



DS1098-038C

NVR H.265 WITH HDMI

NVR 4K H.265 SERIES PRO



4 channels Ref. 1098/324P
8 channels Ref. 1098/328P
16 channels Ref. 1098/326P
32 channels Ref. 1098/334

USER MANUAL

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1 GENERAL INFORMATION

Dear Customer,

Thank you for purchasing this product. This quick start guide was written to help you set up the NVR Series PRO URMET S.p.A, Ref. 1098/324P - Ref. 1098/328P - Ref. 1098/326P – Ref. 1098/334 models rapidly and easily. Carefully read this manual which contains information for correct, safe use. Keep this manual at hand so that you can refer to it when needed.

1.1 PRODUCT DESCRIPTION

This Urmet S.p.A. product is a digital video recorder for recording images from multiple cameras on an internal hard disk.

1.1.1 GENERAL FEATURES

- Three available modes (simultaneous recording, playback and transmission on network)
 - H.265+, H.264+, H.265 and H.264 (retro-compatible) video compression with 8MP(4K) max. resolution
 - Integrated real-time operating system
 - Recording with 8MP (4K), 5MP, 3MP, 2MP (1080P), 1.3MP (960P), 1MP (720P) resolution
 - Dual Stream recording (Mainstream and Mainstream + Substream)
 - Customized password and robust password definition to be set mandatory at the first access, pattern definition (graphic sign) menu access, possibility to select the language to be set on the device.
 - New programming algorithms for Intelligent Video Analysis (only if the connected cameras support the intelligent Video Analysis).
 - Video Intelligence Algorithm for Face Recognition (only if the connected cameras support the Face Recognition Function).
 - Supports PIR, Deterrence, sound detection and camera dimming functions if present on the IP camera.
 - Multiple or single recording
 - VGA/ HDMI video output
 - User-friendly menu
 - Multiple operating modes (preview, recording, playback, backup, monitoring via network and via mobile phone)
 - Mainstream, Substream and Mobile Stream (for IP channels) transmission on network
 - Remote control (via browser, via mobile app iUVS pro and via Urmet UVS pro Client Software)
 - Remote control via Urmet iUVS pro mobile app for iOS and Android platforms
 - Configuration using Urmet DDNS ID via Internet Explorer, Mobile and Client Software
 - P2P function available for Urmet UVS pro Client software and Mobile app Urmet iUVS pro.
 - RTSP function
 - Supports zoom in/out and loop function
 - Alarm management
 - PoE SWITCH Auto/Manual mode can be set independently for single PoE port.
 - Possibility to activate EPoE mode independently for each PoE port (EPoE = possibility to manage PoE-connected cameras over extended distances at reduced bitrate).
 - Pop-up window or event bar on LIVE Preview (with playback that can be called up from each event preview).
 - Multiple alarm recording
 - Picture memory function
 - E-mail alarm notification
 - Alarm actions and notifications can be called up directly from the event programming menus.
 - Added time programming for the following event drives: Buzzer, Alarm Out, loading of images/video on FTP and Server Cloud, push notifications sent to the Android/iOS App.
 - IP FILTER function: possibly of setting whitelist and blacklist for single or group IP addresses (network segments).
 - PTZ connection: Association of one or more preset points on an alarm or motion detection event on Speed Dome.
 - Automatic maintenance mode
 - PTZ control via network and via RS-485
 - USB 2.0 port on rear panel for backup and update (USB flash drive or hard disk). 2 USB 3.0 for 1098/334.
 - USB 2.0 port on front panel for mouse operation.
 - Loading and saving NVR configurations by means of USB flash drive
 - Restore Default Password
 - Multilingual OSD
 - Mobile software for the following platforms: iOS (iPhone and iPad), Android (Smartphone and Tablet)
 - Multi-Channel synchronous playback.
 - Sub-Period Playback: see different periods of time of the channel selected on each call of the grid
 - Instant Playback on LIVE: launch the playback of a channel in LIVE preview of the channel itself.
 - Local Monitor Video Output settings from Web Interface.
- Playback of recordings based on several dedicated modes: Events, Subperiods, SMART Search, Files "labelled", External Device Files (ex: files on USB flash drive), display on annual/monthly macro scale, Images only, Face Search (with settable threshold of similarity) and possibility to trace on map the path of faces during playback (face tracking function).
- Automatically recover Downloads in case of network blackout

The main features are summarised in the following table:

Function	Description
Live	Double video output with monitor, VGA virtual output port or HDMI Output; Support URMET UVS Client Software and MP live surveillance and also support zoom in/out, auto sequence and PIP display.
Record	Video compression standard: H.265; adjustable recording quality, resolution and frame rate; multiple recording modes: continuous, programmed, manual, on alarm (if available), motion detection and remote activation.
Capture Images	Captures images or snapshots of individual channels automatically or manually.
Recording storage	Supports high-capacity SATA hard disk and saves recording in real time on hard disk.
Play	Supports playback of files recorded on the NVR with single and multiple channel search.
Backup	Supports NVR backup to USB flash drive, removable disk, recorder and network.
Alarm setting	Supports alarm management from hard disk, from input video signal and from external alarm inputs (on available models).
Operation via network	Supports remote monitoring by authorized users to guarantee system safety.
Operation with mouse	Supports use of mouse for quick menu navigation.
PTZ control	Supports PTZ camera operations via RS-485.

1.2 OPENING THE PACKAGE

Check that the packing and the contents are not visibly damaged. Contact the retailer immediately if parts are either missing or damaged. Do not attempt to use the device in this case. Send the product back in its original packing if it is damaged.

1.2.1 CONTENTS OF THE PACKAGE

- NVR
- Power supply unit
 - INPUT ⇒ 100-240 Vac 50/60Hz
 - OUTPUT ⇒ 48Vcc 3.75A for Ref. **1098/326P**
 - ⇒ 48Vcc 2A for Ref. **1098/328P**
 - ⇒ 48Vcc 1.2A for Ref. **1098/324P**
 - ⇒ 12Vcc 5A for Ref. **1098/334**
- Shuko plug
- Italian plug
- One mouse
- LAN CAT.5 network cable
- Quick Guide

※IMPORTANT NOTE:

Accessories may be changed without prior notice.

1.3 WARNINGS

1.3.1 POWER

- Check mains rating before plugging the power unit in.
- Do not pull the cord to unplug the device.
- Switch the device off before unplugging power unit. This operation must not be performed when the NVR Boost is recording or playing or when the configuration menu is open. Stop recordings and playback in progress before disconnecting power from the device to prevent damaging the hard disk beyond repair.

1.3.2 SAFETY PRECAUTIONS

- Keep the device away from rain and humidity to prevent the risk of fire and electrocution. Do not introduce material (solid or liquid) inside. If this should accidentally occur, disconnect the device from the mains and have it inspected by qualified personnel.
- Never open the device. In all cases, contact a qualified personnel or authorized service centre for repairs.
- Keep the device away from children to prevent accidental damage.
- Do not touch the device with wet hands to prevent electrical shock or mechanical damage.
- Do not use the device if it should fall or the external casing is damaged. Risk of electrocution if the device is used in such conditions. Contact the retailer or authorized installer.

1.3.3 INSTALLATION PRECAUTIONS

- To prevent overheating the device, arrange it in a position allowing the flow of air through the slots in the casing. Ensure at least 5 cm of free space when installing inside a rack. For the same reason, do not install sources of heat, such as radiators or hot air ducts. Keep away from direct sunlight. Do not install in areas subject to excessive dust, mechanical vibrations or shocks.
- Do not arrange this device on an unstable surface, such as a tottering or slanted table. The device could fall causing injury or mechanical failures.
- Do not install the device in a place where it could be exposed to humidity or water. Do not direct a jet of water onto the device: risk of fire, electrocution or mechanical failure.
- Stop using the device if water or other material should penetrate inside: risk of fire and electrocution. Contact the retailer or authorized installer.
- Do not place heavy or heat generating objects on top of the device: this could damage the casing and/or increase internal temperature causing faults.
- Do not cover the device with a cloth while it is running to prevent deforming the external casing and overheating the internal parts: risk of fire, electrocution and mechanical failure.
- Keep magnets and magnetised objects away from the device to prevent faults.
- Do not use the device in presence of smoke, vapour, humidity, dust or intense vibrations.
- Wait for a while before operating a device immediately after transporting it from a cold place to a warm place and vice versa. Wait on average for three hours: this will allow the device to adapt to the new ambient (temperature, humidity, etc.).

1.3.4 CLEANING THE DEVICE

- Rub delicately with a dry cloth to remove dust and dirt.
- Dip the cloth in neutral detergent if dirt cannot be removed with a dry cloth alone.
- Do not use volatile liquids (such a petrol, alcohol, solvents, etc.) or chemically treated clothes to clean the device to prevent deformation, deterioration or scratches to the paint finish.

1.3.5 HARD DISK

- The hard disk installed in this device is sensitive to shocks, differences in temperature and vibrations. Failure to respect these precautions can compromise correct operation of the device and cause loss of data stored on the hard disk.
- If repairs are required, it is advisable to backup all important data before taking the device to the service centre. Urmet S.p.A. is not liable for loss of stored data.
- The addition of a hard disk must be performed by qualified technical personnel or by contacting the technical assistance service.

1.3.6 IMAGE RECORDING

- This device was designed to record images, not as a burglar alarm. Please note that URMET S.p.A. is not liable for loss of stored data consequent to loss or damage caused by incorrect observation installation, use, improper use or malfunctioning of the device.
- Test recording before using the device to make sure that is working correctly. Please note that Urmet S.p.A. is not liable for loss of stored data consequent to loss or damage caused by incorrect installation, use, improper use or malfunctioning of the device.
- This device contains precision electronic components. Protect the device from shocks to ensure correct recording of images.

1.3.7 PRIVACY AND COPYRIGHT

- The digital video recorder Series PRO Ref. 1098/324P - Ref. 1098/328P - Ref. 1098/326P – Ref. 1098/334 is a device for CCTV systems. Recording of images is subject to the laws in force in your country. Recording of images protected by copyright is forbidden.

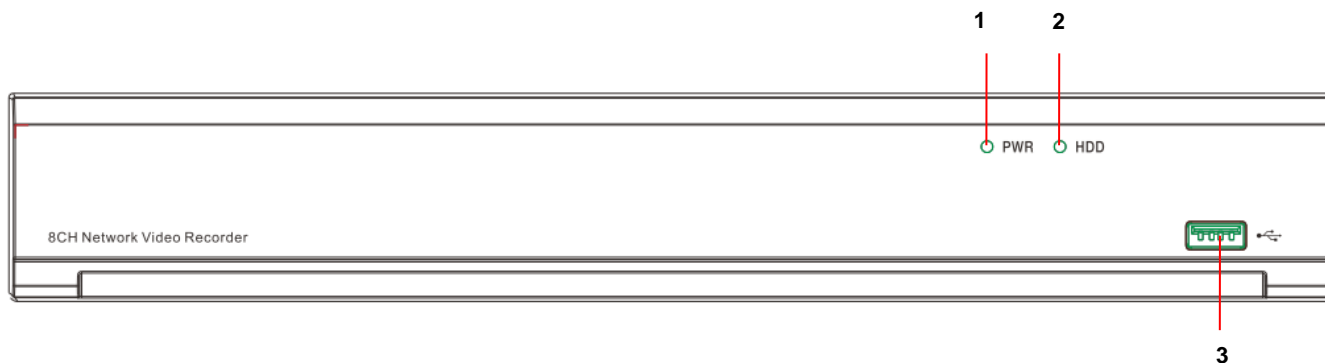
- Product users shall be responsible for checking and respecting all local rules and regulations concerning monitoring and recording video signals. The manufacturer SHALL NOT BE LIABLE for use of this product not in compliance with the laws in force. For more information see the website <http://www.garanteprivacy.it>


2 DESCRIPTION OF THE PARTS

2.1 FRONT PANEL

NVR stands for Network Video Recorder Equipment.

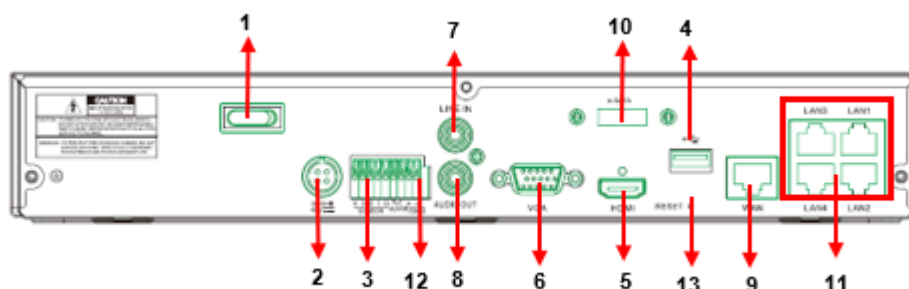
2.1.1 FRONT PANEL NVR REF. 1098/324P, 1098/328P, 1098/326P, 1098/334.



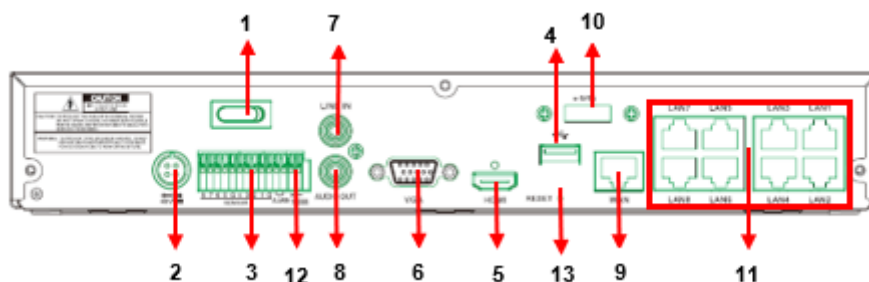
Number	Writing or indicator	Symbol	Function and description
1	Power indicator	PWR	The green LED on means that the NVR is powered correctly.
2	Hard disk indicator	HDD	The red LED blinking means that the user is reading or writing on the hard disk. The red LED on fixed means that the hard disk is not working correctly, not formatted or does not contain recorded files.
3	USB		USB port

2.2 REAR PANEL

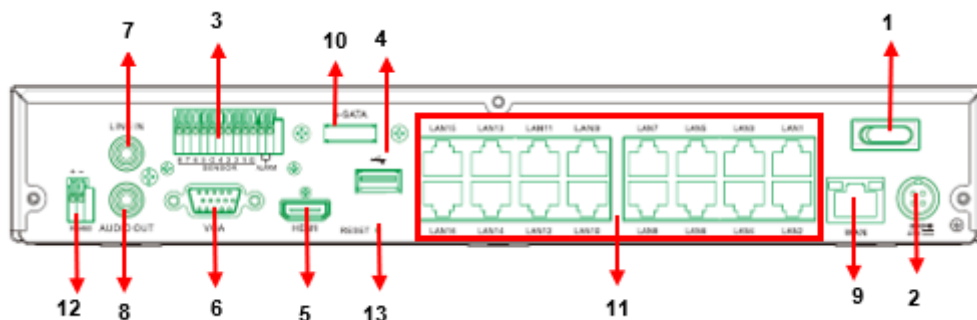
2.2.1 REAR PANEL NVR REF. 1098/324P



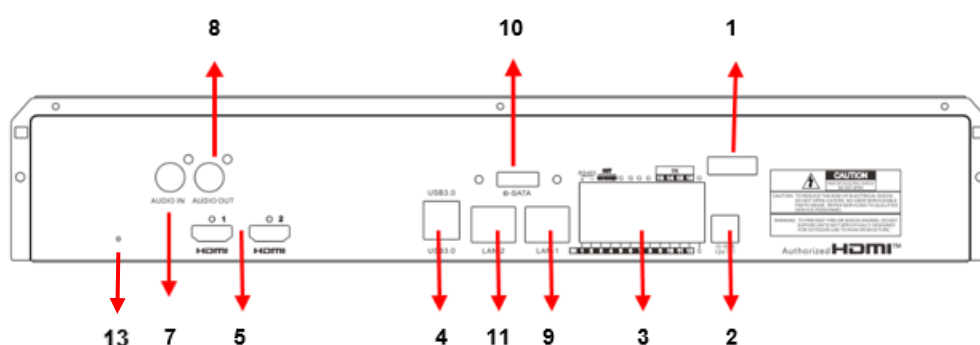
2.2.2 REAR PANEL NVR REF.1098/328P



2.2.3 REAR PANEL NVR REF. 1098/326P

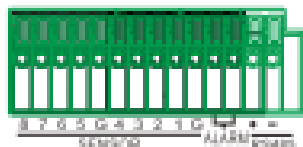


2.2.4 REAR PANEL NVR REF. 1098/334



Number	Physical port	Connection method
1	Power switch	Power on and off
2	Power connector	Power connector
3	Sensor/Alarm	Alarm or for alarm device connector
4	USB 2.0 port	USB device connector, e.g. USB mouse (2 USB 3.0 for 1098/334)
5	HDMI port	High-definition HDMI port (
6	VGA port	VGA monitor connector, e.g. PC monitor
7	Audio input	Audio signal input, RCA interface
8	Audio output	Audio signal output, RCA interface
9	WAN port	Router network input interface/IP camera connection
10	eSATA port	eSATA port for backup
11	PoE LAN ports	RJ45 port for the network and power connection of cameras (<u>Non-PoE</u> LAN port for the 1098/334)
12	RS485 port	RS485 connection
13	RESET button	Press: 10s for total reset


2.2.5 SENSOR/ALARM FUNCTIONS



- **Alarm input:** Connect signal [-] of the sensor to pin G (GND) and the signal [+] to the input of channel 1...16 as alarm device.
- **Alarm output:** Connect to the two ports marked with "ALARM OUT"

2.3 OPERATION WITH MOUSE

The mouse must be used to operate the system.

