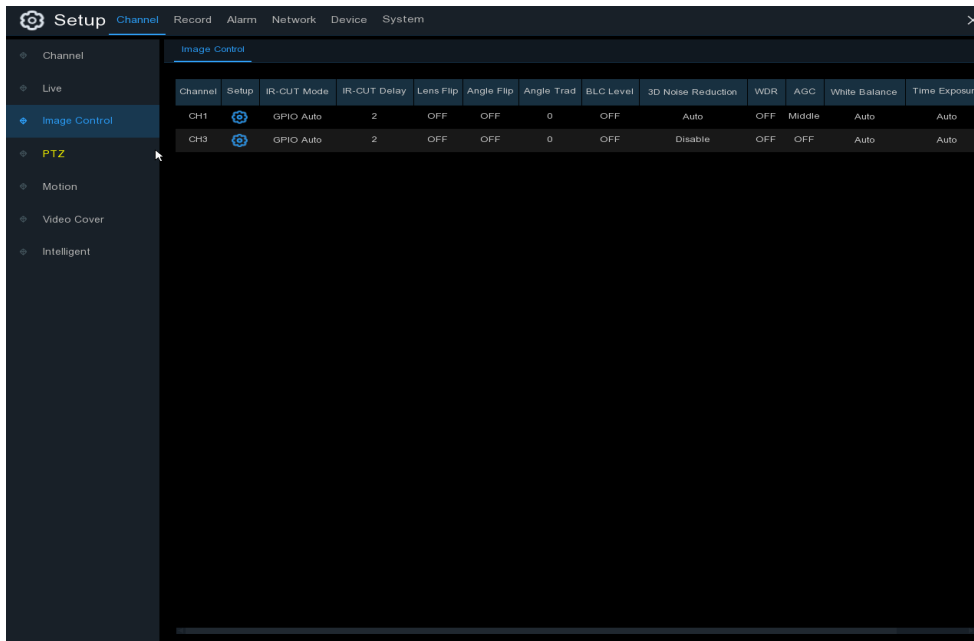
Annotations for the setup interface:

- Choose a channel to configure
- Give a name to the camera
- Date format to display for the camera (for IP camera only)
- Time format to display for the camera (for IP camera only)
- Refresh Rate of the camera (for IP camera only)
- Choose a camera type (Auto, AHD, TVI, CVI) for analog camera
- Choose an AHD EQ (Enhanced Quality) level depends on your camera video cable
- Check the box If you want to hide the live image of this channel
- To show the camera name in live view screen
- To show the system time in live view screen
- Adjust the Hue value for the image color
- Adjust the Bright value for the image color
- Adjust the Contrast value for the image color
- Adjust the Saturation value for the image color



Click **Default** to load default settings, click **Apply** to save settings, click right buttons of your mouse to exit.

2.1.3. Image Control


This menu allows you to control image settings for supported IP cameras.



The Image Control menu displays a table of settings for two channels:

| Channel | Setup | IR-CUT Mode | IR-CUT Delay | Lens Flip | Angle Flip | Angle Trad | BLC Level | 3D Noise Reduction | WDR | AGC | White Balance | Time Exposure |
|---------|---|-------------|--------------|-----------|------------|------------|-----------|--------------------|-----|--------|---------------|---------------|
| CH1 |  | GPIO Auto | 2 | OFF | OFF | 0 | OFF | Auto | OFF | Middle | Auto | Auto |
| CH3 |  | GPIO Auto | 2 | OFF | OFF | 0 | OFF | Disable | OFF | OFF | Auto | Auto |

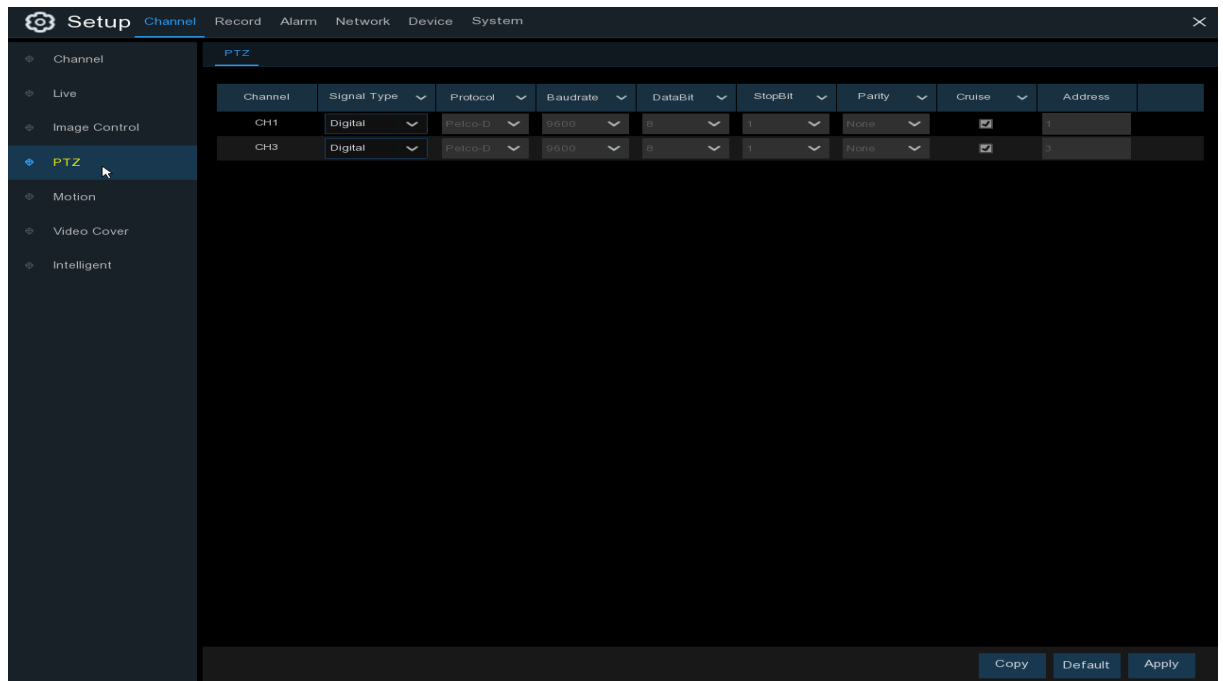
Channel: Channel name.

Setup: Click  icon into the setup page.

| | | | |
|------------------------------------|-------------------------------------|-----|--|
| Channel | CH17 | ▼ | → Choose a channel to configure |
| IR-CUT Mode | GPIO Auto | ▼ | → Select the desired built-in IR cut filter mode to ensure the camera works properly both in the day and night. |
| IR-CUT Delay | <input type="range" value="2"/> | 2 | → Set the delay time of IR-CUT switching |
| <input type="checkbox"/> Lens Flip | <input type="checkbox"/> Angle Flip | | → Check to enable lens flip and angle flip |
| Angle Trad | 0 | ▼ | → Set the flip angle |
| Back Light | Enable | ▼ | → To enable or disable Backlight compensation |
| BLC Level | Low | ▼ | → Choose the backlight compensation level |
| 3D Noise Reduction | Auto | ▼ | → To enable or disable 3D noise reduction function |
| Level | <input type="range" value="128"/> | 128 | → Set the 3D noise reduction level |
| WDR | Enable | ▼ | → Enable to allow automatically adjust the brightness and contrast of the video when shooting in the darkness with bright light sources. |
| Level | <input type="range" value="128"/> | 128 | → Set the WDR level |
| AGC | Middle | ▼ | → Automatic Gain Control |
| White Balance | Auto | ▼ | → Configure white balance |
| Shutter | Auto | ▼ | → Set the shutter mode |
| Time Exposure | 1/8 | ▼ | → Choose the exposure time of the camera |
| Defog Mode | Auto | ▼ | → Use in foggy environments to improve the video quality |

2.1.4. PTZ

This menu allows you to configure the PTZ (Pan-Tilt-Zoom) settings for the dome camera



Channel: Channel name

Signal Type: Analog for analog channels, Analog & Digital for IP channels.

Protocol: Choose the communication protocol between the PTZ capable camera and NVR. If your camera support UTC (Up the Coax) function, you can choose COAX1 or COAX2 to display your camera OSD menu or control the UTC PTZ function.

Baudrate: The speed of the information sent from the NVR to the PTZ-capable camera. Make sure it matches the compatibility level of your PTZ-capable camera.

DataBit / StopBit: The information between the NVR and PTZ-capable camera is sent in individual packages. The **DataBit** indicates the number of bits sent, while the **EndBit** indicates the end of the package and the beginning of the next (information) package. The available parameters for **DataBit** are: **8, 7, 6, 5**. the available parameters for the **StopBit** are **1 or 2**.


Parity: For error check. See the documentation of your PTZ-capable camera, to configure this setting.

Cruise: Enable to use the Cruise mode. In order to use the Cruise mode, you need to set a number of preset points.

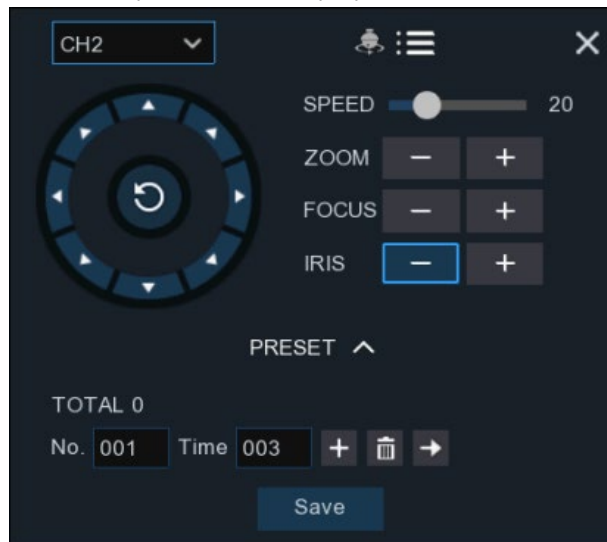
Address: Set the command address of the PTZ system. Please be noted that each PTZ-capable camera needs a unique address to function properly

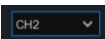




2.1.4.1. PTZ control





After finishing the PTZ setup, you can use the PTZ function to control your PTZ camera.

1) Click left your mouse upon a channel on Live Viewing screen to open [Camera Quick Toolbar](#), and choose the PTZ control icon .

2) PTZ control panel will be displayed.

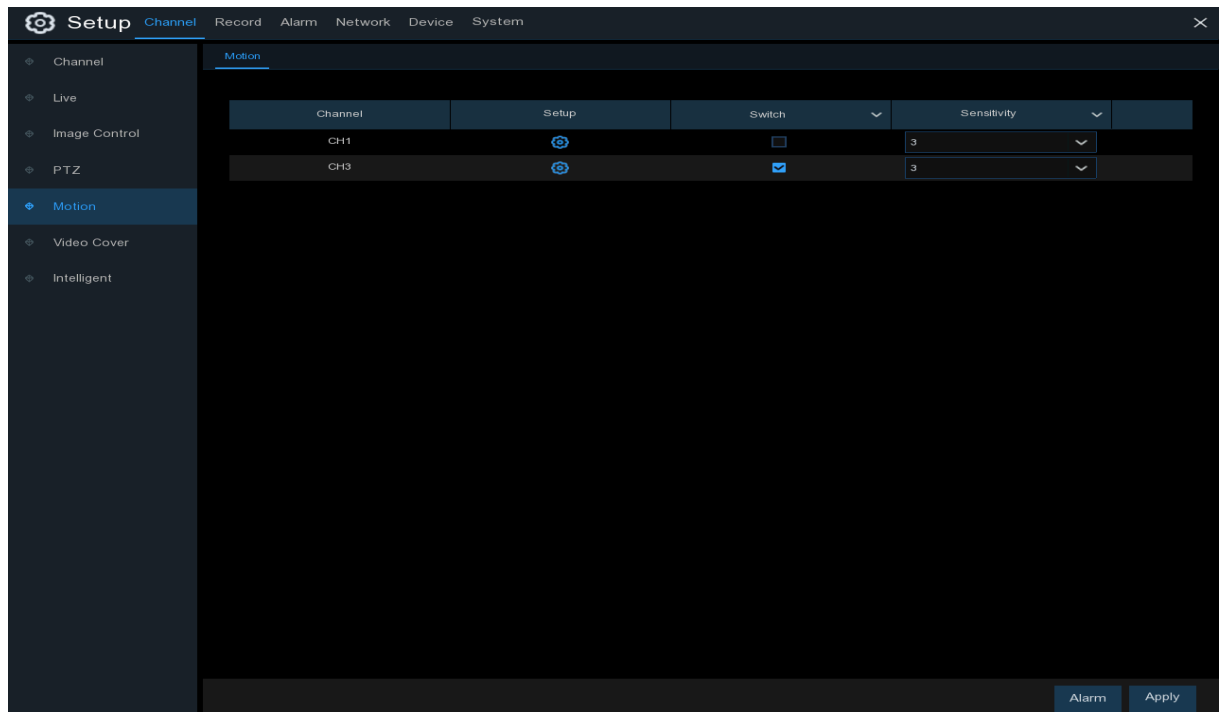



| No. | Icon | Item | Description |
|-----|---|---------------|---|
| 1 |  | Channel | Click to select the channel of the PTZ camera. |
| 2 |  | Cruise | Start / stop PTZ cruise by preset points. Make sure you had enable the Cruise function for this channel in 5.1.4 PTZ . |
| 3 |  | UTC Menu | If you have chosen protocol for this channel as COAX1 or COAX2, the UTC menu button will be display. Click this icon to enter UTC OSD menu. It is also the confirm button for your selection in the UTC OSD menu. |
| 4 | Speed | Speed | Adjust the PTZ speed |
| 5 |  | Pointer Panel | A) Click the direction arrow to select the direction of the PTZ camera B) Click up/down/left/right arrow to move cursor in UTC OSD menu C) Click  to switch to auto pan mode |
| 6 | - ZOOM + | Zoom | Click to zoom in/out. |
| | - FOCUS + | Focus | Click to adjust the focus |

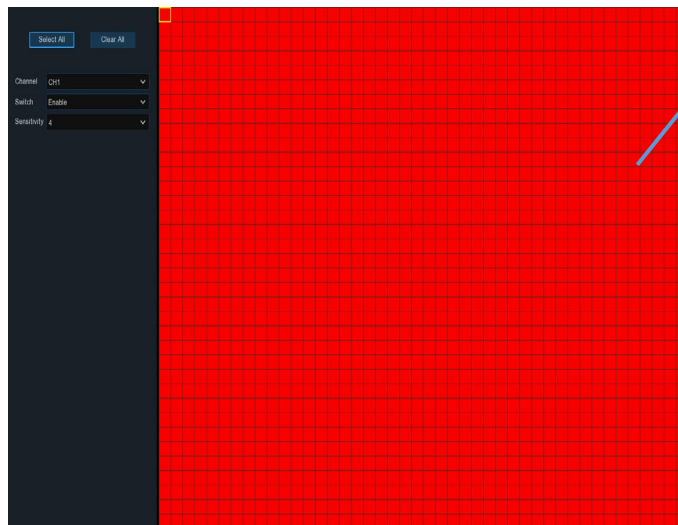
| | | | |
|----|---|--------|--|
| | - IRIS + | Iris | Click to adjust the iris setting |
| 7 |  | PRESET | To display or hide the preset point panel |
| 8 | Total | Total | Display the total number of preset points |
| 9 | No. | No. | Number of preset point |
| 10 | Time | Time | Set the time how long the camera will stay in the preset point |
| 11 | Save | Save | Click to save the settings and preset points |
| 12 |  | set | Enter the number of a specific preset point, click this button to move your PTZ camera to the preset point |
| 13 |  | Delete | Click to delete the selected preset point |
| 14 |  | Go to | Click to set a specific preset point on a PTZ camera. You can add up to 255 preset points for the NVR. |

2.1.5. Motion

This menu allows you to configure motion parameters. When motion has been detected by one or more cameras, your NVR will alert you to a potential threat at your home. It does this by sending you an email alert with an attached image from the camera to use as a reference (if this option is enabled) and/or sending push notifications via the mobile app.



Setup: Click  icon into the setup page.



Oqvqp'F gvevqp'Ctgc<

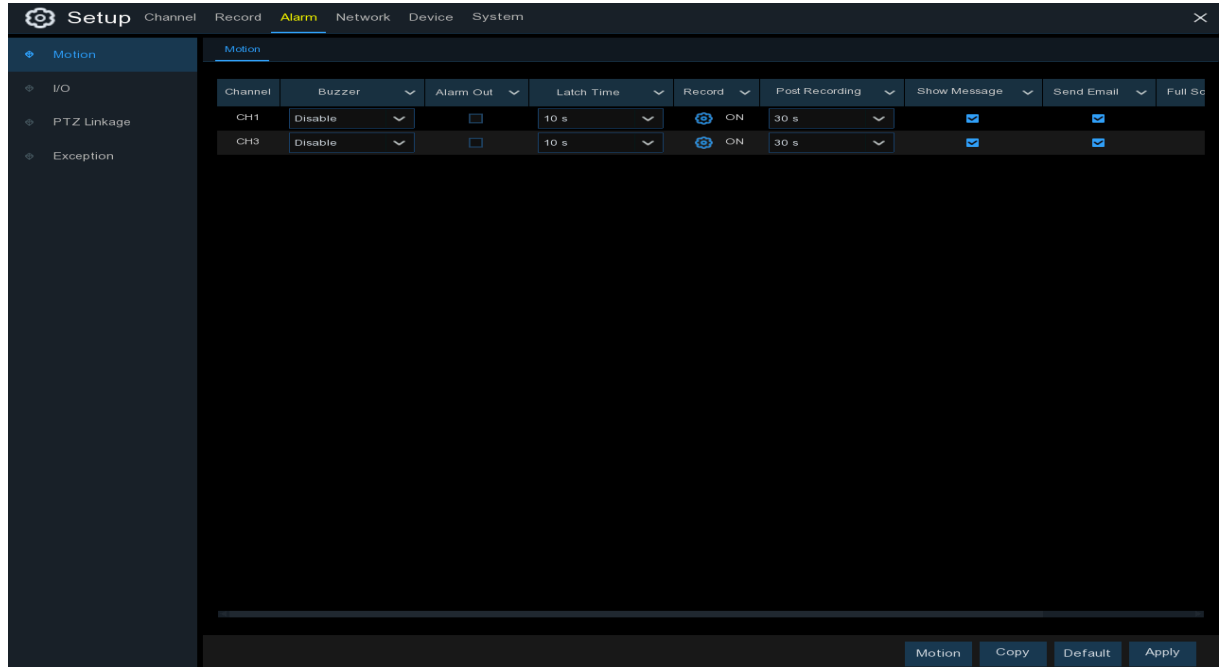
The whole screen is marked for motion detection (red blocks) as default. If you want to disable the motion detection on a certain area, click the grid cursor and then drag the mouse to highlight the scope to unmark the area into transparent blocks. After setting is completed, click the right button of your mouse to return and click **Ucxg** to make

Switch: Enable or disable motion detection.

Sensitivity: Set the sensitivity level. Level 1 the lowest sensitivity level while level 8 is the highest sensitivity level.

2.1.6. Alarm

Click **Alarm** button to configure the motion detection alarm function:




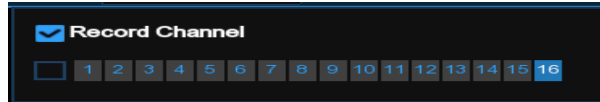
Channel: Channel name

Buzzer: The NVR can use its internal buzzer to emit an alarm tone. You can set the buzzer duration in seconds when the motion is detected.


Alarm Out: Optional function. If your NVR support to connect to external alarm device, you can set to emit an alarm tone.

Latch Time: To configure the external alarm time when motion is detected.

Record: Click  icon and choose which channel(s) you want to record when the motion detection is triggered.



Post Recording: You can set how long after an event occurs that the NVR will continue to record. The recommended recording length is 30 seconds but it can be set higher up to 5 minutes.

Show Message: Check the box to display  icon on the live view screen when the motion is detected.

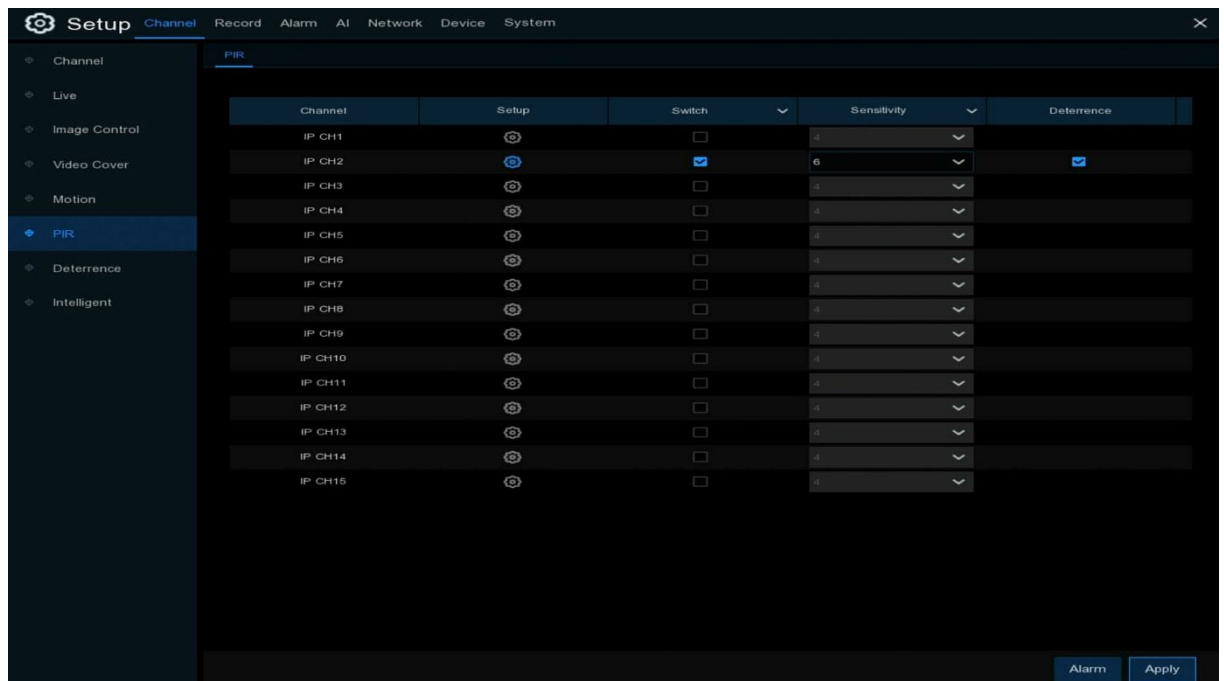
Send Email: You can let the NVR to send you an auto-email when the motion is detected.

FTP Picture Upload: To upload alarm images to FTP server when motion is detected. To enable FTP, please view [2.4.4 FTP](#).


FTP Video Upload: To upload alarm video to FTP server when motion is detected. To enable FTP, please view [2.4.4 FTP](#).

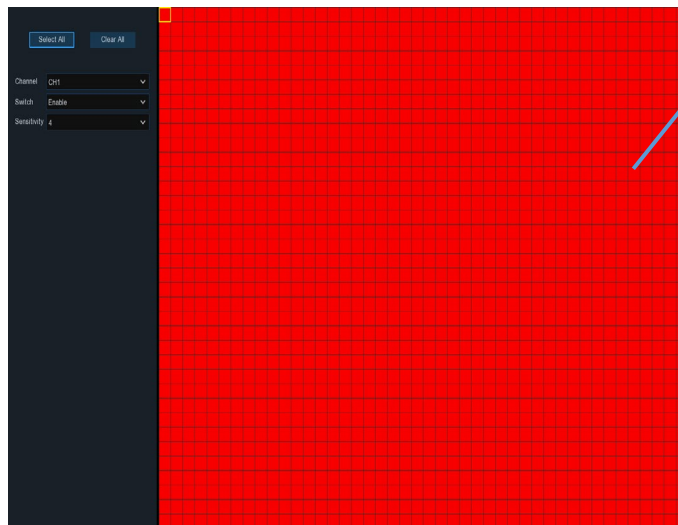
Full Screen: If this function is enabled and a motion is detected in a channel, you will see that channel in full screen.

2.1.7. PIR



In PIR alarm menu, when PIR alarm is triggered, it will send alarm by email and app push that is same working way like motion menu.

Setup: Click  icon into the setup page.



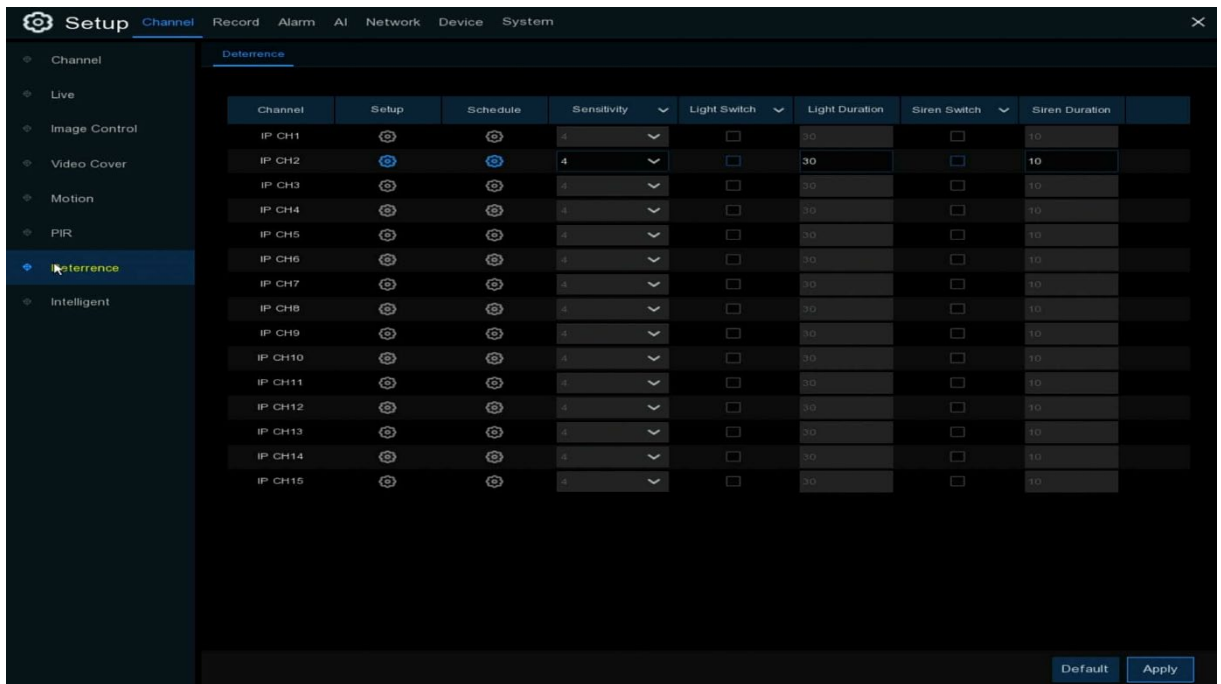
RK'F gveVqp'Ctgc<

The whole screen is marked for PIR detection (red blocks) as default. If you want to disable the PIR detection on a certain area, click the grid cursor and then drag the mouse to highlight the scope to unmark the area into transparent blocks. After setting is completed, click the right button of your mouse to return and click **Ucxg'** to make

Switch: Enable or disable PIR detection.

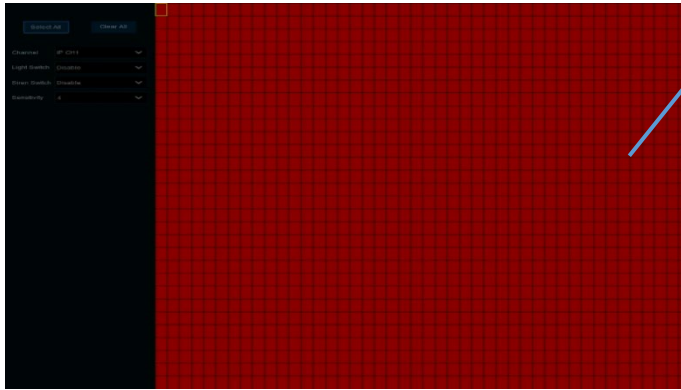
Sensitivity: Set the sensitivity level. Level 1 the lowest sensitivity level while level 8 is the highest sensitivity level.

2.1.8. Deterrence



Here you can set parameters related to white light alarm
Channel: channel name.

Setup: Click icon into the setup page.




Fvgttpeg'ctgc<

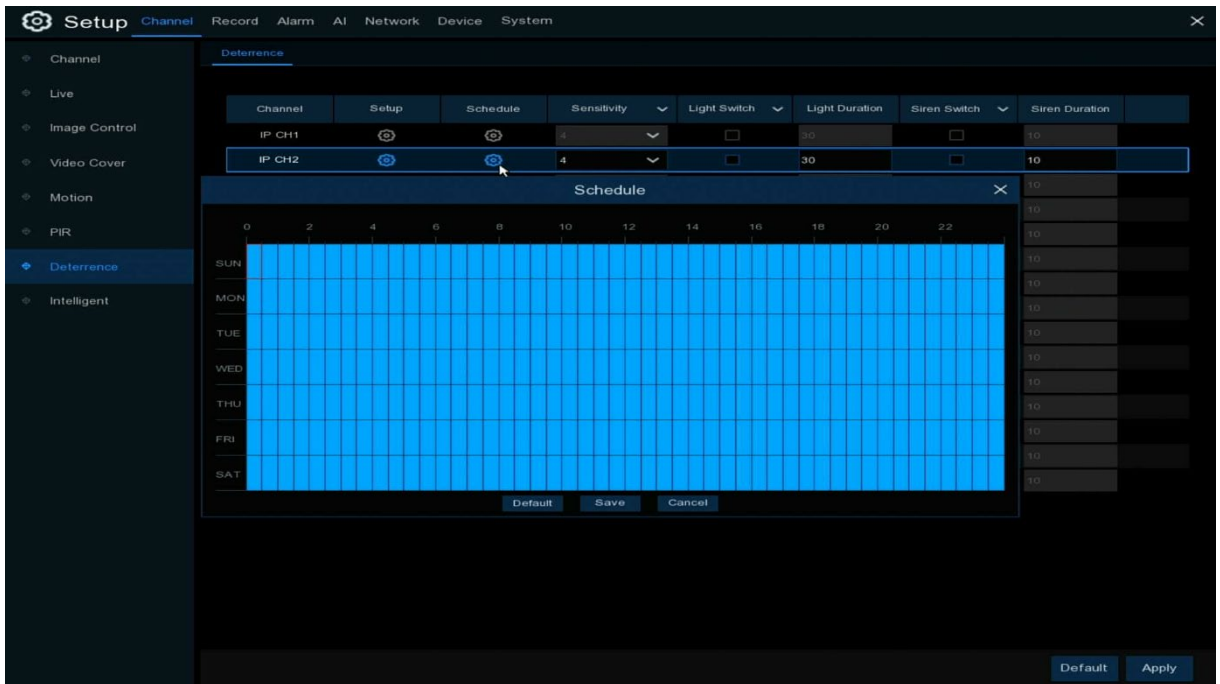
The whole screen is marked for deterrence detection (red blocks) as default. If you want to disable the deterrence detection on a certain area, click the grid cursor and then drag the mouse to highlight the scope to unmark the area into transparent blocks. After setting is completed, click the right button of your mouse to return and click

Light Switch: Enable or disable light warning.

Siren Switch: Enable or disable siren warning.

Sensitivity: Set the sensitivity level. Level 1 the lowest sensitivity level while level 8 is the highest sensitivity level.

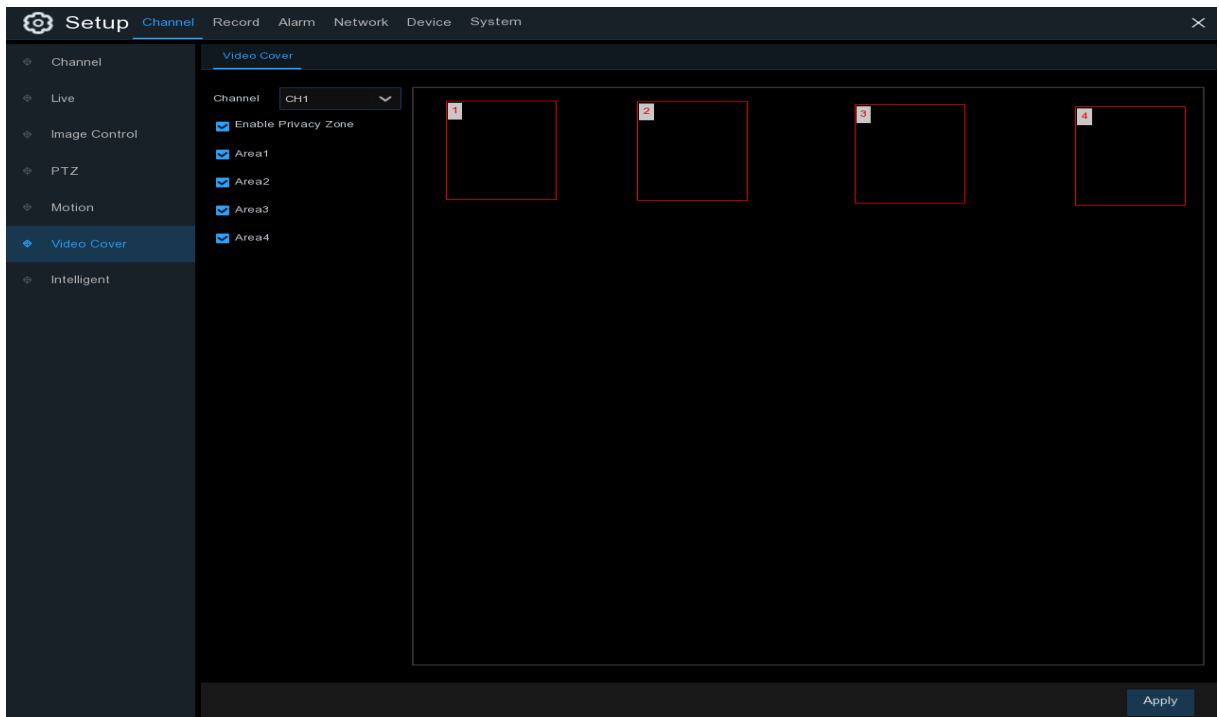
Schedule: click  icon to open the setup page.



When the time slot is marked light blue, this indicates the channel triggers deterrence alarm for that time slot.

2.1.9. Video Cover

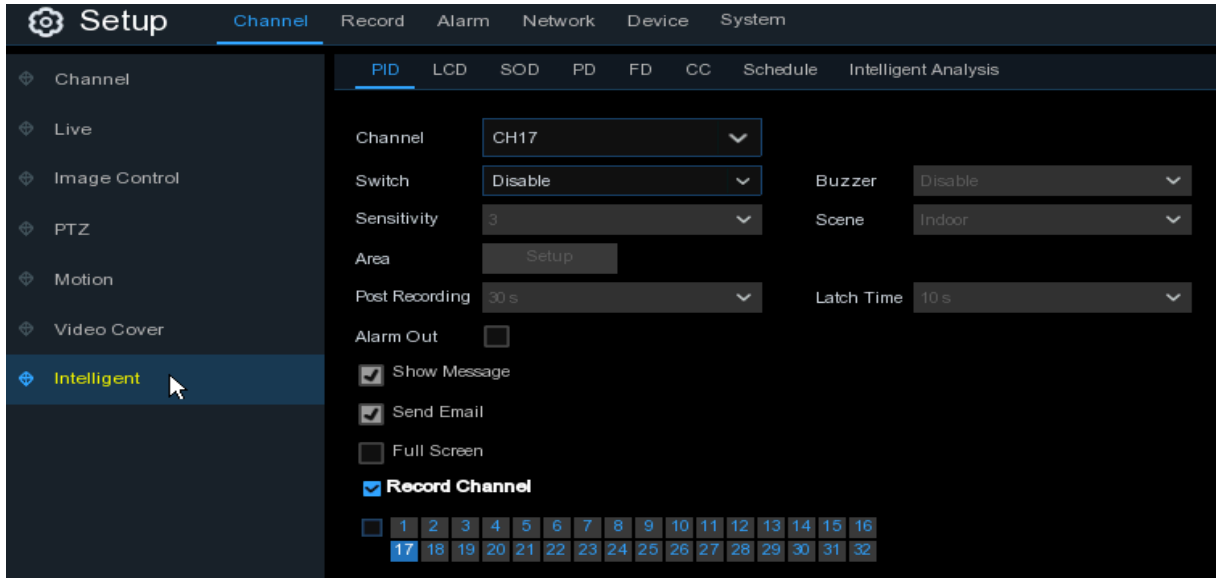
This menu allows you to create privacy zone(s) if you want to partially cover some certain part of the image. You can create up to 4 privacy zones in any size and location on the camera image. Enable the Privacy Zone, and choose how many zones you need. The zone(s) appear as “red box”. Click the edge of the red box and drag it to any size to create a privacy zone.



Note: The area of privacy zones you had set will be invisible in both live view & recording video.

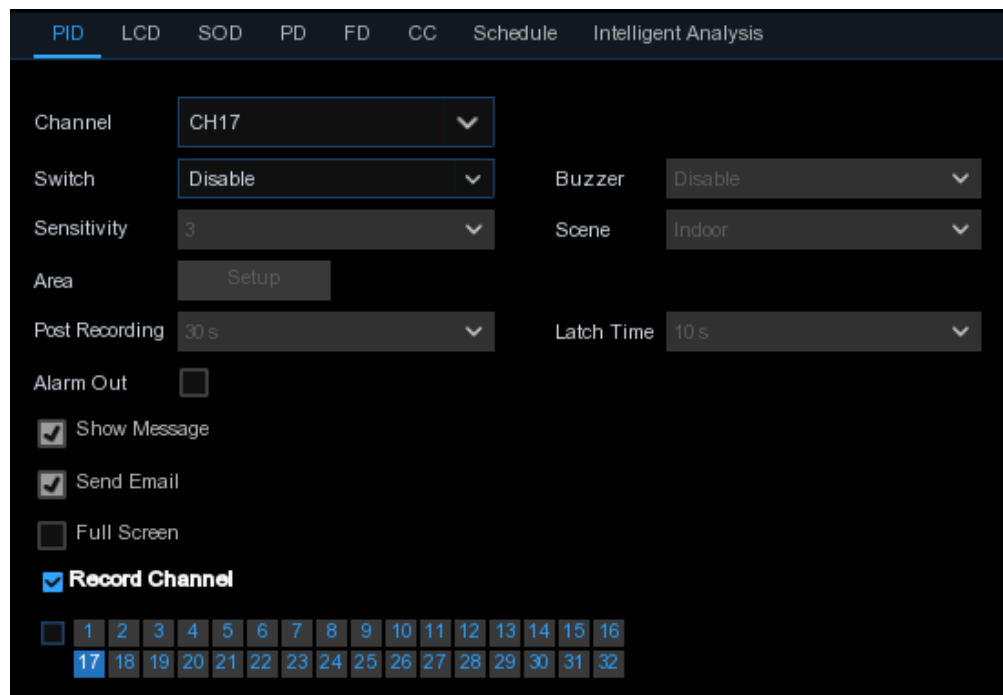
2.1.10. Intelligent

The optional intelligent functions, including **Perimeter Intrusion Detection**, **Line Crossing Detection**, **Stationary Object Detection**, **Pedestrian Detection**, **Face Detection**, and **Cross Counting**.



2.1.10.1. PID (Perimeter Intrusion Detection)

Perimeter Intrusion Detection function detects people, vehicle or other objects which enter and loiter in a pre-defined virtual region, and some certain actions can be taken when the alarm is triggered.



Channel: Select the channel you want to configure

Switch: Enable or disable the PID function

Buzzer: Disable or to active the buzzer to emit an alarm tone in 10, 20, 40 or 60 seconds when the detection is triggered

Sensitive: The sensitivity level is from 1 to 4. Higher sensitivity will be easier to trigger the detection.

Scene: Scene setting includes Indoor and Outdoor. Please choose the scene to match with the place your camera installed.

Post Recording: You can set how long after an event occurs that the NVR will continue to record.

Latch Time: To configure the external alarm time when the detection is triggered.

Alarm Out: If your NVR support to connect to external alarm device, you can set to emit an alarm tone.