TYPE	Function
Left click	In locked menu mode, open the pop-up menu and click on any submenu to open the login window; in unlocked menu mode, open the pop-up menu and left-click to open any submenu directly.
	After having opened the main menu, left-click to open any submenu; in [Detailed file] mode, left-click to play the recording file.
	Change the check box state and the motion detection area.
	Click on the combo box to open the drop-down menu; left-click to stop timed view when active.
	Left-click to adjust the colour control bar and the volume control bar.
	Click on the combo box to access the drop-down menu.
	Left-click to select the values in the specific boxes. This activates the drop-down menu for support to enter Chinese characters, special symbols, numbers and letters to be used instead of [Enter- 
Right click	In live mode, right-click to view the pop-up menu.
	In main menu or submenu mode, right-click to close the current menu.
Double left-click	In live or playback mode, double-click to display the image in full screen mode.
Move the mouse	This selects the menu item
Drag the mouse	In motion detection mode, drag the mouse to select the motion detection area; in [Color set] mode, drag the mouse to adjust the colour and volume bar.

2.4 IP CAMERA AND MONITOR CONNECTION

Connect the IP cameras to the NVR using the network connections and connect the VGA port and/or the HDMI output port to the monitor (see paragraph 2.2 Rear panel).

2.5 POWER CONNECTION

Use the power supply unit provided with the NVR only.

After switching on, check that the video output connections are correct and that the audio device is connected via the RCA cable.

3 OSD NVR MENU SETTINGS

After having plugged in the NVR, the system will run the initialisation procedures during which the following image will appear:



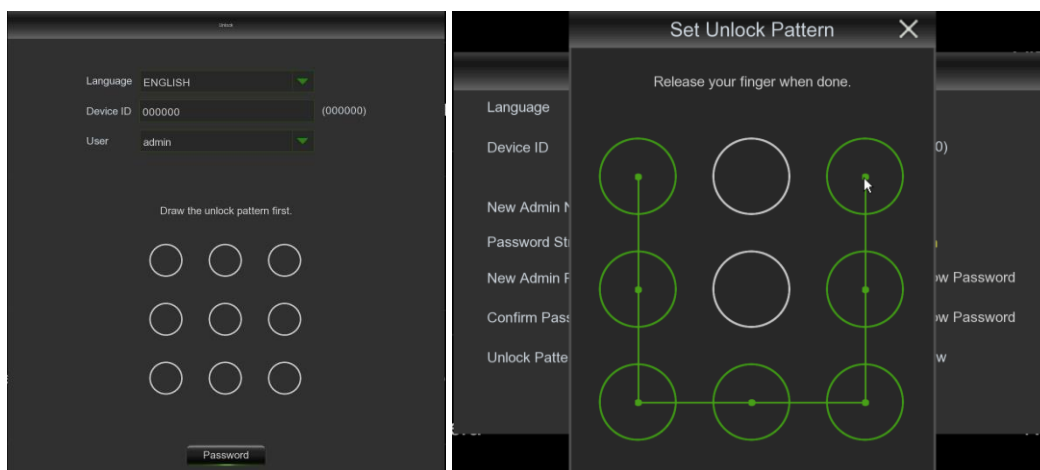
At the end of the boot-up, the NVR will switch to Live view.

3.1 FIRST NVR LOGIN

For the first time when you run the NVR, you must be required to set your own password immediately in order to protect your privacy. Please be sure to record your username and password and save them in a secure place.

This is a screenshot of the initial NVR configuration screen. It has a dark background with white text. The fields include: Language (set to ENGLISH), Device ID (000000), New Admin Name (admin), Password Strength (Medium), New Admin Password (masked with dots), Confirm Password (masked with dots), and Unlock Pattern Enable (set to Enable). There are 'Show Password' buttons for the password fields and a 'Draw' button for the unlock pattern. An 'Apply' button is at the bottom.

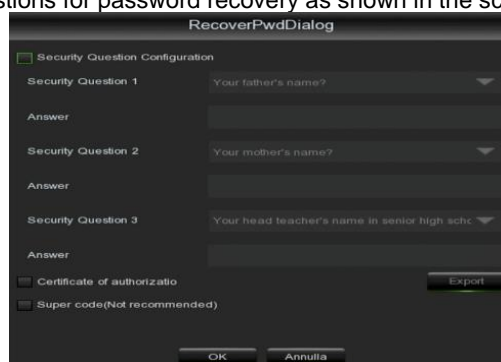
- **Language:** Select an OSD language
- **Device ID:** Input the device ID in the brackets. Default ID: 000000.
- **New Admin Name:** Enter the name of your administrator.
- **Password Strength:** This shows how safe the edited password is.
- **New Admin Password:** Enter your password. The password can be a combination of 8 characters.
- **Confirm Password:** Enter your own password again.
- **Pattern:** If you enable this function and store and confirm a drawn pattern, each time you draw a pattern in order to login into HVR system.



Click on **Apply** to confirm your settings and goes to the login interface. Enter your user name and password to Login the NVR system.

NOTE: If you forget your password, you can reset it via the hole (RESET) located at the rear of the NVR. Pressing it should last 10 seconds after which there is an audible warning (3 beeps) and the device restarts. This operation will also reset the device to factory settings.

It is also possible to set security questions for password recovery as shown in the screenshot below:



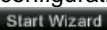


The screenshot shows a window titled "RecoverPwdDialog" with a "Security Question Configuration" section. It contains three questions with dropdown menus and text input fields for answers. The questions are: "Security Question 1" (Your father's name?), "Security Question 2" (Your mother's name?), and "Security Question 3" (Your head teacher's name in senior high schc). Below the questions are checkboxes for "Certificate of authorization" and "Super code(Not recommended)". There are "OK", "Annulla", and "Export" buttons at the bottom.

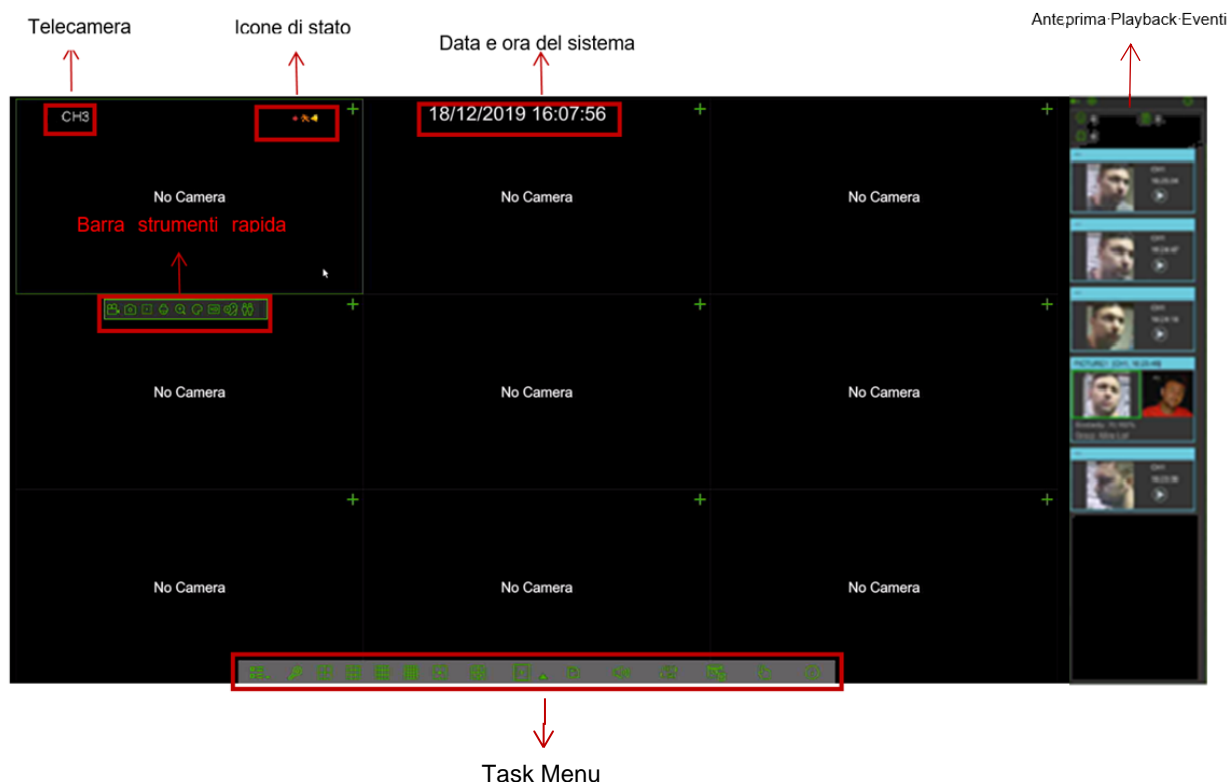
3.2 WIZARD MENU

After the login, the NVR will propose the Wizard menu, a simplified and guided configuration of the NVR's main parameters.



Pressing on  in the top right-hand corner, the Wizard interface will be closed and the main menu, complete with all configurations, can be accessed via the **setup** icon  on the left-hand side of the taskbar. Pressing on **Start Wizard**  instead, the NVR will propose in succession a whole series of screens for the basic configuration of the equipment. Pages relating to network parameters, date/time, IP channel search and addition, installed HDDs, video output resolution, P2P remote connection, and summary of entered data will be displayed.

3.3 LIVE INTERFACE AND POP-UP MENU













Camera title

To display the camera title:

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.
- PIR**  This icon appears when the camera has detected PIR event.
-  This icon appears when the camera has detected intelligent video analysis.
-  The icon indicates that the external I/O alarm device is triggered.
-  This icon indicates that the hard disk (HDD) is in error to work
-  This icon indicates the hard disk (HDD) is not formatted.
-  This icon indicates the hard disk (HDD) is full.
-  This icon indicates the hard disk (HDD) is read-only.
-  This icon indicates that the hard disk drive (HDD) was not found.

Preview Playback events: This displays a pop-up window or event bar on the LIVE Preview (with playback which can be called from each event preview, video intelligence and alarm, detected by NVR).

Important: for the previous generation IP cameras with H264 CODEC (example models: 1093/139M2, 1093/141M2 ...) and for Wi-Fi cameras (example models: 1099/209, 1099/214, 1099/216 ...) the display is not guaranteed in the Event Preview sidebar of some NVR models (example: 1098/318P).

VIDEO LOSS: The IP camera is disconnected.












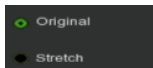






-  Click to open **Quick Add** menu to add the IP camera.



Click to edit the current IP camera.

3.3.1 TASKBAR












-  Click to open the Main Menu.
-  Click to pop up the shutdown options pop-up box.
-  Click to select different layout for live view.
-  Press to select a different layout for live display (only available for the 1098/334)
-  Click to select more layouts for live view.
-  Click to start viewing channels in a sequence.
-  Quick playback. You can select to play the latest recording for all channels from the beginning of the day, or you can select the playback from the latest 5s, 10s, 30s, 1Min, 5Min.
-  Quick backup. Click to backup the video file.
-  Click to adjust audio volume.
-  Click to switch all IP channels between mainstream and substream (for live view resolution).
-  You can choose between the original and the stretched image format 
-  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.
-  Preview a restore: allows reordering of channel previews.
-  To enable or disable certain functions of the device.
-  To start or stop Manual Record and Manual Alarm.
-  To view system information, channel information, record info and network state.
-  AUX Monitor: allows you to select the monitor output.

3.3.2 CAMERA QUICK TOOLBAR

In live viewing, left-click on a connected camera to display the Camera Quick Toolbar.



-  Click to manually record the channel immediately. If the manually recording is in process, the icon will be red. Click one more time to stop the manual record.
-  Click to save a snapshot of the current camera image. The Manual Capture option must be enabled to use this feature. For details on enabling Manual Capture, see the "**Capture**" section).
-  Click to play the latest 5 minutes recording of this channel.
-  Click to enter PTZ control panel.
-  Click to zoom into the channel. When the  icon appears, press and hold the left button of your mouse to drag the area you want to zoom into.
-  Click to adjust the image colour of the channel. You can adjust the HUE, BRIGHT, CONTRAST, SATURATION & SHARPNESS of the image.
-  To switch the live view video stream between HD & SD. HD is the mainstream live view, SD is the substream live view.
-  Press to enable the camera light (if applicable) by setting its intensity and brightness mode.



Press to enable the camera siren (where applicable) by setting its sound intensity.




Press to enable two-way audio communication.

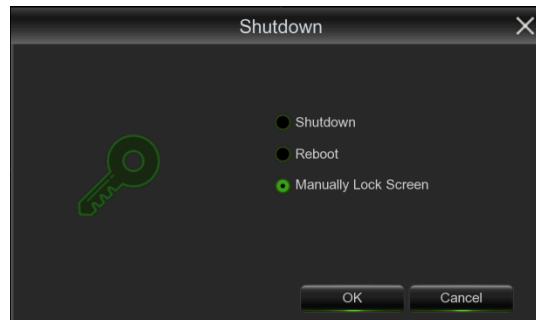


Add customized tag: see the respective section for more information.

3.3.3 SHUTDOWN / REBOOT / LOCK SCREEN MENU



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



If you select **Shutdown** option, the system will be turned off. If you select **Reboot** option, the system will be rebooted. If you select **Lock Screen** option, the live viewing screen will be disappeared. You will need to login in the system again for further operations.




Afterwards, edit the Password in order to re-login to system press **Unlock** button for login again. Pressing the **Pattern** button will allow access to the main menu via the unlocking pattern if it was set during the first access.

Note:


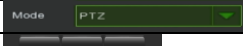
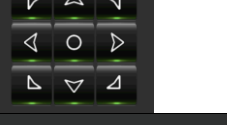







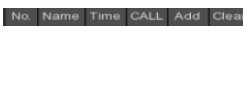
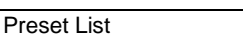
- Administrator has full authority over Main Menu operations and has an authority to limit common user's operation.

3.3.4 PTZ CONTROL

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

1. Left-click on a channel in the Live Viewing screen to open the Camera Quick Toolbar and select the PTZ control icon .
2. PTZ control panel will be displayed.



N.	Icon	N.	Description
1		Channel	Click to select the channel of the PTZ AHD/IP Camera.
2		Mode	Click to select PTZ
3		Pointer panel	Click  to start/stop the PTZ camera Click the up/down/left/right arrows to set PTZ camera navigation
4		Speed	Adjust PTZ speed
5		Zoom	Click to zoom in/out.
6		Focus	Click to adjust the focus
7		Preset	Click to select Preset
8		Total	Display the total number of preset points
9		Start Cruise	Start preset points
10		No./Name/ Time/Go To/Add/Delete	No.: Preset point number Name: Name of the preset Time: Time during which the camera will reset to the current point Go To: Recall preset point Add: Insert preset point Delete: Delete preset point
11		Preset list	Preset list

3.3.5 CRUISE SET

Open Auto Cruise function on PTZ setting menu if you want to setup cruise function (system default: off), and set up Cruise channel, Cur point and total quantity and stop time etc.

How to set a preset point:

- **Total:** Set up preset point quantity.
- **Cur Point:** This indicates the navigation starting point. System default point is 01. The model support up to 255 pre-set points.
- **Time:** Sets the stop time at each point
- **CALL:** This can be used to go to a specific preset point.
- **SET:** This can be used to set a set of specific preset points of a PTZ camera.


Note:

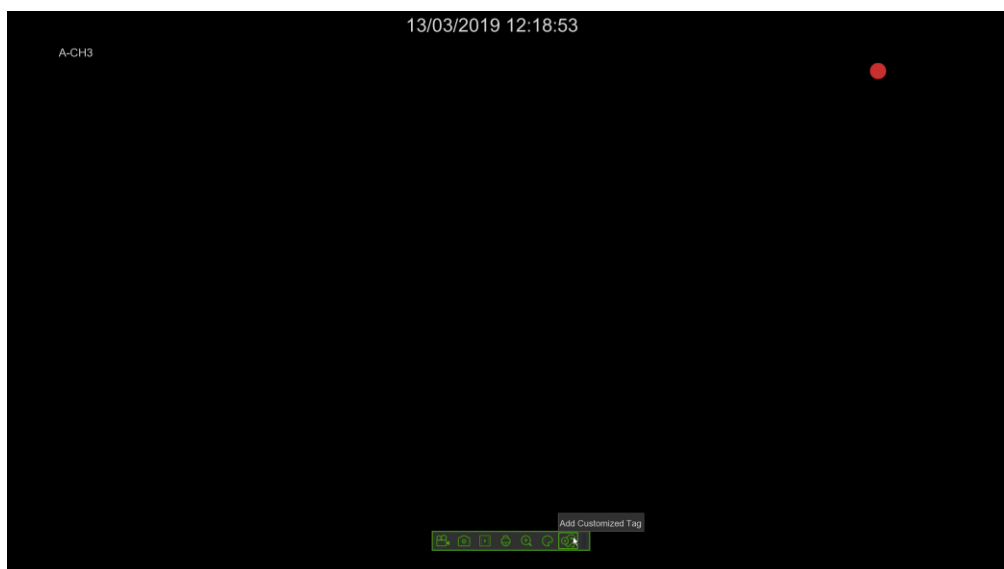
Use 95 to enter the OSD menu of the Speedome. Run the SET95 control if CALL95 does not work. See the Speedome manual for the Speedome OSD.

- Select a camera you desire to set a preset point.
- Adjust the camera in a desired direction.
- Click on [Set] to set the point as preset point.
- Click on [Save] to save the preset point.
- Follow the above step to add one more preset point.
- **Save:** Save all the preset points
- **Clear:** This can be used to delete one selected preset point.

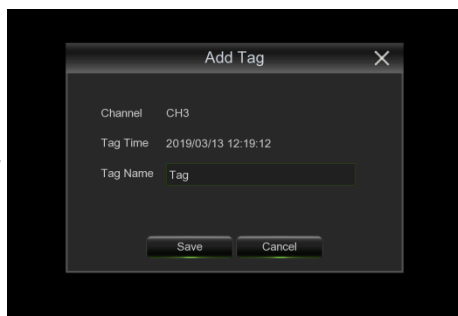
Note: Up to 254 pre-sets per one camera can be stored. However, actual preset quantity differs depending on PTZ performance.


3.3.6 TAG SETUP

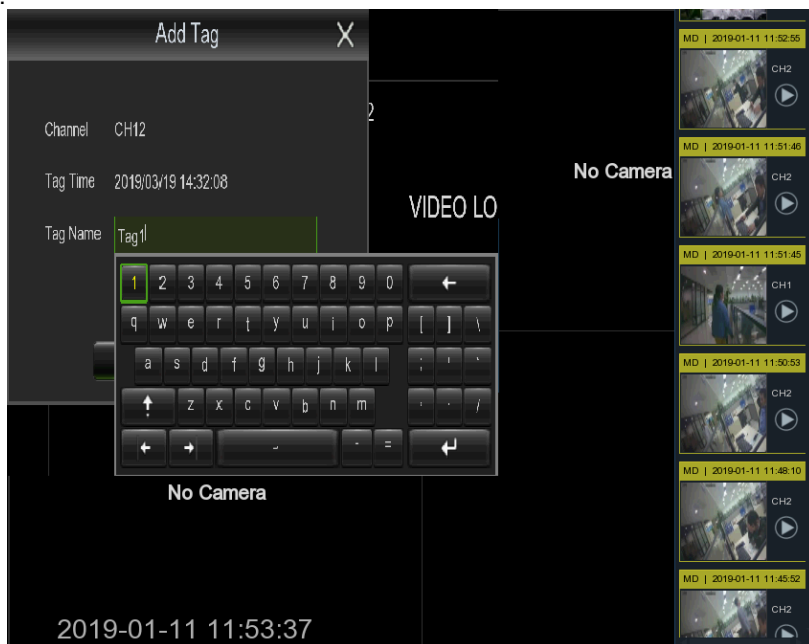
Move mouse to any a live channel, then right-click to view tools bar. The Add Customized Tag icon is .



Click on  to view



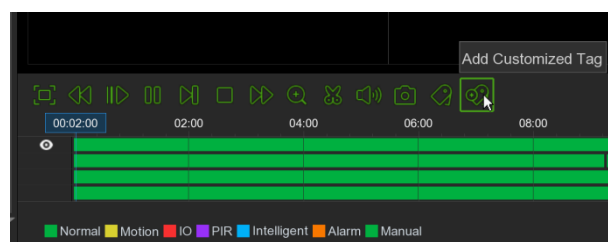
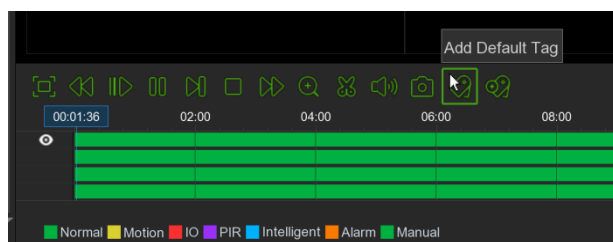
then click on . Set the Tag once, the Tag can record one minute, this is the default setting. Tag name may be edited, for example:



Warning:

User can select [General], [Sub-periods] and [Smart] options on the [Search] page and set the Tag event record.

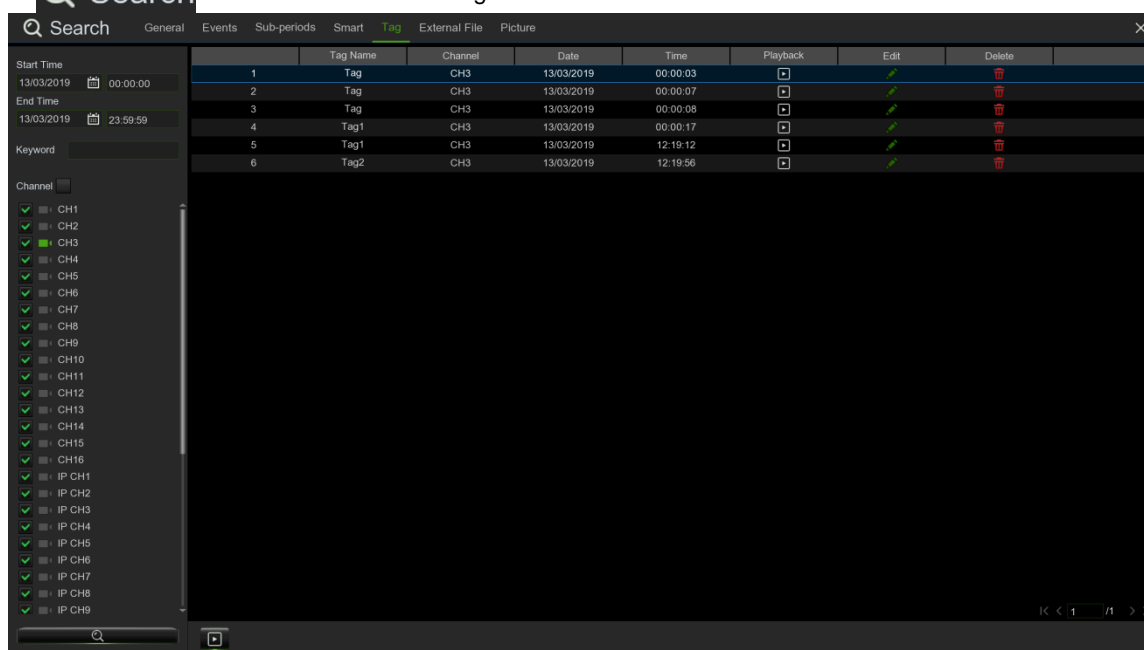






3.3.7 TO SEARCH FOR A TAG RECORD EVENT

Click on **Start Menu** → **Setup** → **Search** → **Tag** on the Tag event search page, then set Start Time, End Time, and Channel.

Click on **Search** to view the list of event tags.



Playback: Click on  to play the Tag recording event.

Edit: Click on  to modify the Tag name.

Delete: Click on  to delete the Tag recording event.

3.4 MAIN MENU

All the NVR functions can be accessed from the Main Menu. If you have not logged in (main menu locked mode), you will need to enter Username and Password ¹ as shown in the following figure:




The image shows a dark-themed 'Unlock' window. It has four input fields: 'Language' with a dropdown arrow showing 'ENGLISH', 'Device ID' with the value '000000' and a hint '(000000)', 'User' with a dropdown arrow showing 'admin', and 'Password' which is empty. At the bottom, there are two buttons: 'Pattern' (highlighted in green) and 'Unlock'.

For System Login press **Unlock** button.

Pressing the **Pattern** button will allow access to the main menu via the unlocking pattern if it was set during the first access.

Note:

- The parameters for sending emails described in paragraph "Email" must be correctly configured to use this function.
- Administrator has full authority over Main Menu operations and has an authority to limit common user's operation.

In <Live> mode you can access the Main Menu by left-clicking on the menu pop-up  which appears in the lower part of the screen. As mentioned above, the Main Menu can be used to manage the device setup parameters, search for images recorded by the NVR, access advance settings, shut down and reboot the system and so on.

3.5 CHANNEL

You can access the main parameters of the system in this section. As shown in the following figure, after clicking on "Parameter" in the top left, the following subsections will appear in the menu underneath in which to set the respective configuration parameters:


1. Channel
2. Live
3. Image Control
4. PTZ
5. Video Cover Settings (Privacy Zone)
6. Motion
7. PIR
8. ROI
9. Thermal

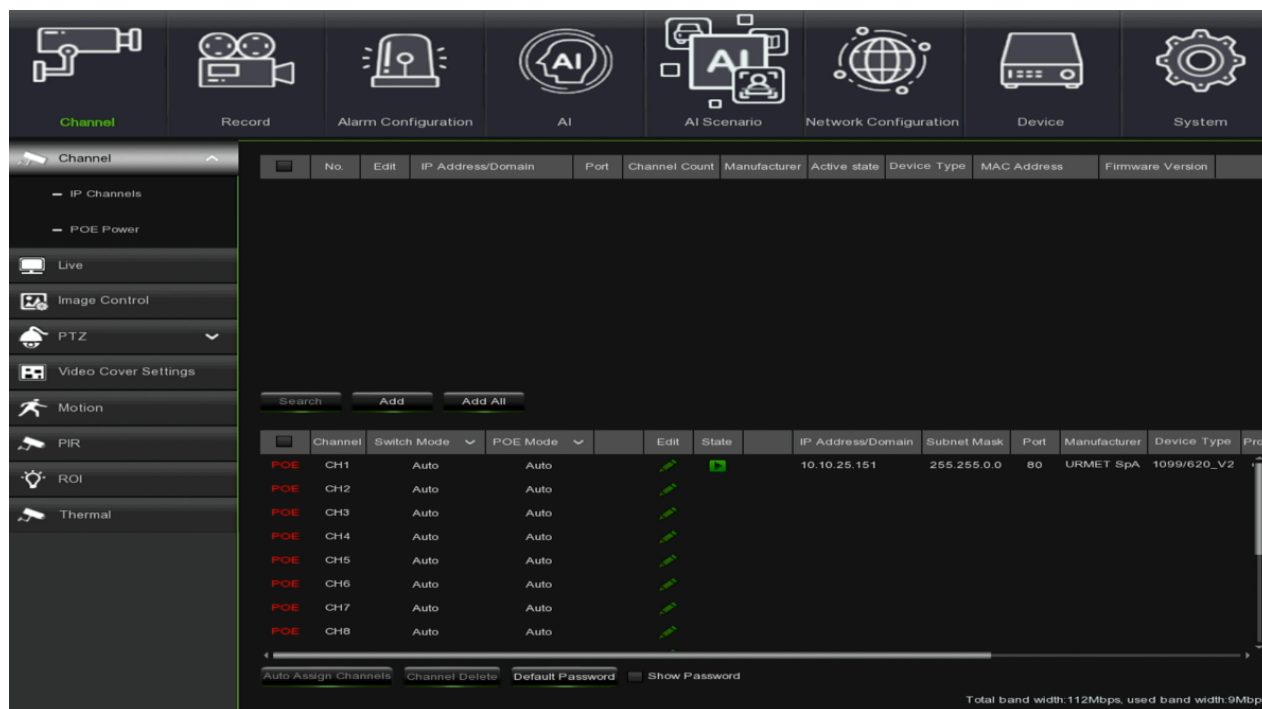
3.5.1 CHANNEL

The first subsection in the Channel section concerns screen configuration, i.e. all the settings referred to the NVR camera image display. They will be described in detail in the following paragraphs.

¹ When accessing the system for the first time, enter **admin** in the Username field; you will then be able to customize your Password.
DS1098-038C

3.5.1.1 IP Channels

The IP cameras are configured by selecting IP Channels on the side menu. Click on **[Search]** to search IP cameras from local network. Press **[Add All]** to quickly add IP cameras present in the NVR LAN (the IP address is assigned automatically in this case). Click on **[Add]** or  to manually add a camera to the system of the list of available channels. In all cases, you will need to enter the camera access password (admin for default settings) and then confirm the operation.



- **Auto Assign Channels:** The added IP camera will not be able to connect if its IP address is not in the same network segment as the NVR. This function can be used to reassign an IP address to all added IP cameras.
- **Channel Delete:** Select one or more added IP cameras and click on this button to delete them. Only cameras which are not POE-powered can be deleted.


Only available for the 1098/334:

- **Import IPC from File:** IP cameras can be imported from a file previously saved on USB media.
- **Export IPC info to File:** It is possible to save the information about the IP cameras to a file on a USB medium. about the IP cameras in a file on USB media.