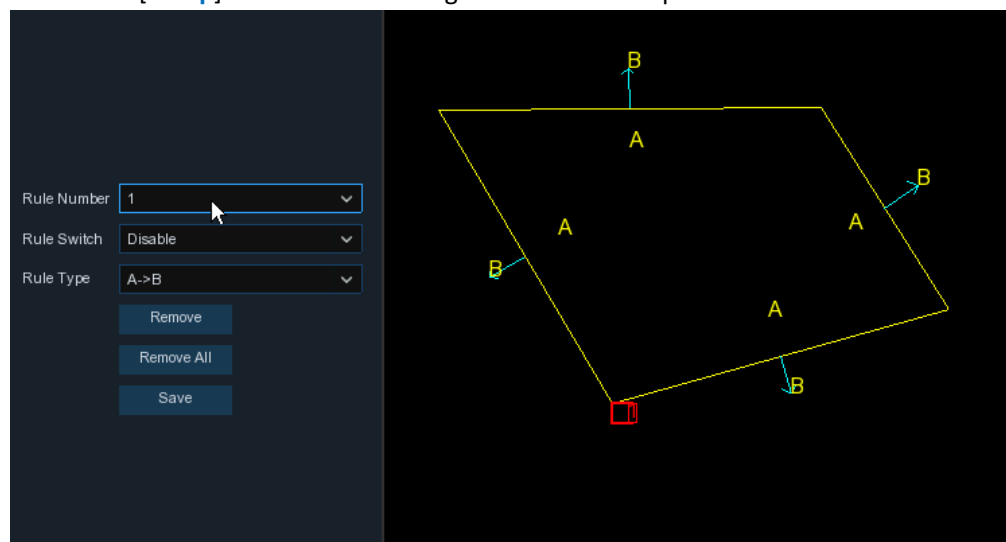
Show Message: A letter "S" will be displayed on the screen when the PID function is triggered.

Send Email: If an alarm is triggered, an Email will be sent to your preset email account.

Full Screen: When the detection is triggered, the channel will be enlarged into full screen.

Record Channel: to select the channel(s) you want to record when a detection is triggered.

Area: Click [**Setup**] to draw a virtual region in the camera picture.

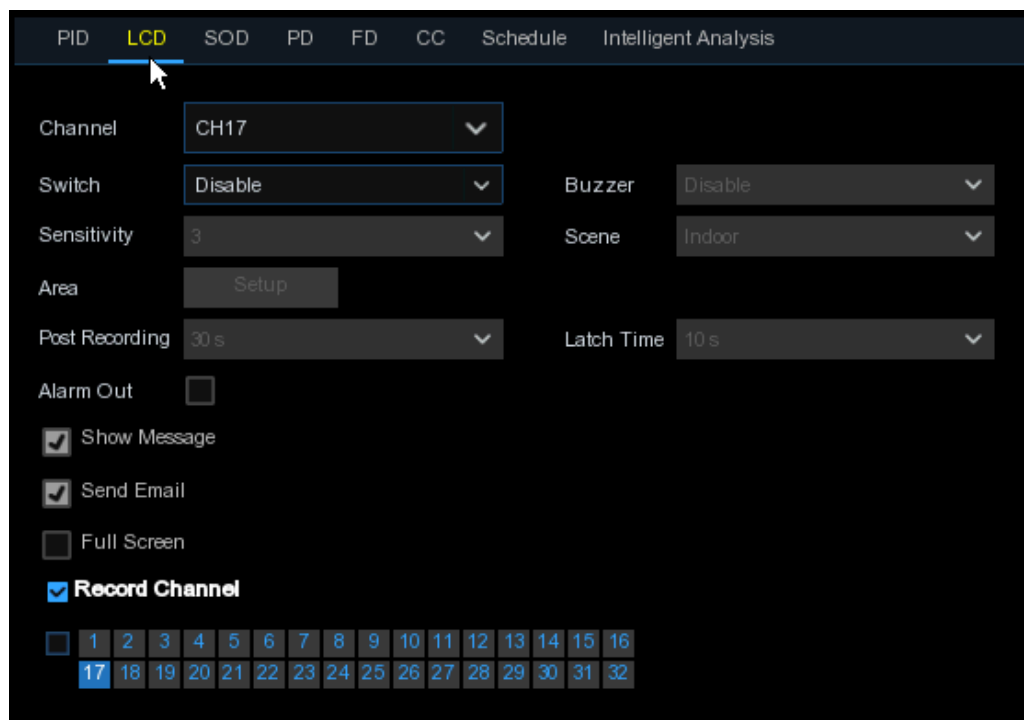


1. Choose one of the Rule Number. It is the number of PID area. Maximum 4 areas you can set for PID function.
2. To enable the detection in **Rule Switch**.

3. Choose a **Rule Type**.
 A→B: NVR will only detect the action from side A to side B;
 B→A: NVR will only detect the action from side B to side A;
 A↔B: NVR will detect the action from either side B to side A or side A to side B.
4. Use your mouse to click 4 points in the camera picture to draw a virtual region. The sharp of the region should be a convex polygon. Concave polygon will be not able to save.
5. Click **Save** to save your settings.
6. If you want to modify the position or sharp of region, click the red box in the region, the borders of the region will be changed to red color. Long press the left button of your mouse to move the position of the region, or drag the corners to resize the region.
7. If you want to remove one of the regions from the camera picture, click the red box in the region and then click **Remove** button. Click **Remove All** will delete all regions.

2.1.10.2. LCD (Line Crossing Detection)

Line Crossing Detection function detects people, vehicle or other objects which cross a pre-defined virtual line, and some certain actions can be taken when the alarm is triggered.



Channel: Select the channel you want to configure

Switch: Enable or disable the LCD function

Buzzer: Disable or to active the buzzer to emit an alarm tone in 10, 20, 40 or 60 seconds when the detection is triggered

Sensitive: The sensitivity level is from 1 to 4. Higher sensitivity will be easier to trigger the detection.

Scene: Scene setting includes Indoor and Outdoor. Please choose the scene to match with the place your camera installed.

Post Recording: You can set how long after an event occurs that the NVR will continue to record.

Latch Time: To configure the external alarm time when the detection is triggered.

Alarm Out: If your NVR support to connect to external alarm device, you can set to emit an alarm tone.

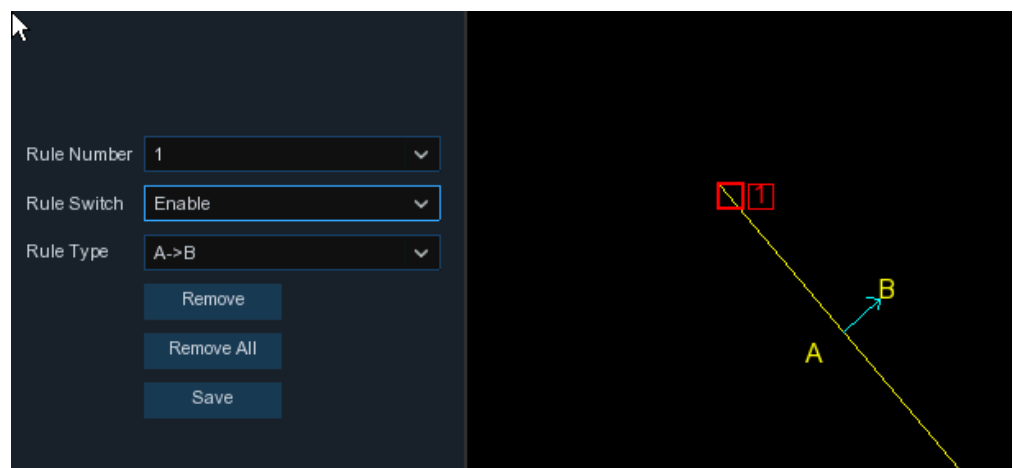
Show Message: A letter "S" will be displayed on the screen when the LCD function is triggered.

Send Email: If an alarm is triggered, an Email will be sent to your preset email account.

Full Screen: When the detection is triggered, the channel will be enlarged into full screen.

Record Channel: to select the channel(s) you want to record when a detection is triggered.

Area: Click [Setup] to draw a virtual line in the camera picture.



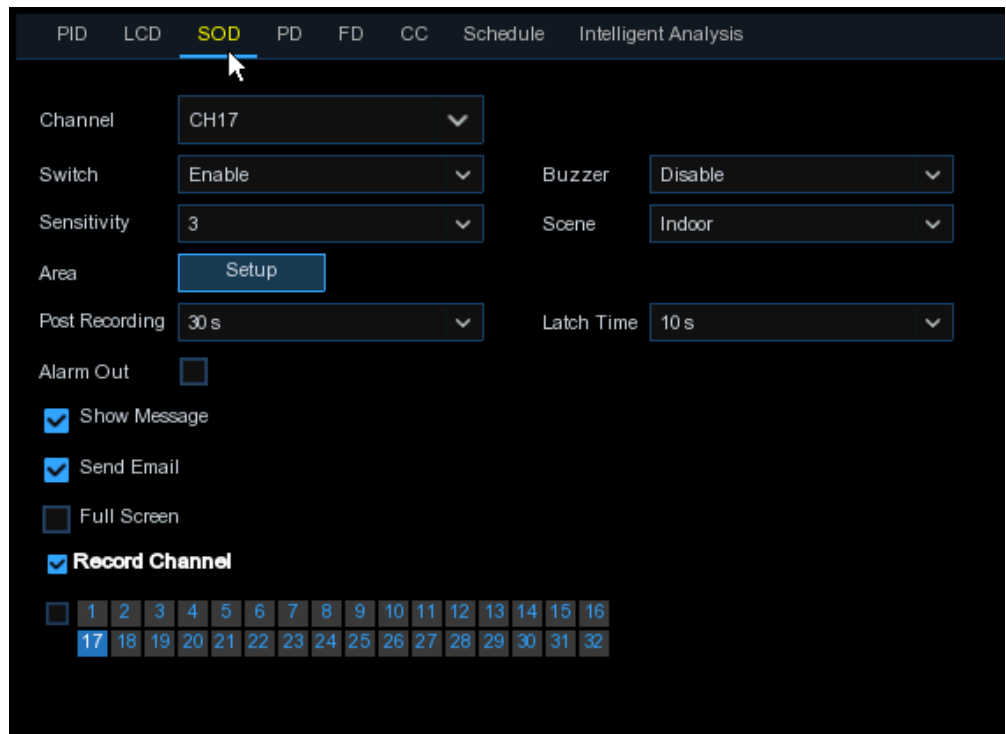
1. Choose one of the Rule Number. It is the number of LCD lines. Maximum 4 lines you can draw.
2. To enable the detection in **Rule Switch**.
3. Choose a **Rule Type**.

A→B: NVR will only detect the action from side A to side B;
B→A: NVR will only detect the action from side B to side A;
A↔B: NVR will detect the action from either side B to side A or side A to side B.

4. Use your mouse to click 2 points in the camera picture to draw a virtual line.
5. Click **Save** to save your settings.
6. If you want to modify the position or length of the line, click the red box in the line, the color of the line will be changed to red color. Long press the left button of your mouse to move the line, or drag the terminals to modify the length or position of the line.
7. If you want to remove one of the lines from the camera picture, click the red box in the line and then click **Remove** button. Click **Remove All** will delete all lines.

2.1.10.3. SOD (Stationary Object Detection)

Stationary Object Detection function detects the objects left over or lost in the pre-defined region such as the baggage, purse, dangerous materials, etc., and a series of actions can be taken when the alarm is triggered.



The screenshot shows the SOD configuration menu. At the top, there are tabs for PID, LCD, SOD (highlighted), PD, FD, CC, Schedule, and Intelligent Analysis. The SOD settings include: Channel (CH17), Switch (Enable), Sensitivity (3), Area (Setup button), Post Recording (30 s), Alarm Out (checkbox), Buzzer (Disable), Scene (Indoor), Latch Time (10 s), Show Message (checked), Send Email (checked), Full Screen (checkbox), and Record Channel (checked). At the bottom, there is a grid of channel numbers from 1 to 32, with channel 17 selected.

Channel: to select the channel you want to configure

Switch: to enable or disable the SOD function

Buzzer: to disable or to active the buzzer to emit an alarm tone in 10, 20, 40 or 60 seconds when the detection is triggered

Sensitive: The sensitivity level is from 1 to 4, with a default value of 2. Higher sensitivity will be easier to trigger the detection.

Scene: Scene setting includes Indoor and Outdoor. Please choose the scene to match with the place your camera installed.

Post Recording: You can set how long after an event occurs that the NVR will continue to record.

Latch Time: To configure the external alarm time when the detection is triggered.

Alarm Out: If your NVR support to connect to external alarm device, you can set to emit an alarm tone.

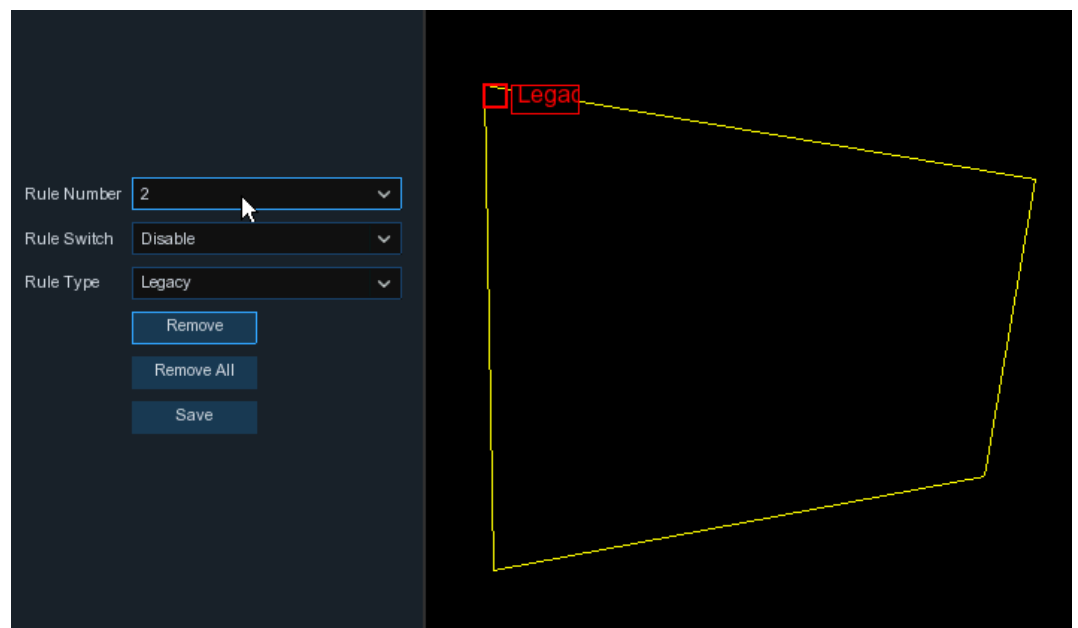
Show Message: A letter “S” will be displayed on the screen when the intelligent detection is triggered.

Send Email: If an alarm is triggered, an Email will be sent to your preset email account.

Full Screen: When the detection is triggered, the channel will be enlarged into full screen.

Record Channel: to select the channel(s) you want to record when a detection is triggered.

Area: Click [**Setup**] to draw a virtual region in the camera picture.



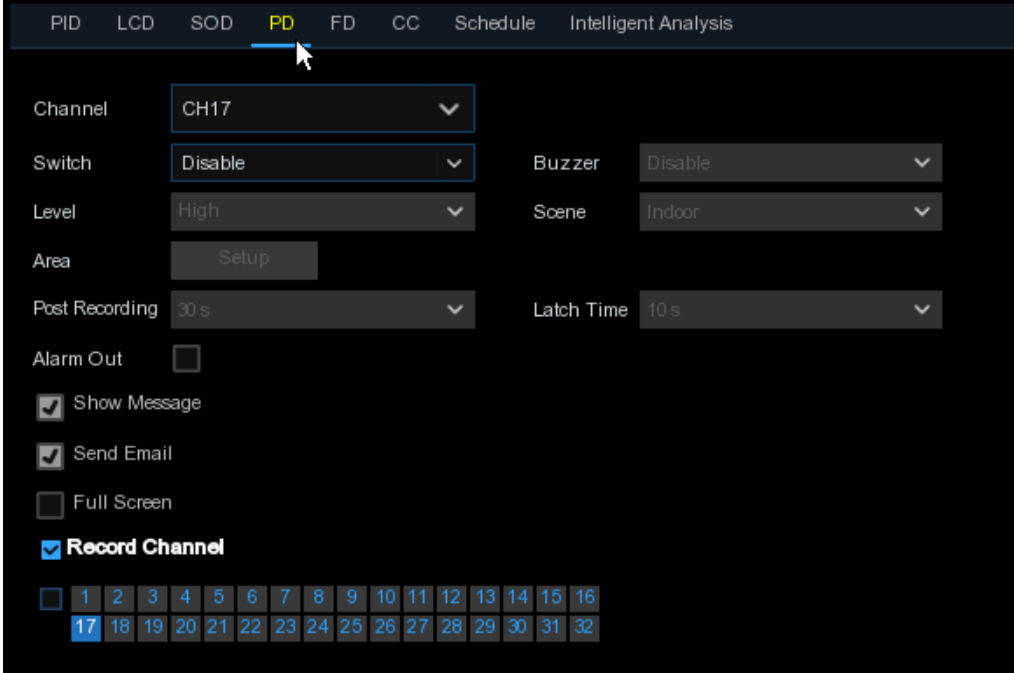
1. Choose one of the Rule Number. It is the number of SOD area. Maximum 4 areas you can set for SOD function.
2. To enable the detection in **Rule Switch**.
3. Choose a **Rule Type**.
Legacy: NVR will only detect the left-over objects;
Lost: NVR will only detect the lost objects;

Legacy & Lost: NVR will detect both left-over & lost objects.

4. Use your mouse to click 4 points in the camera picture to draw a virtual region. The shape of the region should be a convex polygon. Concave polygon will be not able to save.
5. Click **Save** to save your settings.
6. If you want to adjust the size of the region, click the red box in the region, the borders of the region will be changed to red color. Long press the left button of your mouse to move the whole region, or drag the corners to resize the region.
7. If you want to remove one of the regions from the camera picture, click the red box in the region and then click **Remove** button. Click **Remove All** will delete all regions.

2.1.10.4. PD (Pedestrian Detection)

Pedestrian Detection function detects the moving people in a pre-defined region, and a series of actions can be taken when the alarm is triggered.



The screenshot displays the configuration page for Pedestrian Detection (PD) in a dark-themed interface. At the top, there are navigation tabs: PID, LCD, SOD, PD (highlighted), FD, CC, Schedule, and Intelligent Analysis. The main configuration area includes the following settings:

- Channel: CH17 (dropdown menu)
- Switch: Disable (dropdown menu)
- Buzzer: Disable (dropdown menu)
- Level: High (dropdown menu)
- Scene: Indoor (dropdown menu)
- Area: Setup (button)
- Post Recording: 30 s (dropdown menu)
- Latch Time: 10 s (dropdown menu)
- Alarm Out:
- Show Message:
- Send Email:
- Full Screen:
- Record Channel:

At the bottom, there is a grid of 32 channel selection buttons, numbered 1 to 32. Channel 17 is currently selected and highlighted in blue.

Channel: to select the channel you want to configure

Switch: to enable or disable the PD function

Buzzer: to disable or to active the buzzer to emit an alarm tone in 10, 20, 40 or 60 seconds when the detection is triggered

Level: Small, Middle & Big. Small level is recommended to detect objects in long distance. Big level is recommended to detect objects in short distance.

Scene: Scene setting includes Indoor and Outdoor. Please choose the scene to match with the place your camera installed.

Post Recording: You can set how long after an event occurs that the NVR will continue to record.

Latch Time: To configure the external alarm time when the detection is triggered.

Alarm Out: If your NVR support to connect to external alarm device, you can set to emit an alarm tone.

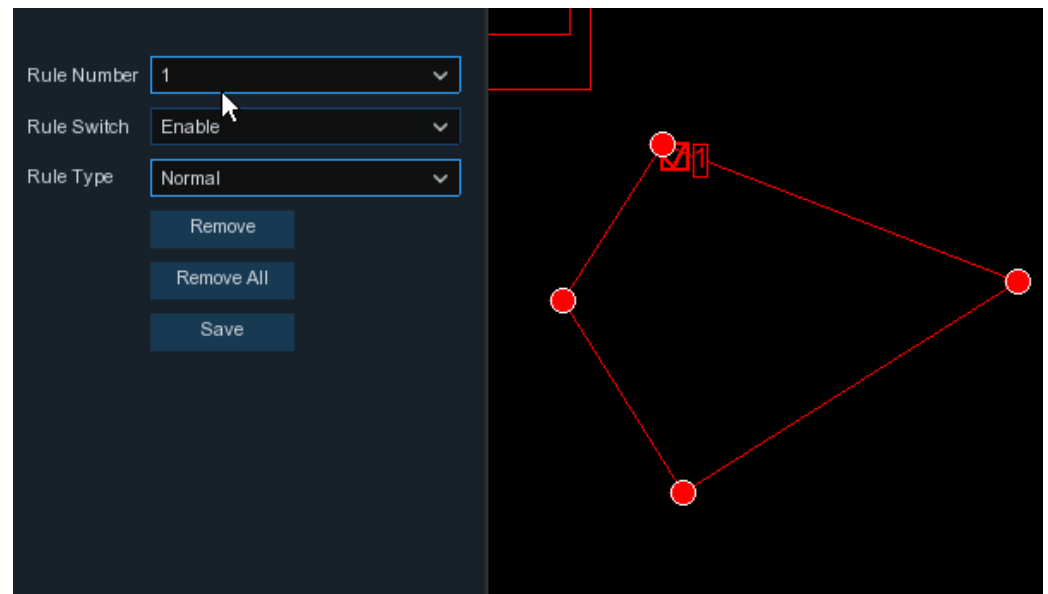
Show Message: A letter “S” will be displayed on the screen when the intelligent detection is triggered.

Send Email: If an alarm is triggered, an Email will be sent to your preset email account.

Full Screen: When the detection is triggered, the channel will be enlarged into full screen.

Record Channel: to select the channel(s) you want to record when a detection is triggered.

Area: Click [**Setup**] to draw a virtual region in the camera picture.

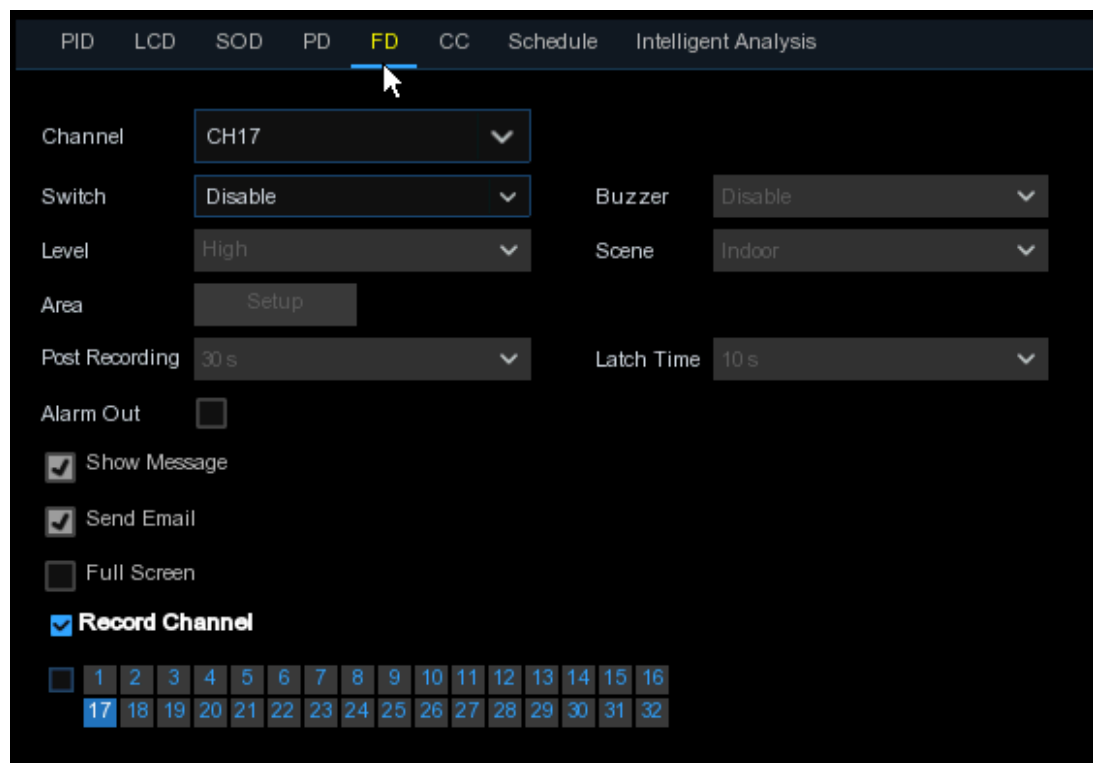


1. Choose one of the Rule Number. It is the number of PD area. Maximum 4 areas you can set for PD function.
2. To enable the detection in **Rule Switch**.
3. Choose a **Rule Type**, only Normal available for this detection.
4. Use your mouse to click 4 points in the camera picture to draw a virtual region. The shape of the region should be a convex polygon. Concave polygon will be not able to save.
5. Click **Save** to save your settings.

6. If you want to adjust the size of the region, click the red box in the region, the borders of the region will be changed to red color. Long press the left button of your mouse to move the whole region, or drag the corners to resize the region.
7. If you want to remove one of the regions from the camera picture, click the red box in the region and then click **Remove** button. Click **Remove All** will delete all regions.

2.1.10.5. FD (Face Detection)

Face Detection function detects the faces of moving people appear in a pre-defined region, and a series of actions can be taken when the alarm is triggered.



The screenshot shows the 'FD' (Face Detection) configuration screen. At the top, there are navigation tabs: PID, LCD, SOD, PD, **FD**, CC, Schedule, and Intelligent Analysis. The 'FD' tab is selected. Below the tabs, there are several configuration options:

- Channel: CH17 (dropdown)
- Switch: Disable (dropdown)
- Buzzer: Disable (dropdown)
- Level: High (dropdown)
- Scene: Indoor (dropdown)
- Area: Setup (button)
- Post Recording: 30 s (dropdown)
- Latch Time: 10 s (dropdown)
- Alarm Out:
- Show Message:
- Send Email:
- Full Screen:
- Record Channel:
- A grid of 32 numbered buttons (1-32) for region selection. Buttons 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, and 32 are highlighted in blue.

Channel: to select the channel you want to configure

Enable: to enable or disable the FD function

Buzzer: to disable or to active the buzzer to emit an alarm tone in 10, 20, 40 or 60 seconds when the detection is triggered

Level: Small, Middle & Big. Small level is recommended to detect objects in long distance. Big level is recommended to detect objects in short distance.

Scene: Scene setting includes Indoor and Outdoor. Please choose the scene to match with the place your camera installed.

Post Recording: You can set how long after an event occurs that the NVR will continue to record.

Latch Time: To configure the external alarm time when the detection is triggered.

Alarm Out: If your NVR support to connect to external alarm device, you can set to emit an alarm tone.

Show Message: A letter “S” will be displayed on the screen when the intelligent detection is triggered.

Send Email: If an alarm is triggered, an Email will be sent to your preset email account.

Full Screen: When the detection is triggered, the channel will be enlarged into full screen.

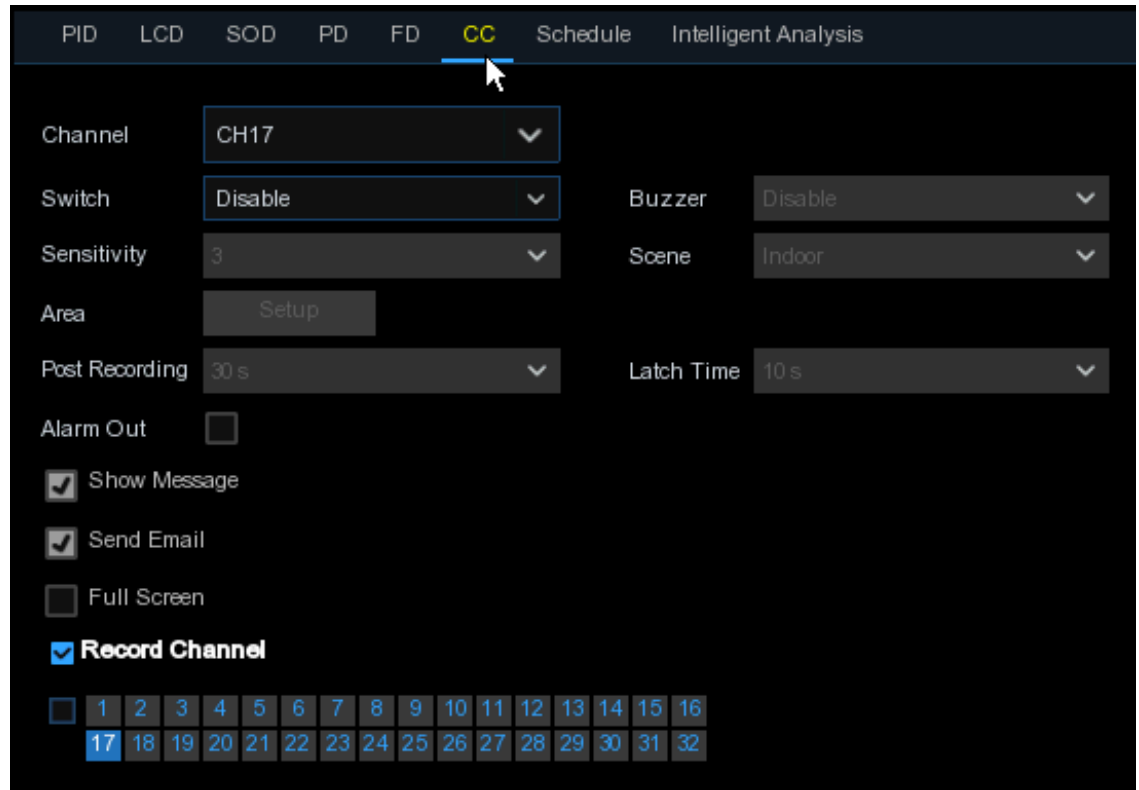
Record Channel: to select the channel(s) you want to record when a detection is triggered.

Area: Click [**Setup**] to draw a virtual region in the camera picture.

1. Choose one of the Rule Number. It is the number of FD area. Maximum 4 areas you can set for FD function.
2. To enable the detection in **Rule Switch**.
3. Choose a **Rule Type**, only Normal available for this detection.
4. Use your mouse to click 4 points in the camera picture to draw a virtual region. The sharp of the region should be a convex polygon. Concave polygon will be not able to save.
5. Click **Save** to save your settings.
6. If you want to adjust the size of the region, click the red box in the region, the borders of the region will be changed to red color. Long press the left button of your mouse to move the whole region, or drag the corners to resize the region.
7. If you want to remove one of the regions from the camera picture, click the red box in the region and then click **Remove** button. Click **Remove All** will delete all regions.

2.1.10.6. CC (Cross-Counting)

Cross-Counting function counts the times for moving objects or people across the virtual lines.



Channel: to select the channel you want to configure

Switch: to enable or disable the CC function

Buzzer: to disable or to active the buzzer to emit an alarm tone in 10, 20, 40 or 60 seconds when the detection is triggered

Sensitive: The sensitivity level is from 1 to 4, with a default value of 2. Higher sensitivity will be easier to trigger the detection.

Scene: Scene setting includes Indoor and Outdoor. Please choose the scene to match with the place your camera installed.

Post Recording: You can set how long after an event occurs that the NVR will continue to record.

Latch Time: To configure the external alarm time when the detection is triggered.

Alarm Out: If your NVR support to connect to external alarm device, you can set to emit an alarm tone.

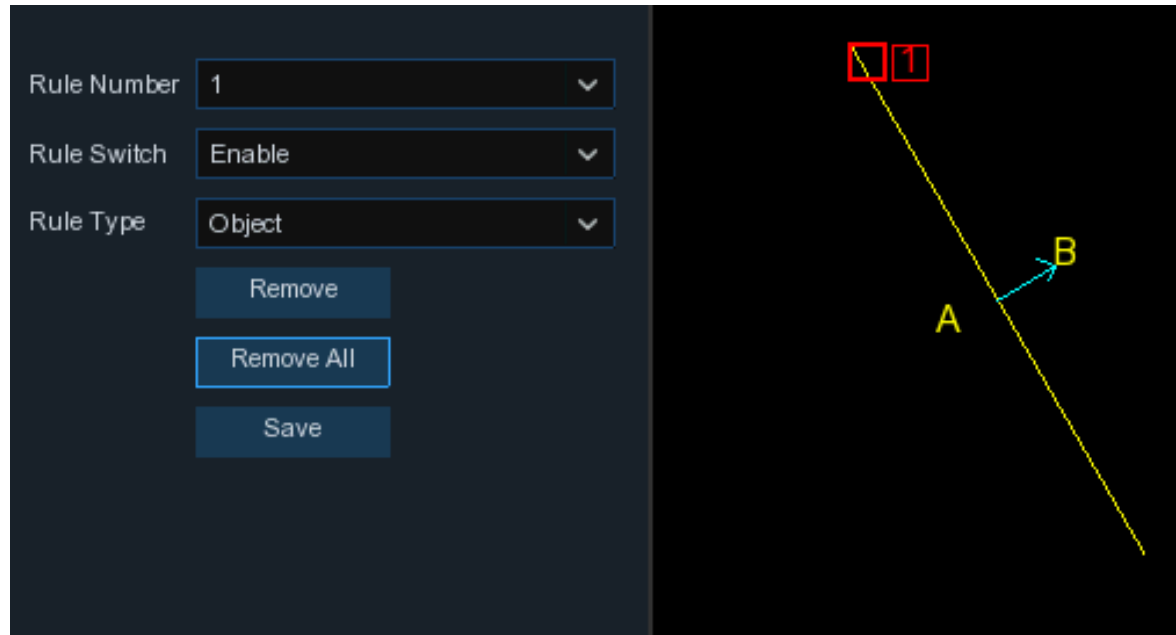
Show Message: A letter "S" will be displayed on the screen when the intelligent detection is triggered.

Send Email: If an alarm is triggered, an Email will be sent to your preset email account.

Full Screen: When the detection is triggered, the channel will be enlarged into full screen.

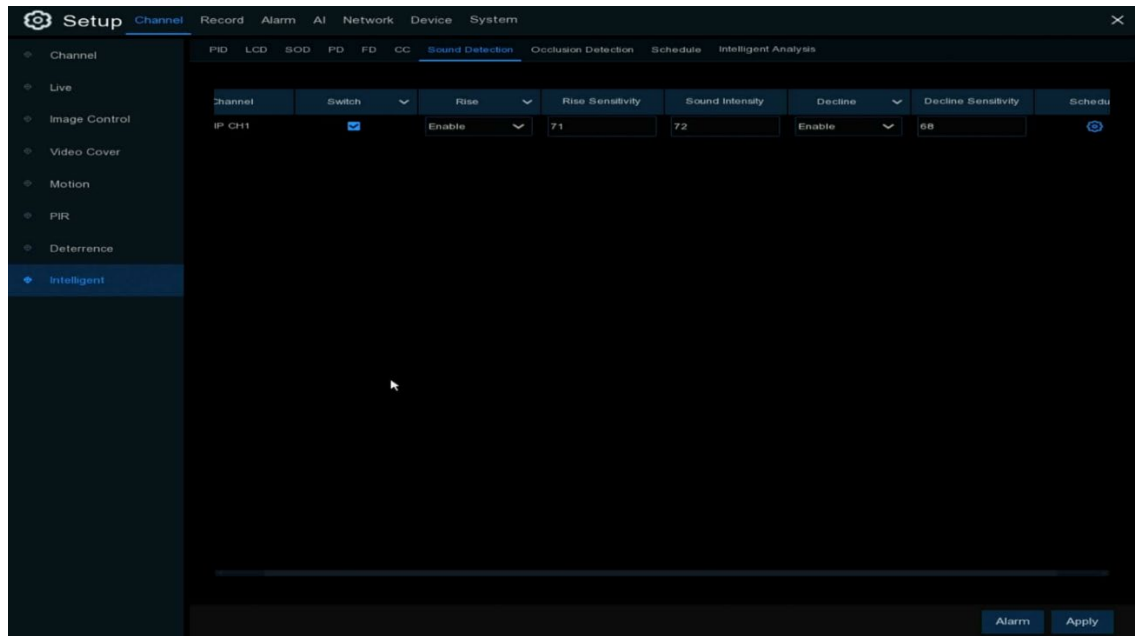
Record Channel: to select the channel(s) you want to record when a detection is triggered.

Area: Click **[Setup]** to draw a virtual region in the camera picture.



1. Choose one of the Rule Number. It is the number of virtual lines you can draw. Maximum 4 lines.
2. To enable the detection in **Rule Switch**.
3. Choose a **Rule Type**
Object: Will count for only moving objects.
Pedestrian: Will count only moving people.
4. Use your mouse to click 2 points in the camera picture to draw a virtual line. From Side A to Side B is Enter, from Side B to Side A is Exit.
5. Click **Save** to save your settings.
6. If you want to modify the position or length of the line, click the red box in the line, the color of the line will be changed to red color. Long press the left button of your mouse to move the line, or drag the terminals to modify the length or position of the line.
7. If you want to remove one of the lines from the camera picture, click the red box in the line and then click **Remove** button. Click **Remove All** will delete all lines.

2.1.10.7. Sound Detection



With the sound detection, it can trigger an alarm while detecting the sound rise or decline, and some certain actions can be taken when the alarm is triggered.

Switch: enable or disable sound detection.

Rise: enable or disable sound rise detection.

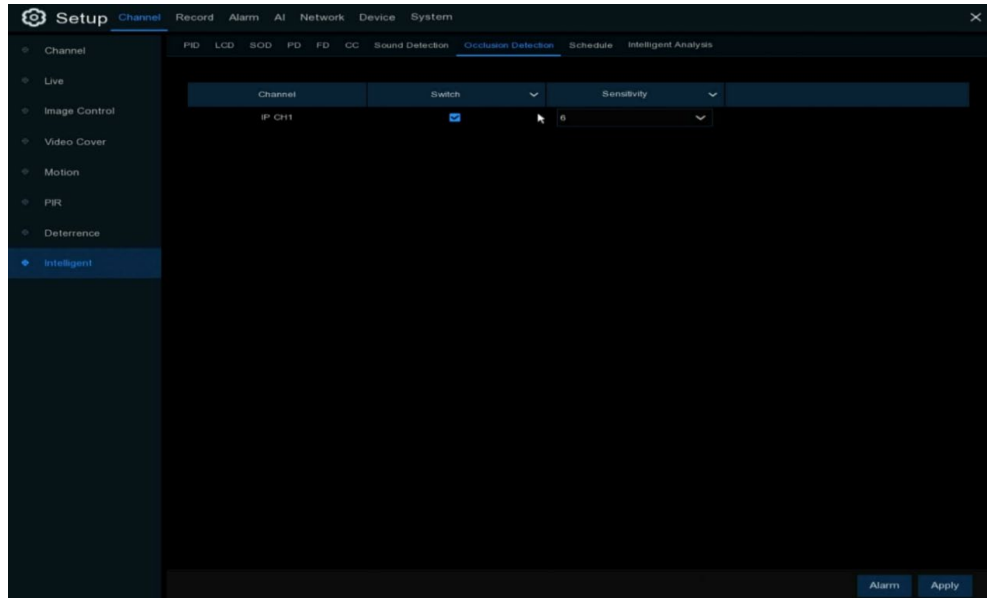
Rise sensitivity: Set the sensitivity level. Level 1 the lowest sensitivity level while level 100 is the highest sensitivity level.

Sound Intensity: set a threshold of sound intensity. The lower the threshold, the higher the sensitivity, and the easier to alarm

Decline: enable or disable sound Decline detection.

Decline sensitivity: Set the sensitivity level. Level 1 the lowest sensitivity level while level 100 is the highest sensitivity level.