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

To add a Camera, click on **"Add"**. The following screen will open:

- **IP Address/Domain:** IP address or domain name of the IP camera.
- **Alias:** IP camera name.
- **Position:** Position in which to display the camera name on the screen.
- **Port:** Port of the IP camera.
- **Protocol:** Select the protocol of the IP camera from the drop-down menu.
- **User Name:** IP camera user name.
- **Password:** Password of the IP camera
- **Camera Mode:** Select camera mode (Auto, Normal, Fisheye).

To edit the added IP Camera, click on "  ". The following screen will open:

- **Channel:** This displays the channel name.
- **Switch Mode**
 - **Manual Mode:** In this mode, the user can delete or add the network IPC.
 - **Auto Mode:** In this mode, the channel automatically connects to the IPC on all POE interfaces of the NVR. The user cannot delete or add the network IPC to the channel.
- **POE Mode**
 - **Auto POE:** In this mode, the camera power supply mode via Ethernet is configured automatically
 - **EPOE:** In this mode, the Extended POE mode is configured

Power over Ethernet or POE is the mode for powering electronic equipment through the network wire. The POE Power section deals with the management of camera power through Ethernet ports.

Up to 100 metres of Ethernet cable can be used in POE mode.

Between 100 metres and 230 metres of Ethernet cable each PoE port on the NVR can support an output bandwidth of up to 10 Mbps and EPOE (Extended POE) mode must be used.

IMPORTANT NOTE:

➤ EPOE mode can support up to four cameras connected in POE mode at a maximum distance of 230 metres. This distance may vary depending on the type of Ethernet cable used (cat. 5E, cat. 6, cat. 7).

- **Alias:** IP camera name.
- **Position:** Position in which to display the camera name on the screen.
- **IP Address/Domain:** IP address or domain name of the IP camera.
- **Subnet Mask:** This is a network parameter which defines a range of IP addresses which can be used in a network.
- **Port:** Port of the IP camera.
- **Protocol:** Select the protocol of the IP camera from the drop-down menu.
- **Connect Mode:** choose between general or security.
- **User Name:** IP camera user name.
- **Password:** Password of the IP camera



In the drop-down menus:

- **Switch Mode**
 - **Manual Mode:** In this mode, the user can delete or add the network IPC.
 - **Auto Mode:** In this mode, the channel automatically connects to the IPC on all POE interfaces of the NVR. The user cannot delete or add the network IPC to the channel.

Right-click to select a channel to edit the camera profile in Auto or Manual Mode.

RTSP function

The RTSP (acronym of Real Time Streaming Protocol) is used to view the video mainstreams/substreams of an IP camera connected to the NVR on a web page of the PC or on the local monitor, through the RTSP port. This function is useful to manage the live stream of an IP ONVIF camera connected to the NVR.

To confirm video streams via the RTSP protocol, it is necessary to click on add [Add] and set the Mainstream and Substream URLs as shown in the following screenshot:

Add IP Camera

No.	IP Address/Domain	Port	Manufacturer	Active state	Dir
1	192.168.4.19	80	TC-R3210 SPEC%3A%2FB%2FP8%2FK	None	
2	192.168.4.34	9000	URMET	None	
3	192.168.4.63	8000	DM20	None	
4	192.168.4.74	80		Activated	
5	192.168.4.120	80	ipcamera	None	
6	192.168.4.125	80	ipcamera	None	
7	192.168.4.126	80	TC-H324S SPEC%3A25X%2F%2FE%2FY%2	None	
8	192.168.4.130	80	TC-C35TS SPEC%3A%2FA%2FE%2FY%2F	None	
9	192.168.4.131	80	TC-C35US SPEC%3A%2FA%2FE%2FY%2F	None	
10	192.168.4.135	80	ipcamera	None	

Mainstream URL
Substream URL
Alias
Protocol
User Name
Password
Bind channel

IP CH8

RTSP

admin

IP CH8

Search

Default Password

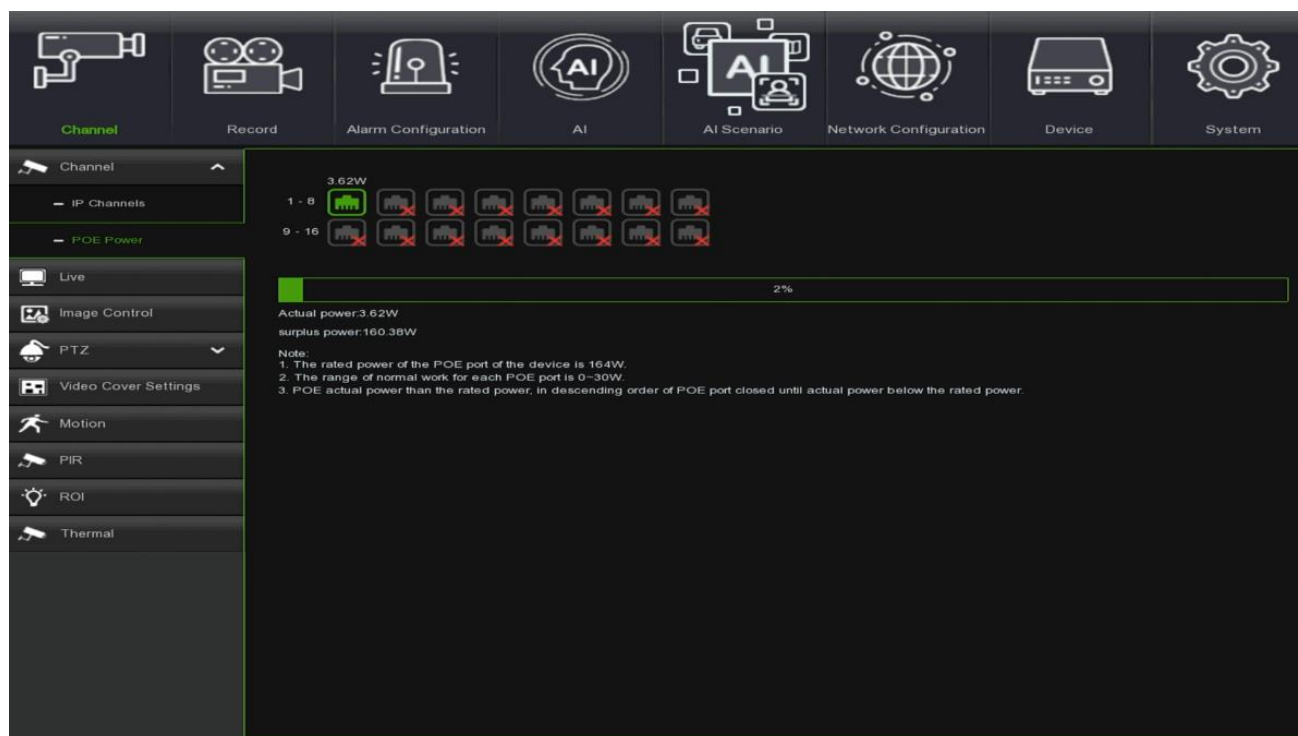
Add

Cancel

Confirm to quit at this point. Now, the IP camera detected using the protocol employing the RTSP port can be added to the live grid of the NVR.

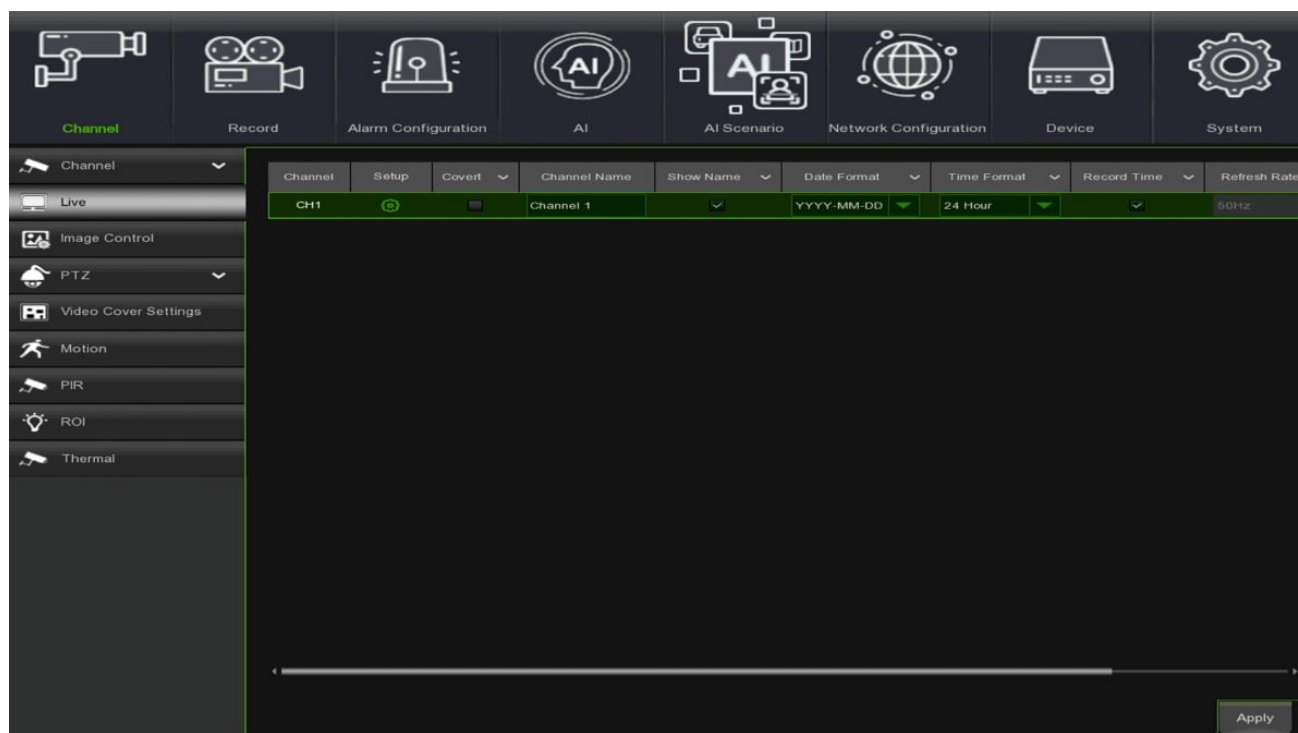
3.5.1.2 POE Power


Power over Ethernet or POE is the mode for powering electronic equipment through the network wire. The POE Power section deals with the management of camera power through Ethernet ports.




3.5.2 LIVE

This page of the Display menu can be used to configure the parameters related to the <Live> screen of the NVR. As shown in the following figures, the available options may be different if an IP camera (figure on the right) is being configured.



- **Channel:** This displays the channel name.
- **Setup:** Click on the icon  on the configuration page.

Here are the details related to other functions:



Channel: CH1
 Channel Name: Channel 1
 Date Format: YYYY-MM-DD
 Time Format: 24 Hour
☒ Show Name
☒ Record Time
 BRIGHT: 128
 CONTRAST: 128
 SATURATION: 128
 SHARPNESS: 128
 Apply

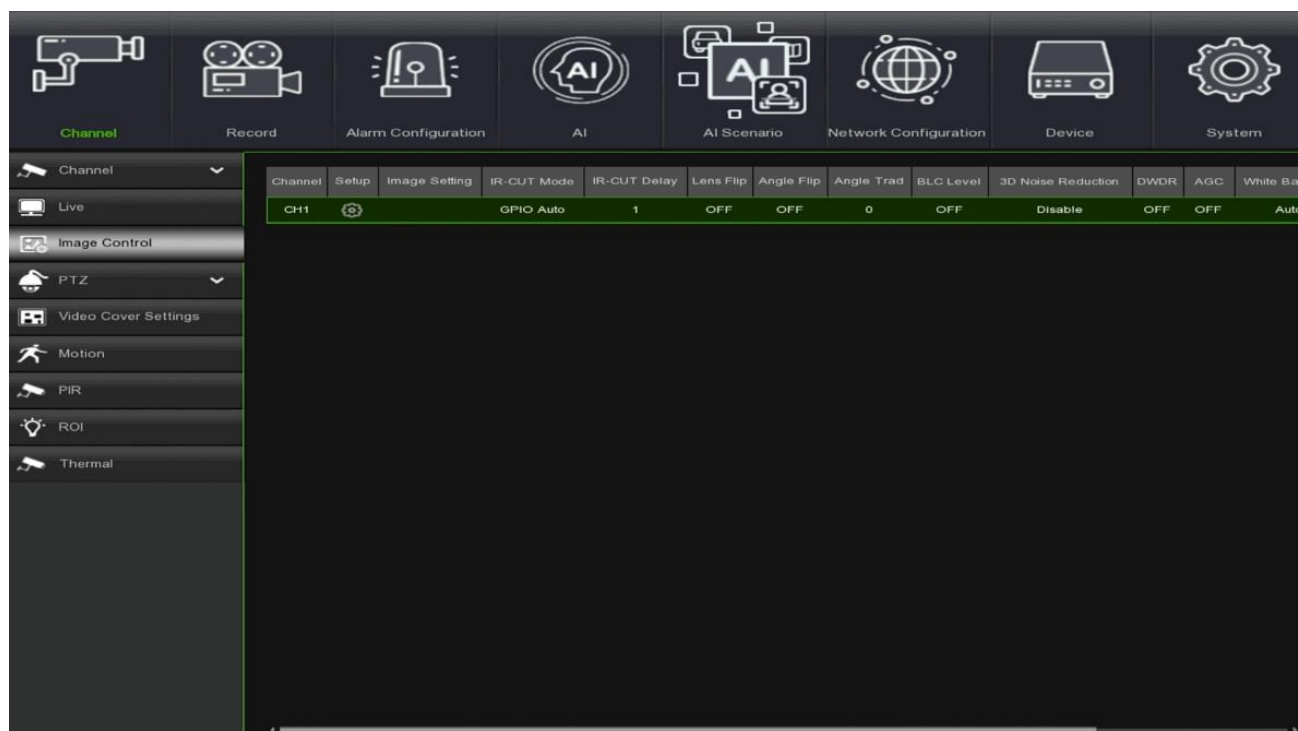
- Select a channel to be configured.
- Attribute a name to the camera.
- Date format to be displayed for the camera (for IP camera only).
- Time format to be displayed for the camera (for IP camera only).
- Monitor refresh rate (50 Hz or 60 Hz).
- This is used to view the name of the camera on the Live screen
- This is used to view the system time on the Live screen.
- This setting is used to adjust the transparency of the menus.
- This is used to adjust the Bright of the image colour.
- This is used to adjust the Contrast of the image colour.
- This is used to adjust the Saturation of the image colour.
- This is used to adjust the Sharpness of the image colour.
- Click on **Apply** to save the settings. Right-click to quit.

3.5.3 IMAGE CONTROL

This item of the Display menu can be used to access the page for adjusting the IP camera image quality parameters. The following figure shows a typical example and the meaning of the available options is described in the following list.


NOTE:

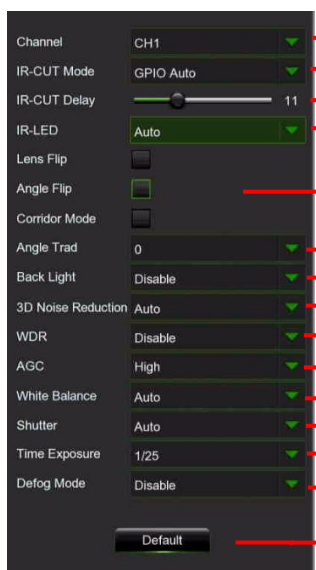
- The available options may differ according to the IP camera model.