2.1.10.8. Occlusion Detection

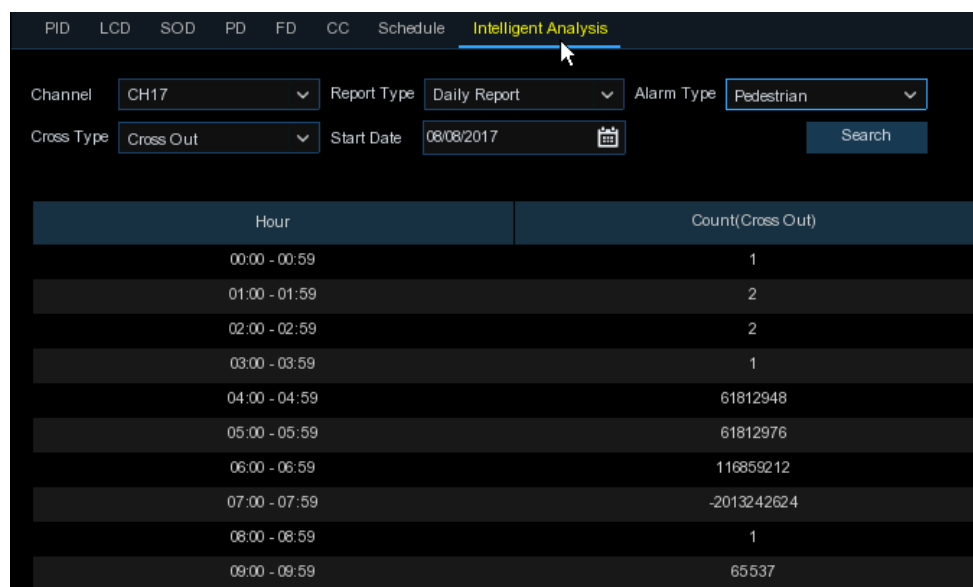


Occlusion detection detects the occlusion of the live view screen, and some certain actions can be taken when the alarm is triggered.

Switch: Enable or disable the LCD function

Sensitivity: The sensitivity level is from 1 to 6, with a default value of 4. Higher sensitivity will be easier to trigger the detection.

2.1.10.9. Intelligent Analysis

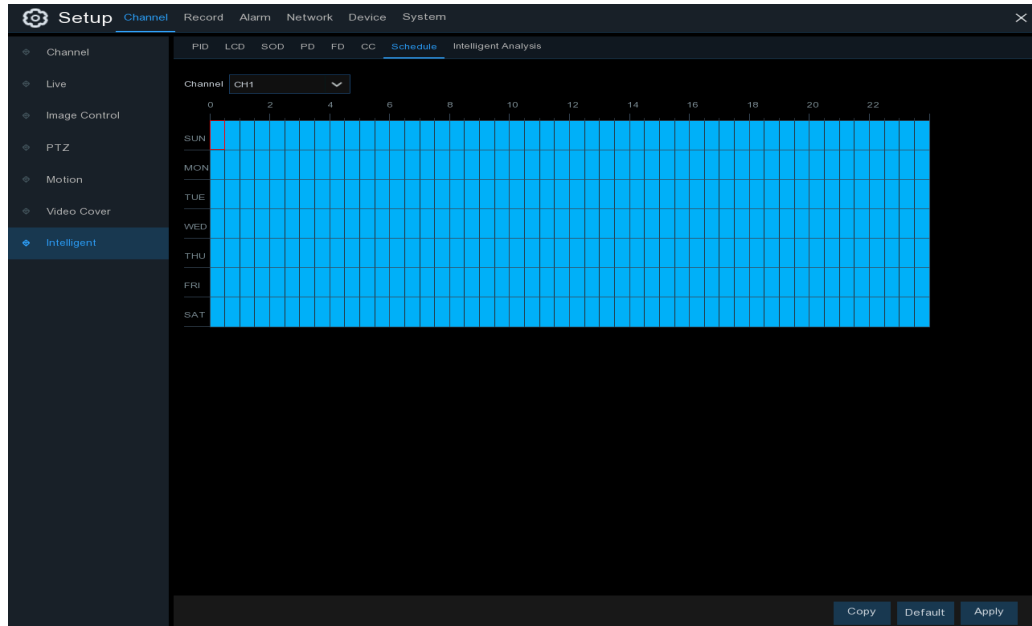


The screenshot shows the 'Intelligent Analysis' configuration page. It includes filters for Channel (CH17), Report Type (Daily Report), Alarm Type (Pedestrian), Cross Type (Cross Out), and Start Date (08/08/2017). A 'Search' button is present. Below the filters is a table showing the count of cross-outs per hour.

| Hour | Count(Cross Out) |
|---------------|------------------|
| 00:00 - 00:59 | 1 |
| 01:00 - 01:59 | 2 |
| 02:00 - 02:59 | 2 |
| 03:00 - 03:59 | 1 |
| 04:00 - 04:59 | 61812948 |
| 05:00 - 05:59 | 61812976 |
| 06:00 - 06:59 | 116859212 |
| 07:00 - 07:59 | -2013242624 |
| 08:00 - 08:59 | 1 |
| 09:00 - 09:59 | 65537 |

The statistical result can be queried by Daily / Weekly / Monthly / Annual for Cross in & Cross Out.

2.1.10.10. Intelligent Schedule



In order to activate the intelligent function, you need to config the schedule. The schedule will be active in 24 hours x 7 days.

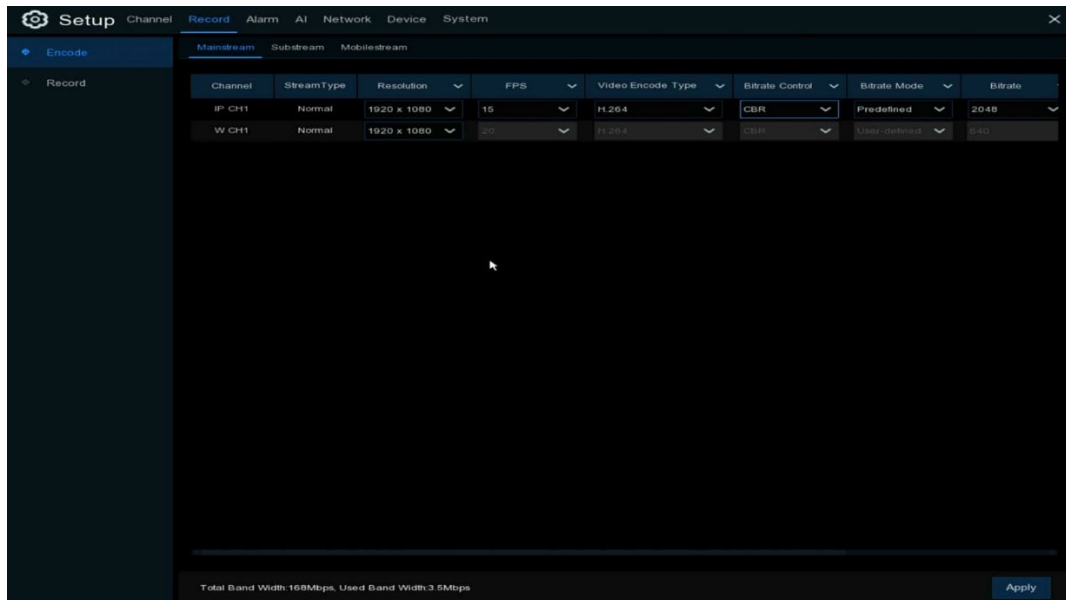
To set the schedule, choose one channel then drag the cursor to mark the slots. The sky-blue blocks in the time slots will be active for intelligent detections. The schedule is valid only for the selected channel each time when you set. If you want to use the same schedule for other channels, use **Copy** function. Click **Save** to save your settings.

2.2. Record

This menu allows you to configure the recording parameters

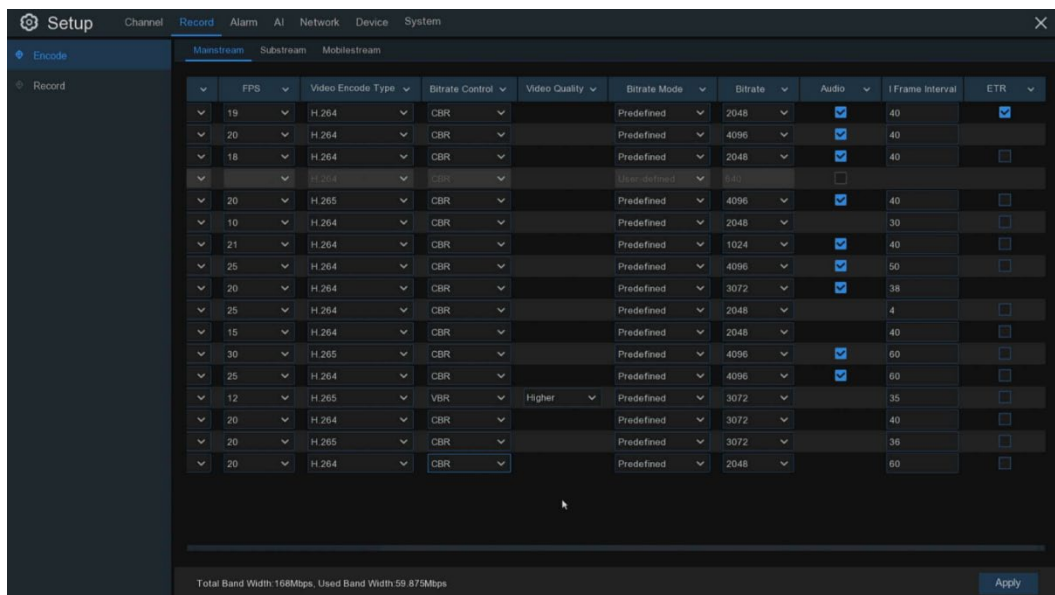
2.2.1. Encode

This menu allows you to configure the recording video or network transmission picture quality. Generally, Mainstream defines the recording video quality which will be saved in the HDD; Substream defines the video quality which is being viewed via remote access, for example web client & CMS; Mobilestream defines the video quality which is being viewed via remote access via mobile devices.



| Channel | StreamType | Resolution | FPS | Video Encode Type | Bitrate Control | Bitrate Mode | Bitrate |
|---------|------------|-------------|-----|-------------------|-----------------|--------------|---------|
| IP CH1 | Normal | 1920 x 1080 | 15 | H.264 | CBR | Predefined | 2048 |
| W CH1 | Normal | 1920 x 1080 | 20 | H.264 | CBR | User-defined | 640 |

Total Band Width: 168Mbps, Used Band Width: 3.6Mbps



| FPS | Video Encode Type | Bitrate Control | Video Quality | Bitrate Mode | Bitrate | Audio | I Frame Interval | ETR |
|-----|-------------------|-----------------|---------------|--------------|---------|-------------------------------------|------------------|-------------------------------------|
| 19 | H.264 | CBR | | Predefined | 2048 | <input checked="" type="checkbox"/> | 40 | <input checked="" type="checkbox"/> |
| 20 | H.264 | CBR | | Predefined | 4096 | <input checked="" type="checkbox"/> | 40 | |
| 18 | H.264 | CBR | | Predefined | 2048 | <input checked="" type="checkbox"/> | 40 | <input type="checkbox"/> |
| | H.264 | CBR | | User-defined | 640 | <input type="checkbox"/> | | |
| 20 | H.265 | CBR | | Predefined | 4096 | <input checked="" type="checkbox"/> | 40 | <input type="checkbox"/> |
| 10 | H.264 | CBR | | Predefined | 2048 | | 30 | <input type="checkbox"/> |
| 21 | H.264 | CBR | | Predefined | 1024 | <input checked="" type="checkbox"/> | 40 | <input type="checkbox"/> |
| 25 | H.264 | CBR | | Predefined | 4096 | <input checked="" type="checkbox"/> | 50 | <input type="checkbox"/> |
| 20 | H.264 | CBR | | Predefined | 3072 | <input checked="" type="checkbox"/> | 38 | <input type="checkbox"/> |
| 25 | H.264 | CBR | | Predefined | 2048 | | 4 | <input type="checkbox"/> |
| 15 | H.264 | CBR | | Predefined | 2048 | | 40 | <input type="checkbox"/> |
| 30 | H.265 | CBR | | Predefined | 4096 | <input checked="" type="checkbox"/> | 60 | <input type="checkbox"/> |
| 25 | H.264 | CBR | | Predefined | 4096 | <input checked="" type="checkbox"/> | 60 | <input type="checkbox"/> |
| 12 | H.265 | VBR | Higher | Predefined | 3072 | | 35 | <input type="checkbox"/> |
| 20 | H.264 | CBR | | Predefined | 3072 | | 40 | <input type="checkbox"/> |
| 20 | H.265 | CBR | | Predefined | 3072 | | 36 | <input type="checkbox"/> |
| 20 | H.264 | CBR | | Predefined | 2048 | | 60 | <input type="checkbox"/> |

Total Band Width: 168Mbps, Used Band Width: 59.875Mbps

Resolution: This parameter defines how large the recorded image will be.

FPS: This parameter defines the number of frames per second the NVR will record.

Video Encode Type: For IP camera only. NVR support H.264 IP camera only. If you choose H.265, live view screen of the IP channel will display “[Decoding Failed](#)”.

Bitrate Control: Select the bitrate level. For a simple scene, such as a gray wall is suitable constant bitrate (**CBR**). For more complex scene, such as a busy street is suitable variable bitrate (**VBR**).

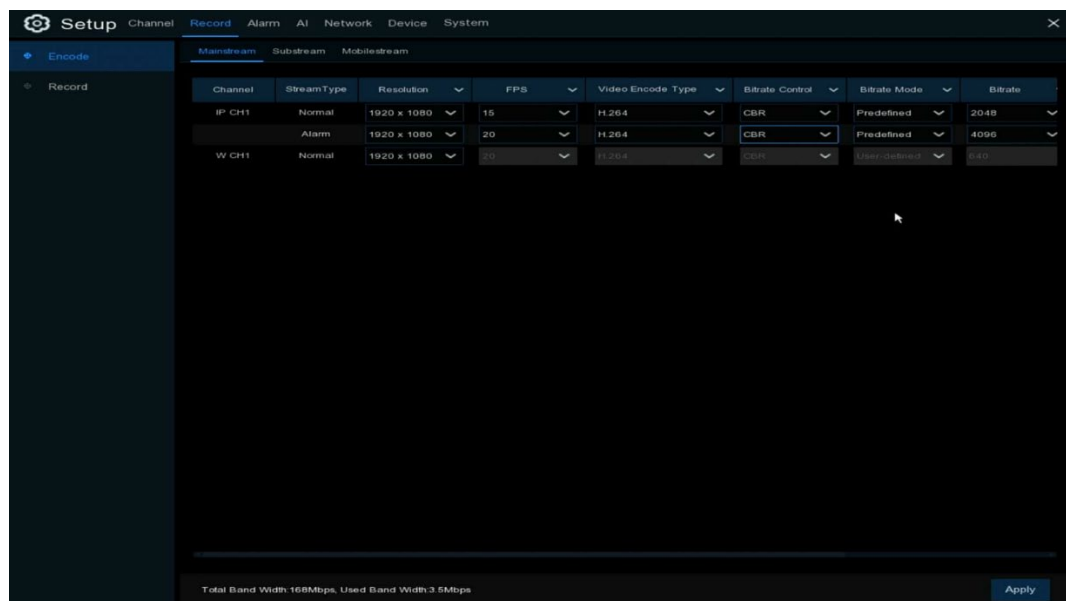
Bitrate Mode: If you want to set the bitrate by yourself, then choose **User-defined** mode. If you want to select the predefined bitrate, choose **Predefined** mode.

Bitrate: This parameter corresponds to the speed of data transfer that the NVR will use to record video. Recordings that are encoded at higher bitrates, will be of better quality.

Audio: enable or disable audio of camera.

I Frame interval: configure the I frame interval of camera.

ETR: It allows you to set different bitstream parameters in case of alarm and in case of no alarm.



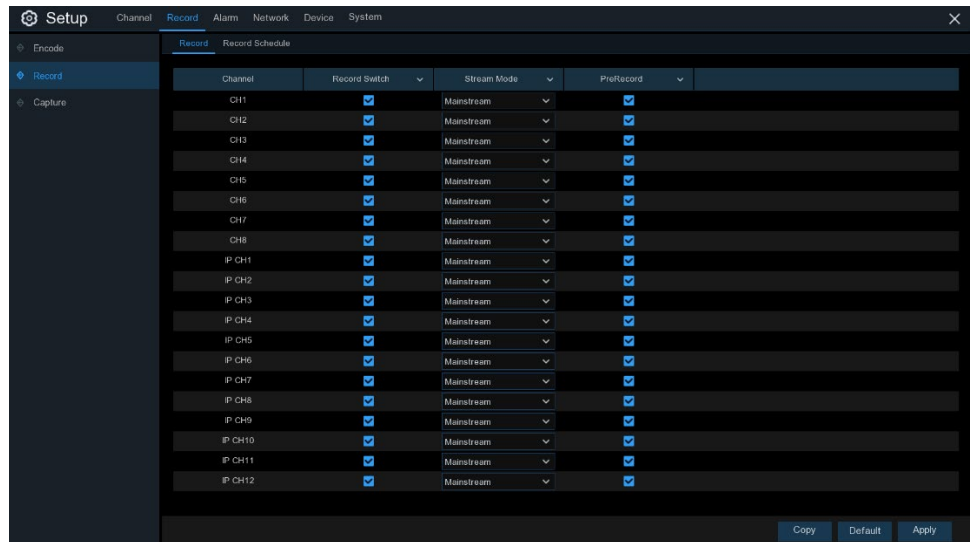
| Channel | StreamType | Resolution | FPS | Video Encode Type | Bitrate Control | Bitrate Mode | Bitrate |
|---------|------------|-------------|-----|-------------------|-----------------|--------------|---------|
| IP CH1 | Normal | 1920 x 1080 | 15 | H.264 | CBR | Predefined | 2048 |
| | Alarm | 1920 x 1080 | 20 | H.264 | CBR | Predefined | 4096 |
| W CH1 | Normal | 1920 x 1080 | 20 | H.264 | CBR | User-defined | 640 |

Total Band Width: 168Mbps, Used Band Width: 3.5Mbps

2.2.2. Record

This menu allows you to configure the channel recording parameters.

2.2.2.1. Record



Record Switch: Check to enable the recording in this channel.

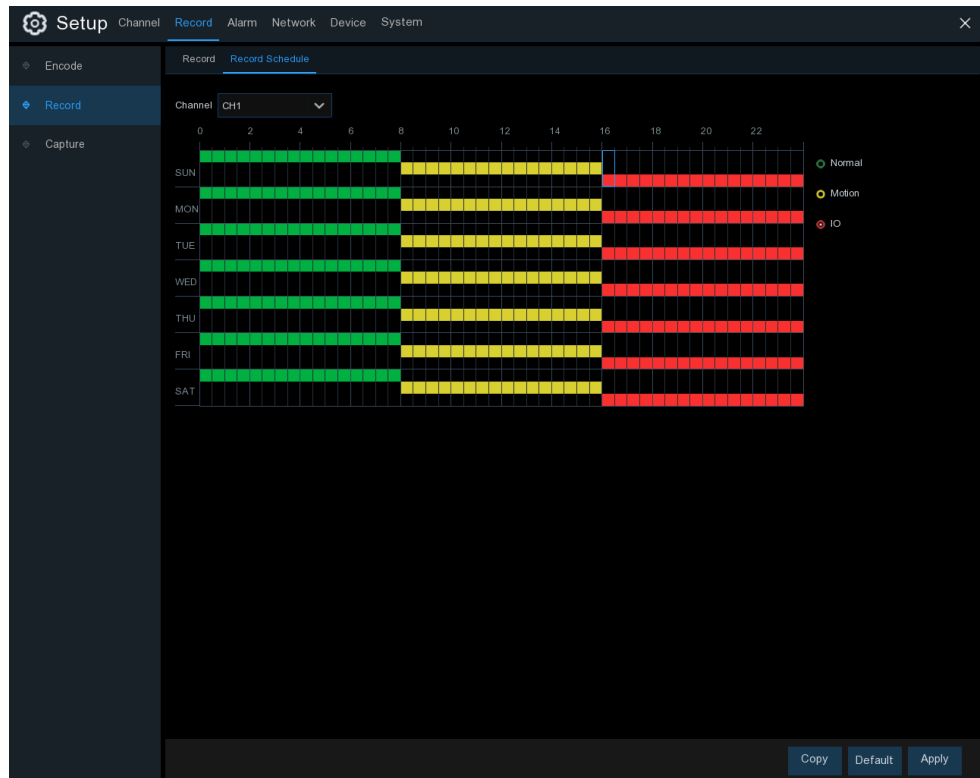
Stream Mode: Choose the recording quality. If you choose Dualstream, the system will record in both Mainstream & Substream.

PreRecord: If this option is enabled, the NVR starts recording a few seconds before an alarm event occurs. Use this option if your primary recording type is motion or I/O alarm based.

2.2.2.2. Record Schedule

This menu allows you to specify when the NVR records video and defines the recording mode for each channel. The recording schedule lets you set up a schedule like, daily and hourly by normal (continuous) recording, motion recording, I/O alarm recording & PIR recording (if your NVR supports). To set the recording mode, click first on the mode radio button (Normal, Motion, IO, PIR), then drag the cursor to mark the slots. The recording schedule is valid only for one channel. If you want to use the same recording schedule for other channels, use **Copy** function. Click **Apply** to save your settings.

Channel: Select the channel to set its recording parameters.



Normal: When the time slot is marked green, this indicates the channel performs normal recording for that time slot.

Motion: When the time slot is marked yellow, this indicates the channel records only when a motion is detected during that time slot.

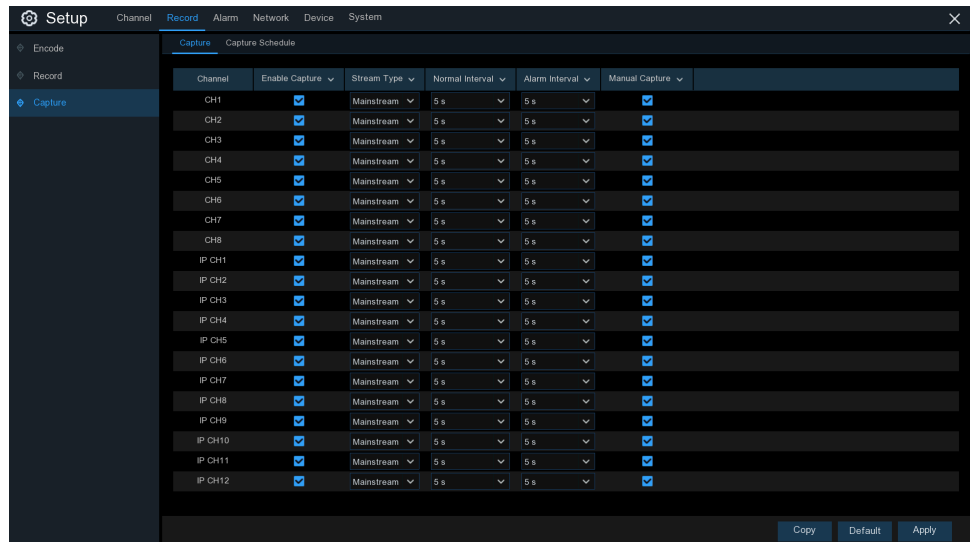
IO: When the time slot is marked red, this indicates the channel records only when the sensor is triggered during that time slot.

No Record: A time slot marked black means that there is no recording scheduled for the time slot.

2.2.3. Capture

This menu allows to configure the image capture function.

2.2.3.1. Capture



| Channel | Enable Capture | Stream Type | Normal Interval | Alarm Interval | Manual Capture |
|---------|-------------------------------------|-------------|-----------------|----------------|-------------------------------------|
| CH1 | <input checked="" type="checkbox"/> | Mainstream | 5 s | 5 s | <input checked="" type="checkbox"/> |
| CH2 | <input checked="" type="checkbox"/> | Mainstream | 5 s | 5 s | <input checked="" type="checkbox"/> |
| CH3 | <input checked="" type="checkbox"/> | Mainstream | 5 s | 5 s | <input checked="" type="checkbox"/> |
| CH4 | <input checked="" type="checkbox"/> | Mainstream | 5 s | 5 s | <input checked="" type="checkbox"/> |
| CH5 | <input checked="" type="checkbox"/> | Mainstream | 5 s | 5 s | <input checked="" type="checkbox"/> |
| CH6 | <input checked="" type="checkbox"/> | Mainstream | 5 s | 5 s | <input checked="" type="checkbox"/> |
| CH7 | <input checked="" type="checkbox"/> | Mainstream | 5 s | 5 s | <input checked="" type="checkbox"/> |
| CH8 | <input checked="" type="checkbox"/> | Mainstream | 5 s | 5 s | <input checked="" type="checkbox"/> |
| IP CH1 | <input checked="" type="checkbox"/> | Mainstream | 5 s | 5 s | <input checked="" type="checkbox"/> |
| IP CH2 | <input checked="" type="checkbox"/> | Mainstream | 5 s | 5 s | <input checked="" type="checkbox"/> |
| IP CH3 | <input checked="" type="checkbox"/> | Mainstream | 5 s | 5 s | <input checked="" type="checkbox"/> |
| IP CH4 | <input checked="" type="checkbox"/> | Mainstream | 5 s | 5 s | <input checked="" type="checkbox"/> |
| IP CH5 | <input checked="" type="checkbox"/> | Mainstream | 5 s | 5 s | <input checked="" type="checkbox"/> |
| IP CH6 | <input checked="" type="checkbox"/> | Mainstream | 5 s | 5 s | <input checked="" type="checkbox"/> |
| IP CH7 | <input checked="" type="checkbox"/> | Mainstream | 5 s | 5 s | <input checked="" type="checkbox"/> |
| IP CH8 | <input checked="" type="checkbox"/> | Mainstream | 5 s | 5 s | <input checked="" type="checkbox"/> |
| IP CH9 | <input checked="" type="checkbox"/> | Mainstream | 5 s | 5 s | <input checked="" type="checkbox"/> |
| IP CH10 | <input checked="" type="checkbox"/> | Mainstream | 5 s | 5 s | <input checked="" type="checkbox"/> |
| IP CH11 | <input checked="" type="checkbox"/> | Mainstream | 5 s | 5 s | <input checked="" type="checkbox"/> |
| IP CH12 | <input checked="" type="checkbox"/> | Mainstream | 5 s | 5 s | <input checked="" type="checkbox"/> |

Enable Capture: Enable or disable automatic capturing on the channel.

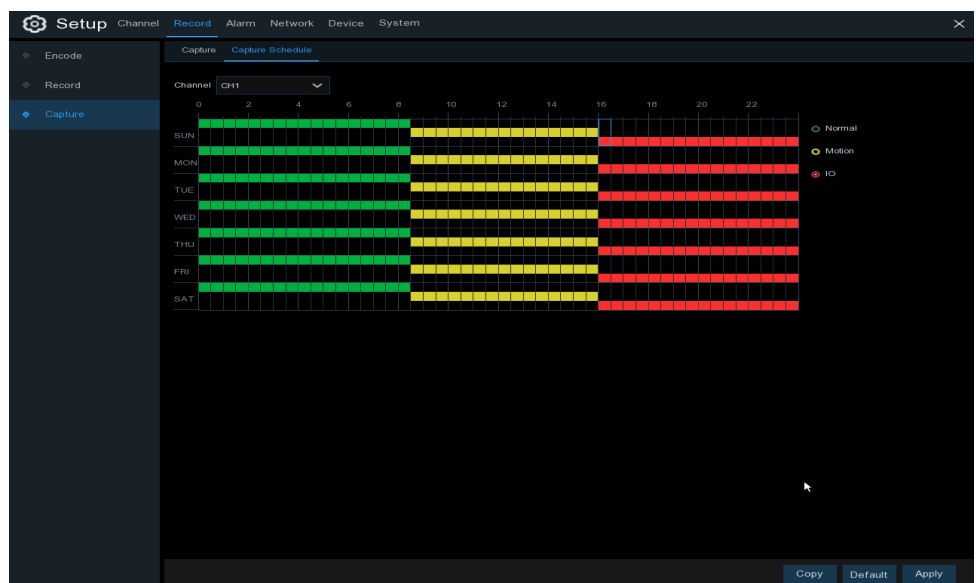
Stream Type: Select the image resolution by mainstream or substream.

Normal Interval: Time interval to capture an image in normal recording.

Alarm Interval: Time interval to capture an image when motion, IO alarm or PIR is triggered.

Manual Capture: Enable or disable manual capture in the channel.

2.2.3.2. Capture Schedule



Channel: Select the channel to set its capture parameters.

Normal: When the time slot is marked green, this indicates the channel performs normal capture for that time slot.

Motion: When the time slot is marked yellow, this indicates the channel capture images only when a motion is detected during that time slot.

IO: When the time slot is marked red, this indicates the channel capture images only when the sensor is triggered during that time slot.

No Capture: A time slot marked black means that it won't capture any images for the time slot, but you can manually capture images if you enable the manual capture function in the channel.

2.3. Alarm

In these section, you can configure the alarm parameters.

2.3.1. Motion

Operation is same as [2.1.6 Motion](#)

2.3.2. PIR


This menu allows you to configure parameters of PIR Alarm.

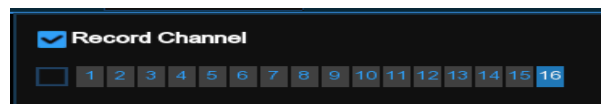
Channel: Channel name

Buzzer: The NVR can use its internal buzzer to emit an alarm tone. You can set the buzzer duration in seconds when the PIR is detected.

Alarm Out: Optional function. If your NVR support to connect to external alarm device, you can set to emit an alarm tone.

Latch Time: To configure the external alarm time when PIR is detected.

Record: Click  icon and choose which channel(s) you want to record when the PIR detection is triggered.



Post Recording: You can set how long after an event occurs that the NVR will continue to record. The recommended recording length is 30 seconds but it can be set higher up to 5 minutes.

Show Message: Check the box to display "PIR" icon on the live view screen when the PIR is detected.

Send Email: You can let the NVR to send you an auto-email when the PIR is detected.

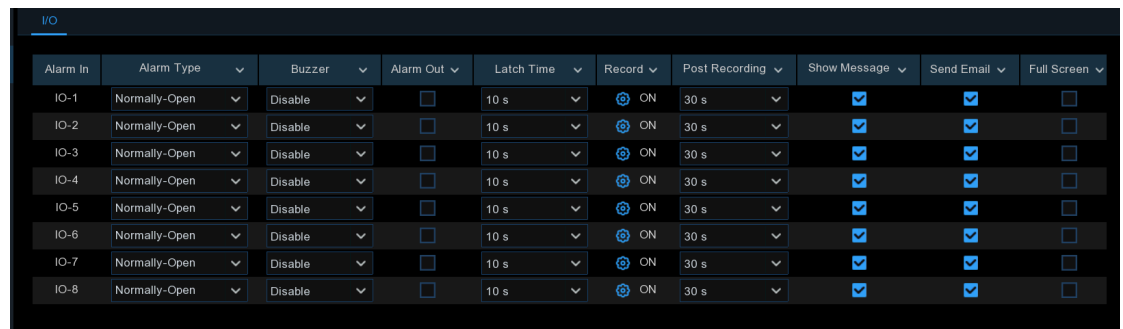
FTP Picture Upload: To upload alarm images to FTP server when PIR is detected. To enable FTP, please view [2.4.4 FTP](#).

FTP Video Upload: To upload alarm video to FTP server when PIR is detected. To enable FTP, please view [2.4.4 FTP](#).

Full Screen: If this function is enabled and a PIR is detected in a channel, you will see that channel in full screen.

2.3.3. I/O

This is an optional function, it will appear if your NVR supports sensor I/O, and you connect external sensor I/O alarm devices to work with the NVR.



| Alarm In | Alarm Type | Buzzer | Alarm Out | Latch Time | Record | Post Recording | Show Message | Send Email | Full Screen |
|----------|---------------|---------|--------------------------|------------|--------|----------------|-------------------------------------|-------------------------------------|--------------------------|
| IO-1 | Normally-Open | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| IO-2 | Normally-Open | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| IO-3 | Normally-Open | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| IO-4 | Normally-Open | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| IO-5 | Normally-Open | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| IO-6 | Normally-Open | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| IO-7 | Normally-Open | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| IO-8 | Normally-Open | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |


Alarm In: I/O channel.

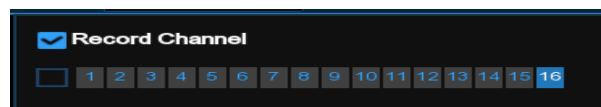
Alarm Type: There are 3 types for your choice: Normally-Open, Normally-Close, and OFF. Choose the one to match your sensor type, or choose OFF to close the sensor trigger function.

Buzzer: The NVR can use its internal buzzer to emit an alarm tone. You can set the buzzer duration in seconds when a sensor is triggered.

Alarm out: Tick to enable external alarm device to emit an alarm tone when a sensor is triggered.

Latch Time: you can set how long the buzzer will sound when external sensor is triggered (10s, 20s, 40s, and 60s).

Record: Click  icon and choose which channel(s) you want to record when the motion detection is triggered.



Post Recording: You can set how long alarm record will last when alarm ends (30s, 1minutes, 2minutes, 5minutes).

Show Message: Display the alarm messages on the screen when sensor is triggered.

Send Email: Set to send email to specified email when sensor is triggered.

Full Screen: When sensor is triggered, the corresponding channel will be switched to the full screen mode.

FTP Picture Upload: To upload alarm images to FTP server when IO is alarm. To enable FTP, please view [2.4.4 FTP](#).

FTP Video Upload: To upload alarm video to FTP server when IO is alarm. To enable FTP, please view [2.4.4 FTP](#).

2.3.4. Intelligent

2.3.4.1. PID


You can configure the PID alarm function here.

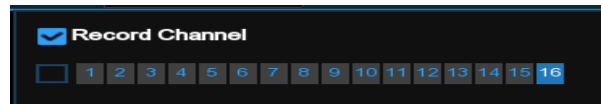
Channel: Channel name

Buzzer: The NVR can use its internal buzzer to emit an alarm tone. You can set the buzzer duration in seconds when the PID is triggered.

Alarm Out: Optional function. If your NVR support to connect to external alarm device, you can set to emit an alarm tone.

Latch Time: To configure the external alarm time when PID is triggered.

Record: Click  icon and choose which channel(s) you want to record when the PID is triggered.



Post Recording: You can set how long after an event occurs that the NVR will continue to record. The recommended recording length is 30 seconds but it can be set higher up to 5 minutes.

Show Message: Check the box to display “S” icon on the live view screen when the PID is triggered.

Send Email: You can let the NVR to send you an auto-email when the PID is triggered.

FTP Picture Upload: To upload alarm images to FTP server when PID is detected. To enable FTP, please view [2.4.4 FTP](#).

FTP Video Upload: To upload alarm video to FTP server when PID is alarm. To enable FTP, please view [2.4.4 FTP](#).

Full Screen: If this function is enabled and a PID is alarm in a channel, you will see that channel in full screen.

2.3.4.2. LCD


You can configure the LCD alarm function here.

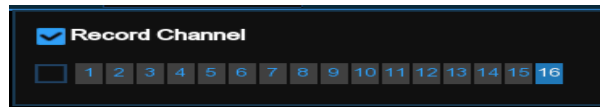
Channel: Channel name

Buzzer: The NVR can use its internal buzzer to emit an alarm tone. You can set the buzzer duration in seconds when the LCD is triggered.

Alarm Out: Optional function. If your NVR support to connect to external alarm device, you can set to emit an alarm tone.

Latch Time: To configure the external alarm time when LCD is triggered.

Record: Click  icon and choose which channel(s) you want to record when the LCD is triggered.



Post Recording: You can set how long after an event occurs that the NVR will continue to record. The recommended recording length is 30 seconds but it can be set higher up to 5 minutes.

Show Message: Check the box to display “S” icon on the live view screen when the LCD is triggered.

Send Email: You can let the NVR to send you an auto-email when the LCD is triggered.

FTP Picture Upload: To upload alarm images to FTP server when LCD is detected. To enable FTP, please view [2.4.4 FTP](#).

FTP Video Upload: To upload alarm video to FTP server when LCD is alarm. To enable FTP, please view [2.4.4 FTP](#).

Full Screen: If this function is enabled and a LCD is alarm in a channel, you will see that channel in full screen.

2.3.4.3. SOD


You can configure the SOD alarm function here.

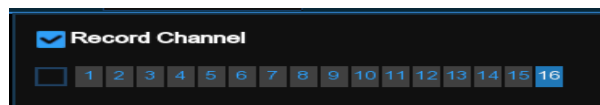
Channel: Channel name

Buzzer: The NVR can use its internal buzzer to emit an alarm tone. You can set the buzzer duration in seconds when the SOD is triggered.

Alarm Out: Optional function. If your NVR support to connect to external alarm device, you can set to emit an alarm tone.

Latch Time: To configure the external alarm time when SOD is triggered.

Record: Click  icon and choose which channel(s) you want to record when the SOD is triggered.



Post Recording: You can set how long after an event occurs that the NVR will continue to record. The recommended recording length is 30 seconds but it can be set higher up to 5 minutes.

Show Message: Check the box to display “S” icon on the live view screen when the SOD is triggered.

Send Email: You can let the NVR to send you an auto-email when the SOD is triggered.

FTP Picture Upload: To upload alarm images to FTP server when SOD is detected. To enable FTP, please view [2.4.4 FTP](#).

FTP Video Upload: To upload alarm video to FTP server when SOD is alarm. To enable FTP, please view [2.4.4 FTP](#).

Full Screen: If this function is enabled and a SOD is alarm in a channel, you will see that channel in full screen.

2.3.4.4. PD


You can configure the PD alarm function here.

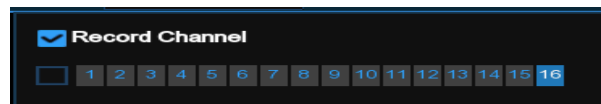
Channel: Channel name

Buzzer: The NVR can use its internal buzzer to emit an alarm tone. You can set the buzzer duration in seconds when the PD is triggered.

Alarm Out: Optional function. If your NVR support to connect to external alarm device, you can set to emit an alarm tone.

Latch Time: To configure the external alarm time when PD is triggered.

Record: Click  icon and choose which channel(s) you want to record when the PD is triggered.



Post Recording: You can set how long after an event occurs that the NVR will continue to record. The recommended recording length is 30 seconds but it can be set higher up to 5 minutes.

Show Message: Check the box to display “S” icon on the live view screen when the PD is triggered.

Send Email: You can let the NVR to send you an auto-email when the PD is triggered.

FTP Picture Upload: To upload alarm images to FTP server when PD is detected. To enable FTP, please view [2.4.4 FTP](#).

FTP Video Upload: To upload alarm video to FTP server when PD is alarm. To enable FTP, please view [2.4.4 FTP](#).

Full Screen: If this function is enabled and a PD is alarm in a channel, you will see that channel in full screen.

2.3.4.5. FD


You can configure the FD alarm function here.

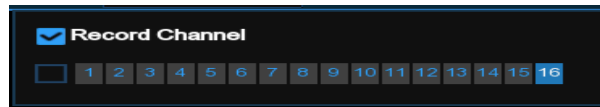
Channel: Channel name

Buzzer: The NVR can use its internal buzzer to emit an alarm tone. You can set the buzzer duration in seconds when the FD is triggered.

Alarm Out: Optional function. If your NVR support to connect to external alarm device, you can set to emit an alarm tone.

Latch Time: To configure the external alarm time when FD is triggered.

Record: Click  icon and choose which channel(s) you want to record when the FD is triggered.



Post Recording: You can set how long after an event occurs that the NVR will continue to record. The recommended recording length is 30 seconds but it can be set higher up to 5 minutes.

Show Message: Check the box to display “S” icon on the live view screen when the FD is triggered.

Send Email: You can let the NVR to send you an auto-email when the FD is triggered.

FTP Picture Upload: To upload alarm images to FTP server when FD is detected. To enable FTP, please view [2.4.4 FTP](#).

FTP Video Upload: To upload alarm video to FTP server when FD is alarm. To enable FTP, please view [2.4.4 FTP](#).

Full Screen: If this function is enabled and a FD is alarm in a channel, you will see that channel in full screen.

2.3.4.6. CC


You can configure the CC alarm function here.

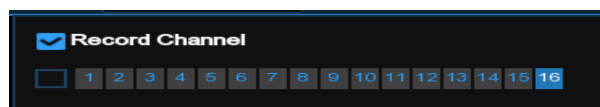
Channel: Channel name

Buzzer: The NVR can use its internal buzzer to emit an alarm tone. You can set the buzzer duration in seconds when the CC is triggered.

Alarm Out: Optional function. If your NVR support to connect to external alarm device, you can set to emit an alarm tone.

Latch Time: To configure the external alarm time when CC is triggered.

Record: Click  icon and choose which channel(s) you want to record when the CC is triggered.



Post Recording: You can set how long after an event occurs that the NVR will continue to record. The recommended recording length is 30 seconds but it can be set higher up to 5 minutes.

Show Message: Check the box to display “S” icon on the live view screen when the CC is triggered.

Send Email: You can let the NVR to send you an auto-email when the CC is triggered.

FTP Picture Upload: To upload alarm images to FTP server when CC is detected. To enable FTP, please view [2.4.4 FTP](#).

FTP Video Upload: To upload alarm video to FTP server when CC is alarm. To enable FTP, please view [2.4.4 FTP](#).

Full Screen: If this function is enabled and a CC is alarm in a channel, you will see that channel in full screen.

2.3.4.7. Sound Detection


You can configure the Sound Detection alarm function here.

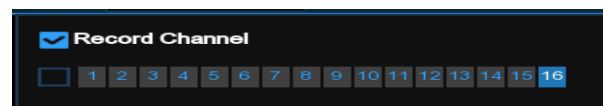
Channel: Channel name

Buzzer: The NVR can use its internal buzzer to emit an alarm tone. You can set the buzzer duration in seconds when the Sound Detection is triggered.

Alarm Out: Optional function. If your NVR support to connect to external alarm device, you can set to emit an alarm tone.

Latch Time: To configure the external alarm time when Sound Detection is triggered.

Record: Click  icon and choose which channel(s) you want to record when the Sound Detection is triggered.



Post Recording: You can set how long after an event occurs that the NVR will continue to record. The recommended recording length is 30 seconds but it can be set higher up to 5 minutes.

Show Message: Check the box to display “S” icon on the live view screen when the Sound Detection is triggered.

Send Email: You can let the NVR to send you an auto-email when the Sound Detection is triggered.

FTP Picture Upload: To upload alarm images to FTP server when Sound Detection is detected. To enable FTP, please view [2.4.4 FTP](#).

FTP Video Upload: To upload alarm video to FTP server when Sound Detection is alarm. To enable FTP, please view [2.4.4 FTP](#).

Full Screen: If this function is enabled and a Sound Detection is alarm in a channel, you will see that channel in full screen.

2.3.4.8. Occlusion Detection


You can configure the Occlusion Detection alarm function here.

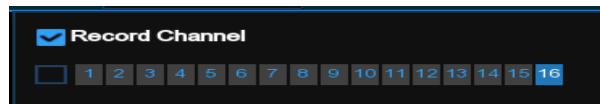
Channel: Channel name

Buzzer: The NVR can use its internal buzzer to emit an alarm tone. You can set the buzzer duration in seconds when the Occlusion Detection is triggered.

Alarm Out: Optional function. If your NVR support to connect to external alarm device, you can set to emit an alarm tone.

Latch Time: To configure the external alarm time when Occlusion Detection is triggered.

Record: Click  icon and choose which channel(s) you want to record when the Occlusion Detection is triggered.



Post Recording: You can set how long after an event occurs that the NVR will continue to record. The recommended recording length is 30 seconds but it can be set higher up to 5 minutes.

Show Message: Check the box to display “S” icon on the live view screen when the Occlusion Detection is triggered.

Send Email: You can let the NVR to send you an auto-email when the Occlusion Detection is triggered.

FTP Picture Upload: To upload alarm images to FTP server when Occlusion Detection is detected. To enable FTP, please view [2.4.4 FTP](#).

FTP Video Upload: To upload alarm video to FTP server when Occlusion Detection is alarm. To enable FTP, please view [2.4.4 FTP](#).

Full Screen: If this function is enabled and an Occlusion Detection is alarm in a channel, you will see that channel in full screen.

2.3.5. PTZ Linkage


If you had connected the PTZ cameras, you can set the linkage between PTZ cameras and Motion Alarm and/or external I/O sensor alarm and/or PIR alarm. With the linkage function, you can turn your PTZ cameras focus to the preset point when a motion or I/O alarm happens.

Switch: Enable or disable the PTZ linkage function.

Motion: Motion detection alarm will trigger the PTZ linkage function it is checked.

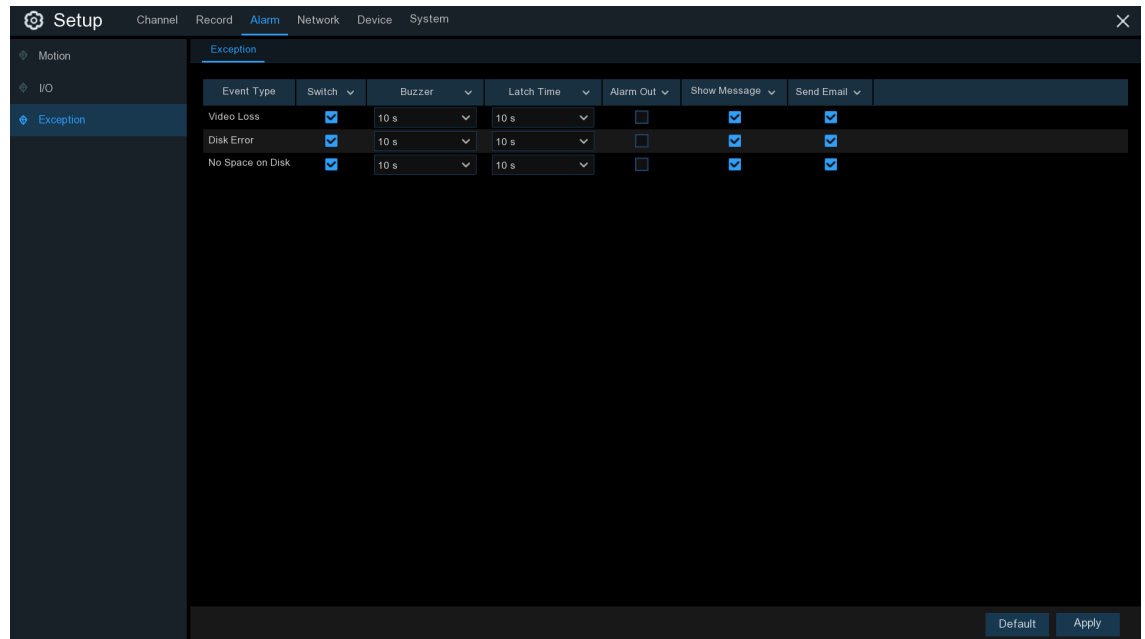
IO: IO alarm will trigger the PTZ linkage function it is checked.

PIR: PIR alarm will trigger the PTZ linkage function it is checked.

PTZ: Click  icon to associate the PTZ cameras with preset points. View preset point at [2.1.4.1 PTZ control](#).

2.3.6. Exception

This menu allows you to set the type of events that you want the NVR to inform you.



Event Type: Select the event type from below options:

- **No Space on Disk:** When an HDD is full.
- **Disk Error:** If the HDD is not detected properly.
- **Video Loss:** If a camera is not connected properly.

Switch: Check the box to enable the monitoring of the event.

Buzzer: Set the buzzer duration when the event occurs (Off/10s/20s/40s/60s). To disable buzzer, select **OFF**.

Latch Time: This is an optional function. Determine how long the external alarm device to sound (10s, 20s, 40s, 60s) if your NVR support to connect external alarm device.

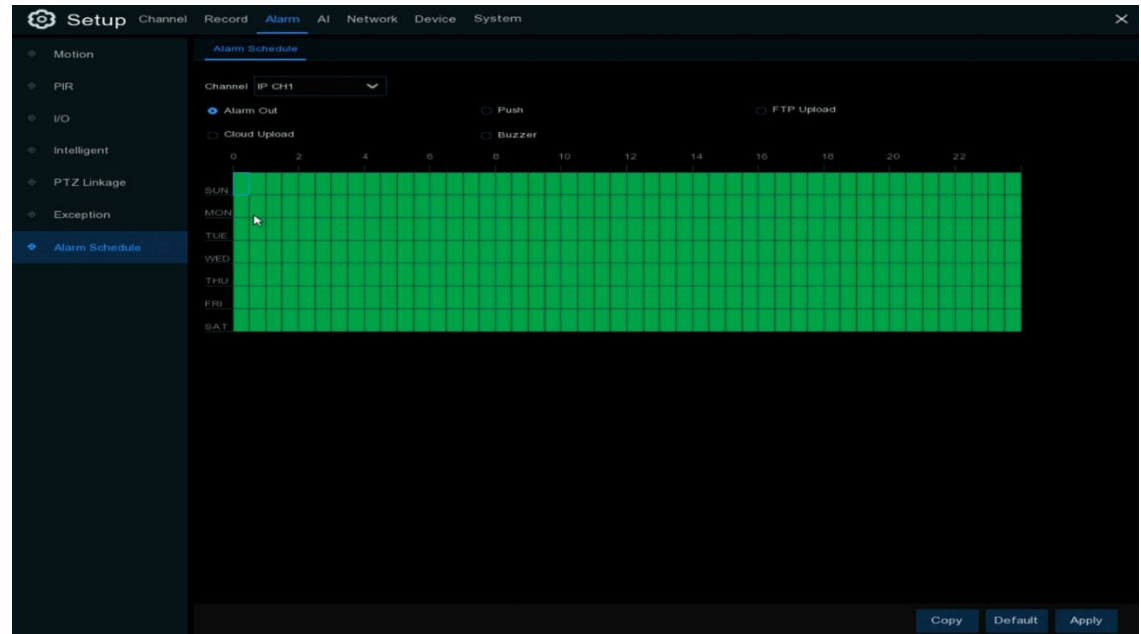
Alarm Out: This is an optional function. Click to enable the external alarm device to sound. This is an optional function.

Show Message: Check the box to display a message on the screen when No Space on Disk, Disk Error, or Video Loss event happens.

Send Email: Let the NVR to send you an auto-email when an event occurs.

2.3.7. Alarm Schedule

In this menu, you can set several schedules, including Alarm out, Push, FTP Upload, Cloud Upload and Buzzer.



Channel: Select the channel to set its capture parameters.

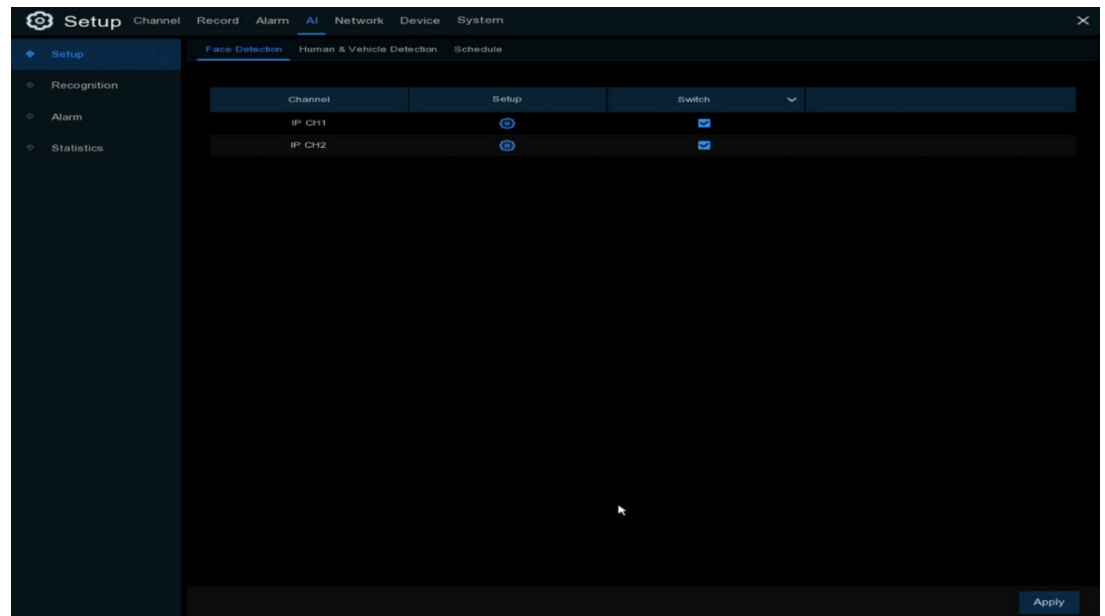
When the time slot is marked green, this indicates the channel works for that time slot.


2.4. AI

2.4.1. Setup

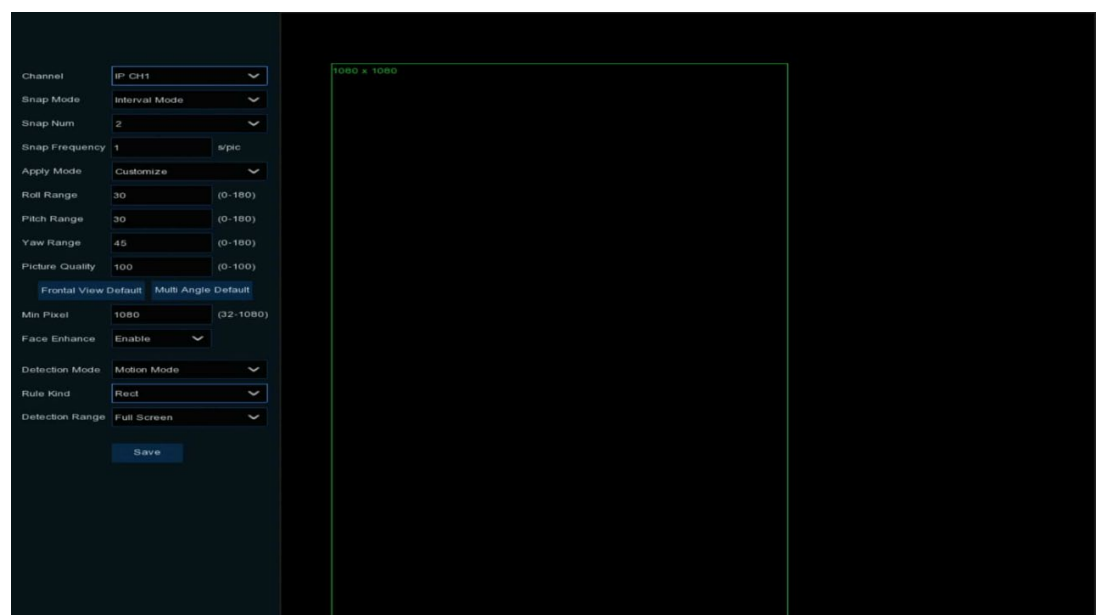
2.4.1.1. Face Detection

In this menu, you can set the relevant parameters of the face



Click  enter to setting interface

Switch: turn on or turn off face detection



Channel: Channel selection

Snap Mode: There are advanced mode (select the best image to push from the time when the face appears to disappear), real-time mode (push once when the face appears and push again when it disappears) and interval mode (customize the time and interval of push).

Snap Num: In the interval mode, set the number of screenshots pushed by the face.

Snap Frequency: In the interval mode, set the frequency of face push.

Apply Mode: Set the detection angle, including face mode, multi angle mode and custom angle mode.

Roll Range: Under the custom angle, set the range of face rotation.

Pitch Range: In the custom angle, set the range of face pitch

Yaw Range: Set the range of face horizontal flipping under the custom angle

Frontal view/Multi Angle Default: Returns the angle setting to the forward and multi angle settings by default.

Picture Quality: Set image quality, 1 min, 100 max.

Min Pixel: Set the minimum recognition pixel box, and the face can be recognized only when it is larger than the set pixel.

Face Enhance: Face enhancement makes it easier to recognize faces when turned on.

Detection Mode: There are two detection modes: static mode and dynamic mode.

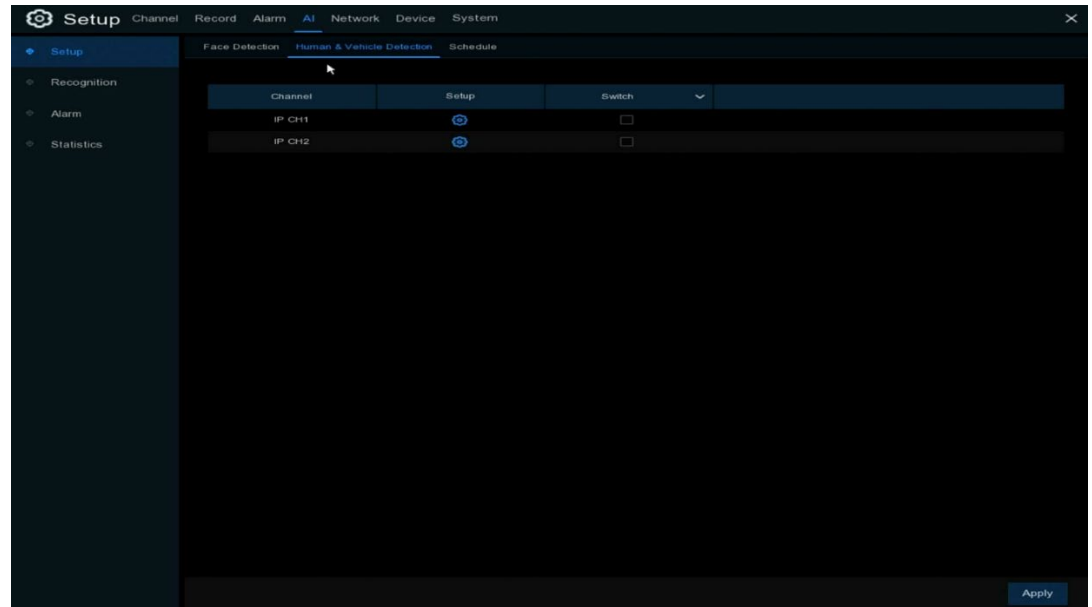
Rule Kind: Type of rule, there are rectangular and linear rules.


Detection Range: Under the rectangle rule, set the detection area. Customizable, default full screen area.

Rule Type: Under the line rule, set the crossing rule. You need to underline in the preview on the right. When the face crosses the line according to the set rules, it will be detected.

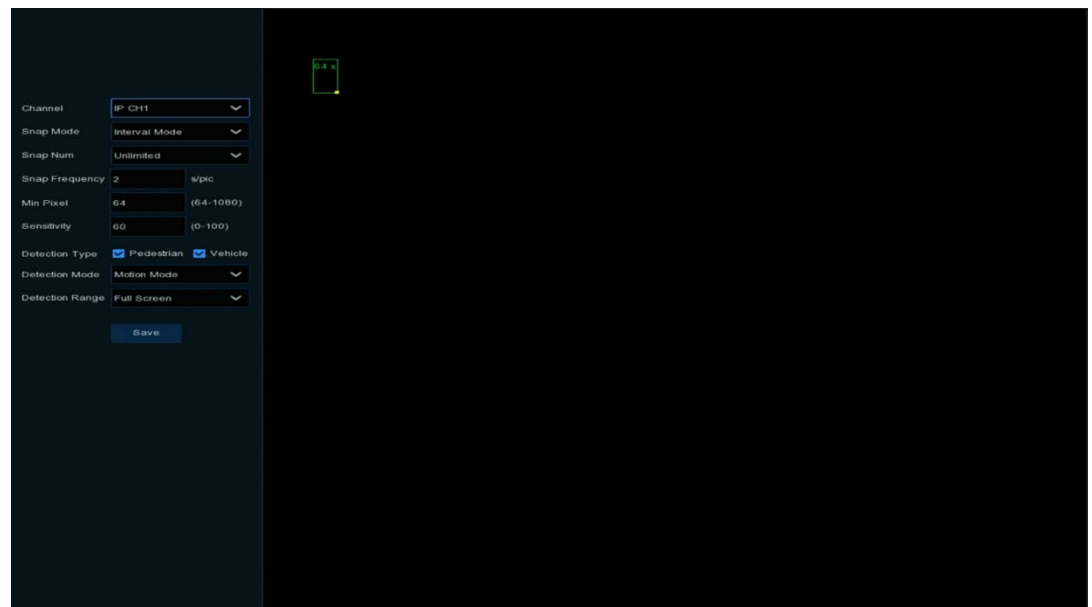
2.4.1.2. Human & Vehicle Detection

In this menu, you can set the parameters for the detection of human type & vehicle type



Click  to enter setting interface

Switch: Turn on/off Human & Vehicle detection



Channel: Channel selection

Snap Mode: Snapshot mode, including default mode (select a picture with the best quality to push during the period from the appearance of people and cars to disappearance), real-time mode (push once when it appears and push again when it disappears) and interval mode (customize the time and interval of push).

Snap Num: In the interval mode, set the number of screenshots pushed by the face.

Snap Frequency: In the interval mode, set the frequency of face push.

Min pixel: Set the minimum recognition pixel box, and people and vehicles can be recognized only when they are larger than the set pixel.

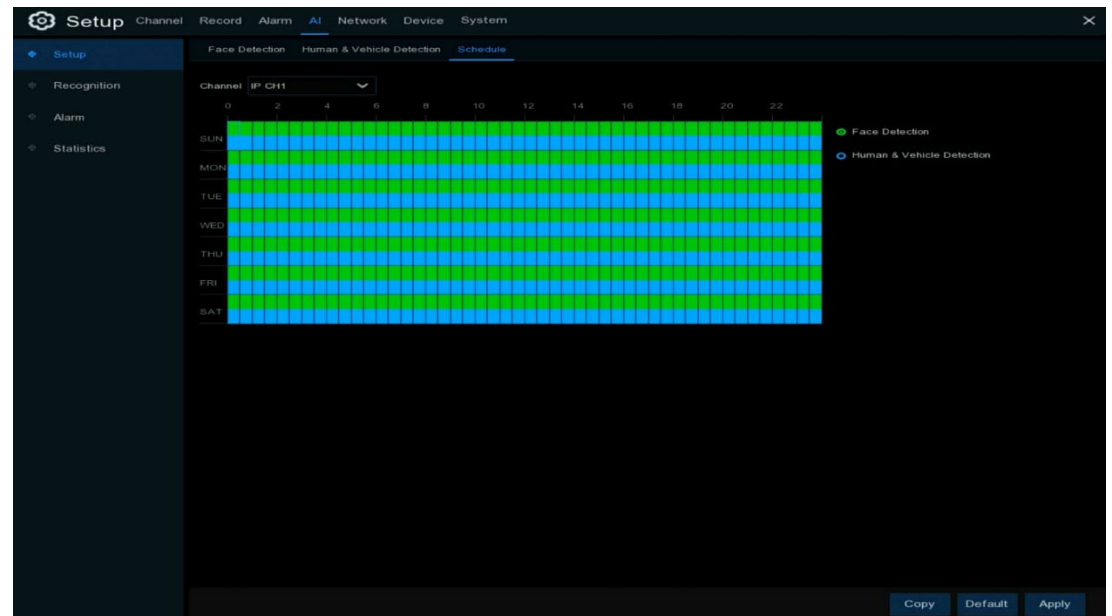
Sensitivity: Set sensitivity, 1 min, 100 max.

Detection Type: Set the detection type, select person type, vehicle type or all.

Detection Mode: Static or dynamic mode can be set.

Detvtion Range: Set detection range, customizable, full screen by default.

2.4.1.3. Schedule



Set up a schedule for people & cars and face detection. If it is selected, it is on; if it is not selected, it is off.

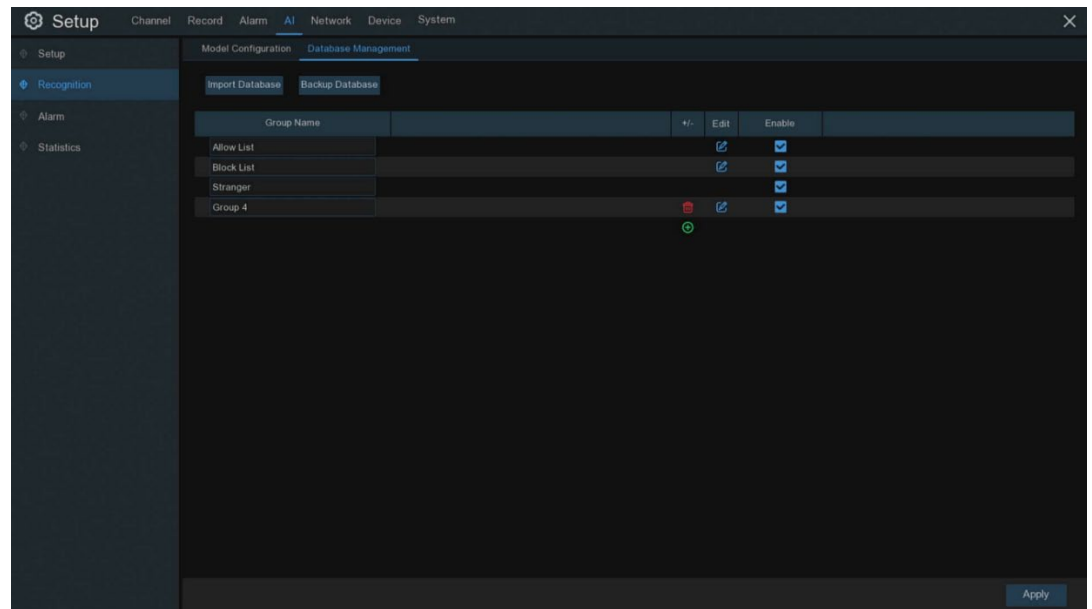
2.4.2. Recognition

2.4.2.1. Model Configuration

Select the algorithm model in this menu. There are local and IPC algorithm models (some devices do not have local algorithm models and need IPC with algorithm models).

2.4.2.2. Database Management

This menu can set the database of face recognition comparison.



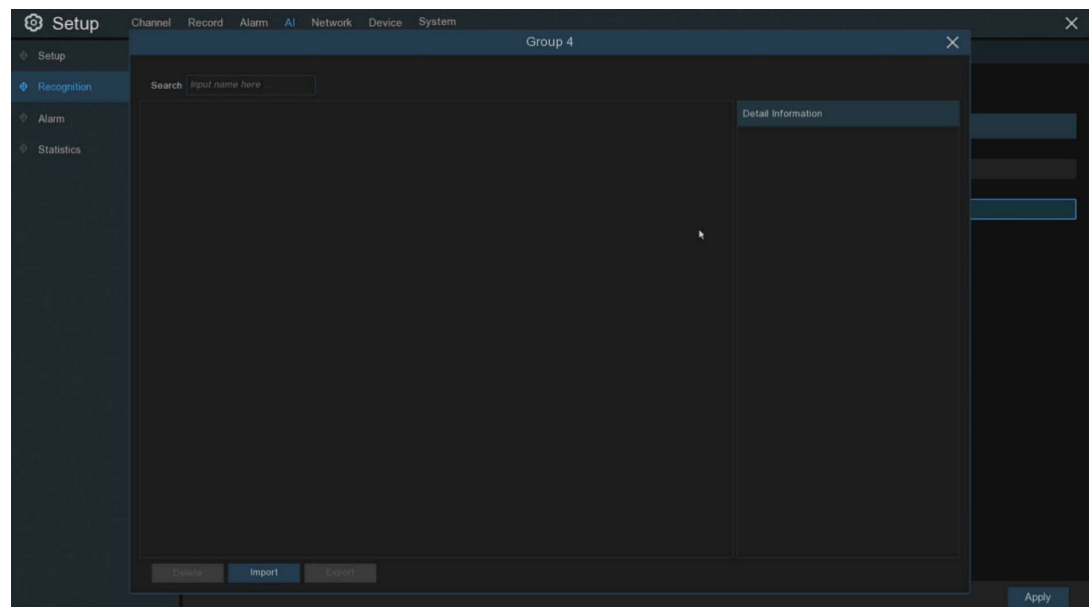
Import Database: You can import the exported group data to the device.

Backup Database: You can export all groups to the USB flash disk.

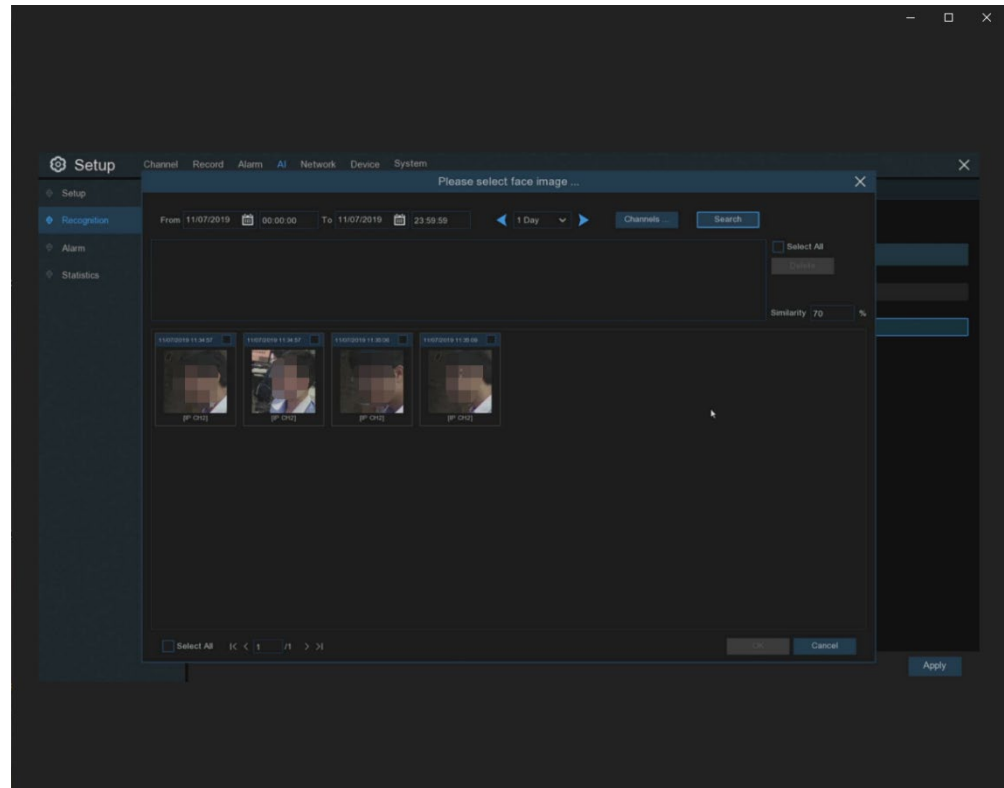
/ : You can add new face groups or delete existing face groups.

Enable: Turn on/off the face group.

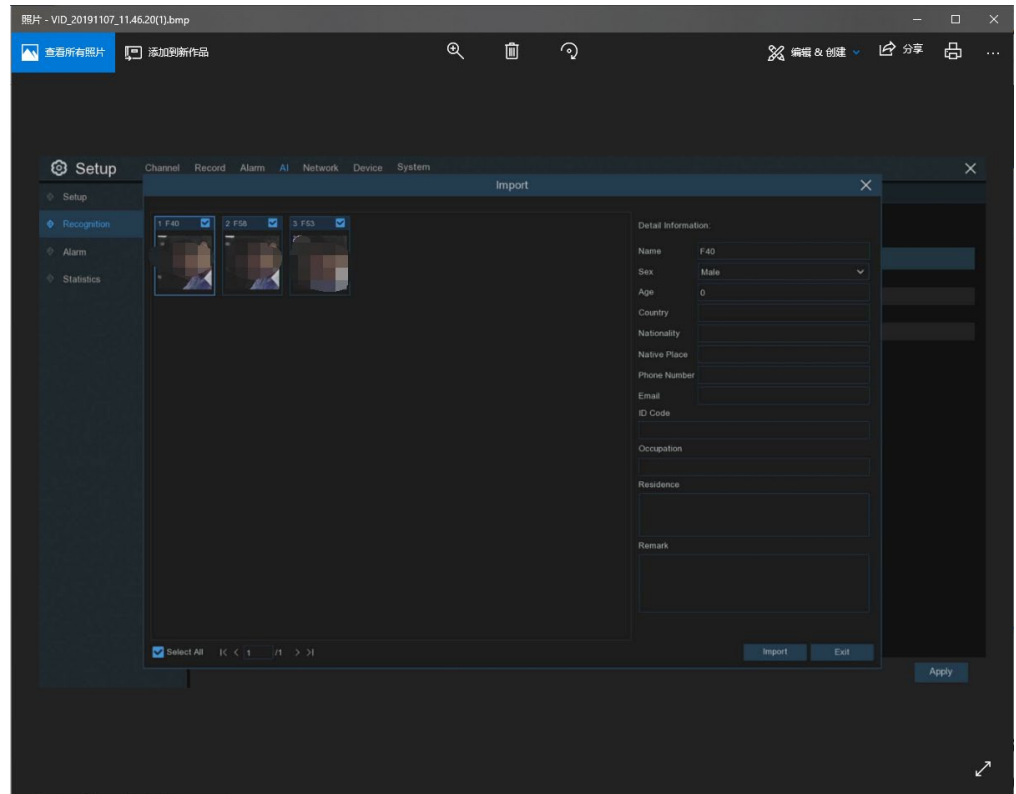
Edit: Click Edit to enter the edit face group interface.



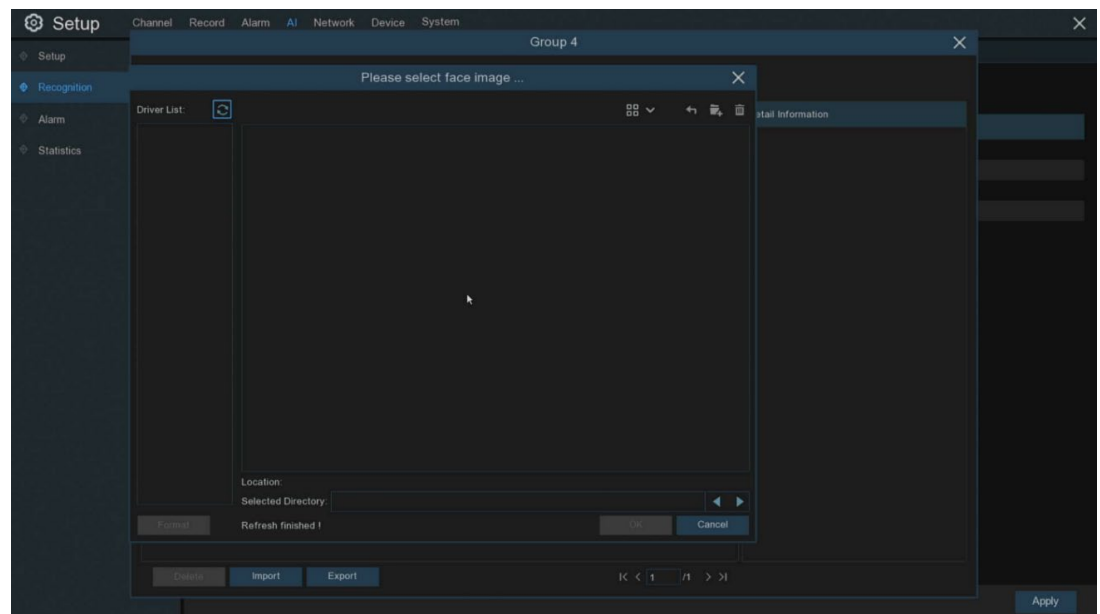
Import: click and then select [local storage device](#), enter the interface to add local faces



Select the date, duration and channel, and then click [Search](#) to search the faces saved by all devices in the current period. If you select a face, set the similarity and then click [Search](#), the face matching the selected face similarity will be found. Select the face in the search area and click [Delete](#) to delete the face in the search area. Select a face and click [OK](#) to add the face to the group.



The face information can be edited in the information on the right. After editing, click **Import** to complete the import, and click **exit** to exit the interface.

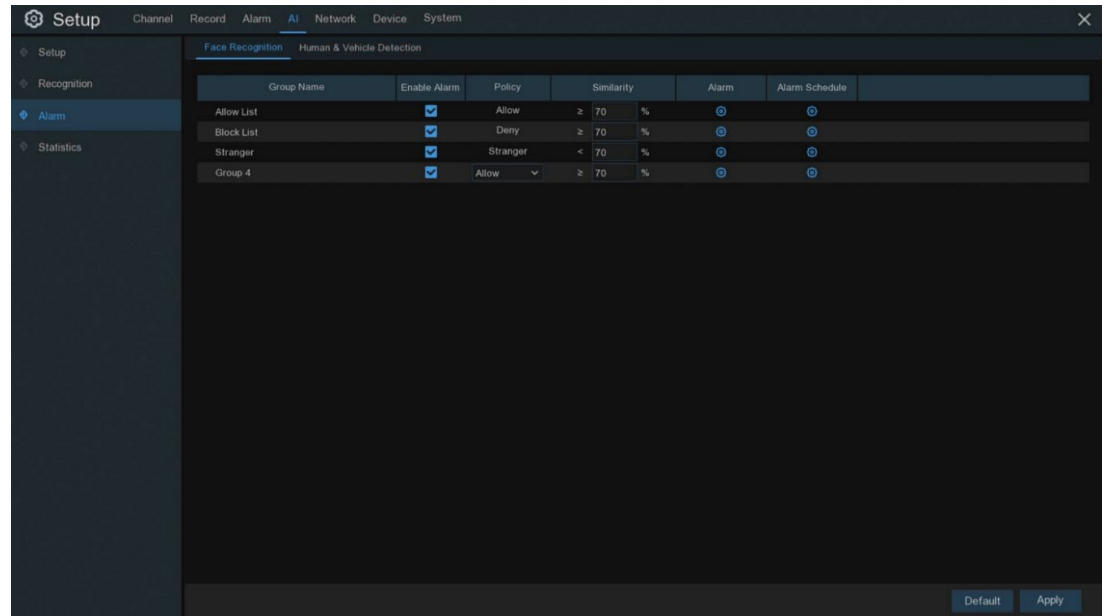


Click **External storage device** to enter the external memory and select the face you want to import. The steps are the same as importing the local face

2.4.3. Alarm

2.4.3.1. Face Recognition


When the face in the face group is detected, a series of alarm settings are made.

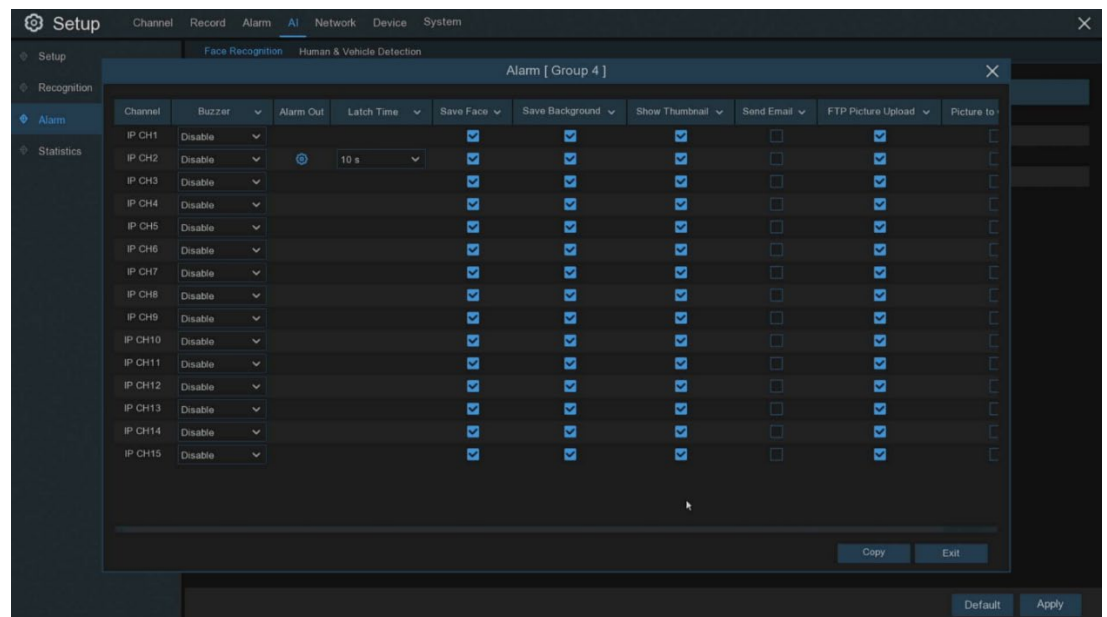


Enable alarm: Turn on or off face detection alarm

Policy: Set face group alarm strategy

Similarity: Similarity setting

Alarm: Click  to enter setting interface



Alarm Out: Optional function. If your NVR support to connect to external alarm device, you can set to emit an alarm tone.

Latch Time: To configure the external alarm time when face is detected.

Save Face: When a face is detected, the face is saved.