Channel
 Live
 Image Control
 PTZ
 Video Cover Settings
 Motion
 PIR
 ROI
 Thermal

Channel	Setup	Image Setting	IR-CUT Mode	IR-CUT Delay	Lens Flip	Angle Flip	Angle Trad	BLC Level	3D Noise Reduction	DWDR	AGC	White Bal
CH1			GPIO Auto	1	OFF	OFF	0	OFF	Disable	OFF	OFF	Auto

- Channel:** Channel name.
- Setup:** Click on the icon  on the setup page.



Channel: CH1

IR-CUT Mode: GPIO Auto

IR-CUT Delay: 11

IR-LED: Auto

Lens Flip: ☐

Angle Flip: ☐

Corridor Mode: ☐

Angle Trad: 0

Back Light: Disable

3D Noise Reduction: Auto

WDR: Disable

AGC: High

White Balance: Auto

Shutter: Auto

Time Exposure: 1/25

Defog Mode: Disable

Default

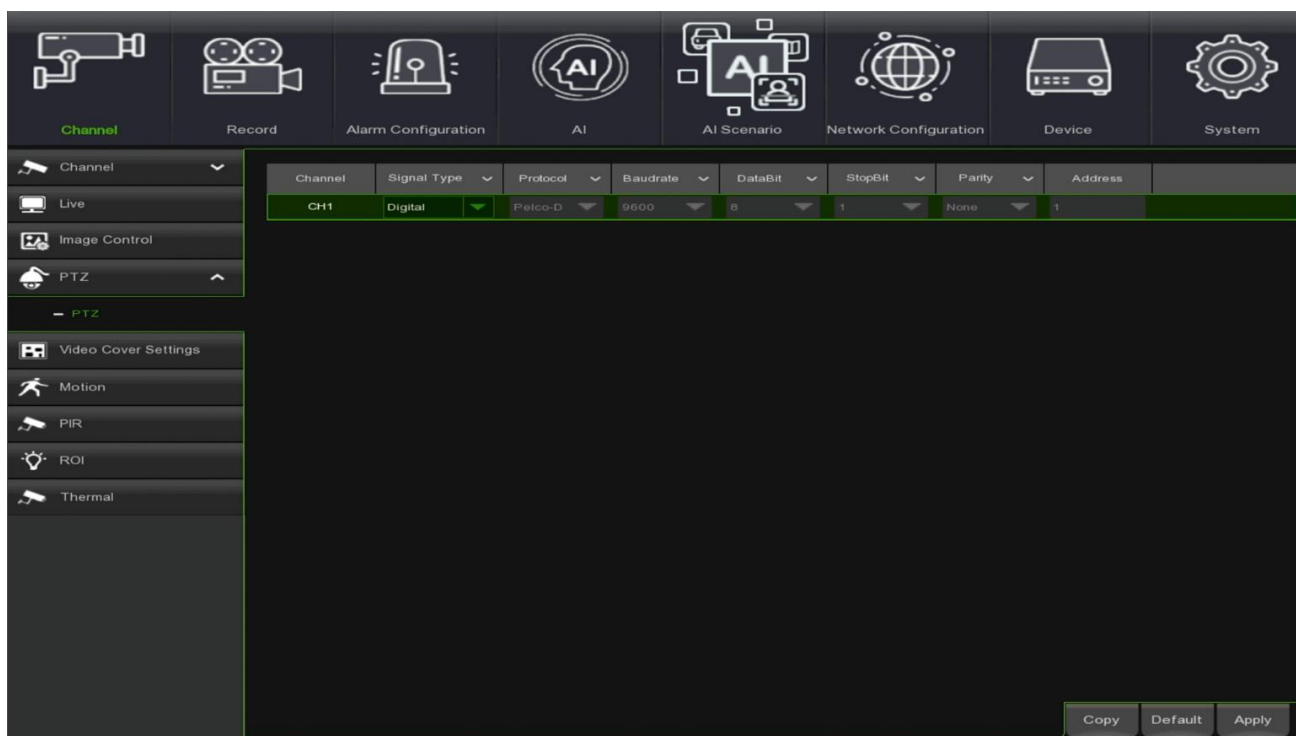
- Select a channel to be configured.
- Select the desired integrated IR cut filter mode to ensure the camera works correctly in D/N.
- Set the IR-CUT switching delay time.
- Set the infrared illuminator.
- Check to enable lens flip, angle flip and corridor mode.
- Set the flip angle.
- To enable or disable backlight compensation.
- To enable or disable 3D noise reduction function.
- Select the backlight compensation level.
- Automatic gain control, set the type: OFF/Low/Middle/High.
- To enable or disable white balancing: Auto/Manual
- To set the Auto/Manual shutter mode.
- Set the shutter mode in Auto/Manual
- Set Defog mode: Disable/Auto/Manual mode, if Defog is set Manual, Set Level to improve the video quality
- Click on **Default** to load the default settings.

3.5.4 PTZ

This menu can be used to configure the PTZ (Pan-Tilt-Zoom) settings for the dome camera

3.5.4.1 PTZ

To control PTZ cameras, click on PTZ (which stands for Pan Tilt and Zoom) to open the page shown in the following figure. On each channel, you can set the communication protocol, the speed and other information, as shown below:



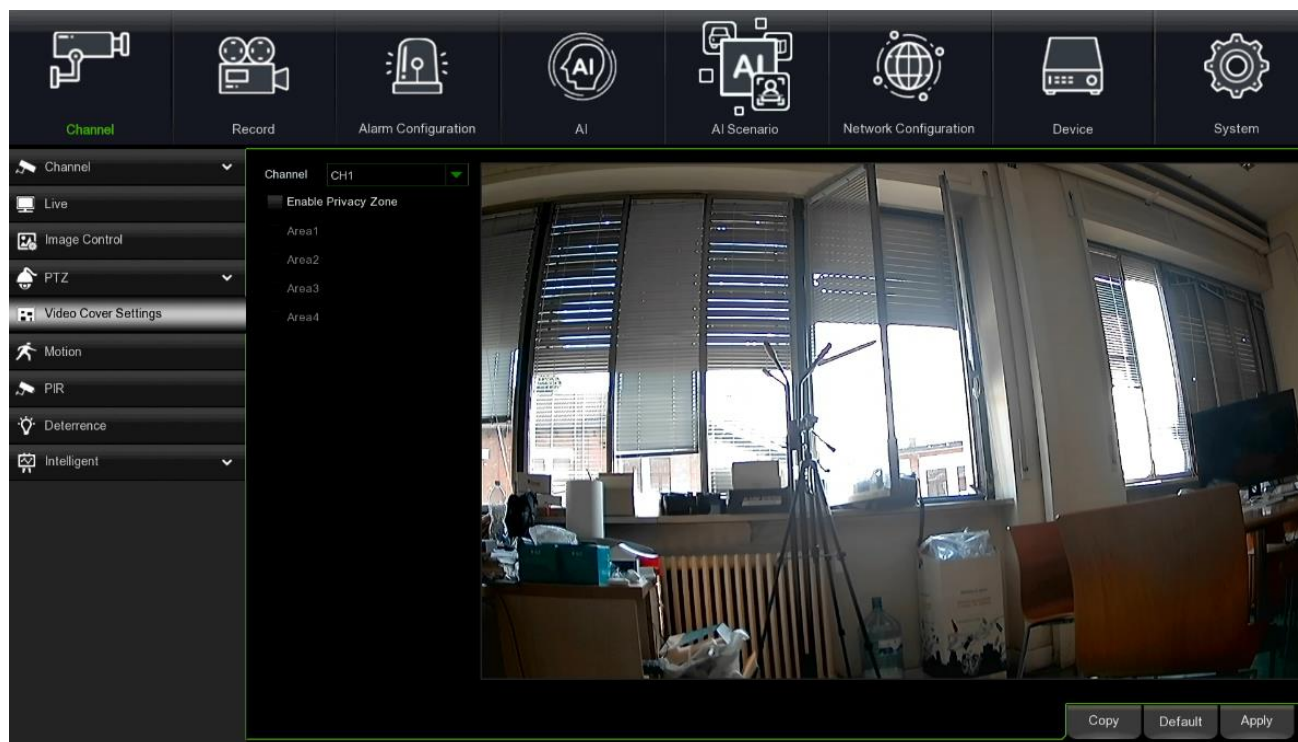
Channel	Signal Type	Protocol	Baudrate	DataBit	StopBit	Parity	Address
CH1	Digital	Pelco-D	9600	8	1	None	1

Buttons: Copy, Default, Apply

- **Channel:** Channel name
- **Signal Type:** Digital for IP channels.
- **Protocol:** Select the communication protocol between PTZ camera and NVR.
- **Baudrate:** This is the data transmission speed sent by the NVR to the PTZ camera. Check that it is compatible with the level of the PTZ camera.
- **DataBit / StopBit:** The data exchanged between the NVR and PTZ camera is sent in individual packages. **DataBit:** This indicates the number of bits sent, while the **EndBit** indicates the end of the package and the beginning of the next. The available **DataBit** parameters are: 8, 7, 6, 5. The available **StopBit** parameters are 1 or 2.
- **Parity:** For error check. See the documentation of the PTZ camera to configure this parameter.
- **Cruise:** Enable to use the Cruise mode. To use Cruise mode, it is necessary to set a given number of preset points.
- **Address:** Set the command address of the PTZ system. Note that in order to work correctly, each PTZ camera requires a univocal address.

3.5.5 VIDEO COVER SETTINGS (PRIVACY ZONE)

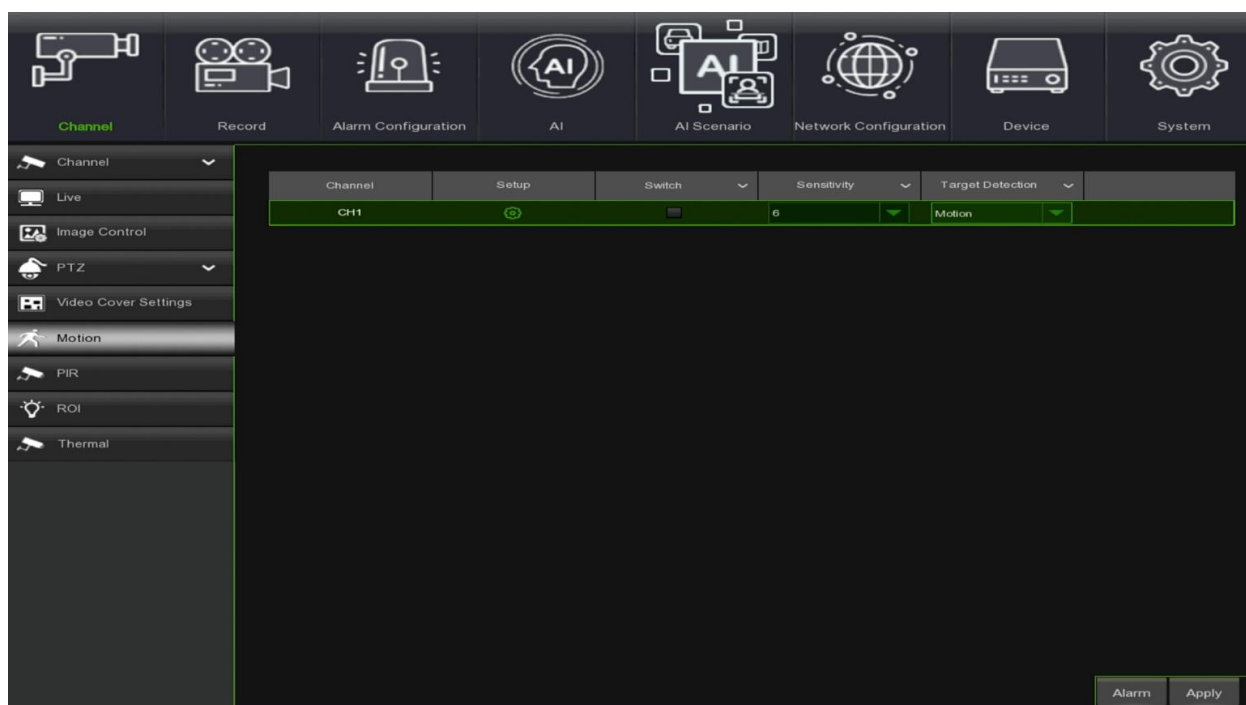
This menu allows you to create privacy zones if you want to partially cover some certain part of the image. You can create up to four privacy zones in any size and location on the camera image. Enable the Privacy Zone, and select how many zones you need. The zones appear as “red box”. Click on the edge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



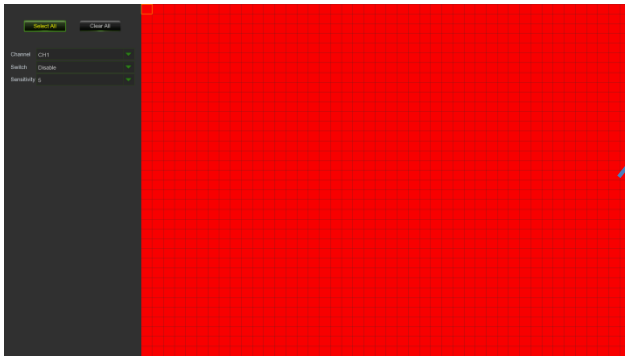
Note: The area of privacy zones you had set will be invisible in both live view & recording video.

3.5.6 MOTION

This menu allows you to configure motion detection parameters. When a movement is detected by one or more cameras, the 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 on the icon  on the configuration page.



Motion Detection Area:

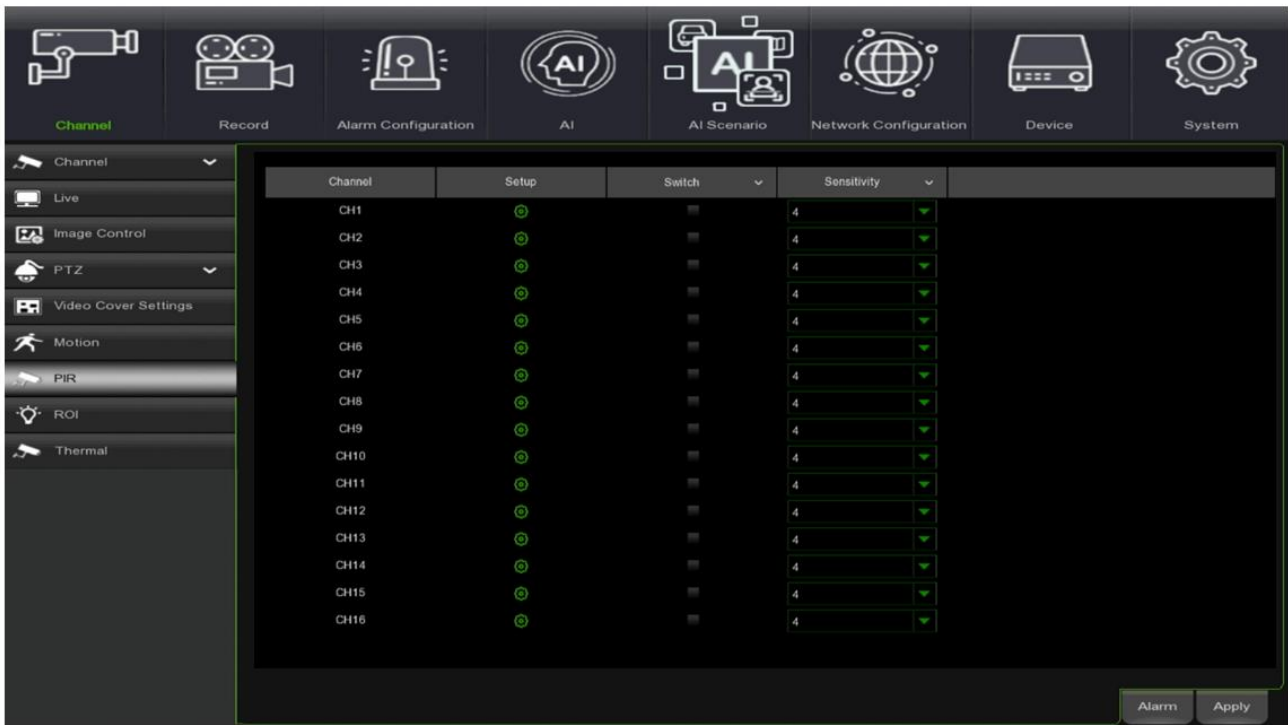
The whole screen is marked for motion detection (red blocks) as default. If you want to disable the motion detection on a certain area, click on the grid cursor and then drag the mouse to highlight the scope to deselect the area into transparent blocks. After setting is completed, right-click to go back and click on **Save** to make the area setup effective.