Save Background: When a face is detected, the entire preview image is saved

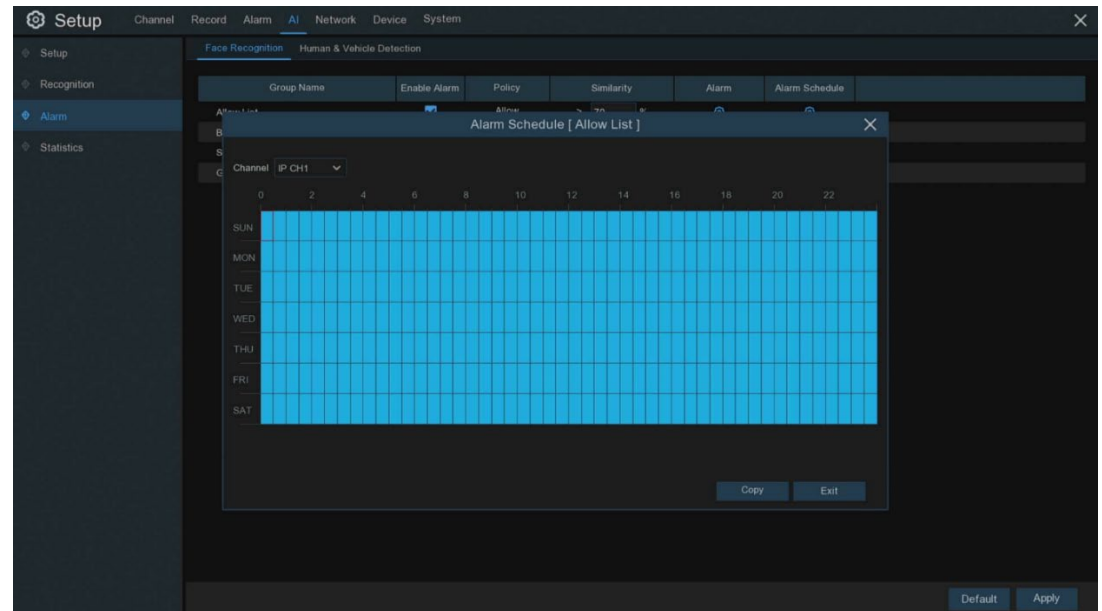
Show Thumbnail: When a face is detected, there will be a thumbnail pop-up prompt in the preview.

Send Email: When a face is detected, a picture will be sent to the set mailbox.

FTP Picture Upload: When a face is detected, the picture will be sent to the set FTP server [2.4.4 FTP](#).

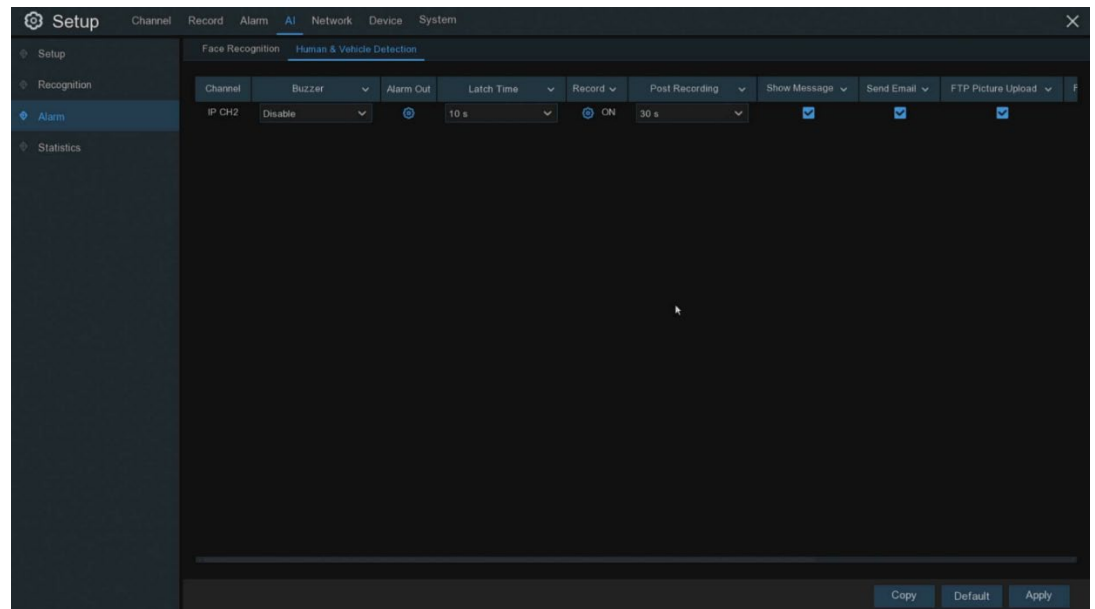
Picture to Cloud: When a face is detected, the image will be sent to the set cloud storage server [5.5.2 Cloud](#).

Alarm Schedule: Click  to enter setup schedule interface



Check the time period you want to alarm and click and **Exit** and click **Apply**, **Copy** can be copied to other channels

2.4.3.2. Human & Vehicle Detection




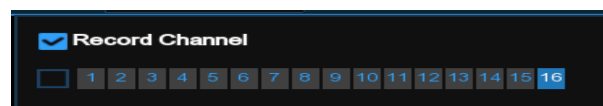
Channel: Channel name

Buzzer: The NVR can use its internal buzzer to emit an alarm tone. You can set the buzzer duration in seconds when the Human & Vehicle is detected.

Alarm Out: Optional function. If your NVR support to connect to external alarm device, you can set to emit an alarm tone.

Latch Time: To configure the external alarm time when Human & Vehicle is detected.

Record: Click  icon and choose which channel(s) you want to record when the Human & Vehicle detection is triggered.



Post Recording: You can set how long after an event occurs that the NVR will continue to record. The recommended recording length is 30 seconds but it can be set higher up to 5 minutes.

Show Message: Check the box to display “S” icon on the live view screen when the PIR is detected.

Send Email: You can let the NVR to send you an auto-email when the Human & Vehicle is detected.

FTP Picture Upload: To upload alarm images to FTP server when Human & Vehicle is detected. To enable FTP, please view [2.4.4 FTP](#).

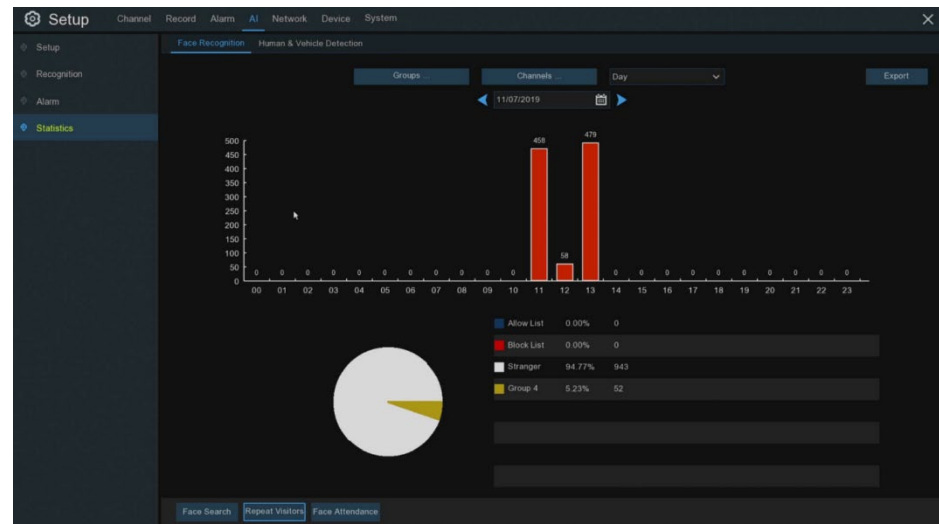
FTP Video Upload: To upload alarm video to FTP server when Human & Vehicle is detected. To enable FTP, please view [2.4.4 FTP](#).

Full Screen: If this function is enabled and a Human & Vehicle is detected in a channel, you will see that channel in full screen.

2.4.4. Statistics

2.4.4.1. Face Recognition

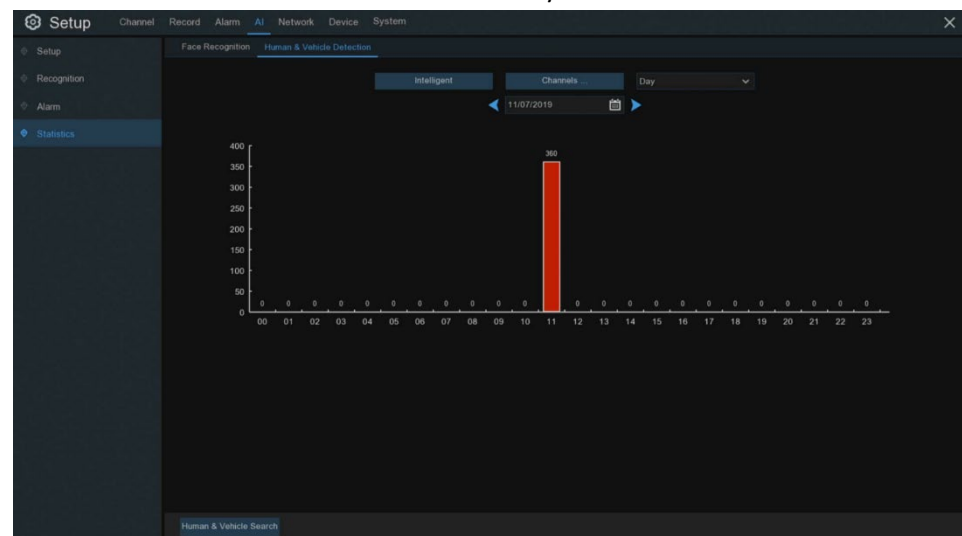
In face statistics, we can count all the detected faces in a period of time and show them in the form of statistical graph.



After selecting Groups, Channels, Date and statistics time, the statistics result will be directly displayed. Click [Export](#) to import the data to the U disk

2.4.4.2. Human & Vehicle Detection

In the statistics of people and vehicles, all detected people and vehicles in a period of time can be counted and reflected in the way of statistical chart.



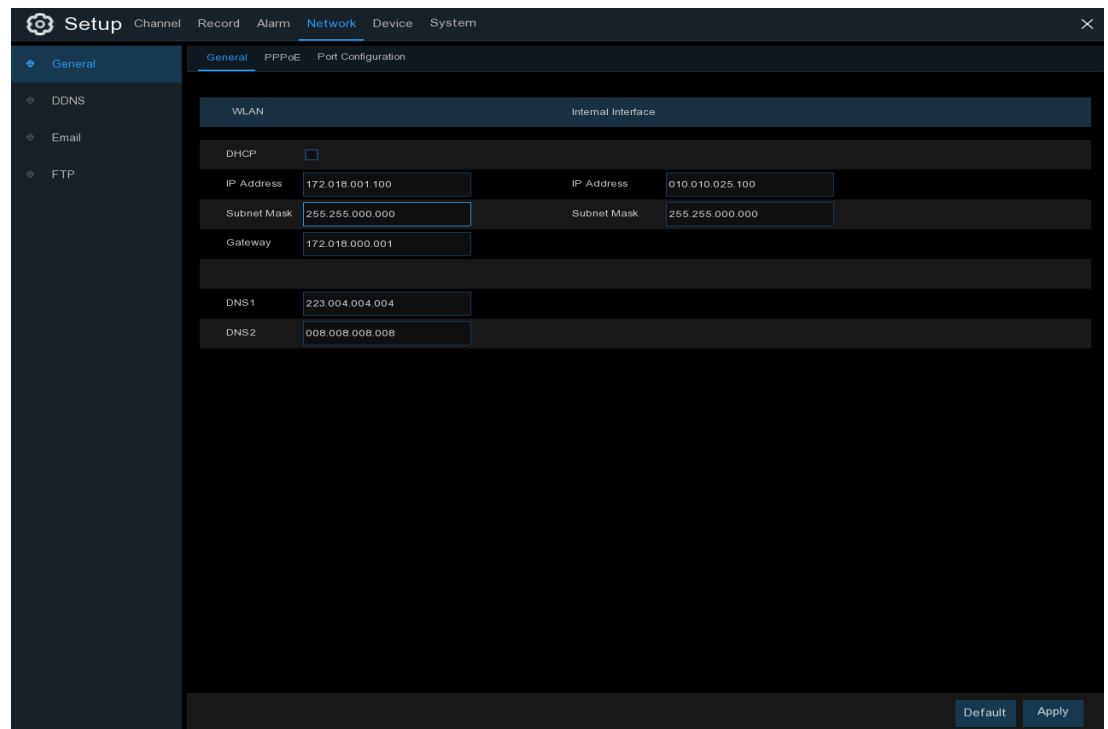
After selecting the type, channels, date and statistical time in [Intelligent](#), the statistical results will be directly displayed.

2.5. Network

This menu allows you to configure network parameters, such as PPPoE, DHCP. The most common types are DHCP. Most probably your network type is DHCP, unless the network is manually addressed. If you need an authentication user name and password to the Internet, then choose PPPoE.

2.5.1. General

2.5.1.1. General



The screenshot shows the 'Setup' interface for network configuration. The 'Network' tab is selected, and the 'General' sub-tab is active. The configuration is for an 'Internal Interface'. The 'DHCP' checkbox is unchecked. The following parameters are configured:

| Parameter | Value | Parameter | Value |
|-------------|-----------------|-------------|-----------------|
| IP Address | 172.018.001.100 | IP Address | 010.010.025.100 |
| Subnet Mask | 255.255.000.000 | Subnet Mask | 255.255.000.000 |
| Gateway | 172.018.000.001 | | |
| DNS1 | 223.004.004.004 | | |
| DNS2 | 008.008.008.008 | | |

Buttons for 'Default' and 'Apply' are visible at the bottom right of the configuration area.

If you connect to a router allows to use DHCP, please check the **DHCP** box. The router will assign automatically all the network parameters for your NVR. Unless the network is manually addressed below parameters:

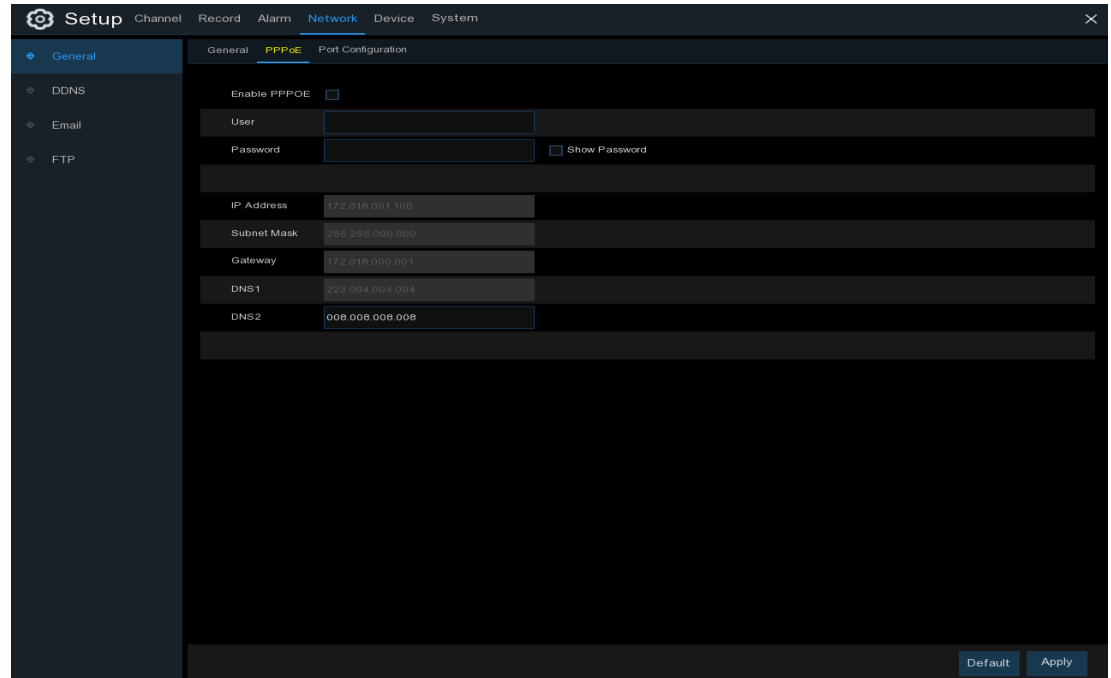
IP Address: The IP address identifies the NVR in the network. It consists of four groups of numbers between 0 to 255, separated by periods. For example, "192.168.001.100".

Subnet Mask: Subnet mask is a network parameter which defines a range of IP addresses that can be used in a network. If IP address is like a street where you live then subnet mask is like a neighborhood. The subnet address also consists of four groups of numbers, separated by periods. For example, "255.255.000.000".

Gateway: This address allows the NVR to access the Internet. The format of the **Gateway** address is the same as the **IP Address**. For example, "192.168.001.001".

DNS1/DNS2: DNS1 is the primary DNS server and DNS2 is a backup DNS server.
Usually should be enough just to enter the DNS1 server address.

2.5.1.2. PPPoE



The screenshot shows the 'Setup' interface with the 'Network' tab selected. The 'PPPoE' sub-tab is active, displaying the following configuration fields:

| Field | Value |
|--------------|--|
| Enable PPPoE | <input type="checkbox"/> |
| User | |
| Password | <input type="checkbox"/> Show Password |
| IP Address | 172.018.001.100 |
| Subnet Mask | 255.255.000.000 |
| Gateway | 172.018.000.001 |
| DNS1 | 223.004.004.004 |
| DNS2 | 008.008.008.008 |

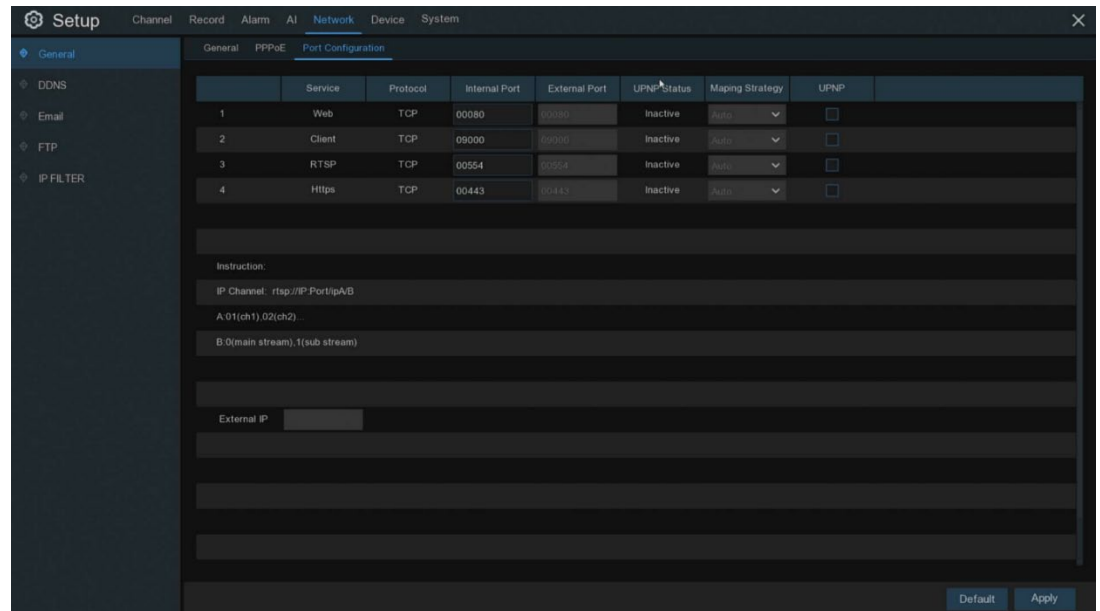
Buttons for 'Default' and 'Apply' are visible at the bottom right of the configuration area.

This is an advanced protocol that allows the NVR to connect to the network more directly via DSL modem.

Check the “Enable PPPOE” box, and then enter the User name & Password of the PPPoE.

Click **Apply** to save, system will reboot to active the PPPoE setting.

2.5.1.3. Port Configuration



Web Port: This is the port that you will use to log in remotely to the NVR (e.g. using the Web Client). If the default port 80 is already taken by other applications, please change it.

Client Port: This is the port that the NVR will use to send information through. If the default port 9000 is already taken by other applications, please change it.

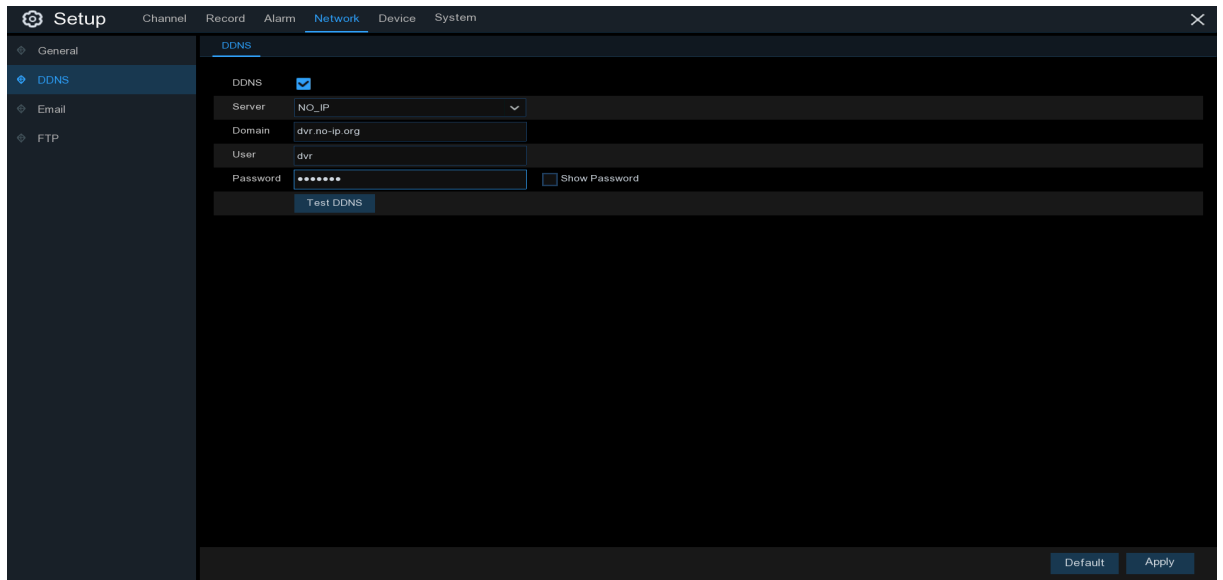
RTSP Port: Default is 554, if the default port 554 is already taken by other applications, please change it.

UPnP: If you want to log in remotely to the NVR using Web Client, you need to complete the port forwarding. Enable this option if your router supports the UPnP. You need to enable UPnP both, on NVR and router. In this case, you do not need to configure manually port forwarding on your router. If your router does not support UPnP, make sure the port forwarding is completed manually

Mapping Strategy: After setting to manual, you can manually set the [External Port](#).

2.5.2. DDNS

This menu allows you to configure DDNS settings. The DDNS provides a static address to simplify remote connection to your NVR. To use the DDNS, you first need to open an account on the DDNS service provider's web page.



The screenshot shows the 'Setup' window with the 'Network' tab selected. The 'DDNS' section is active, and the following fields are visible:

- DDNS:**
- Server:** NO_IP
- Domain:** dvr.no-ip.org
- User:** dvr
- Password:** [masked]
- Show Password:**
- Test DDNS:** [button]

At the bottom right of the window, there are 'Default' and 'Apply' buttons.

DDNS: Check to enable DDNS.

Server: Select the preferred DDNS server (DDNS_3322, DYNDNS, NO_IP, CHANGEIP, DNSEXIT).

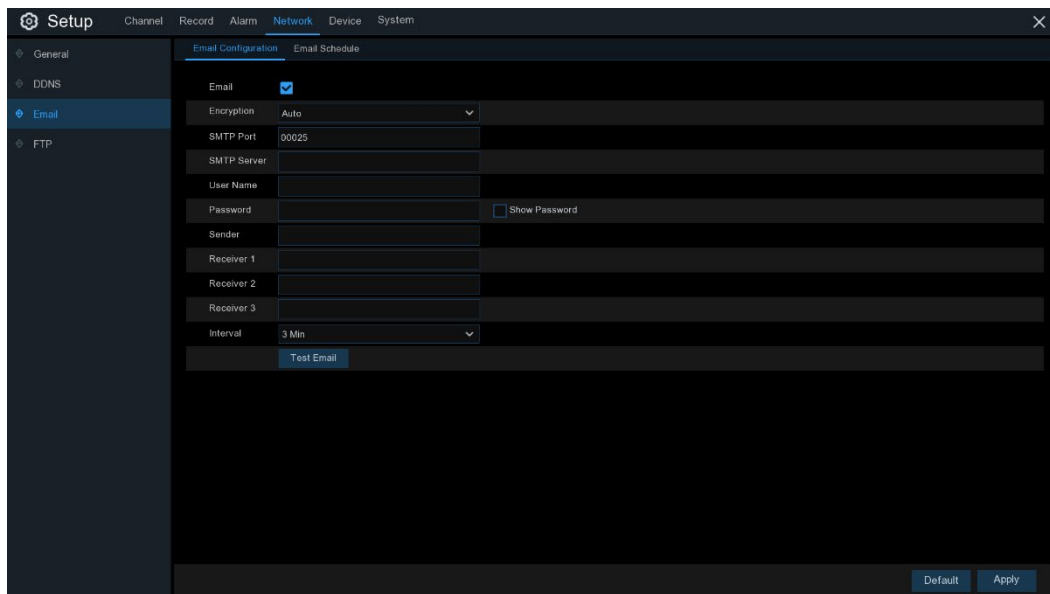
Domain: Enter the domain name you created on the DDNS service provider's web page. This will be the address you type in the URL box when you want to connect remotely to the NVR via PC. For example: NVR.no-ip.org.

User/Password: Enter the user name and password you obtained when creating an account on the DDNS service provider's web page.

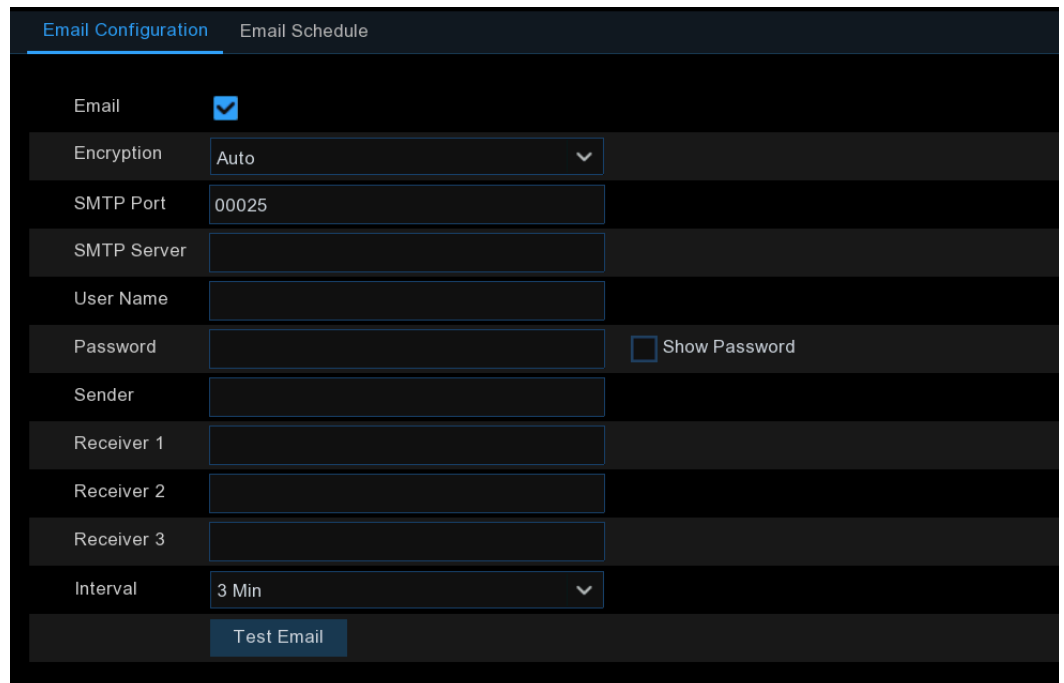
After all parameters are entered, click **Test DDNS** to test the DDNS settings. If the test result is "Network is unreachable or DNS is incorrect", please check whether the network works fine, or the DDNS information is correct or not.

2.5.3. Email

This menu allows you to configure email settings. Please complete these settings if you want to receive the system notifications on your email when an alarm is triggered, HDD becomes full, HDD is in error state, or Video Loss occurs.



2.5.3.1. Email Configuration



The detailed view of the 'Email Configuration' form shows the following fields and options:

- Email:**
- Encryption:** Auto (dropdown)
- SMTP Port:** 00025 (text input)
- SMTP Server:** (text input)
- User Name:** (text input)
- Password:** (text input) with a Show Password checkbox
- Sender:** (text input)
- Receiver 1:** (text input)
- Receiver 2:** (text input)
- Receiver 3:** (text input)
- Interval:** 3 Min (dropdown)
- Test Email:** (button)

Email: Check to enable.

Encryption: Enable if your email server requires the SSL or TLS verification. If you are not sure, set to be **Auto**.

SMTP Port: Enter the SMTP port of your email server.

SMTP Server: Enter the SMTP server address of your email.

User Name: Enter your email address.

Password: Enter the password of your email.

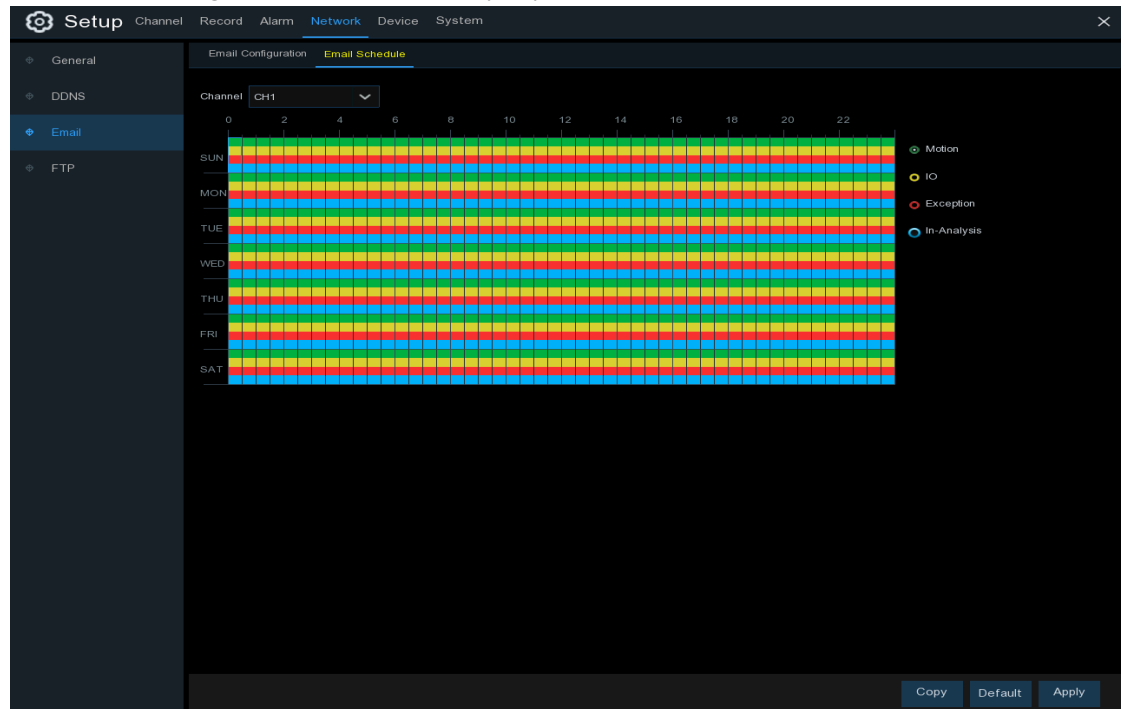
Receiver 1~3: Enter the email address where you want to receive the event notifications from the NVR.

Interval: Configure the length of the time interval between the notification emails from the NVR.

To make sure all settings are correct, click **Test Email**. The system sends an automated email message to your inbox. If you received the test email, it means the configuration parameters are correct.

2.5.3.2. Email Schedule

You need to configure the schedule to fully implement the Email notification.



The color codes on email schedule have the following meanings:

Green: Slot for Motion detection.

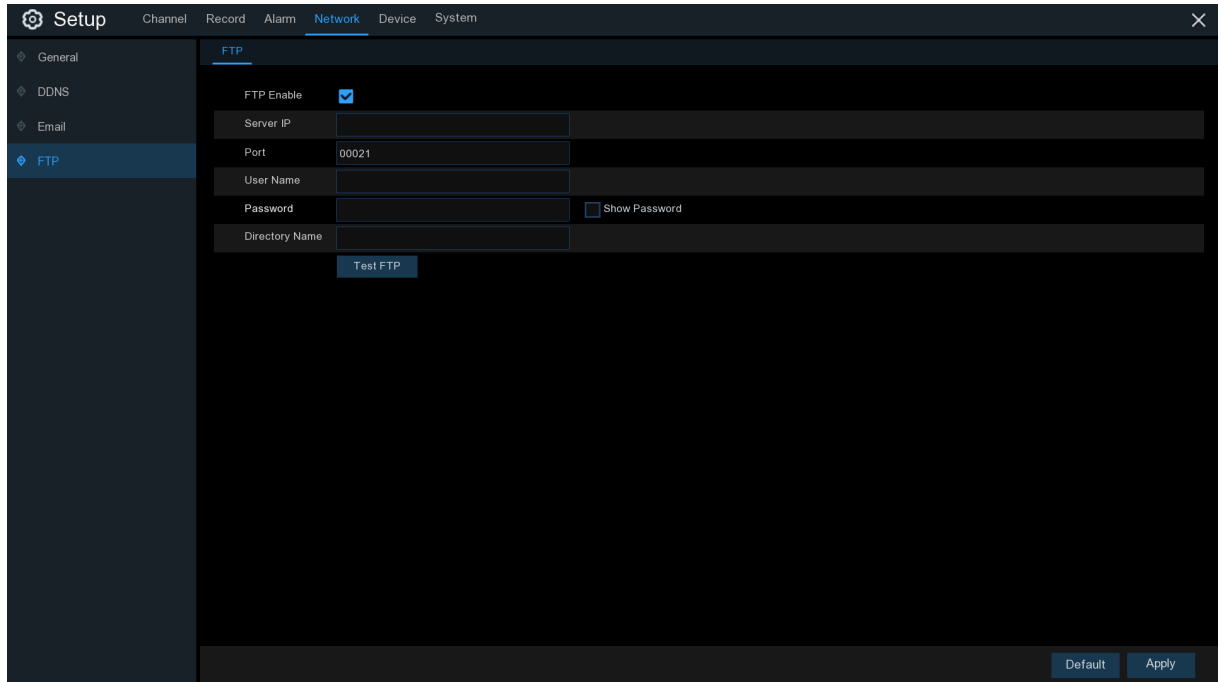
Yellow: Slot for I/O Alarm (optional).

Red: Slot for Exception (HDD full, HDD error, or Video Loss).

Blue: Slot for Intelligent Analysis detection.

2.5.4. FTP

This menu allows you to enable FTP function to view and load captured snapshots from NVR to your storage device over FTP.



The screenshot shows the 'Setup' interface with the 'Network' tab selected. The 'FTP' sub-tab is active, displaying the following configuration options:

- FTP Enable:** A checked checkbox.
- Server IP:** An empty text input field.
- Port:** A text input field containing '00021'.
- User Name:** An empty text input field.
- Password:** A text input field with a 'Show Password' checkbox to its right.
- Directory Name:** An empty text input field.

Below the 'Directory Name' field is a 'Test FTP' button. At the bottom right of the window are 'Default' and 'Apply' buttons.

FTP Enable: Click to enable FTP function.

Server IP: Enter your FTP server IP address or domain name.

Port: Enter the FTP port for file exchanges.

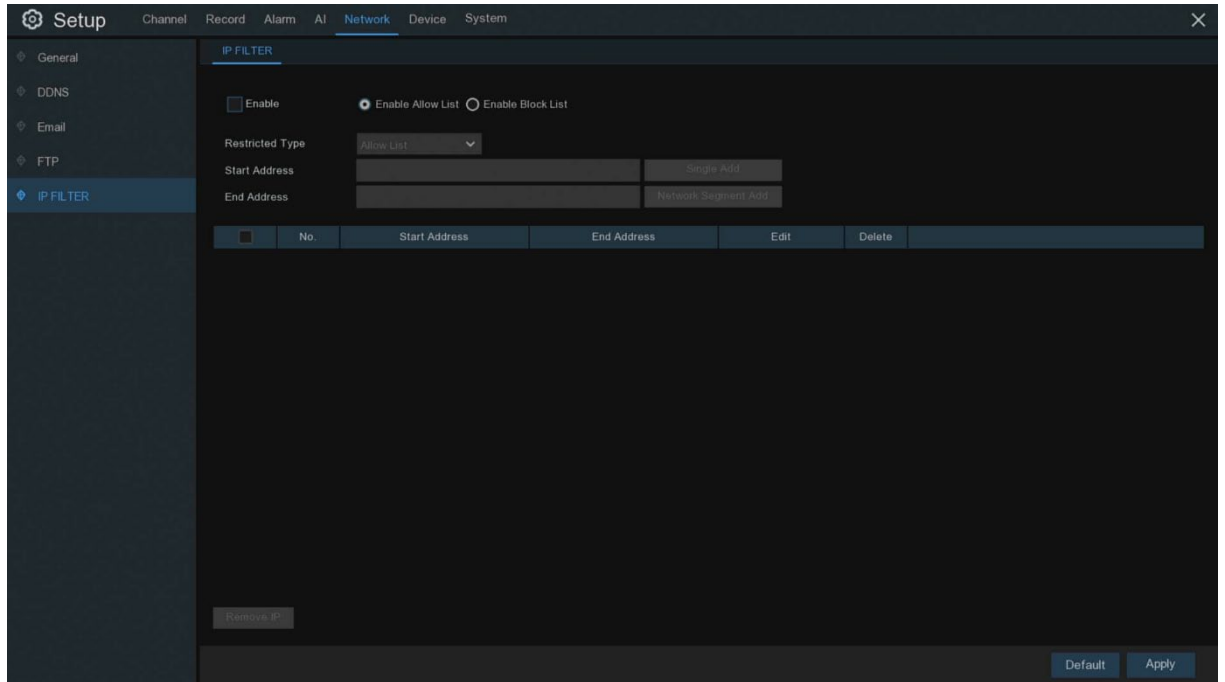
Name/ Password: Enter your FTP server user name and password.

Directory Name: Enter the default directory name for the FTP file exchanges.

Test FTP: Click to test the FTP settings.

2.5.5. IP FILTER

IP filtering allows you to set to allow only one IP to log in to the device, or to disable one IP from logging in to the device.



The screenshot shows the 'Setup' interface with the 'Network' tab selected. The 'IP FILTER' section is active, displaying the following configuration options:

- Enable
- Enable Allow List Enable Block List
- Restricted Type:
- Start Address:
- End Address:
- Buttons: and

| No. | Start Address | End Address | Edit | Delete |
|-----|---------------|-------------|------|--------|
|-----|---------------|-------------|------|--------|

Buttons: (bottom left), and (bottom right).

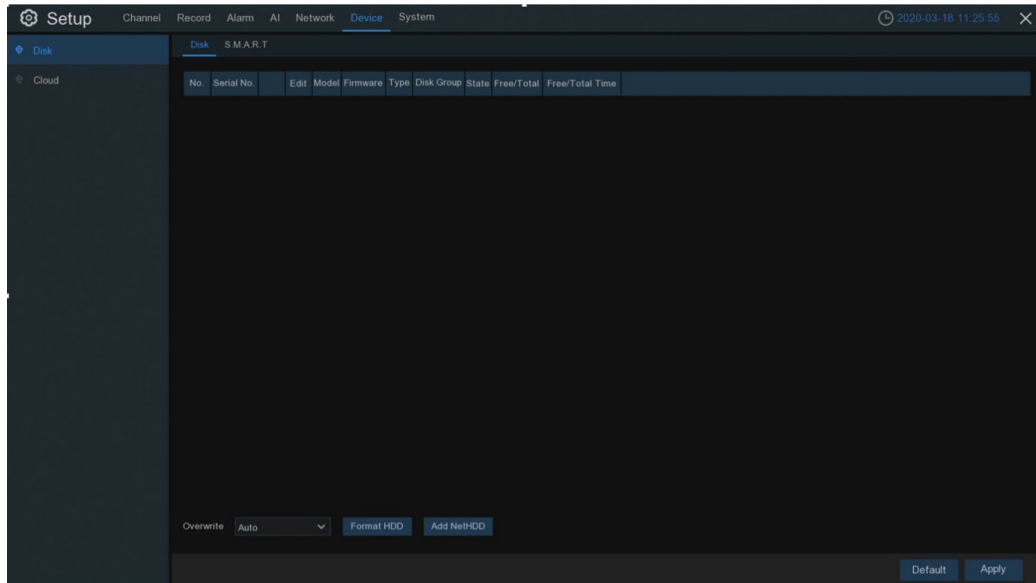
Restricted Type select **Black List** or **White List**, input IP, click **Single Add** to add IP (or input an IP segment, click **Network Segment Add** to add an IP segment) to the blacklist or white list.

2.6. Device

In this section, you can configure the internal HDD function.