- **Switch:** Enable or disable motion detection.
- **Sensitivity:** Set the sensitivity level. Level 1 is the lowest sensitivity level and level 8 is the highest sensitivity level.

3.5.7 PIR

Select PIR in the side menu to open a page where to define the methods and actions to be taken in case of motion alarm detection.

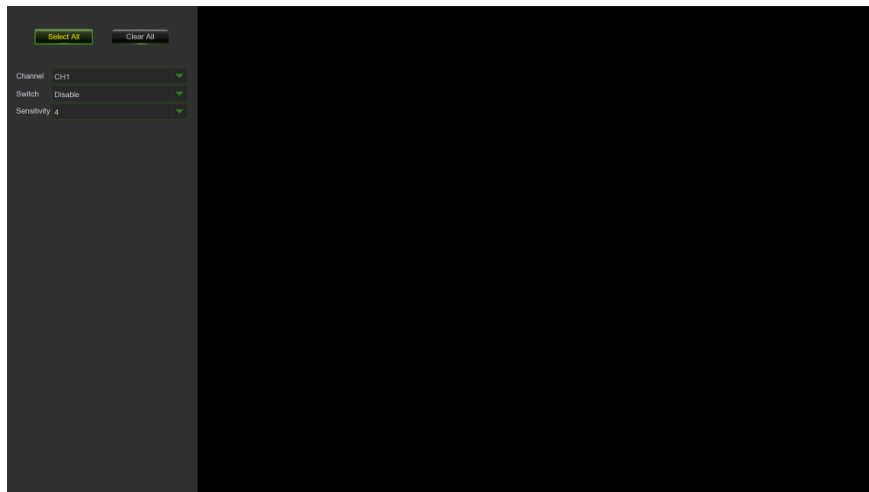
Click on **PIR** button, then click Setup to configure the motion detection PIR function:



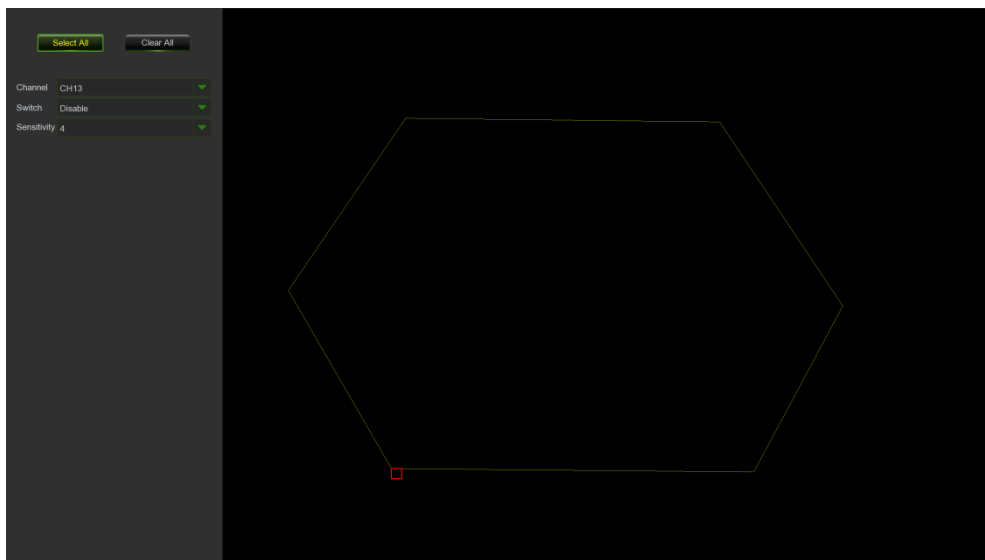
Channel : Show the IP channel



: Configure monitor area for PIR



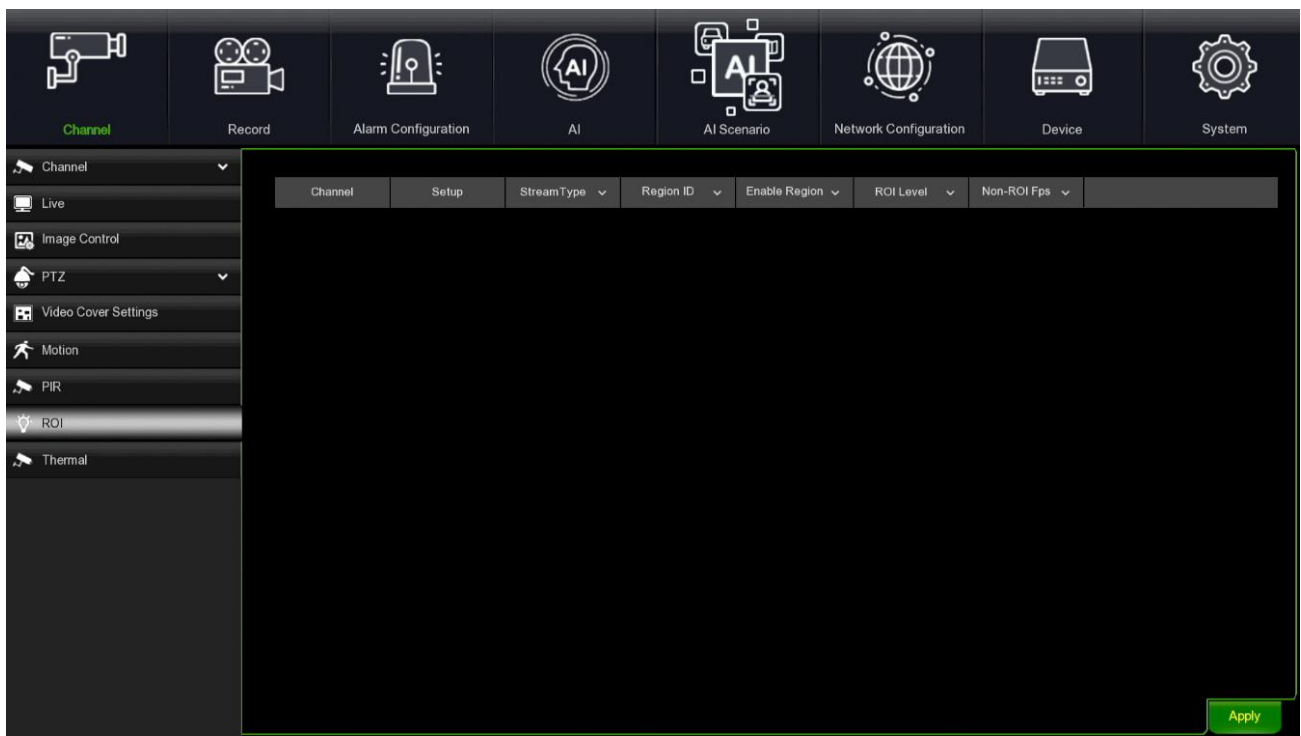
Click on **Select All** to set the system to automatic motion detection of PIR function.
 You can set an area for motion detection PIR function by clicking on:



To configure PIR Alarm, see "**Section 3.7.2- PIR Notification**"

3.5.8 ROI

The ROI function allows you to configure certain parameters related to an area of particular interest. For example, it is possible to choose to save a high-resolution video stream for a portion of the image while leaving a lower resolution for the remaining part of the image. This function is only applicable if the camera has the ROI function.

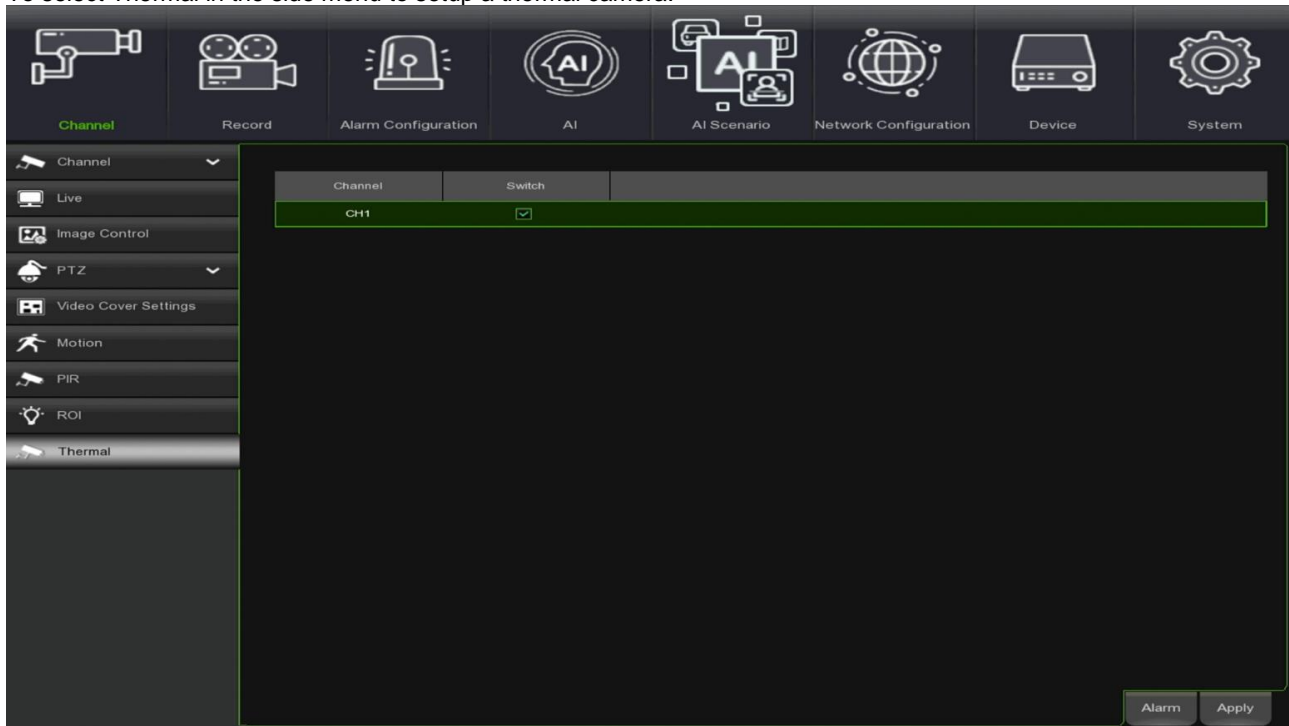


1. Define an application channel for the function.
2. Select **Setup** to define the zone. Hold down the left mouse button and drag an ROI zone.
3. **Stream Type**: You can define the type of video stream to be saved for the ROI zone.
4. **Region ID**: A maximum of 8 ROI zones can be set per channel.
5. **Enable Region**: Enables the ROI zone.
6. **ROI Level**: Choose a bit stream for ROI from the list.
7. **Non-ROI Fps**: set the plot frequency outside the ROI zone. The lower the value set, the better the image quality in the ROI zone. The range of the frame rate depends on the standard and the video resolution. It varies between 1 and 25 Fps.

(Note: it is possible to assign different non-ROI plot frequencies to different ROI zones, but the minimum value between them will be used as the plot frequency to be applied to the non-ROI zone in the preview frame).

3.5.9 THERMAL

To select Thermal in the side menu to setup a thermal camera.



3.6 RECORD SETTINGS

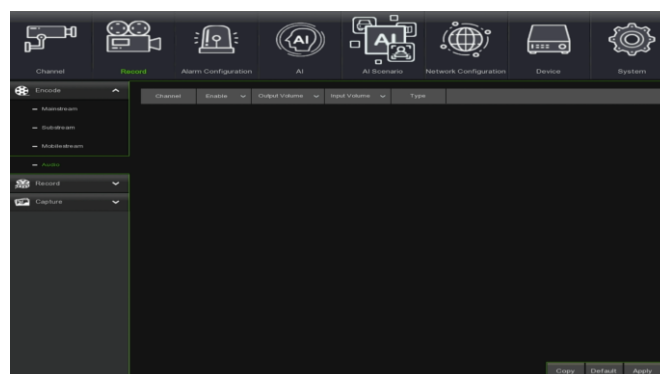
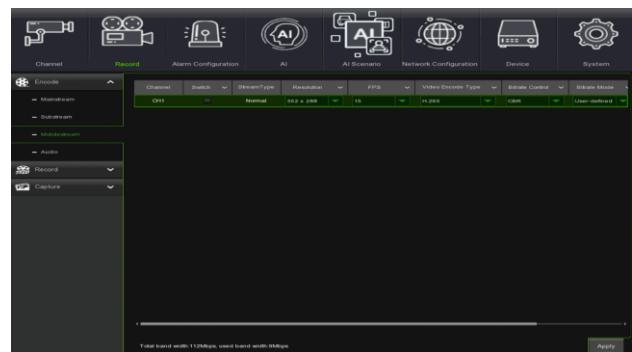
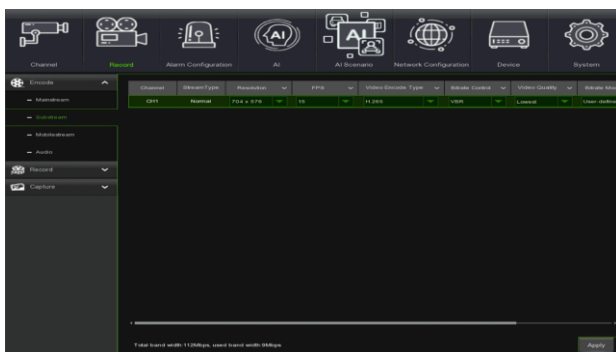
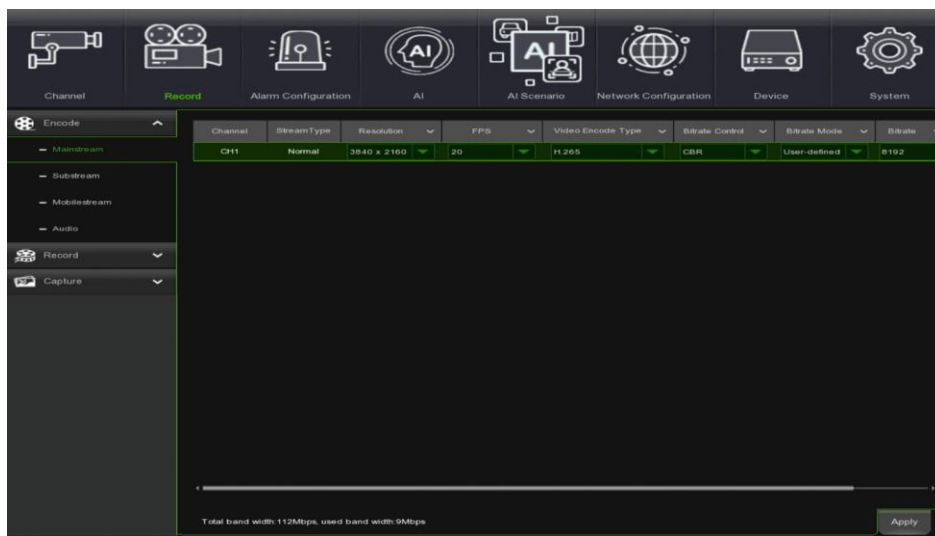
This subsection describes the configuration of the recording options made available by the NVR:

- Encode
- Record
- Capture

3.6.1 ENCODE

This menu can be used to configure the quality of video recording or network transmission images. As a rule, Mainstream defines the recording video quality which will be saved on the HDD, while Substream defines the video quality which is being viewed via remote access (e.g. web client & CMS; Mobile Stream defines the video quality which is being viewed via remote access via mobile devices).