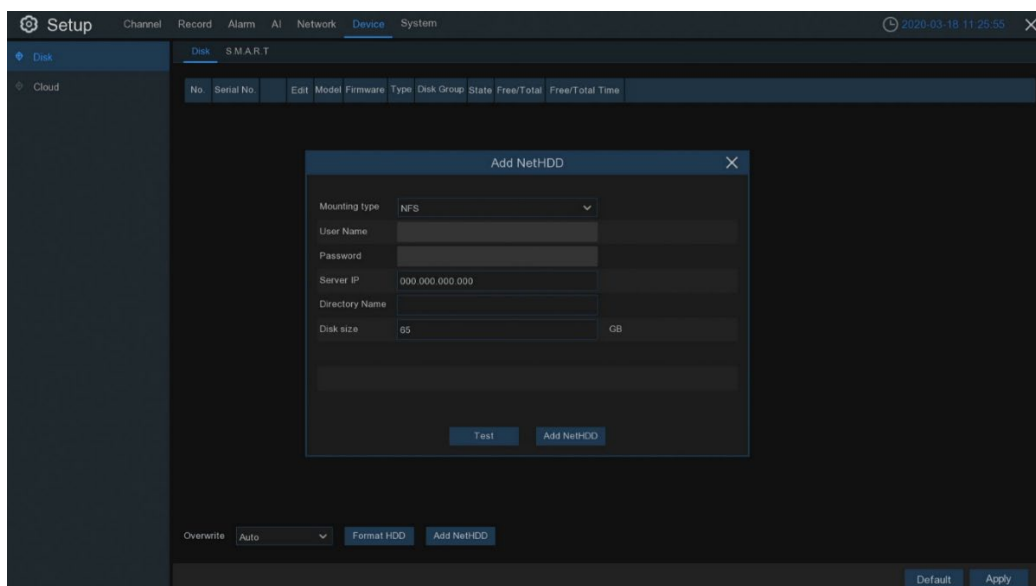
2.6.1. Disk

This menu allows you to check & configure the internal HDD(s). You need to format the HDD only at the first startup and if you replace a new HDD.



Format HDD: Select the HDD you want to format and then click **Format HDD**. To start formatting, you need to enter your user name and password and then click **OK** to confirm to continue formatting.

ADD NetHDD: Use this function to add a network hard disk. After the network hard disk (NAS) is configured, you can connect to the NAS through the network to record the channel video or snapshot. But AI face database can only be saved in hard disk.



Mounting type: There are two mounting types: NFS and CIFS. NFS does not need to enter the NAS account password, while CIFS needs to enter the NAS account and password.

User Name: Input the account number of NAS (in NFS mode, it is not selectable).

Password: Input the password for the NAS (in NFS mode, it is not selectable).

Server IP: Input IP address of NAS.

Directory Name: Input the folder where you want to put the data in NAS memory.


Disk Size: Set the size of the network hard disk.

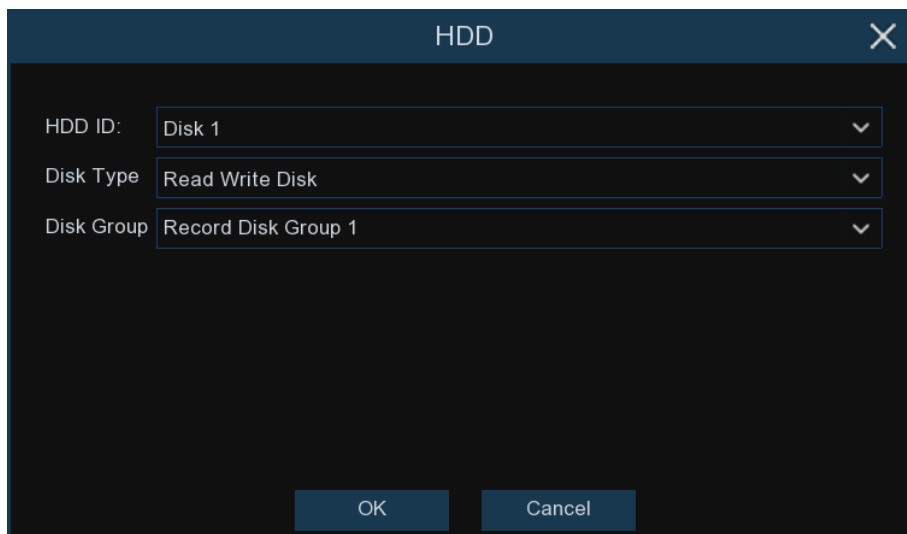
Test: You can test NAS if be connected or not.

Add NetHDD: Click and then to add NAS.

Overwrite: Use this option to overwrite the old recordings on the HDD when the HDD is full. For example, if you choose the option 7 days then only the last 7 days recordings are kept on the HDD. To prevent overwriting any old recordings, select **OFF**. If you have disabled this function, please check the HDD status regularly, to make sure the HDD is not full. Recording will be stopped if HDD is full.

Record on ESATA: This menu only displayed when your NVR is coming with an e-SATA port on the rear panel. It will allow to record the video to external e-SATA HDD to enhance your HDD capacity. If the e-SATA recording function is enabled, e-SATA backup function will be disabled.

If your NVR supports to install multiple HDDs, the edit icon  appears in your system, you can click it to edit the HDD as below:



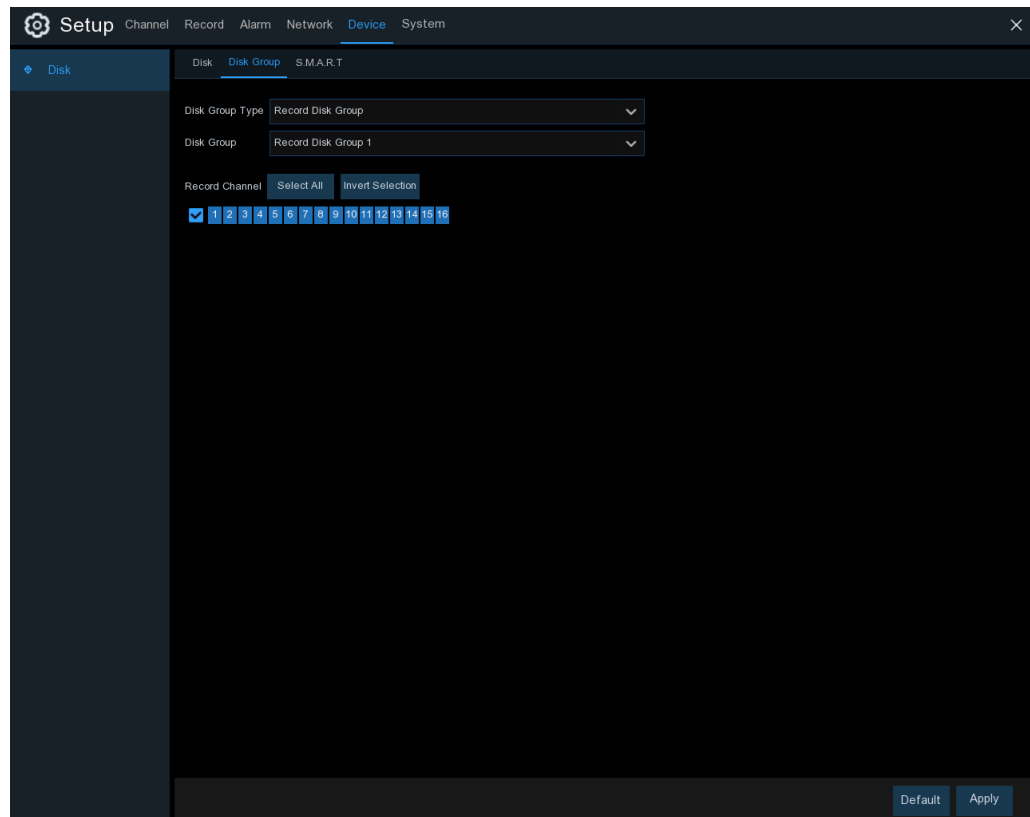
Disk Type: Read-write, read-only, and redundant.

Read-write mode is the normal status for a HDD to save recording or search recording to play. To prevent important video data from being overwritten during cyclic recording, the HDD can be set as **Read-only** mode. New recording will be not able to save into this read-only HDD. You can still search recording from this read-only HDD to play.

A **Redundant** HDD can be used to automatically backup video footage on the recording (read-write) hard drive. When a redundant HDD is set, the system can be set to record cameras in parallel to both the recording hard drive and the redundant hard drive in case of hard drive failure.

2.6.1.1. Disk Group

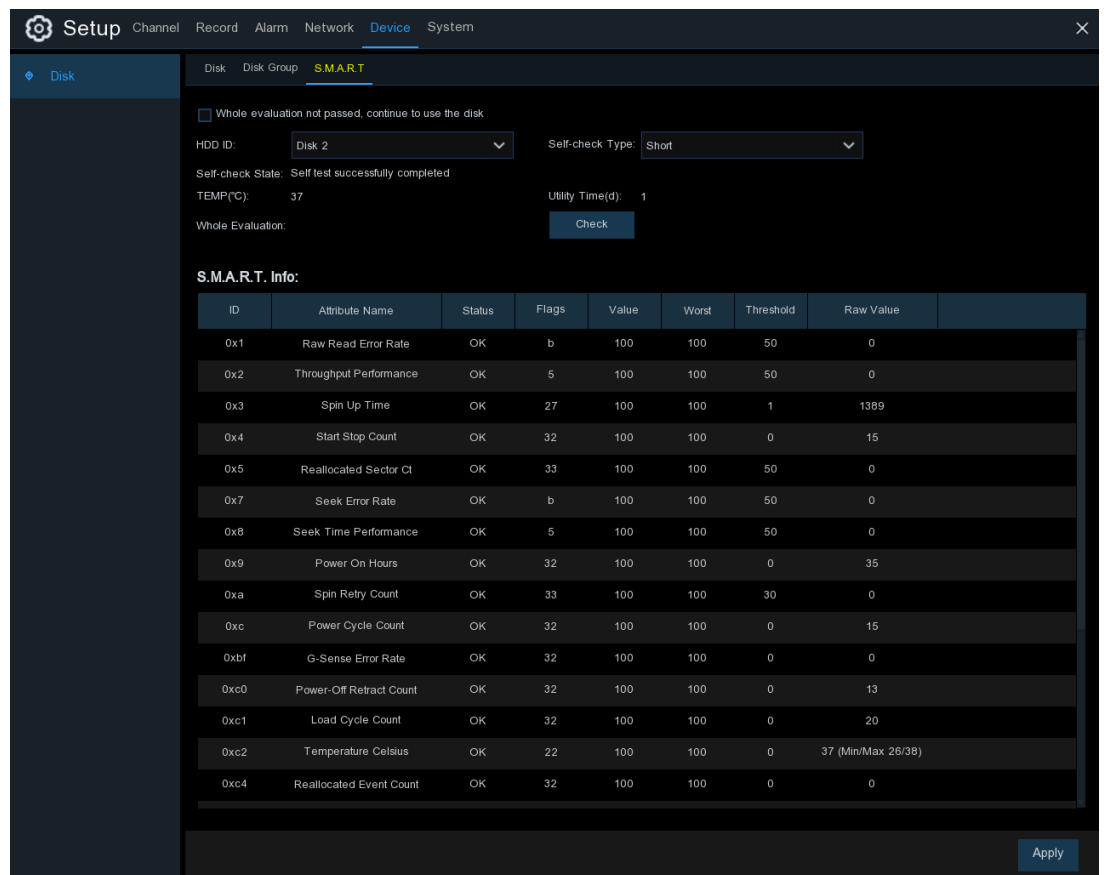
If your NVR supports to install multiple HDDs, you can configure the HDD to be different groups. HDD groups allow you to balance recordings across multiple hard drives. For example, you can record channels 1~4 to one hard drive and 5~8 to a second hard drive. This can reduce the amount of wear on the hard drives and may extend the life of the hard drives.



1. Use the dropdown next to **Disk Group Type** to select the type of group to configure.
2. Use the dropdown next to **Disk Group** to select the specific group within the selected group type.
3. Click the numbered boxes representing channels to record channels to HDDs in the selected group.
4. Click **Apply** to save.

2.6.1.2. S.M.A.R.T

This function can be used to display technical information on the hard drive installed inside your NVR. You can also perform a test (there are three types available) to evaluate and detect potential drive errors.



Whole Evaluation not passed, continue to use the disk: If for some reason the hard drive has developed a fault (such as one or more bad sectors), you can instruct your NVR to continue saving to the drive.

Self-check Type: There are three types available:

Short: This test verifies major components of the hard drive such as read/write heads, electronics and internal memory.

Long: This is a longer test that verifies the above as well as performing a surface scan to reveal problematic areas (if any) and forces bad sector relocation

Conveyance: This is a very quick test that verifies the mechanical parts of the hard drive are working.

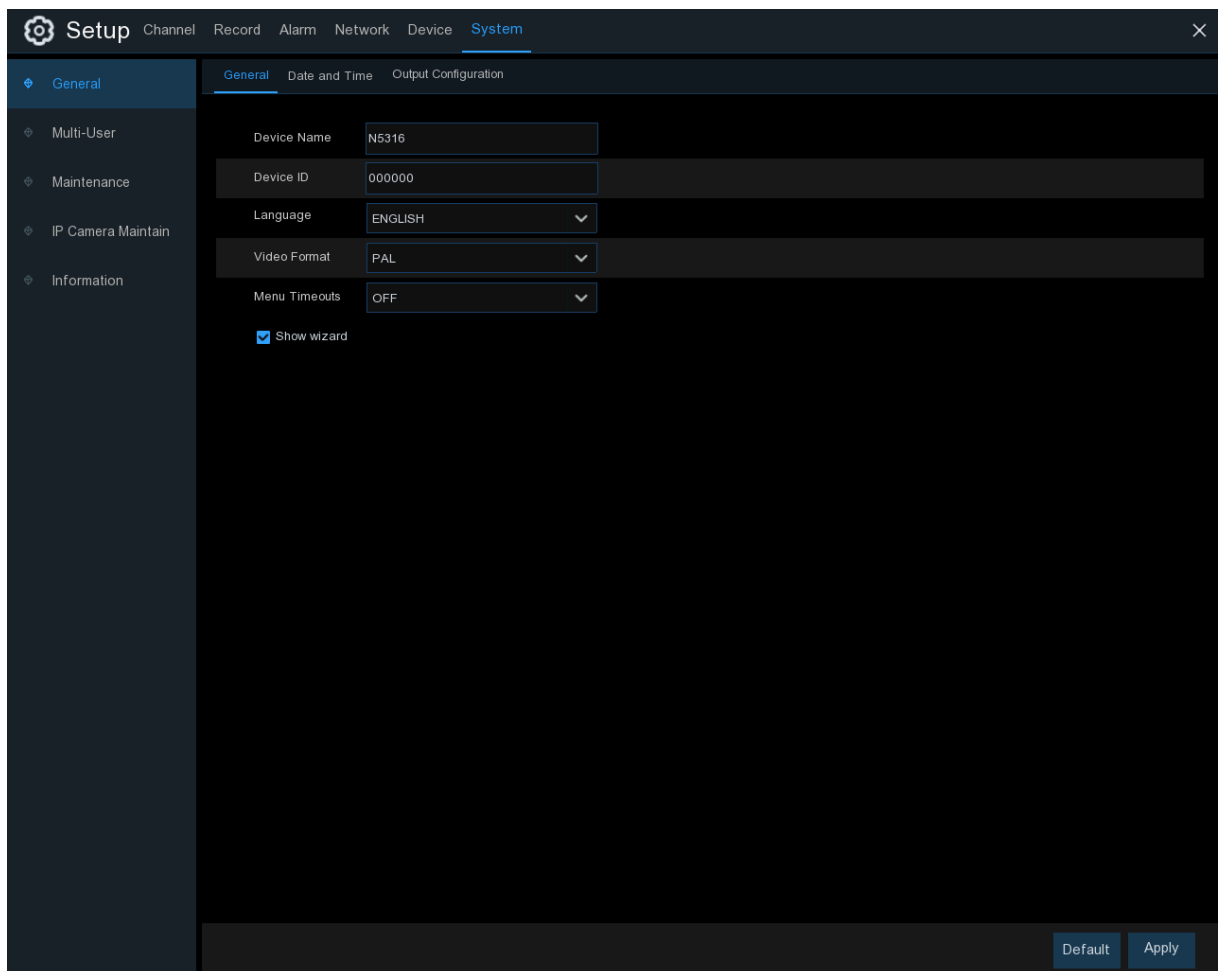
Note: When performing a test, your NVR will continue to work as normal. If an HDD S.M.A.R.T error found, the HDD can be continued to use, but there will be a risk to lose recording data. It is recommended to replace a new HDD.

2.7. System

Change general system information such as date, time and region, edit passwords and permissions, and more.

2.7.1. General

2.7.1.1. General



The screenshot shows the 'Setup' interface for a Partizan NVR. The 'System' tab is selected, and the 'General' sub-tab is active. The interface includes a sidebar with navigation options: General, Multi-User, Maintenance, IP Camera Maintain, and Information. The main area contains the following configuration fields:

| Field | Value |
|---------------|---------|
| Device Name | N5316 |
| Device ID | 000000 |
| Language | ENGLISH |
| Video Format | PAL |
| Menu Timeouts | OFF |

There is also a checked checkbox for 'Show wizard'. At the bottom right, there are 'Default' and 'Apply' buttons.

Device Name: Enter the desired name for your NVR. The name can include both letters and numbers.

Device ID: Enter the desired ID for your NVR. The device ID is used to identify the NVR, and can only be composed of numbers. For example, 2pcs NVRs are installed in the same place, the Device ID is 000000 for one of the NVRs, and 111111 for another NVR. When you want to operate the NVR with a remote controller, both of the NVR may receive the signal from controller & act at the same time. If you want to control only the NVR with ID 111111, you can input the Device ID 111111 in login page with remote controller for further operations.

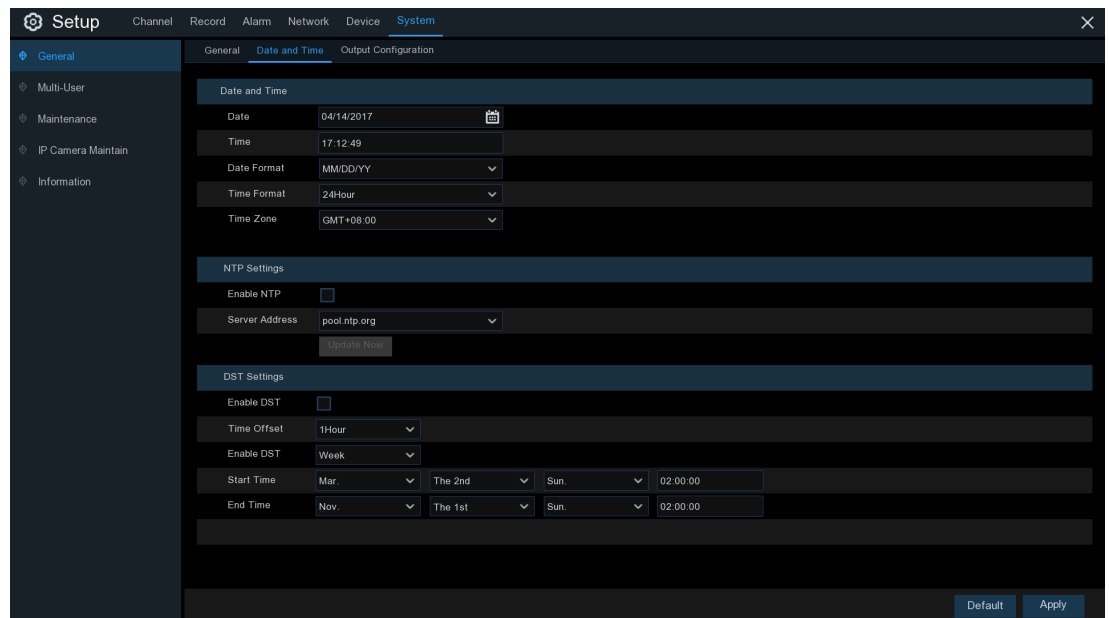
Language: Select a language you would like the system menus to be displayed in. Multiple languages are available.

Video Format: Select the correct video standard for your region.

Menu Timeouts: Click the drop-down menu to select the time your NVR will exit the Main Menu when idle. You can also disable this by selecting “OFF” (password protection will be temporarily disabled).

Show Wizard: Click the checkbox if you would like to display the Startup Wizard each time you turn on or reboot your NVR.

2.7.1.2. Date and Time



The screenshot shows the 'Setup' interface with the 'System' tab selected. The 'Date and Time' configuration page is displayed, featuring a sidebar with navigation options (General, Multi-User, Maintenance, IP Camera Maintain, Information) and a main content area with the following settings:

- Date and Time:**
 - Date: 04/14/2017 (with a calendar icon)
 - Time: 17:12:49 (with a dialogue box icon)
 - Date Format: MM/DD/YY (dropdown)
 - Time Format: 24Hour (dropdown)
 - Time Zone: GMT+08:00 (dropdown)
- NTP Settings:**
 - Enable NTP:
 - Server Address: pool.ntp.org (dropdown)
 - Update Now button
- DST Settings:**
 - Enable DST:
 - Time Offset: 1Hour (dropdown)
 - Enable DST: Week (dropdown)
 - Start Time: Mar, The 2nd, Sun, 02:00:00
 - End Time: Nov, The 1st, Sun, 02:00:00

Buttons for 'Default' and 'Apply' are located at the bottom right of the configuration area.

Date & Time

Date: Click the calendar icon to change the date.

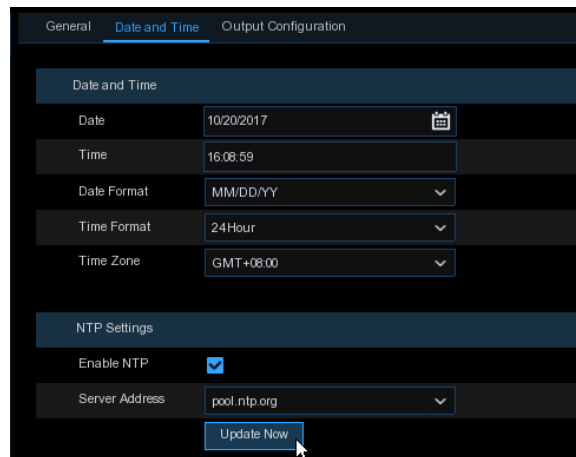
Time: Click the dialogue box to change the time.

Date Format: Select the preferred date format.

Time Format: Select the preferred time format.

Time Zone: Select a time zone relevant to your region or city.

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

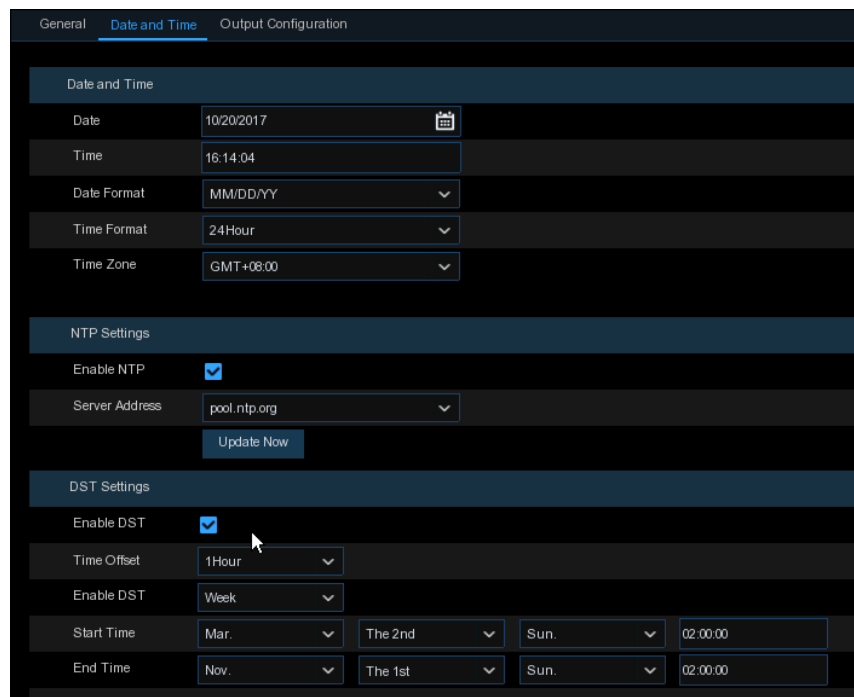


Check to enable the **PVR**, and select a **Ugtxgt'Cf f tguu**, click Update Now to manually sync the date & time.

Click **Cr r r f** to save your settings.

When NTP function is enabled, system will update the system time at 00:07:50 per day, or every time when the system is starting up.

The DST (Daylight Saving Time) function allows you to select the amount of time that Daylight Saving has increased by in your particular time zone or region.



Enable DST: If Daylight Saving applies to your time zone or region, check this option to enable.

Time Offset: Select the amount of time that Daylight Saving has increased by in your time zone. This refers to the difference in minutes, between Coordinated Universal Time (UTC) and the local time.

Enable DST: You can select how Daylight Saving starts and ends:

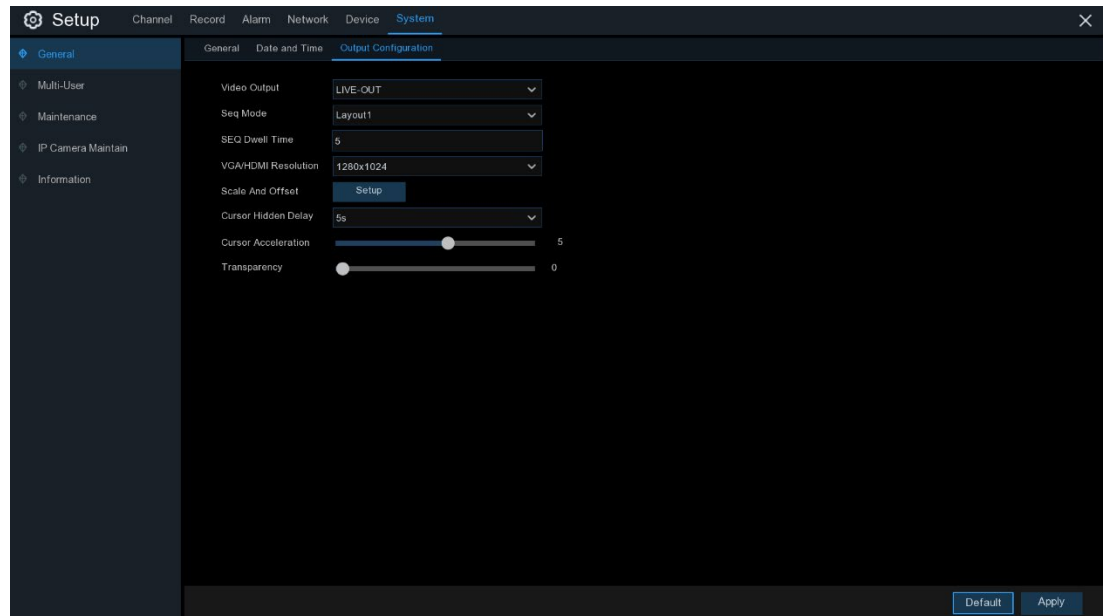
Week: Select the month, a particular day and time when Daylight Saving starts and ends. For example, 2 a.m. on the first Sunday of a particular month.

Date: Select the start date (click the calendar icon), end date and time when Daylight Saving starts and ends.

Start Time / End Time: Set the start time and end time for Daylight Saving.

2.7.1.3. Output Configuration

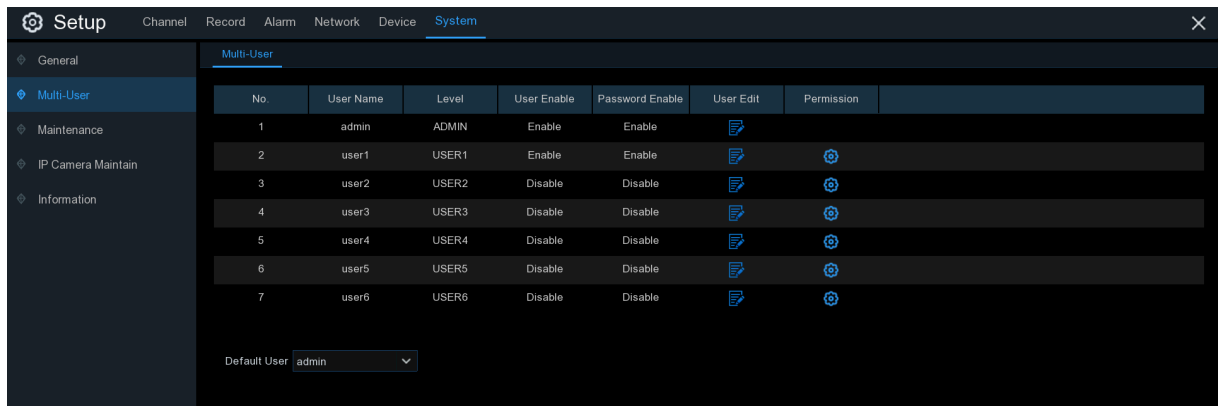
This menu allows you to configure video output parameters.



Video Output: To choose the output options:
LIVE-OUT is used to configure the main output parameters.

2.7.2. Multi-user


This menu allows you to configure the user name, password and user permission.

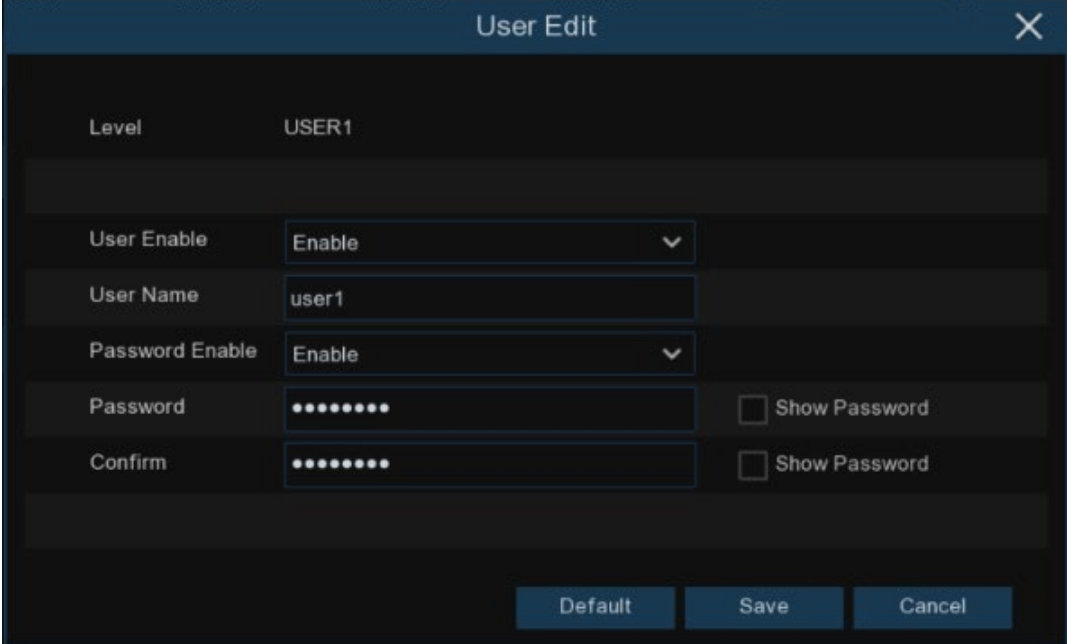


The system supports the following account types:

- **ADMIN — System Administrator:** The administrator has full control of the system, and can change both administrator and user passwords and enable/disable password protection.
- **USER — Normal User:** Users only have access to live viewing, search, playback, and other functions. You may set up multiple user accounts with varying levels of access to the system.

2.7.2.1. Changing Password

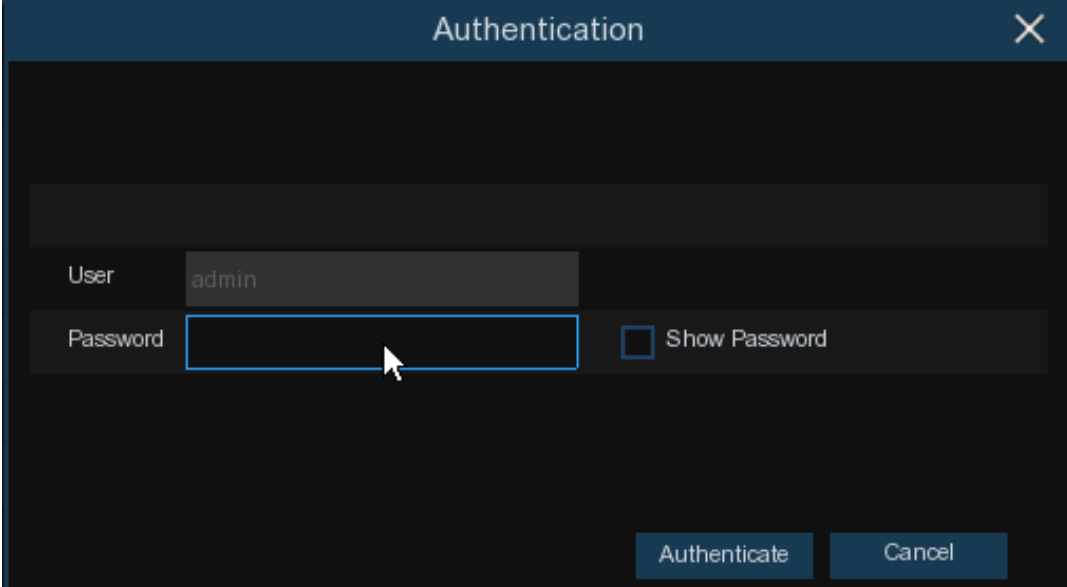
To change the password for the administrator or user accounts, click the User Edit icon . The password has to be a minimum of 8 characters and can contain a mixture of numbers and letters. Enter your new password again to confirm, and then click **Save** to save your new password. You will be required to input your old password to authenticate.



The 'User Edit' dialog box shows the following fields and options:

- Level: USER1
- User Enable: Enable (dropdown menu)
- User Name: user1
- Password Enable: Enable (dropdown menu)
- Password: [masked with dots] Show Password
- Confirm: [masked with dots] Show Password

Buttons at the bottom: Default, Save, Cancel
















The 'Authentication' dialog box shows the following fields and options:

- User: admin
- Password: [empty field] Show Password


Buttons at the bottom: Authenticate, Cancel

Password Enable: It's strongly recommended to enable the password to protect your privacy. If you want to disable the password protection, please ensure your NVR is placed in a secure place.

2.7.2.2. Add New Users

| No. | User Name | Level | User Enable | Password Enable | User Edit | Permission |
|-----|-----------|-------|-------------|-----------------|---|---|
| 1 | admin | ADMIN | Enable | Enable |  | |
| 2 | user1 | USER1 | Enable | Enable |  |  |
| 3 | user2 | USER2 | Disable | Disable |  |  |
| 4 | user3 | USER3 | Disable | Disable |  |  |
| 5 | user4 | USER4 | Disable | Disable |  |  |
| 6 | user5 | USER5 | Disable | Disable |  |  |
| 7 | user6 | USER6 | Disable | Disable |  |  |

Default User:

1. Select one of the user accounts that is currently disabled, click the User Edit icon .

User Edit

Level: USER1

User Enable:

User Name:

Password Enable:














Password: Show Password

Confirm: Show Password

2. Select **Enable** from the drop-down next to **User Enable**.
3. Click the field next to **User Name** to change the user name for the account.
4. Select **Enable** from the drop-down next to **Password Enable**.
5. Click the field next to **Password** to enter the desired password.
6. Click the field next to **Confirm** to reenter the password.
7. Click **Save**. You will be required to input your Admin password to authenticate.

2.7.2.3. Setting User Permissions

The administrator account is the only account that has full control of all system functions. You can enable or disable access to certain menus and functions of each user account.

| No. | User Name | Level | User Enable | Password Enable | User Edit | Permission |
|-----|-----------|-------|-------------|-----------------|---|---|
| 1 | admin | ADMIN | Enable | Enable |  | |
| 2 | user1 | USER1 | Enable | Enable |  |  |
| 3 | user2 | USER2 | Disable | Disable |  |  |
| 4 | user3 | USER3 | Disable | Disable |  |  |
| 5 | user4 | USER4 | Disable | Disable |  |  |
| 6 | user5 | USER5 | Disable | Disable |  |  |
| 7 | user6 | USER6 | Disable | Disable |  |  |

Default User:

1. Click the edit icon  under Permission tab.

User Permission ✕

User Name:

| | | | |
|--|--|---|--|
| <input checked="" type="checkbox"/> Log Search | <input checked="" type="checkbox"/> Parameter | <input checked="" type="checkbox"/> Maintain | <input checked="" type="checkbox"/> Manual Record |
| <input checked="" type="checkbox"/> Disk | <input checked="" type="checkbox"/> Remote Login | <input checked="" type="checkbox"/> SEO Control | <input checked="" type="checkbox"/> Manual Capture |

Backup

Analog Channels: 1 2 3 4 5 6 7 8

IP Camera: 1 2 3 4 5 6 7 8 9 10 11 12

Live

Analog Channels: 1 2 3 4 5 6 7 8

IP Camera: 1 2 3 4 5 6 7 8 9 10 11 12

Playback

Analog Channels: 1 2 3 4 5 6 7 8

IP Camera: 1 2 3 4 5 6 7 8 9 10 11 12

PTZ

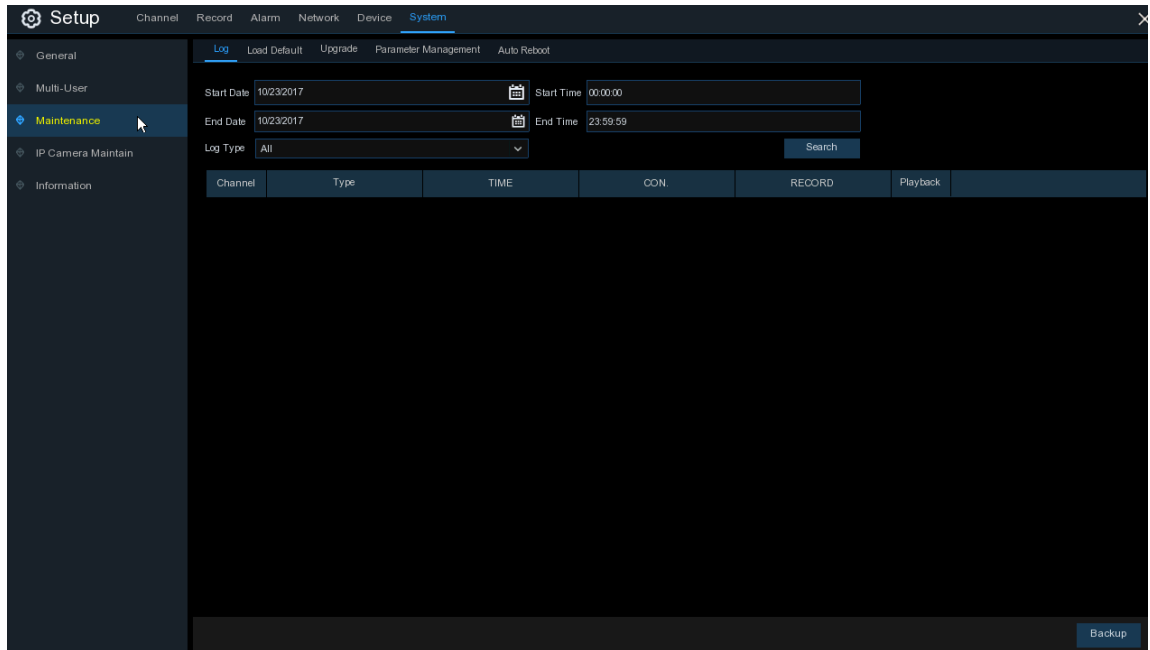
Analog Channels: 1 2 3 4 5 6 7 8

IP Camera: 1 2 3 4 5 6 7 8 9 10 11 12

2. Check the boxes next to any system menus or capabilities you would like the user to access. Click **All** to check all boxes. Click **Clear** to check none of the boxes.
3. Click **Save** to save your modifications.

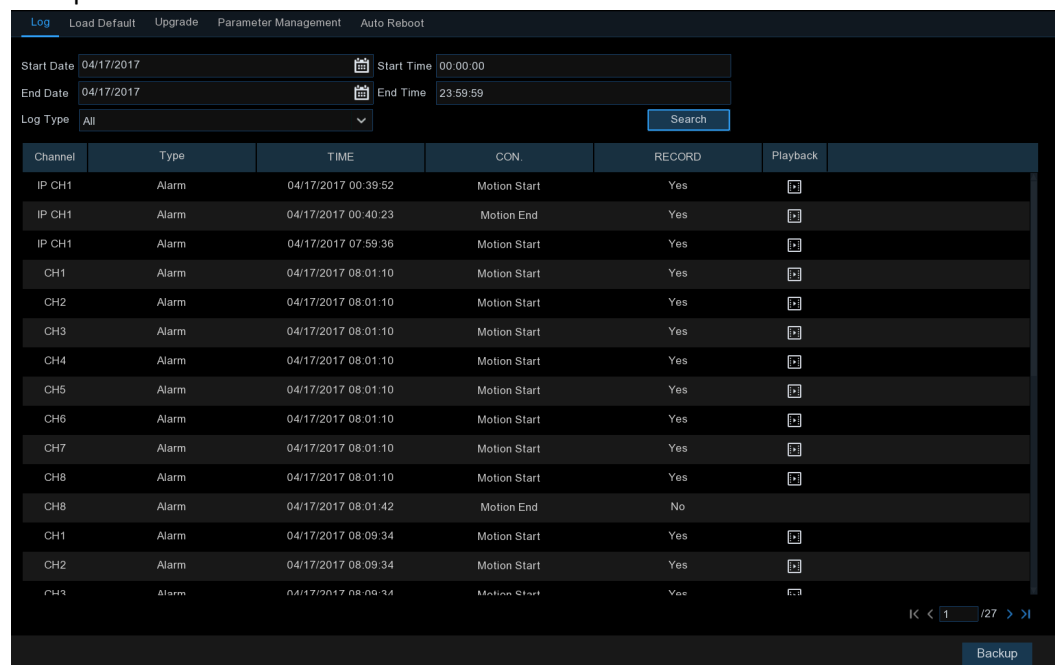
2.7.3. Maintenance

In this section, you will be able to search & view the system log, load default settings, upgrade the system, export & import system parameters and manager system auto reboot.



2.7.3.1. Log

The system log shows you important system events, such as motion alarms and system warnings. You can easily create a backup file of the system log for a set time period to a USB flash drive.



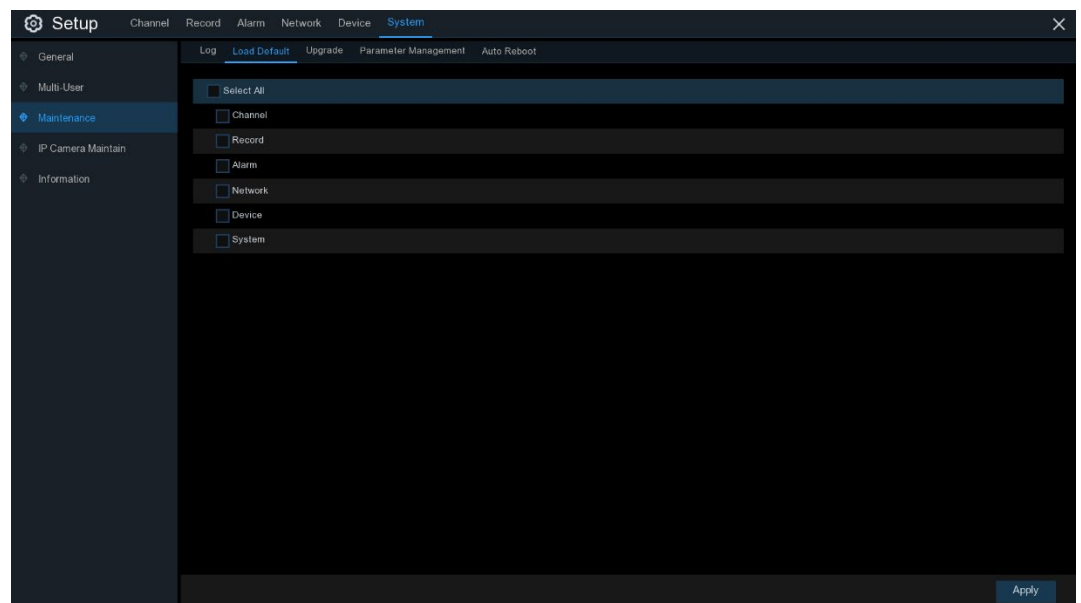
| Channel | Type | TIME | CON. | RECORD | Playback |
|---------|-------|---------------------|--------------|--------|----------|
| IP CH1 | Alarm | 04/17/2017 00:39:52 | Motion Start | Yes | [Play] |
| IP CH1 | Alarm | 04/17/2017 00:40:23 | Motion End | Yes | [Play] |
| IP CH1 | Alarm | 04/17/2017 07:59:36 | Motion Start | Yes | [Play] |
| CH1 | Alarm | 04/17/2017 08:01:10 | Motion Start | Yes | [Play] |
| CH2 | Alarm | 04/17/2017 08:01:10 | Motion Start | Yes | [Play] |
| CH3 | Alarm | 04/17/2017 08:01:10 | Motion Start | Yes | [Play] |
| CH4 | Alarm | 04/17/2017 08:01:10 | Motion Start | Yes | [Play] |
| CH5 | Alarm | 04/17/2017 08:01:10 | Motion Start | Yes | [Play] |
| CH6 | Alarm | 04/17/2017 08:01:10 | Motion Start | Yes | [Play] |
| CH7 | Alarm | 04/17/2017 08:01:10 | Motion Start | Yes | [Play] |
| CH8 | Alarm | 04/17/2017 08:01:10 | Motion Start | Yes | [Play] |
| CH8 | Alarm | 04/17/2017 08:01:42 | Motion End | No | [Play] |
| CH1 | Alarm | 04/17/2017 08:09:34 | Motion Start | Yes | [Play] |
| CH2 | Alarm | 04/17/2017 08:09:34 | Motion Start | Yes | [Play] |
| CH3 | Alarm | 04/17/2017 08:09:34 | Motion Start | Yes | [Play] |

Log Searching and Backing Up:

1. Click the field next to **Start Date** & **Start Time** to choose the starting date & time for your search from the on-screen calendar.
2. Click the field next to **End Date** & **End Time** to choose the end date & time for your search from the on-screen calendar.
3. Select the type of events you would like to search for from the dropdown next to **Log Type**, or select **All** to see the entire system log for the selected time period.
4. Click **Search**.
5. Browse system log events from your search period:
 - Video events can be played back instantly by clicking in the **Playback** column. Right-click to return to your search results.
 - Use the **◀ < / > ▶** buttons in the bottom-right corner of the menu to move between pages of system log events.
6. Click **Backup** to create a backup of the system log for your search period. Please make sure your flash drive has been connected to the NVR's USB port.
7. The backup drive menu appears. Navigate to the folder you want the backup file to be saved in, then click **OK** to begin.

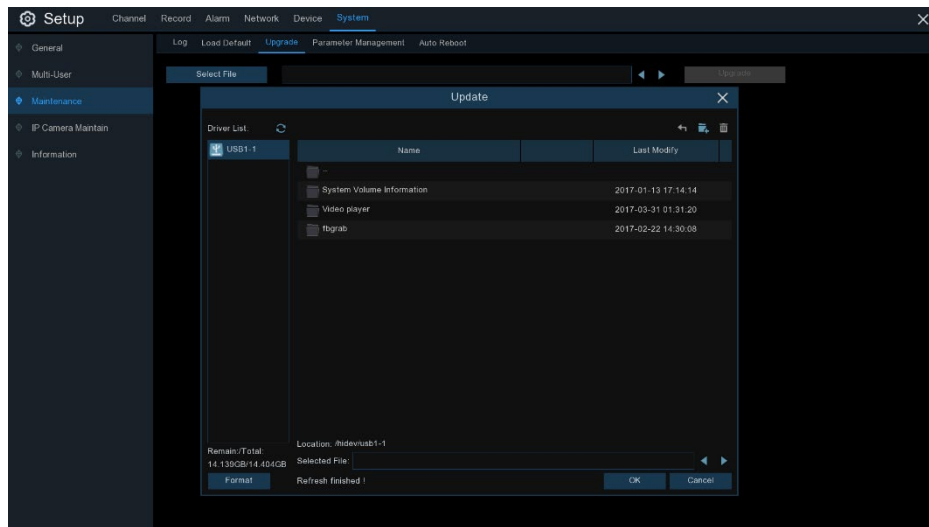
2.7.3.2. Load Default

Reset the NVR settings to its out-of-box state. You can choose to reset all settings at once, or just settings on specific menus. Restoring default settings will not delete recordings and snapshots saved to the hard drive.



Check the items you want restore, or check **Select All** to choose all items. Click **Apply** to load default settings of your chosen items.

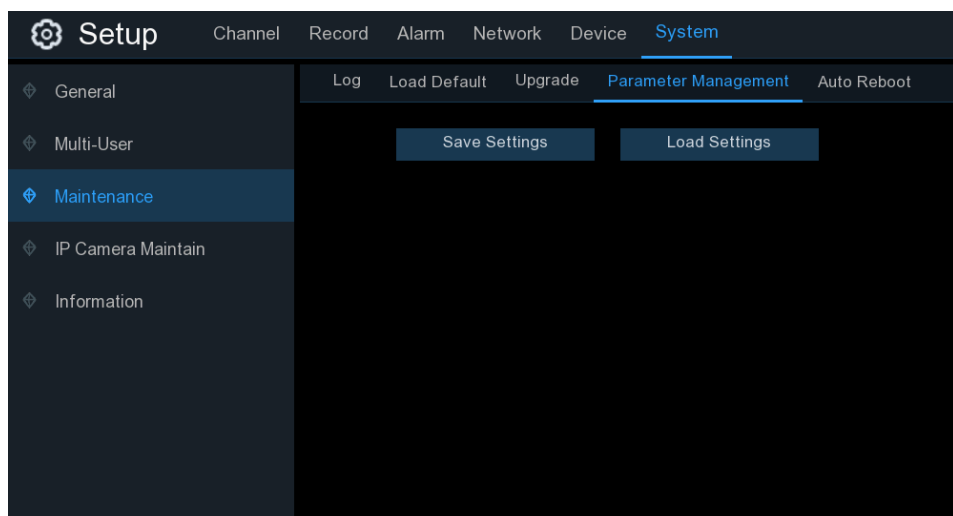
2.7.3.3. Upgrade



1. Copy the firmware file (.sw file) to your USB drive, and insert the USB flash drive into the NVR's USB port.
2. Click Select File button to choose the firmware file in your USB flash drive, then Click **OK**.
3. Click **Upgrade** button to start system upgrade. The system upgrade will last around 5-10 minutes, please do **NOT** power off the NVR or remove the USB from NVR during firmware upgrade.

2.7.3.4. Parameter Management

You can export the main menu settings you have configured to a USB flash drive, or import an exported setting file from USB flash drive to the NVR.

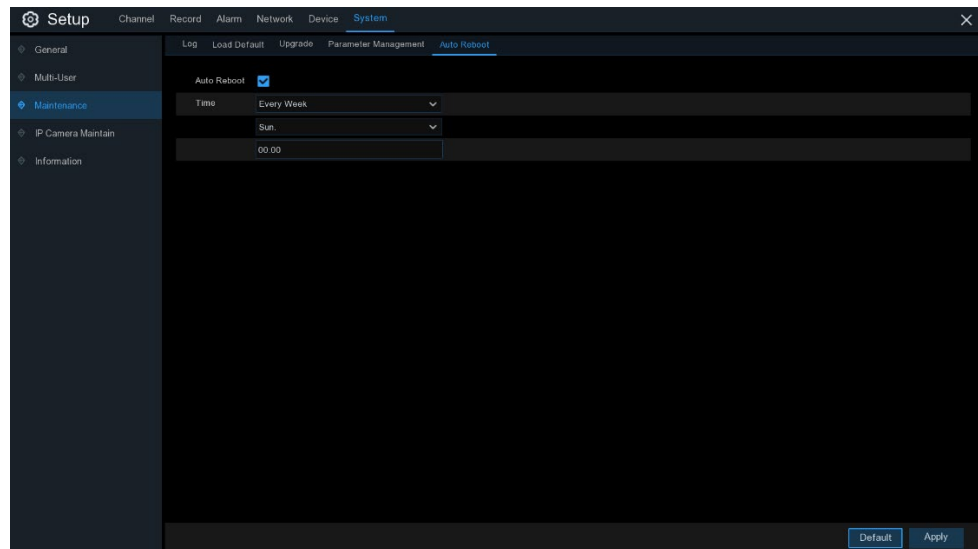


Save Settings: Click to save the NVR current system settings to the USB device. You will be required to input the Admin password to authenticate.

Load Settings: Once you have created a system settings export, you can import the settings on another NVR. Click **Load Settings** button to navigate to the system settings file you want to import from your USB flash driver. You will be required to input the Admin password to authenticate.

2.7.3.5. Auto Reboot

This menu allows the system to auto reboot the NVR regularly. It is recommended to leave this function enabled, as it maintains the operational integrity of your NVR.

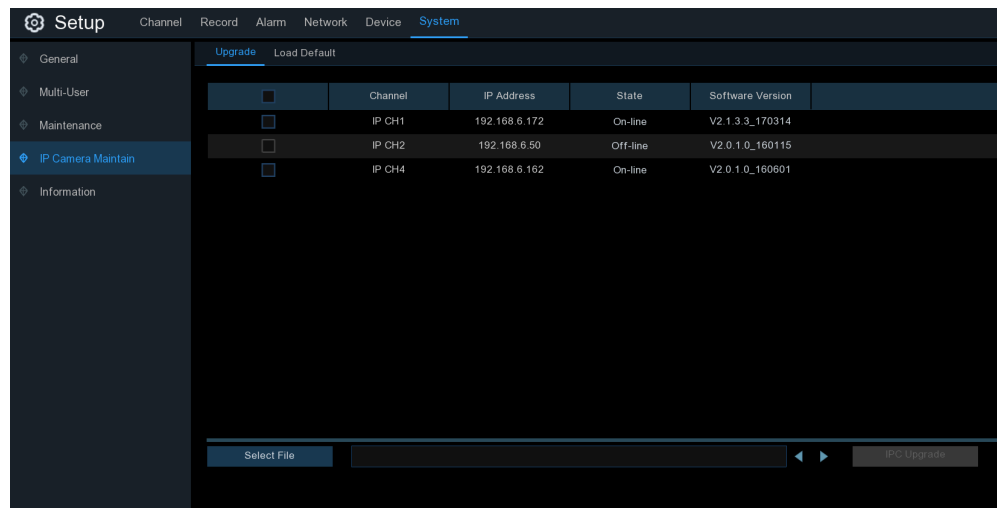


Auto Reboot: Check to enable.

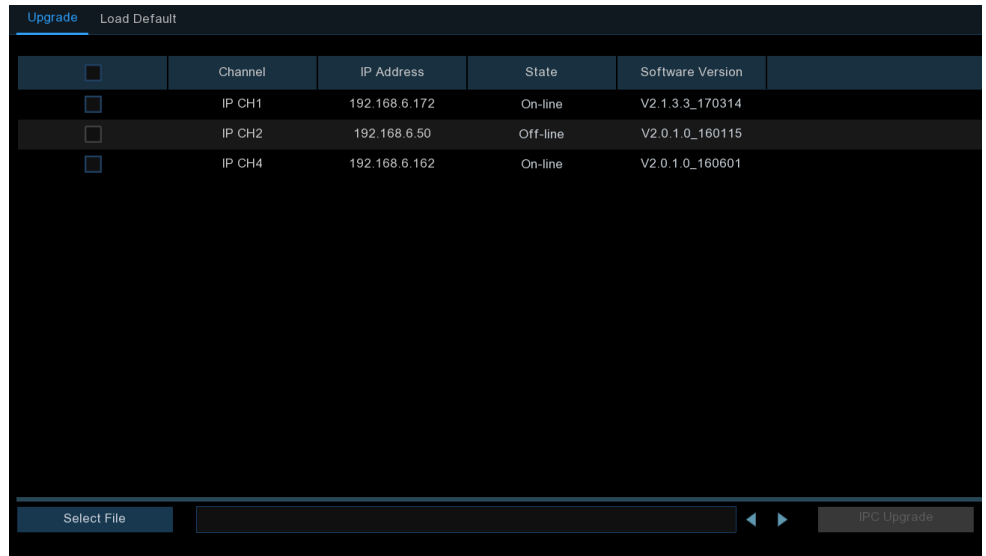
Time: You can set the NVR to reboot by day, week or month.

2.7.4. IP Camera Maintain

This menu allows you to upgrade the IP camera's firmware and restore default settings of IP camera.

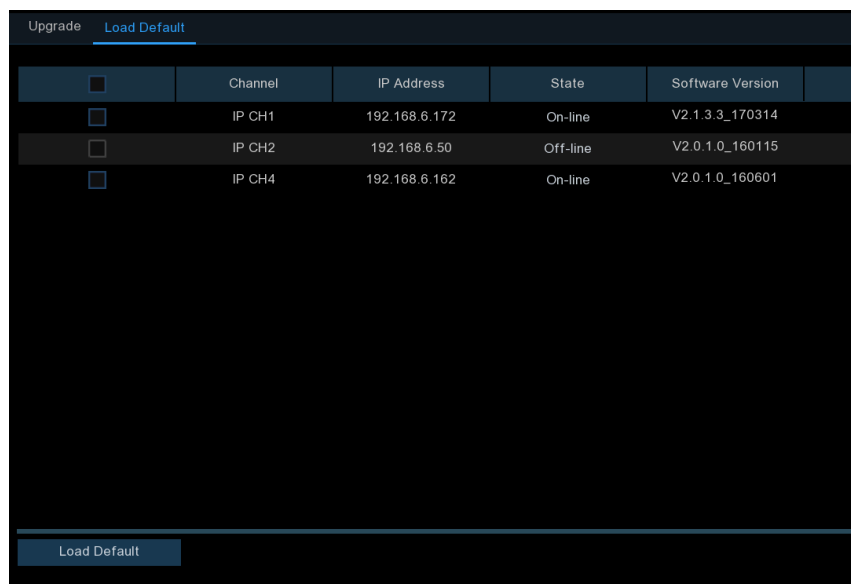


2.7.4.1. Upgrade IP Camera



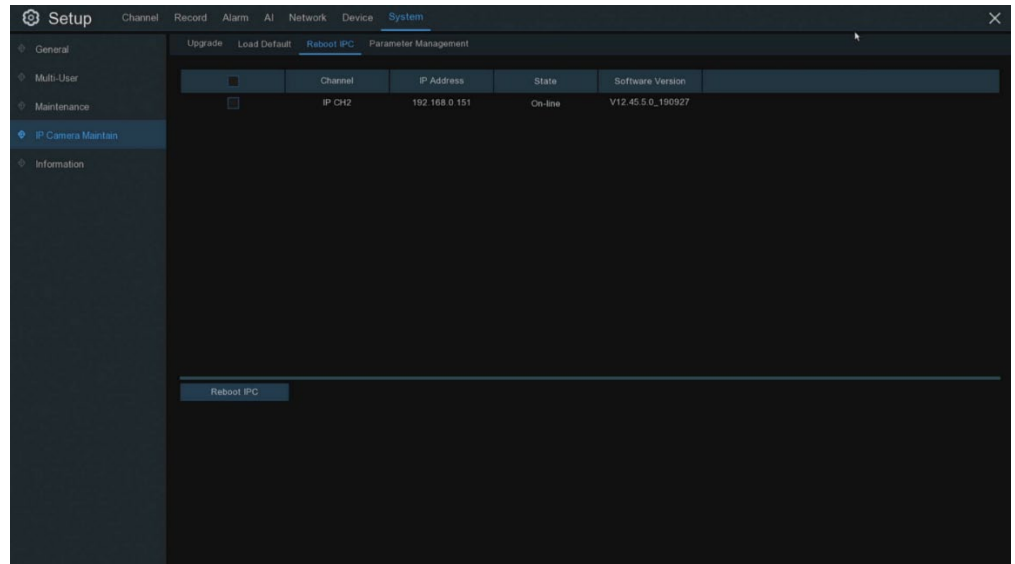
1. Choose one of the IP cameras you want to upgrade firmware.
2. Click **Select File** select the update file from your USB flash drive, then click **OK**.
3. Click IPC Upgrade button to start upgrading. You will be required to input the Admin password to authenticate. Please do **NOT** power off the NVR and IP camera or remove the USB during the upgrading.

2.7.4.2. Load Default Settings for IP Camera



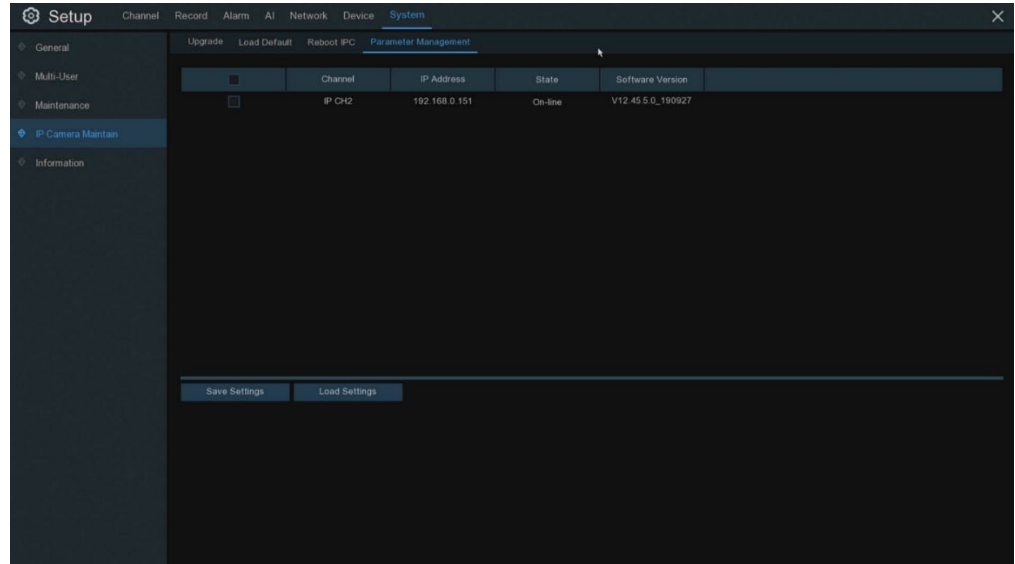
1. Choose the IP cameras you want to restore.
2. Click **Load Default** to restore settings. You will be required to input the Admin password to authenticate.

2.7.4.3. Reboot IPC



Tick IPC and click [Reboot IPC](#) to reboot this IPC

2.7.4.4. Parameter Management



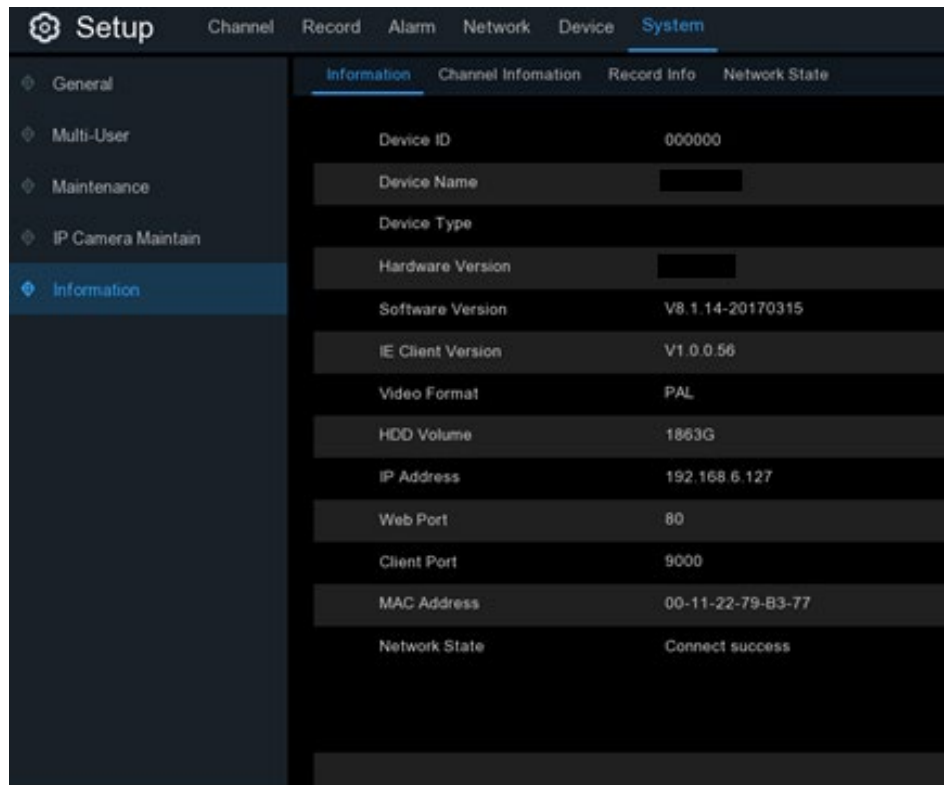
Tick IPC , click [Save Settings](#) to save IPC parameters to USB disk. Tick IPC, click [Load Settings](#) to load settings into the IPC from USB disk.

2.7.5. System Information

This menu allows you to view the system information, channel information, record information & network status.

2.7.5.1. Information

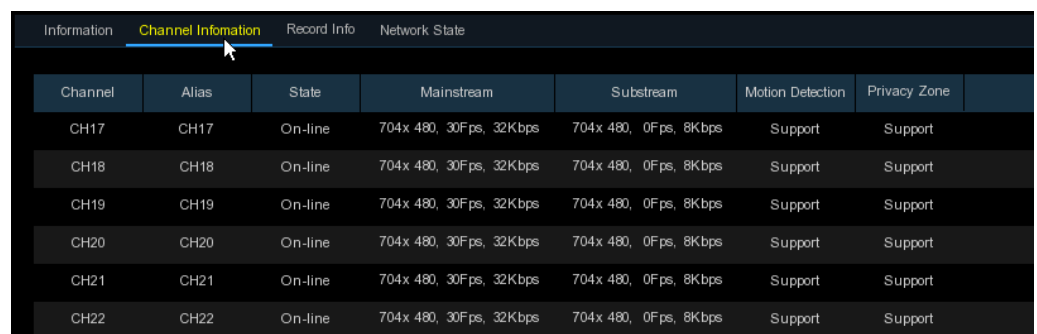
View system information such as device ID, device model name, IP address, MAC address, firmware version and more.



The screenshot shows the 'System' setup page with the 'Information' tab selected. The left sidebar contains a menu with options: General, Multi-User, Maintenance, IP Camera Maintain, and Information (selected). The main content area displays the following system information:

| Parameter | Value |
|-------------------|-------------------|
| Device ID | 000000 |
| Device Name | [REDACTED] |
| Device Type | [REDACTED] |
| Hardware Version | [REDACTED] |
| Software Version | V8.1.14-20170315 |
| IE Client Version | V1.0.0.56 |
| Video Format | PAL |
| HDD Volume | 1863G |
| IP Address | 192.168.6.127 |
| Web Port | 80 |
| Client Port | 9000 |
| MAC Address | 00-11-22-79-B3-77 |
| Network State | Connect success |

2.7.5.2. Channel Information



The screenshot shows the 'Channel Information' tab selected in the setup menu. The table below displays the configuration for each channel:

| Channel | Alias | State | Mainstream | Substream | Motion Detection | Privacy Zone |
|---------|-------|---------|-------------------------|-----------------------|------------------|--------------|
| CH17 | CH17 | On-line | 704x 480, 30Fps, 32Kbps | 704x 480, 0Fps, 8Kbps | Support | Support |
| CH18 | CH18 | On-line | 704x 480, 30Fps, 32Kbps | 704x 480, 0Fps, 8Kbps | Support | Support |
| CH19 | CH19 | On-line | 704x 480, 30Fps, 32Kbps | 704x 480, 0Fps, 8Kbps | Support | Support |
| CH20 | CH20 | On-line | 704x 480, 30Fps, 32Kbps | 704x 480, 0Fps, 8Kbps | Support | Support |
| CH21 | CH21 | On-line | 704x 480, 30Fps, 32Kbps | 704x 480, 0Fps, 8Kbps | Support | Support |
| CH22 | CH22 | On-line | 704x 480, 30Fps, 32Kbps | 704x 480, 0Fps, 8Kbps | Support | Support |

View channel information for each connected camera such as alias, mainstream and substream recording specifications, motion detection status & privacy zone.

2.7.5.3. Record Information

| Channel | Record State | Record Switch | Stream Type | Resolution | FPS | Bitrate |
|---------|--------------|---------------|-------------|------------|-----|---------|
| CH17 | OFF | Enable | | | | |
| CH18 | OFF | Enable | | | | |
| CH19 | OFF | Enable | | | | |

View recording information for each connected camera such as bitrate, stream type, recording resolution and frame rate (FPS).

2.7.5.4. Network State

| Attribute | Value |
|---------------------------|-------------------|
| WLAN | |
| IP Address | 192.168.1.100 |
| Subnet Mask | 255.255.255.0 |
| Gateway | 192.168.1.1 |
| MAC Address | 88-72-29-86-A3-23 |
| DHCP | Enable |
| Internal Interface | |
| Internal Interface | Connected |
| IP Address | 10.10.25.100 |
| Subnet Mask | 255.255.0.0 |
| DNS1 | 192.168.1.1 |
| DNS2 | 8.8.8.8 |
| PPPoE | Disable |
| Port | |
| Web Port | 80 |
| Client Port | 9000 |
| RTSP Port | 554 |
| UPNP | Disable |
| Total Band Width: | 320Mbps |
| Used Band Width: | 5.013Mbps |

View network information.

Total Band Width: It shows the NVR's total input band width for IP cameras.

Used Band Width: It shows the used band width of IP cameras.

Chapter 3. Search, Playback & Backup

The Search function gives you the ability to search for and play previously recorded videos as well as snapshots that are stored on your NVR's hard drive. You have the choice of playing video that matches your recording schedule, manual recordings or motion events only. The Backup function gives you the ability to save important events (both video and snapshots) to a USB flash drive.


3.1. Using Search Function


Click  **Search** button in the Start Menu to enter search section.


















1. **Search Options:** the system provides various search & playback methods: General, Events, Sub-periods, Smart & Pictures
2. **Search Date:** search by a date to play back.
3. **Search Type:** the system provides different search types to narrow your search.
4. **Channel Selection:** to choose the channels you want to search & play.
5. **Video Playback Controls:** to control the video playback.




 Enlarge the video playback to full screen

 Rewind, x2, x4, x8 and x16

 Slow Play, 1/2, 1/4 and 1/8, 1/16 speed

-  Play
-  Pause
-  Play frame by frame. Click once to play a frame of the video
-  Stop
-  Fast Forward, x2, x4, x8 and x16
-  Digital Zoom: Click to zoom in then click-and-drag on a camera image during playback to zoom in on the selected area. Right-click to return to regular playback.
-  Video Clip. Quickly save a section of video to a USB flash drive. View more on [6.1.1.1 Video Clip Backup](#)
-  Save Video Clip.
-  Volume Control: scroll the slider bar to increase or decrease volume.
-  Snapshots: to capture a snapshot image to your USB flash drive. If the video playback is in split-screen view, move the mouse cursor to the channel you want to capture, and then click the  icon to save the snapshot.
-  Add default tag: click to add a mark on the specific playback channel and time.
-  Add customs tag: click to add tag, it will pop out a customs windows, you could rename for the tag.
-  Video snapshot function: you could make snapshot for any area of the playback interface, and you could load it to the USB disk or face recognition block or white list.

6. **Timeline:** Continuous recordings are shown with colored bars to represent different types of recording (legend shown in the bottom-right corner of the display). Use the timeframe options

( 24h  2h  1h  30m) to view a smaller or larger time period.

Different types of recording shown in different colors:

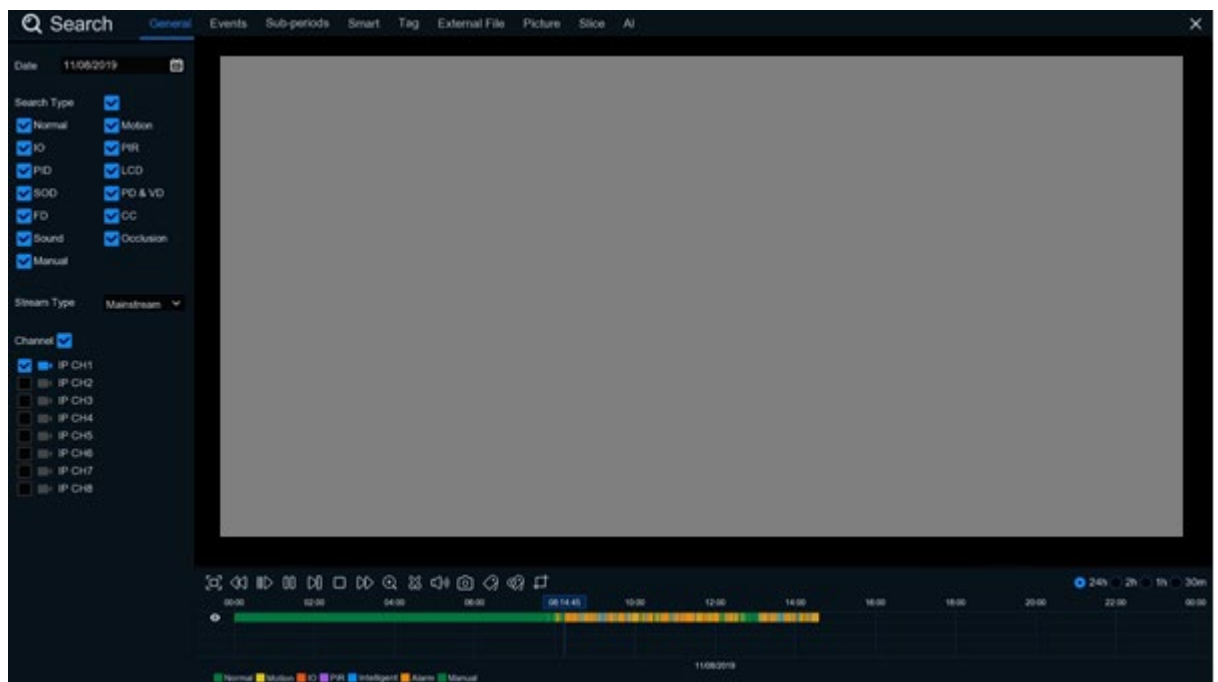







- Continuous Recording in **Green** color;
- Motion Recording in **Yellow** color;
- I/O Recording in **Red** color;
- PIR Recording in **Violet** color;
- Intelligent Recording in **Blue** color;
- Alarm Recording in **Orange** color;
- Manual Recording in **Reseda** color;


7. **Playback Status:** display the video play status.



3.1.1. Search & Play Video in General

This menu gives an option to search & play recording for a selected date.

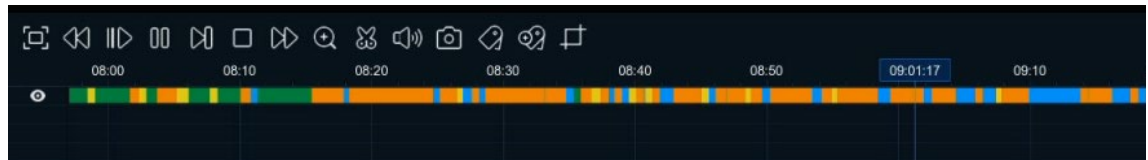






1. Select a date to search for video recording from the calendar.
2. Choose a search type.
3. Check channels you would like to search, or check **Channel** to search all connected channels.
4. The search result will display on the timeline from 00:00 to 24:00.
5. Click  button to start playback.
6. Control the playback with buttons on **Video Playback Controls**.
7. Use the timeframe options (   ) to view a smaller or larger time period.
8. If you want to quickly save a section of video during playing back to a USB flash drive, use the

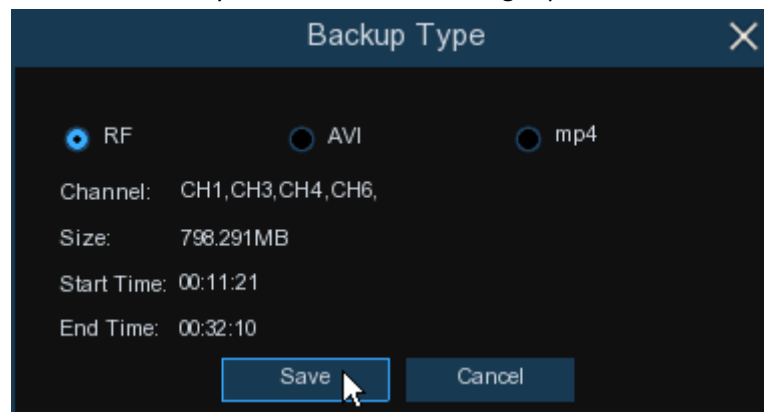
 **Video Clip** backup function.

9. Add new tag function, click  [add new customs tag](#), click  [add default tag](#), then you could make a mark on the specific channel and time. After adding, you could dive to the “mark” you made on the tap interface to playback directly.

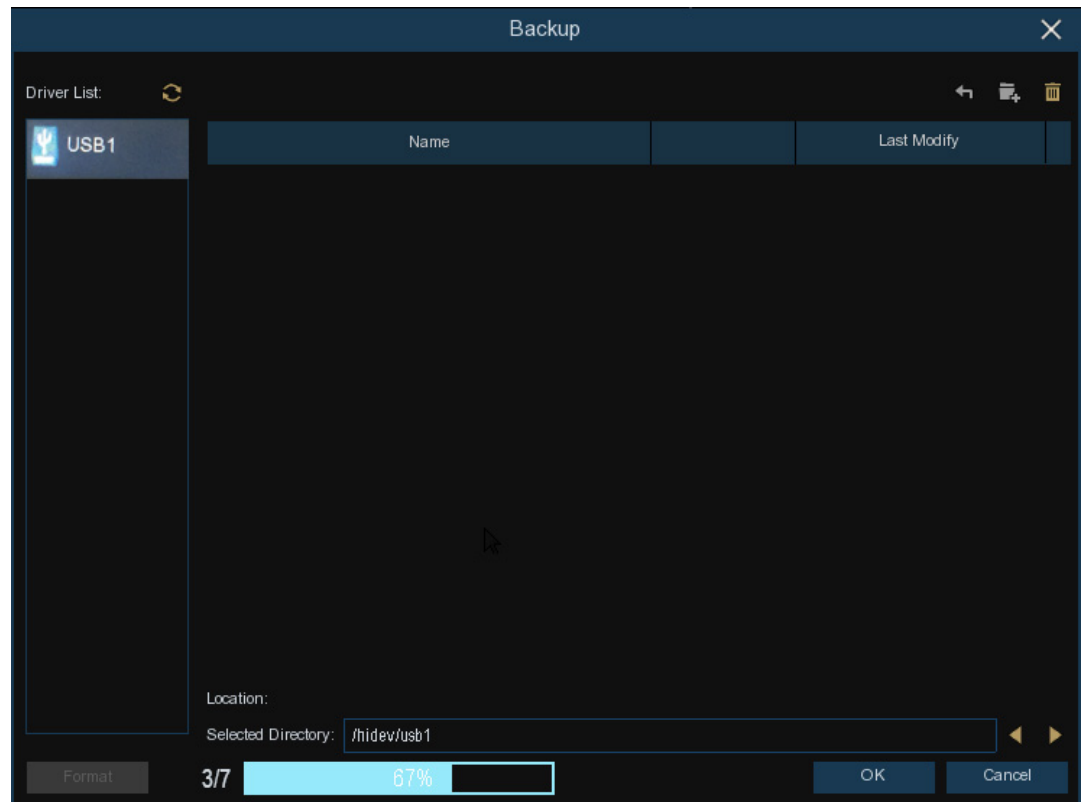
3.1.1.1. Video Clip Backup



1. Insert your USB flash drive to the NVR.
 2. Start a video recording playback.
 3. Click  icon.
 4. Check the channel(s) you want to make a video clip backup.
 5. Move the mouse cursor to the timeline where you want to start the video clip.
 6. Press and hold the left button of your mouse, and drag the cursor to the timeline where you want to end the video clip.
 7. The  icon has been changed to  icon, click  to save the video clip.
 8. Select a file type for your backup files, click [Save](#) button to save the video clips.
- Please make sure your USB driver has enough space to save the video clips.