3.6.1.1 Mainstream / Substream / Mobile Stream/Audio



- **Resolution:** This parameter defines the size of the recorded image.
- **Record Settings** This parameter defines the number of frames per second that will be recorded by the NVR.
- **Video Encode Type:** For IP camera only. The NVR supports H.264, H.265 H.264+ and H.265+.
- **Bitrate Control:** This selects the bitrate level. For a simple scene (e.g. a grey wall), a constant bitrate (**CBR**) is suitable. A variable bitrate (**VBR**) is suitable for a more complex scene (e.g. crowded street).
- **Bitrate Mode:** To customize the bitrate, select the **User-defined** mode.

Select **Predefined** mode to select the default bitrate.

- **Bitrate:** This parameter corresponds to the speed of data transfer that the HVR will use to record video. Recordings that are encoded at higher bitrates will be of better quality.
- **Audio:** you can enable/exclude audio recording for each channel.

NOTE:

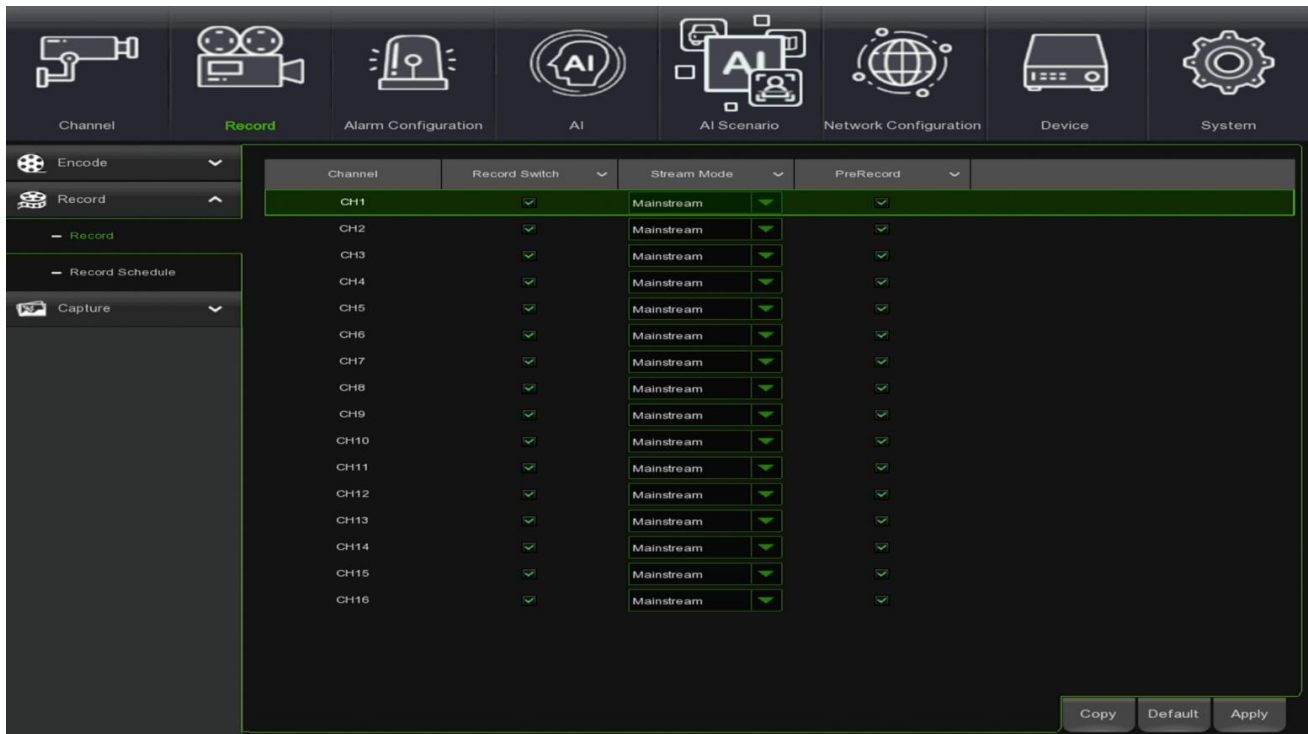
In CBR Predefined Bit Rate Mode, the bitrate (data transfer speed) changes automatically and accordingly with frame rate value selected for each IP channel with protocols other than ONVIF.

3.6.2 RECORD

This subsection describes the configuration of the recording options made available by the NVR.

3.6.2.1 Record

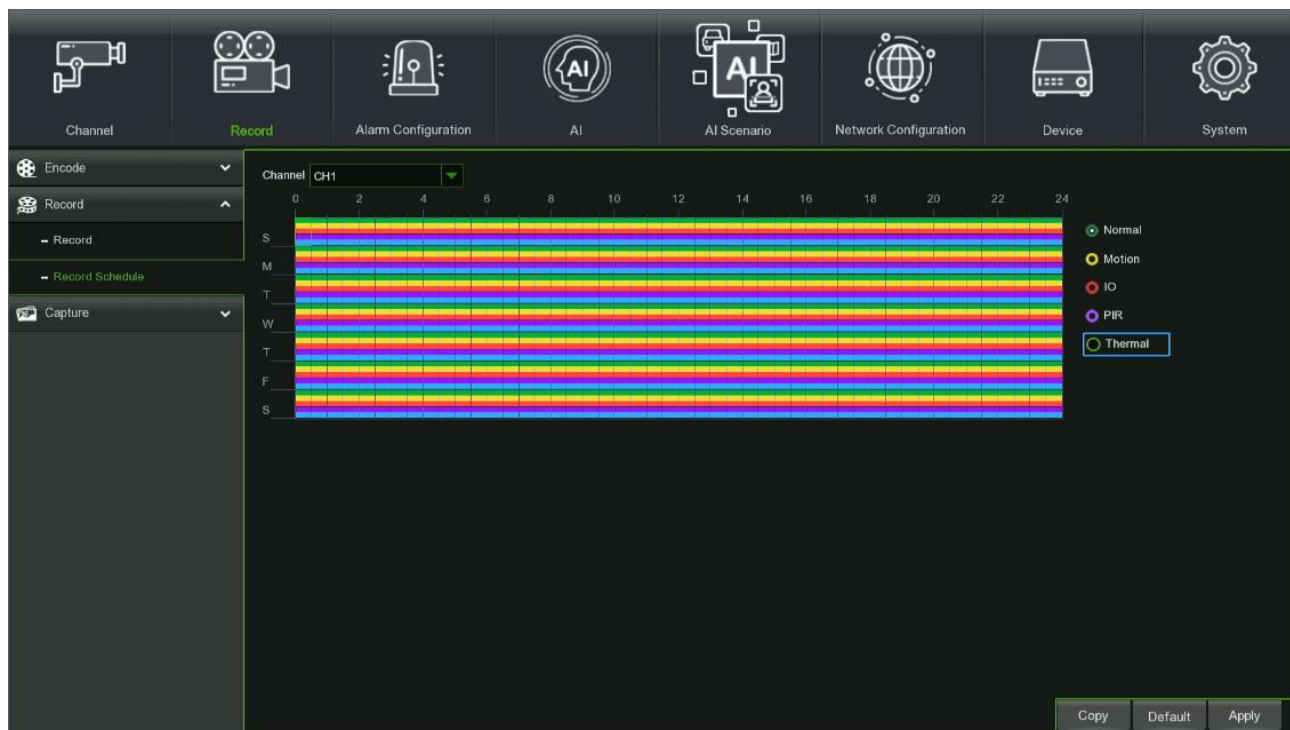
This menu can be opened by clicking on "Record" and used to set the NVR recording parameters:



- **Record Switch:** Check to enable recording on this channel.
- **Stream Mode:** This can be used to select the recording quality. If you select Dualstream, the system will record both Mainstream and Substream.
- **PreRecord:** If this option is enabled, the NVR starts recording a few seconds before an alarm event occurs. Use this option if the main recording type is based on motion or I/O alarm.

3.6.2.2 Record Schedule

This menu can be used to set the NVR video recording program and define the recording mode for each channel. It can be used to define a daily and hourly schedule in normal (continuous) recording mode, motion recording, I/O alarm recording and PIR recording (if supported by NVR). To set the recording mode, click on the radio button (Normal, Motion, Alarm, PIR, Intelligent Analysis), then drag the cursor to mark the time slots. The registration program is only valid for one channel. Use the Copy function if you want to use the same registration program for other channels. Click on Apply to save the settings.



- **Channel:** This can be used to select the channel to set the recording parameters.
- **Normal:** A green time slot indicates that normal recording is set for the channel for the time slot.
- **Motion:** A yellow time slot indicates that the channel records only when a motion is detected during the time slot.
- **I/O:** A red time slot indicates that the channel records only when the input is triggered during the time slot.
- **PIR:** A purple time slot the indicates the channel records only when the sensor is triggered during the time slot.
- **Thermal:** When the time slot is marked in blue, this indicates that the channel only performs recording if the thermal camera intervenes during that time slot.
- **No Record:** A black time slot indicates that there is no recording scheduled for the time slot.

Click on the **[Apply]** button once the program is completed.

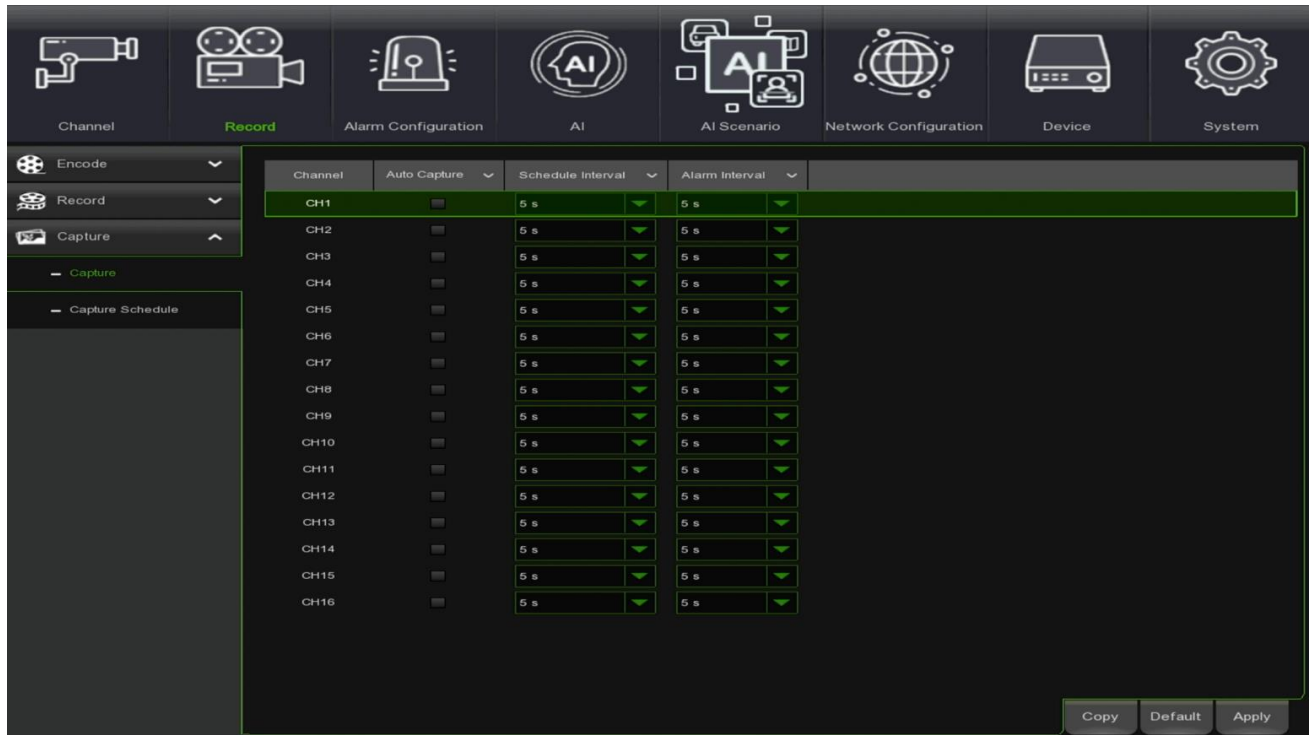
Alternatively, click on the **Default** button to use the system default parameters.

3.6.3 CAPTURE

This subsection of the Parameters menu can be used to configure the parameters dedicated to the acquisition of images in alarm conditions and to the programming of the time slots during which the function must be active.

3.6.3.1 Capture

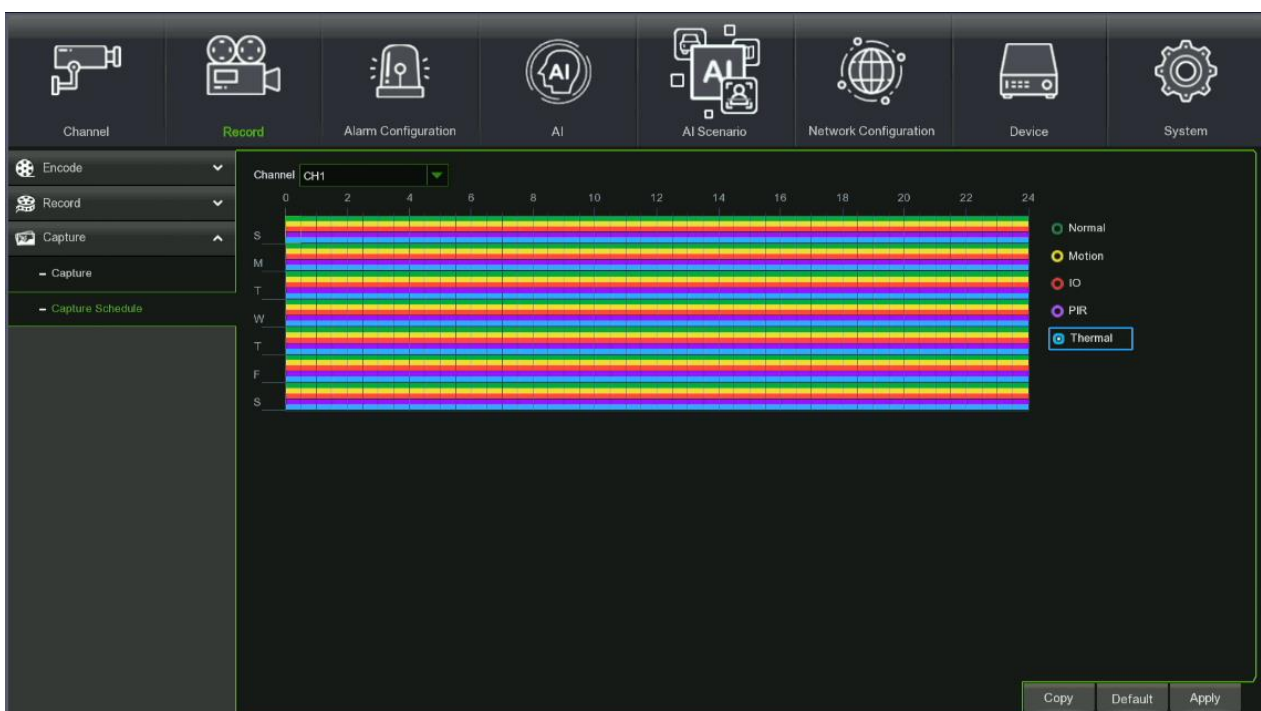
The Capture item is used to configure the parameters for recording images in an alarm condition; the following figure illustrates the available options:



- **Enable Capture:** This can be used to enable or disable automatic capture on the channel.
- **Stream Type:** Select image resolution on 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 is triggered.
- **Manual Capture:** This can be used to enable or disable manual capture on the channel.