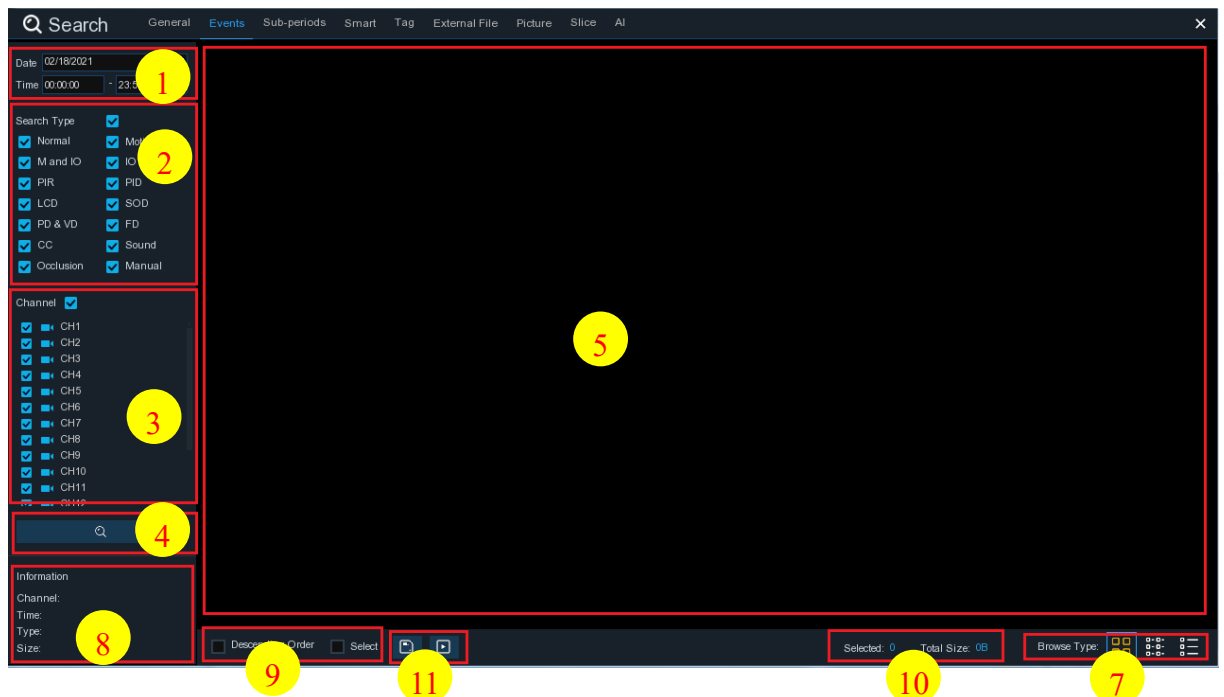


9. The backup drive menu appears. Navigate to the folder you want the backup files to save in.
10. Click [OK](#) to begin. The progress bar at the bottom of the window shows you the progress of the backup.






3.1.2. Event Search, Playback & Backup


Event search lets you view a list of video recordings with the channel, start and end time, and recording type conveniently summarized. You can also quickly back up events to a USB flash drive.

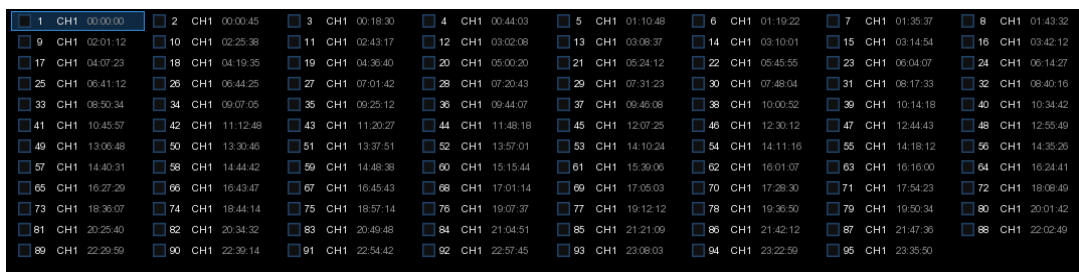


To search, play & back up for events:


1. Choose the date & time you want to search.
2. Check the recording types you want to search, or check **Search Type** to choose all.
3. Choose the channels you want to search, or check **Channel** to choose all channels.
4. Click  icon to start search.
5. Events fitting your search criteria are displayed in list form. You can double click the left button of your mouse upon one of the events to play the video immediately.
6. Click  icons in the bottom-right corner of the menu to browse between pages of events, or input the page you want to browse.
7. You can switch the view of list form in by clicking below icons which is show at the right bottom corner of the screen:

 **Thumbnail view.** You can view the snapshots of the events.

 **List view.** The events will be displayed in list.





A grid of 95 event thumbnails, each showing a small video frame, a channel label (e.g., CH1), and a timestamp.

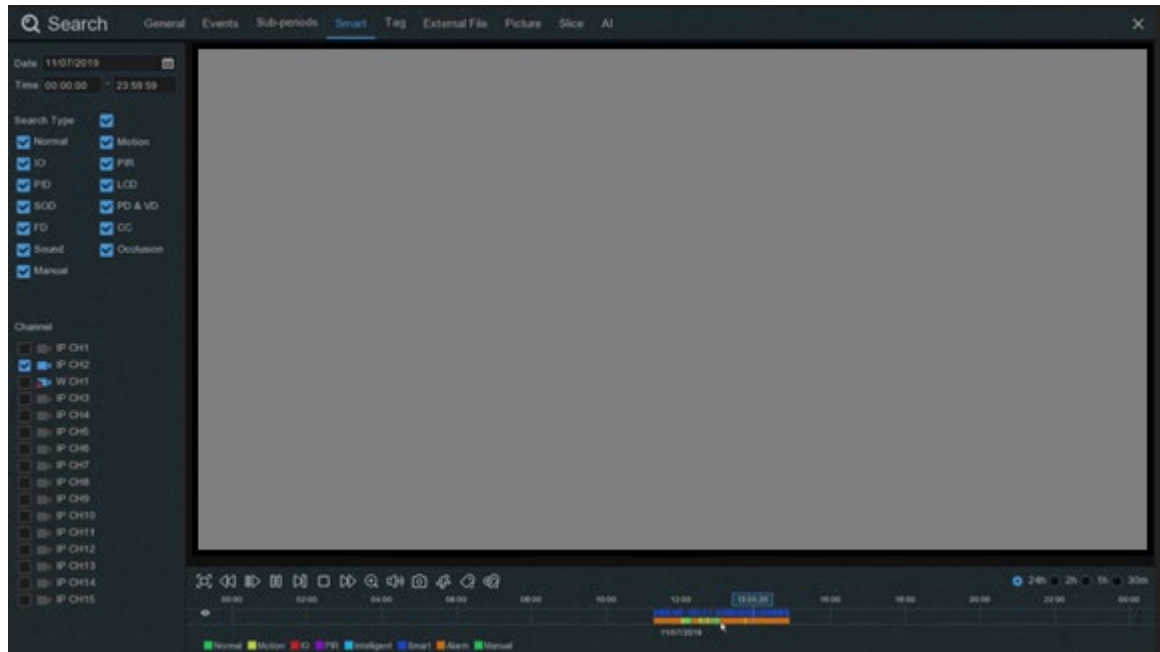
 **Detailed view.** You can view the details of the events.

| | Channel | Type | Date | Start Time | End Time | Size | Playback | Lock |
|--------------------------|---------|------|------------|------------|----------|-------|----------|------|
| <input type="checkbox"/> | CH1 | MINS | 10/23/2017 | 00:00:00 | 00:00:45 | 6MB | | |
| <input type="checkbox"/> | CH1 | MINS | 10/23/2017 | 00:00:45 | 00:18:30 | 150MB | | |
| <input type="checkbox"/> | CH1 | MINS | 10/23/2017 | 00:18:30 | 00:44:03 | 217MB | | |
| <input type="checkbox"/> | CH1 | MINS | 10/23/2017 | 00:44:03 | 01:10:48 | 227MB | | |
| <input type="checkbox"/> | CH1 | MINS | 10/23/2017 | 01:10:48 | 01:19:22 | 72MB | | |
| <input type="checkbox"/> | CH1 | MINS | 10/23/2017 | 01:19:22 | 01:35:37 | 138MB | | |
| <input type="checkbox"/> | CH1 | MINS | 10/23/2017 | 01:35:37 | 01:43:32 | 67MB | | |
| <input type="checkbox"/> | CH1 | MINS | 10/23/2017 | 01:43:32 | 02:01:12 | 150MB | | |
| <input type="checkbox"/> | CH1 | MINS | 10/23/2017 | 02:01:12 | 02:25:38 | 207MB | | |
| <input type="checkbox"/> | CH1 | MINS | 10/23/2017 | 02:25:38 | 02:43:17 | 150MB | | |
| <input type="checkbox"/> | CH1 | MINS | 10/23/2017 | 02:43:17 | 03:02:08 | 160MB | | |
| <input type="checkbox"/> | CH1 | MINS | 10/23/2017 | 03:02:08 | 03:08:37 | 55MB | | |


In the detailed view mode, you can lock the video events to keep events from being overwritten in the hard drive. Click the  icon to lock or click  to unlock the events.

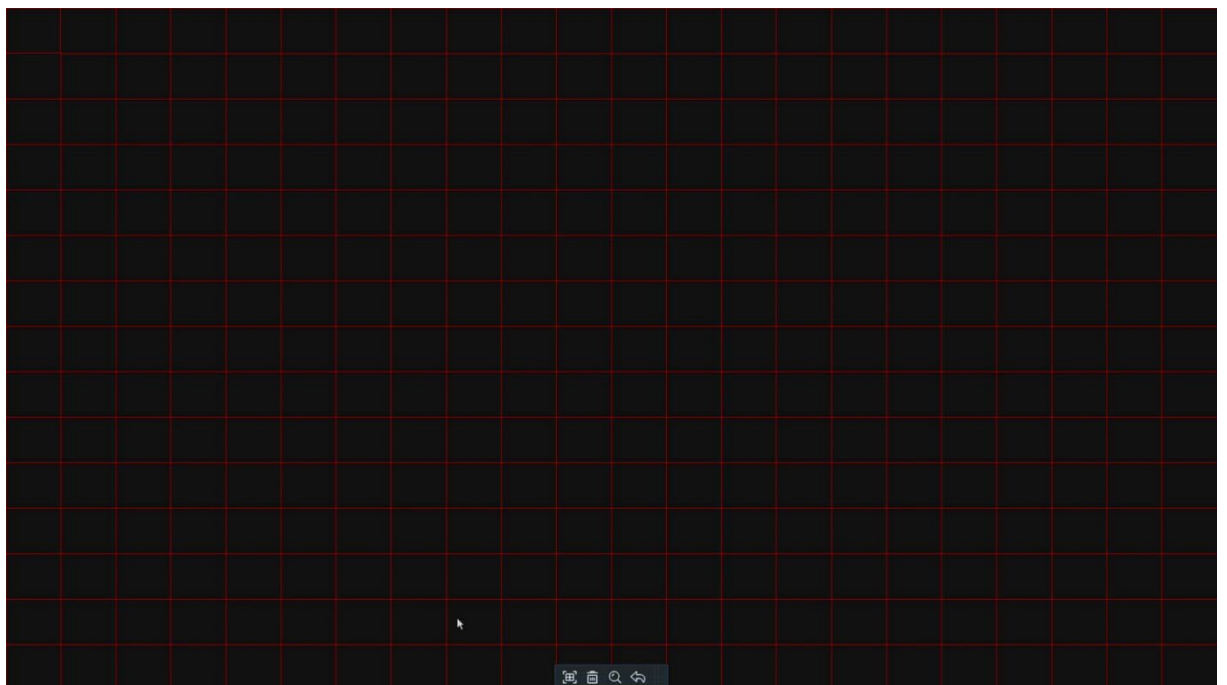
8. When you click the left button of your mouse upon one of the event, system will show the event information on the left bottom corner of the screen.
9. Descending order: descending order for the file list.
Select: Check the box next the number of the event to select files, or check the box next **Select** to select all events in the page.
10. The number of selected files, total size information will be displayed at the right bottom of the screen.
11. After selecting file, you can click  icon to save the video to USB flash drive. Or click  icon into event playback control window to play the video.

3.1.3. Smart





This function could help to recognize whether the motion is triggered by people. If yes, the bar

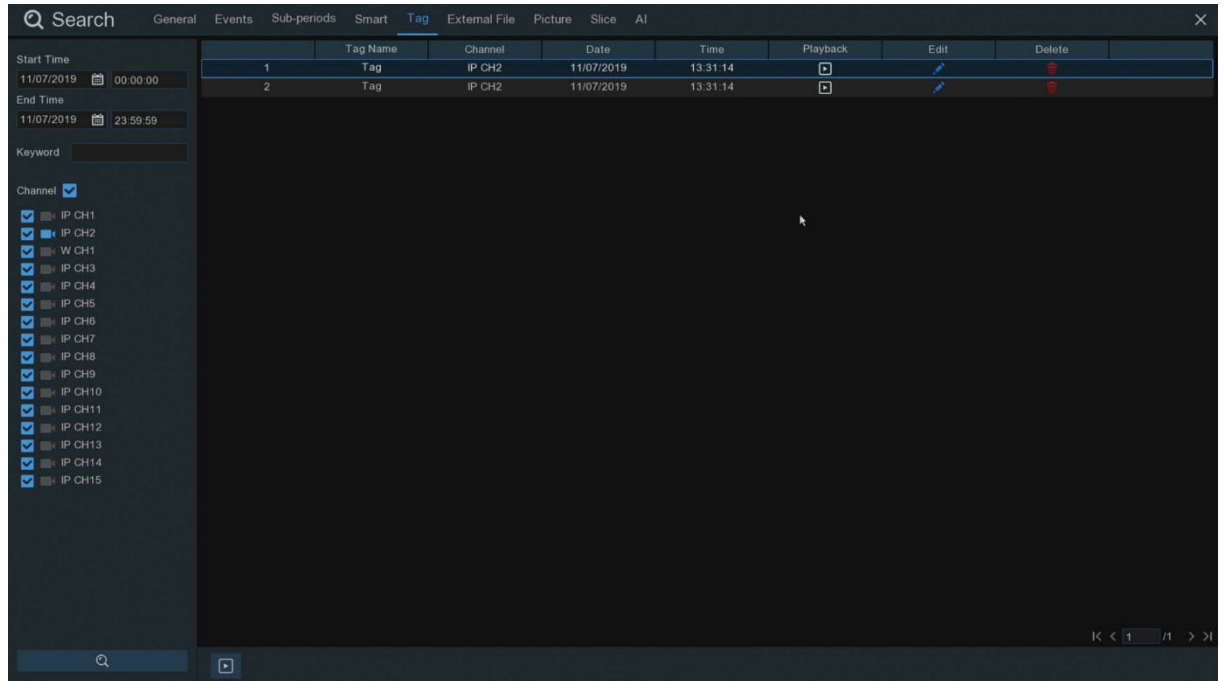
will be blue. Click  to enter smart area setting interface.



Red gridding is the selected area. If somebody triggers motion in this area, it will be searched and the bar will be marked in blue.

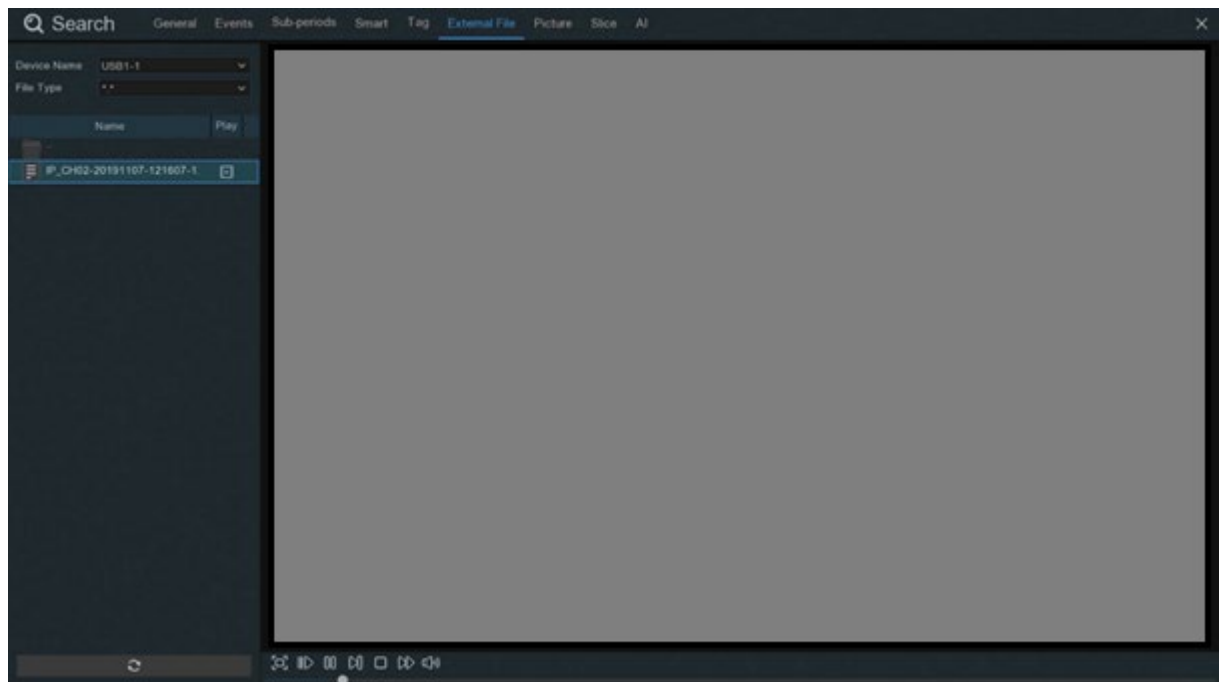
3.1.4. Tag

Click here to check edit, playback or delete all the added tag. Click time and channel, click  to search. Click  to dive to the marked position and playback.



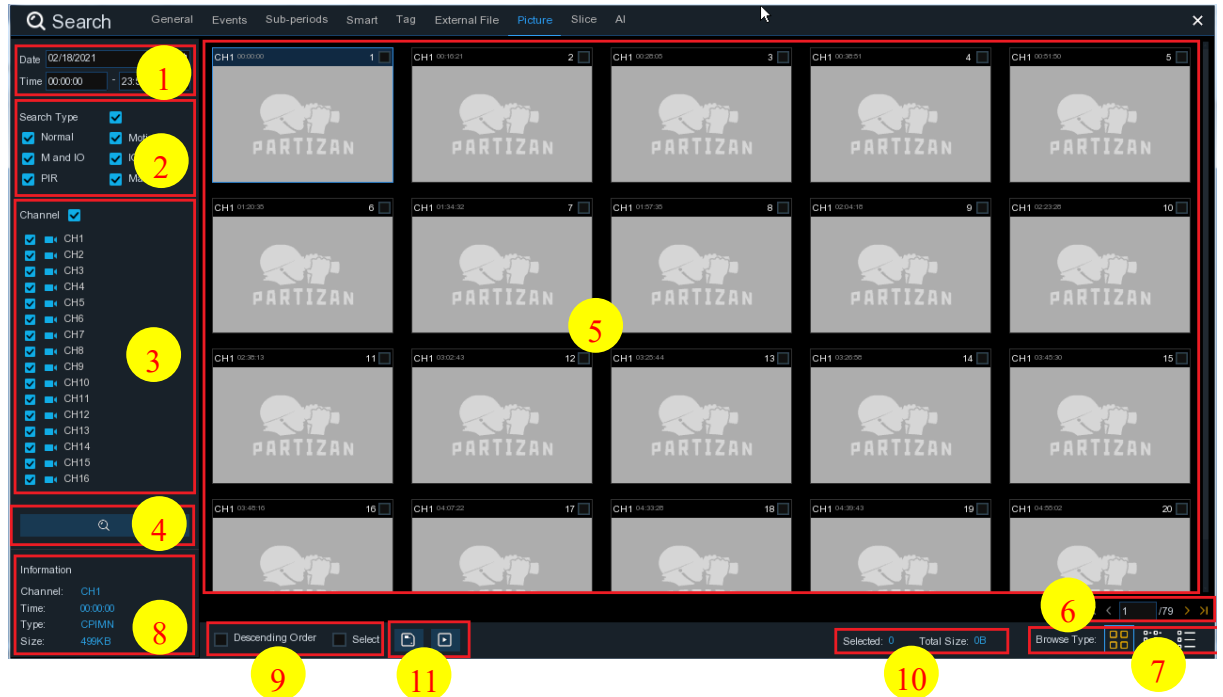
3.1.5. External File

Here you could play video from external video from USB disk, click the file on the left side and start playing.



3.1.6. Picture Search & View

This function can be used to search, play and copy snapshots to a USB flash drive.



To search, play & back up pictures:

1. Choose the date & time you want to search.
2. Check the picture capture types you want to search, or check **Search Type** to choose all.
3. Choose the channels you want to search, or check **Channel** to choose all channels.
4. Click button to start search.
5. Pictures fitting your search criteria are displayed in list form. You can double click one of the pictures to get a larger view.
6. Click icons in the bottom-right corner of the menu to browse between pages of pictures, or input the page you want to browse.
7. You can switch the view of list form in by clicking below icons which is show at the right bottom corner of the screen:

Thumbnails view. You can view the snapshots of the events.

List view. The events will be displayed in list.

| | | | | | | | | | | | | | | | | | | | | |
|----|-----|----------|----|-----|----------|----|-----|----------|----|-----|----------|----|-----|----------|----|-----|----------|----|-----|----------|
| 1 | CH1 | 00:00:00 | 2 | CH1 | 00:00:45 | 3 | CH1 | 00:18:30 | 4 | CH1 | 00:44:03 | 5 | CH1 | 01:10:48 | 6 | CH1 | 01:19:22 | 7 | CH1 | 01:35:37 |
| 9 | CH1 | 02:01:12 | 10 | CH1 | 02:25:38 | 11 | CH1 | 02:43:17 | 12 | CH1 | 03:02:08 | 13 | CH1 | 03:08:37 | 14 | CH1 | 03:10:01 | 15 | CH1 | 03:14:54 |
| 17 | CH1 | 04:07:23 | 18 | CH1 | 04:19:35 | 19 | CH1 | 04:36:40 | 20 | CH1 | 05:00:20 | 21 | CH1 | 05:24:12 | 22 | CH1 | 05:45:55 | 23 | CH1 | 06:04:07 |
| 25 | CH1 | 06:41:12 | 26 | CH1 | 06:44:25 | 27 | CH1 | 07:01:42 | 28 | CH1 | 07:20:43 | 29 | CH1 | 07:31:23 | 30 | CH1 | 07:48:04 | 31 | CH1 | 08:17:33 |
| 33 | CH1 | 08:50:34 | 34 | CH1 | 09:07:05 | 35 | CH1 | 09:25:12 | 36 | CH1 | 09:44:07 | 37 | CH1 | 09:46:08 | 38 | CH1 | 10:00:52 | 39 | CH1 | 10:14:18 |
| 41 | CH1 | 10:45:57 | 42 | CH1 | 11:12:48 | 43 | CH1 | 11:20:27 | 44 | CH1 | 11:48:18 | 45 | CH1 | 12:07:25 | 46 | CH1 | 12:30:12 | 47 | CH1 | 12:44:43 |
| 49 | CH1 | 13:06:48 | 50 | CH1 | 13:30:45 | 51 | CH1 | 13:37:51 | 52 | CH1 | 13:57:01 | 53 | CH1 | 14:10:24 | 54 | CH1 | 14:11:16 | 55 | CH1 | 14:18:12 |
| 57 | CH1 | 14:40:31 | 58 | CH1 | 14:44:42 | 59 | CH1 | 14:48:38 | 60 | CH1 | 15:15:44 | 61 | CH1 | 15:39:06 | 62 | CH1 | 16:01:07 | 63 | CH1 | 16:16:00 |

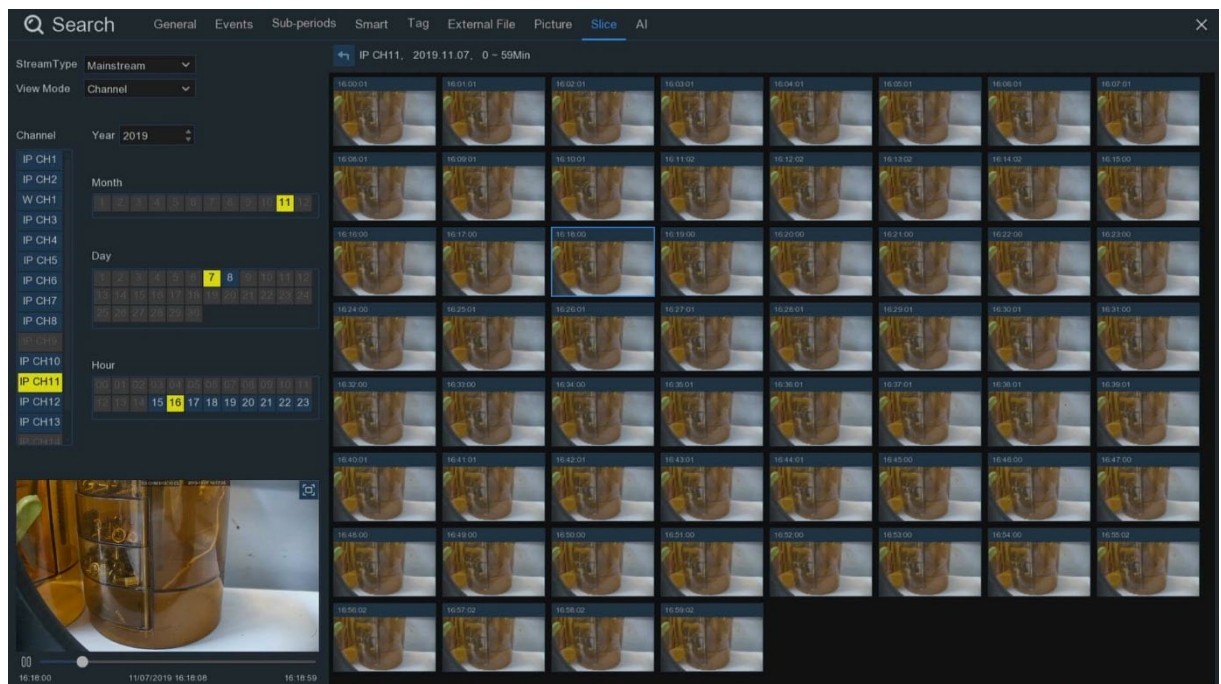
Detailed view. You can view the details of the events.

| | Channel | Type | Date | Time | Size | Playback |
|----------------------------|---------|------|------------|----------|-------|----------|
| <input type="checkbox"/> 1 | CH1 | MIN | 10/24/2017 | 00:00:00 | 160KB | |
| <input type="checkbox"/> 2 | CH1 | MIN | 10/24/2017 | 00:12:01 | 201KB | |
| <input type="checkbox"/> 3 | CH1 | MIN | 10/24/2017 | 00:21:20 | 401KB | |
| <input type="checkbox"/> 4 | CH1 | MIN | 10/24/2017 | 00:24:38 | 111KB | |
| <input type="checkbox"/> 5 | CH1 | MIN | 10/24/2017 | 00:37:25 | 167KB | |
| <input type="checkbox"/> 6 | CH1 | MIN | 10/24/2017 | 00:55:58 | 210KB | |

8. When you click the left button of your mouse upon one of the pictures, system will show the picture information on the left bottom corner of the screen.
9. Check the box next the number of the event to select files, or check the box next **Select** to select all pictures in the page.
10. The number of selected files, total size information will be displayed at the right bottom of the screen.
11. After selecting file, you can click button to save the pictures to USB flash drive. Or click button to go into picture preview control window.

3.1.7. Slice

Slice playback, you could playback the video for each minutes.

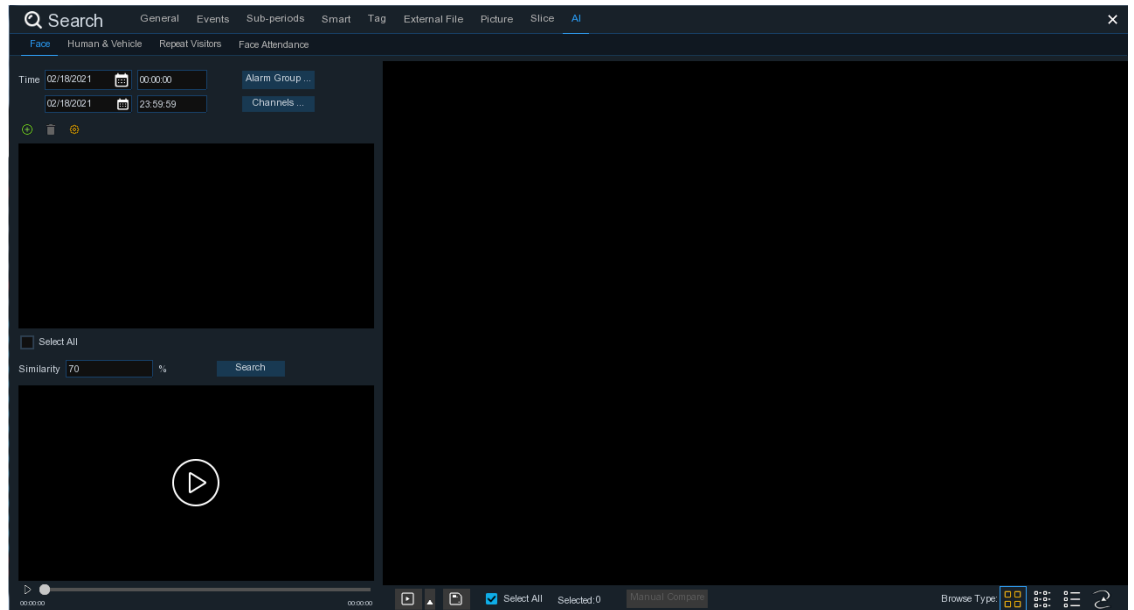





Select stream type, channel, month, day and hour one by one, it will pop out 60 pieces slices video for the selected one hour, each house is 1 minute. Click the left-bottom to playback. Click to normal playback. **View Mode:** if you select **channel**, you could only select channel before searching. If you select **Time**, only time is optional before searching.

3.1.8. AI

3.1.8.1. Face

Select date, time, channel and face management group, then click search, you could search out all the face information in this specific time and group.



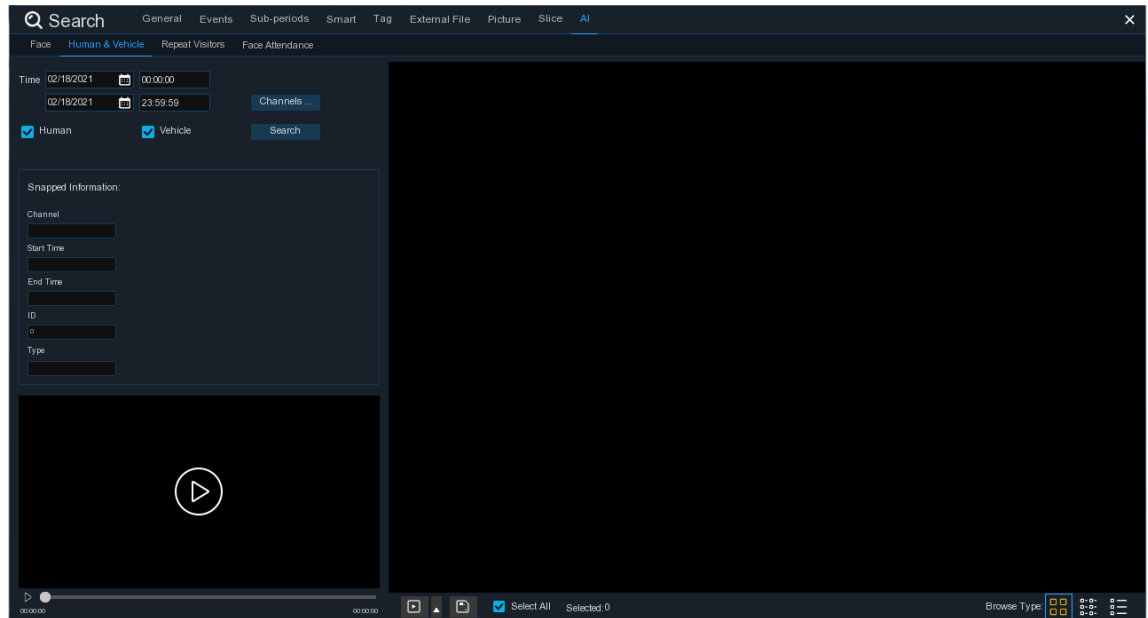
Click  to add searching faces, or right click the mouse and select [Fast Compare](#) to search. Click  to delete photos, click  to dive to AI management interface. Click [Import To](#) import photos into groups. Click [Detail Information](#) to view the detailed face information. Click [Custom Playback](#) to playback when this face is detected. Click



to choose different viewing type.

3.1.8.2. Human & Vehicle

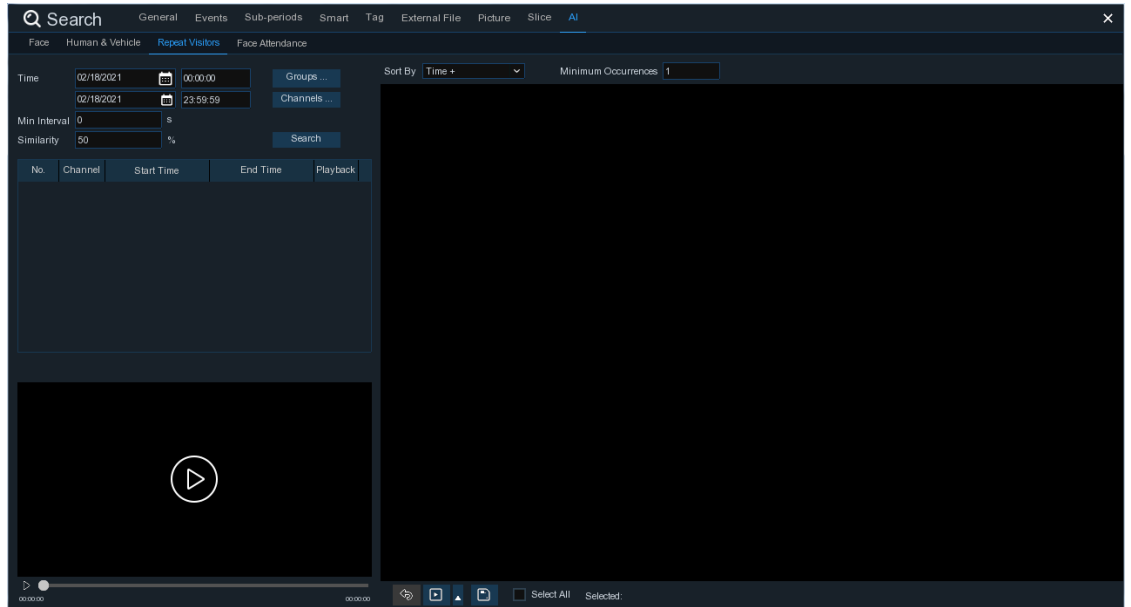
Select date, time, channel and human & vehicle, then click search, you could search out all the human & vehicle information from this specific time and group.



Left click the mouse to view basic information on the left side. Right click the mouse to customs playback and view detailed information. Click the left-bottom corner for simple playback, double click for zoom, click enter to normal playback.

3.1.8.3. Repeat Visitors

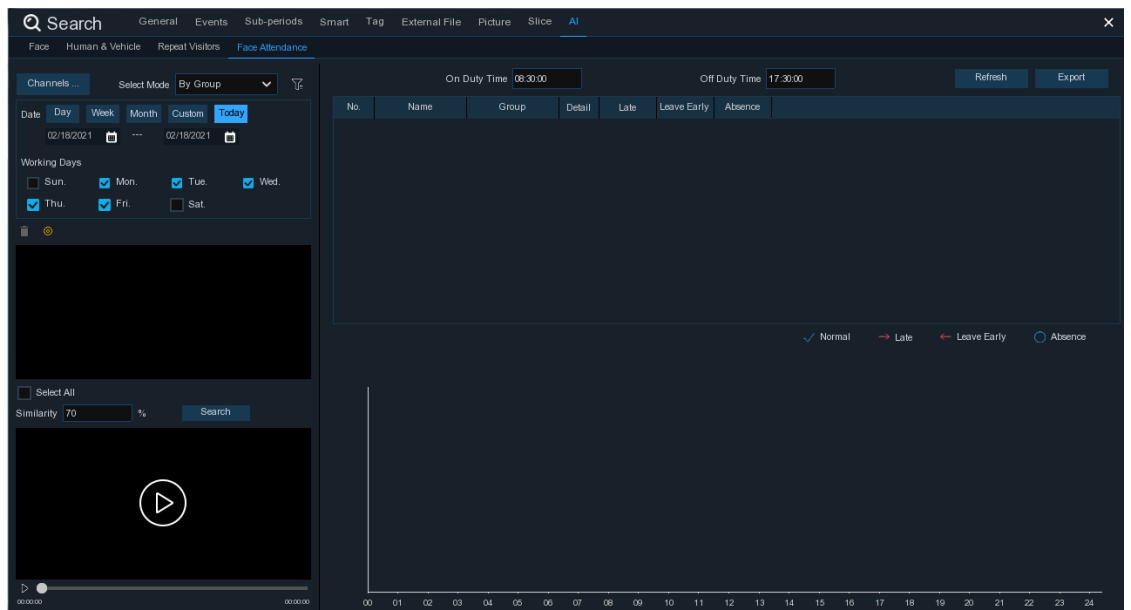
Search and calculate how many times one face appear



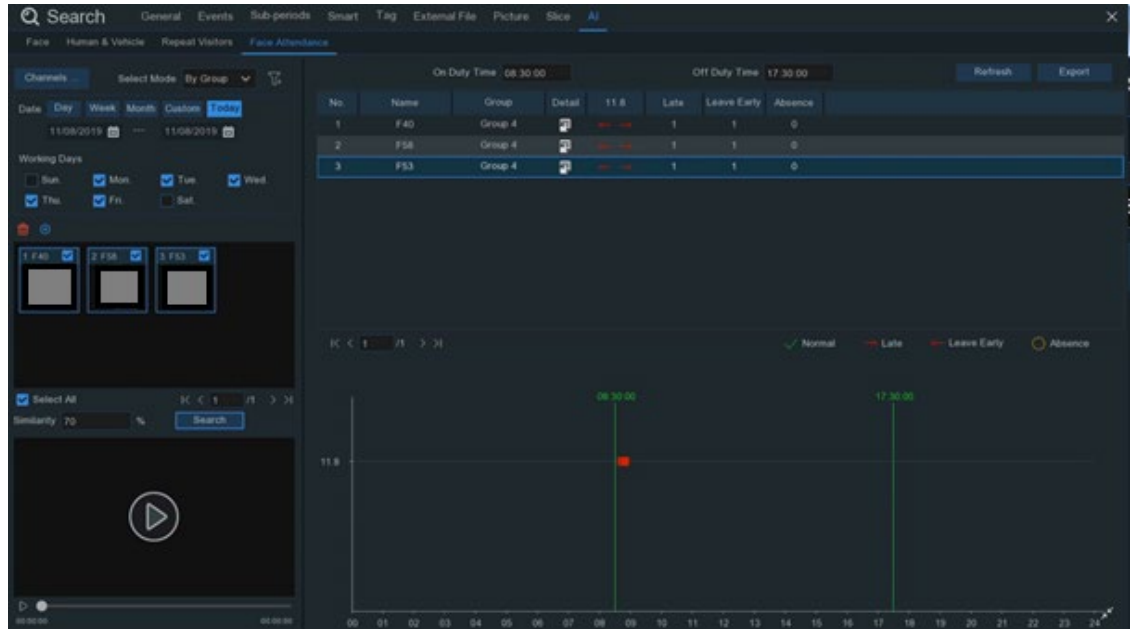
Select date time, and time period, then click search. Left click the mouse to search for result, the left side will show detailed playback and information. Right click the mouse to import faces and view detailed information.


3.1.8.4. Face Attendance


You could check whether this people have appeared during the specific time, and judge if he's late or leave early.



Select channel, date, working days and group, it will show all the face information in this group automatically, then click the face you want to search, click search and get the result.



Click one result, the bottom will show all the detected record. Click  Detail icon, enter detailed information interface.

You could get the detailed attendance information which include the first and the latest spear time. Click  on the left-bottom corner for simple playback.

Technical support:

E-mail: support@partizan.global

Skype: partizan-support

Chat: +42 077 673 78 89 (Viber, Telegram, WhatsApp)



Technical support working time:

<https://partizan.global/support/technical-support>



Partizan software:

<https://apps.partizan.global/>