3.6.3.2 Capture Schedule

This can be used to configure the time slots and days of the week during which the capture function must be operational.



- **Channel:** This can be used to select the channel to set the recording parameters.
- **Normal:** A green time slot indicates that normal recording is set for the channel for the time slot
- **Motion:** A yellow time slot indicates that the channel records only when a motion is detected during the time slot.
- **IO (I/O):** A red time slot indicates that the channel records only when the input is triggered during the time slot.
- **PIR:** A purple time slot the indicates the channel records only when the sensor is triggered during the time slot.
- **Thermal:** When the time slot is marked in blue, this indicates that the channel only performs recording if the thermal camera intervenes during that time slot.
- **No Record:** A black time slot indicates that there is no recording scheduled for the time slot.

When the program is complete, click on the **[Apply]** button.

Alternatively, click on the **Default** button to use the system default parameters.

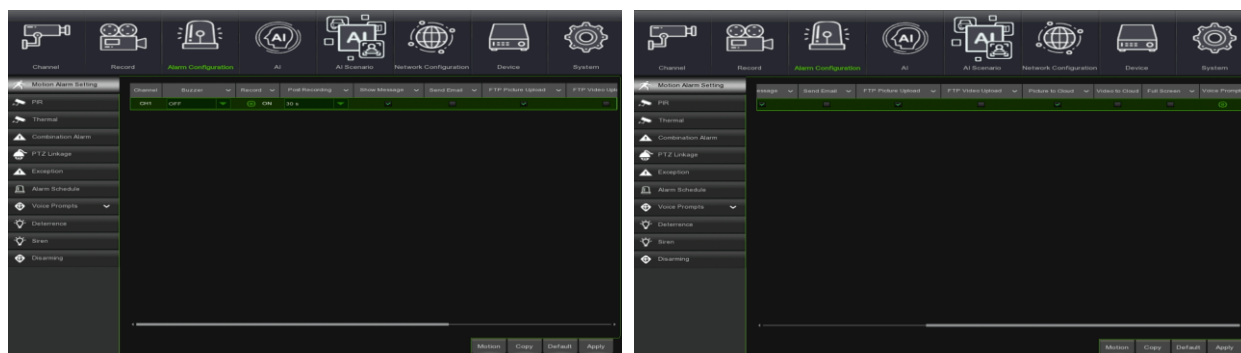
3.7 ALARM CONFIGURATION

This section is dedicated to the set notifications for different alarm events (Motion, PIR, IO Alarm, Intelligent Analysis, PTZ Linkage, Exception, Alarm Schedule) used by the HVR for recording and notifying alarms. The submenu is:

1. Motion Alarm Settings
2. PIR
3. I/O Alarm settings
4. Thermal
5. Combination Alarm
6. PTZ Linkage
7. Exception
8. Alarm Schedule
9. Voice Prompts
10. Deterrence
11. Siren
12. Disarming

3.7.1 MOTION ALARM SETTINGS

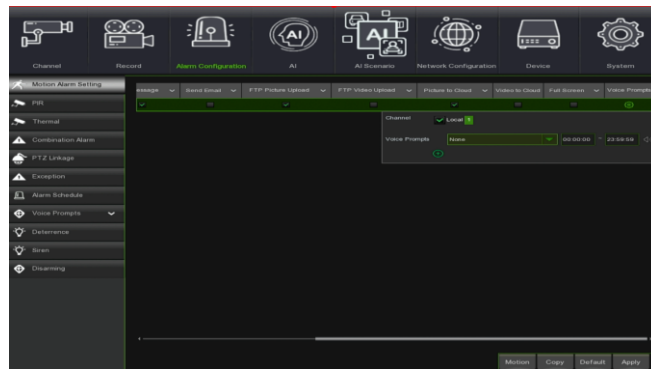
Select Motion Alarm Settings in the side menu to open a page where to define the methods and actions to be taken in case of motion alarm detection.



Here is a brief description:

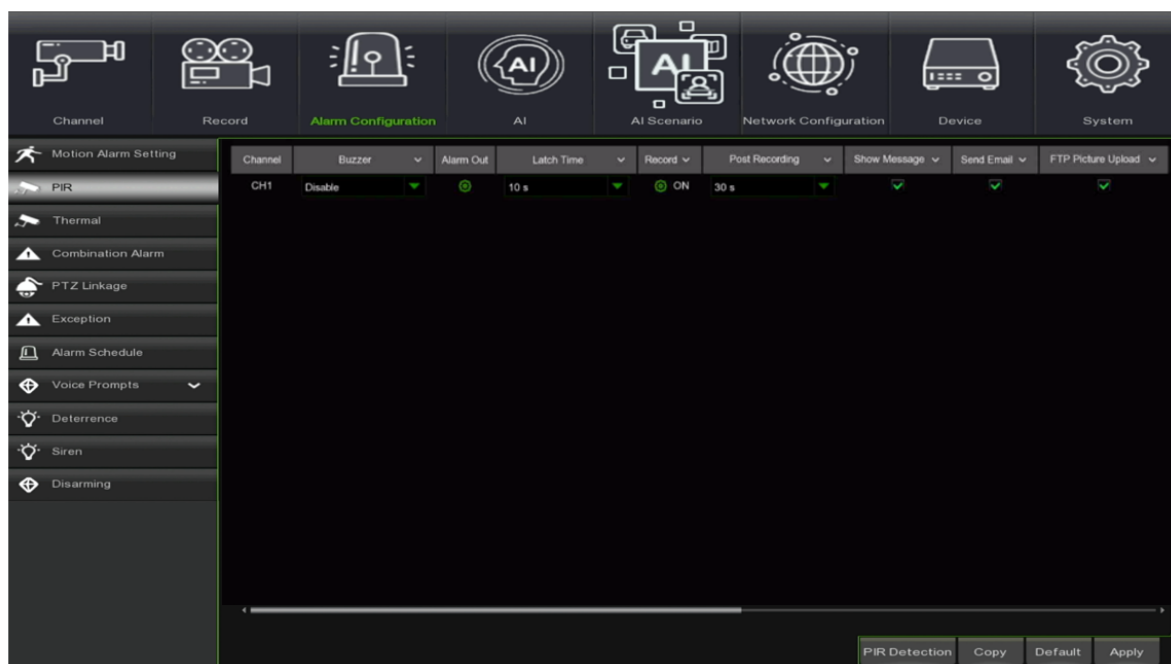
- **Channel:** This is used to select the channel with which the motion detection function is associated.
- **Buzzer:** This can be used to set for how long and when to enable the buzzer when motion is detected (Disable, 10sec, 20sec, 40sec, 1min).
- **Alarm Out:** This can be used to match the correct external alarm sensor number.
- **Latch time:** This can be used to set the external sensor alarm time when motion is detected (10sec, 20sec, 40sec, 1min).
- **Record:** This can be used to select the channels to be recorded following the alarm detected by the NVR from the displayed list.
- **Post Recording:** it is possible to set the duration of the recording after the Motion alarm has ended (30sec, 1min, 2min, 5min).
- **Show Message:** This is used to set the appearance of the icon on the screen when a motion alarm is detected. For icon types, see section **"Live interface and pop-up menu"**
- **Send Email:** This can be used to send alarm images to the configured email addresses (for more information, see **"Email"**).
- **FTP Picture Upload:** This can be used to send the image to the FTP server in case of Motion alarm event.
- **FTP Video to Upload:** This can be used to send the video to the FTP server in case of Motion alarm event.
- **Picture to Cloud:** This can be used to send the picture to Cloud Server in case of Motion alarm event.
- **Video to Cloud:** This can be used to send the video to Cloud Server in case of Motion alarm event.

- **Full screen:** This can be used to set displaying the video in full screen mode when Motion is detected.
- **Voice Prompts:** This menu allows voice prompts to be set according to time periods: each alarm can support up to 12 time periods.



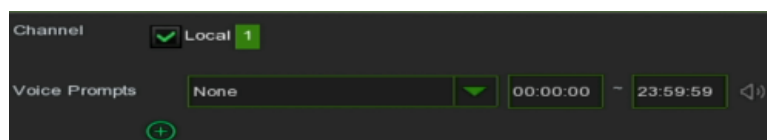
3.7.2 PIR NOTIFICATION

This is an optional function which appears if the camera supports the PIR sensor; PIR alarm devices with external sensor must be connected. Select PIR in the side menu to open a page where to define the methods and actions to be taken in case of PIR alarm detection.

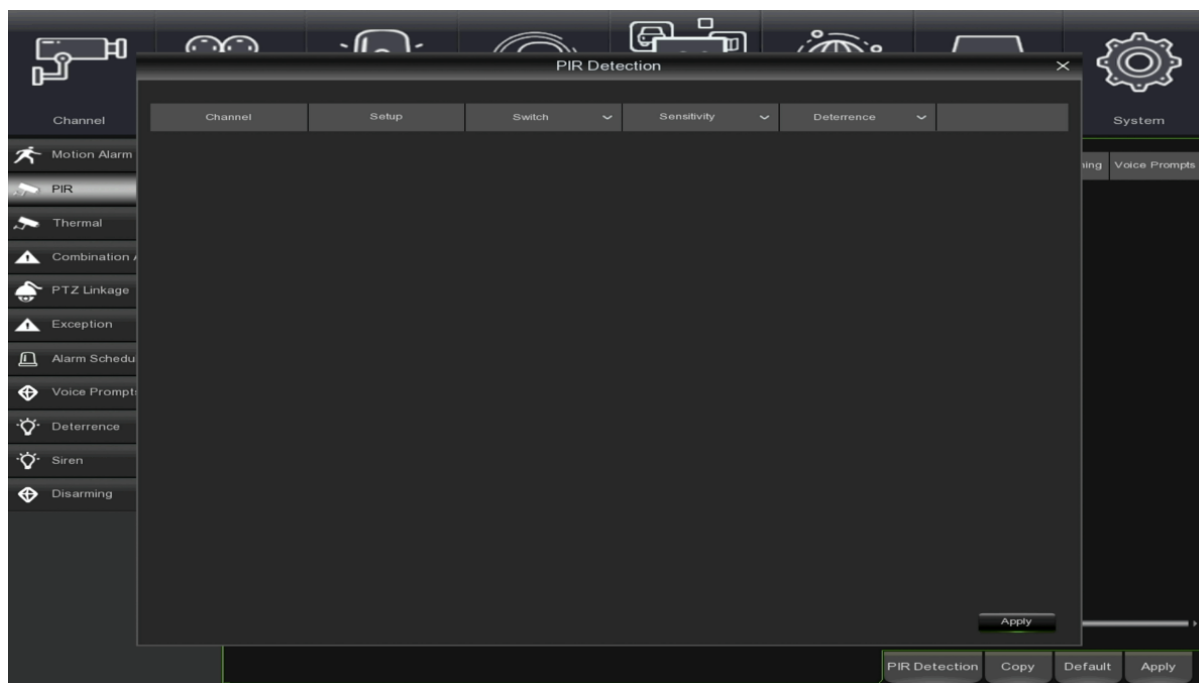


Here is a brief description:

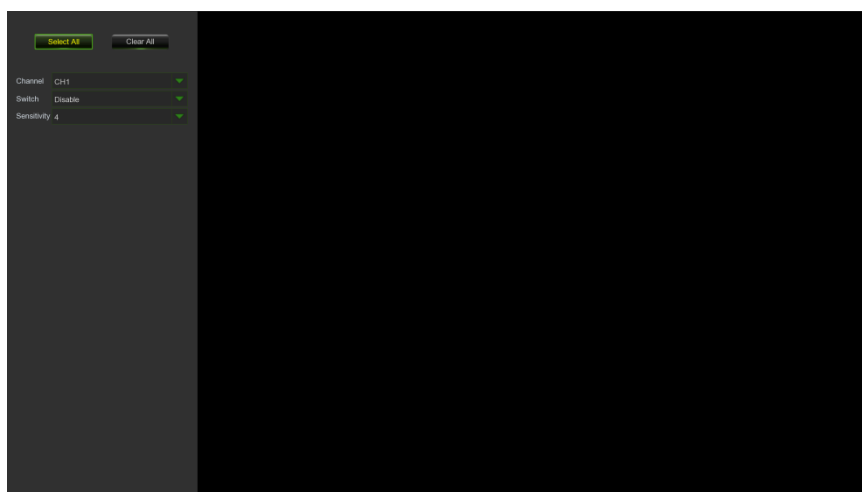
- **Channel:** This is used to select the channel with which the PIR detection function is associated.
- **Buzzer:** This can be used to set whether and how long to enable the buzzer in case of PIR detection (Disable, 10sec, 20sec, 40sec, 1min).
- **Alarm Out:** This can be used to match the correct external alarm sensor number.
- **Latch time:** This can be used to set the external sensor alarm time when a PIR event is detected (10sec, 20sec, 40sec, and 60sec).
- **Record Channel:** This can be used to select the channels to be recorded following the PIR alarm detected by the NVR from the displayed list.
- **Post Recording:** This can be used to set the recording time at the end of the PIR alarm (10sec, 30sec, 1min, 2min, 5min).
- **Show Message:** This can be used to show the icon on the screen when PIR alarm is detected. For icon types, see section "Live interface and pop-up menu"
- **Send Email:** This can be used to send alarm images to the configured email addresses (for more information, see the section "Email").
- **FTP Picture Upload:** This can be used to send the image to the FTP server in case of PIR event.
- **FTP Video to Upload:** This can be used to send the video to the FTP server in case of PIR event.
- **Picture to Cloud:** This can be used to send the image to Cloud Server in case of PIR event.
- **Video to Cloud:** This can be used to send the video to Cloud Server in case of PIR event.
- **Full screen:** This can be used to set displaying the video in full screen mode when a PIR event is detected.
- **Voice Prompts:** This menu allows voice prompts to be set according to time periods: each alarm can support up to 12 time periods.



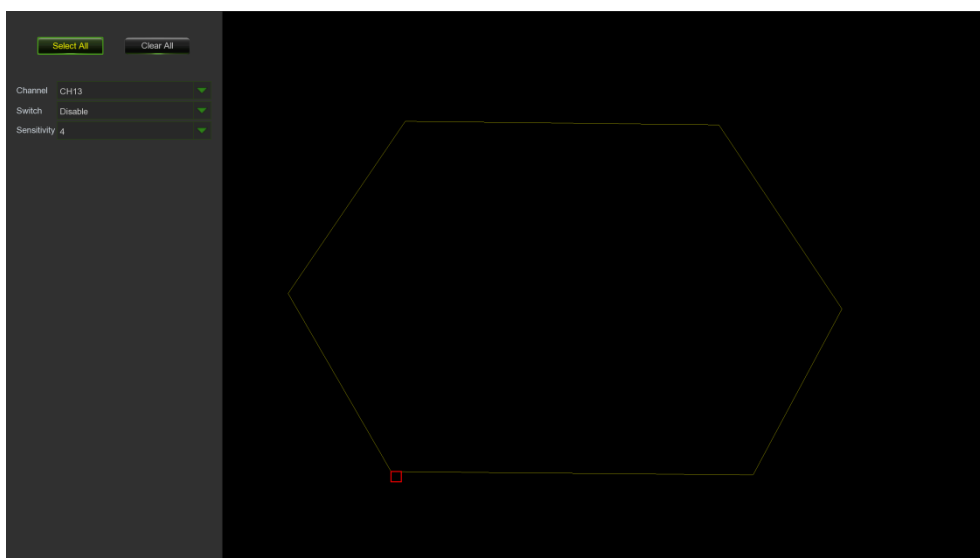
- **PIR Detection:** Click on **PIR Detection** and then click on setup to configure the motion detection PIR function:



- Channel : Show the IP channel
- [Gear Icon] : configure monitor area for PIR



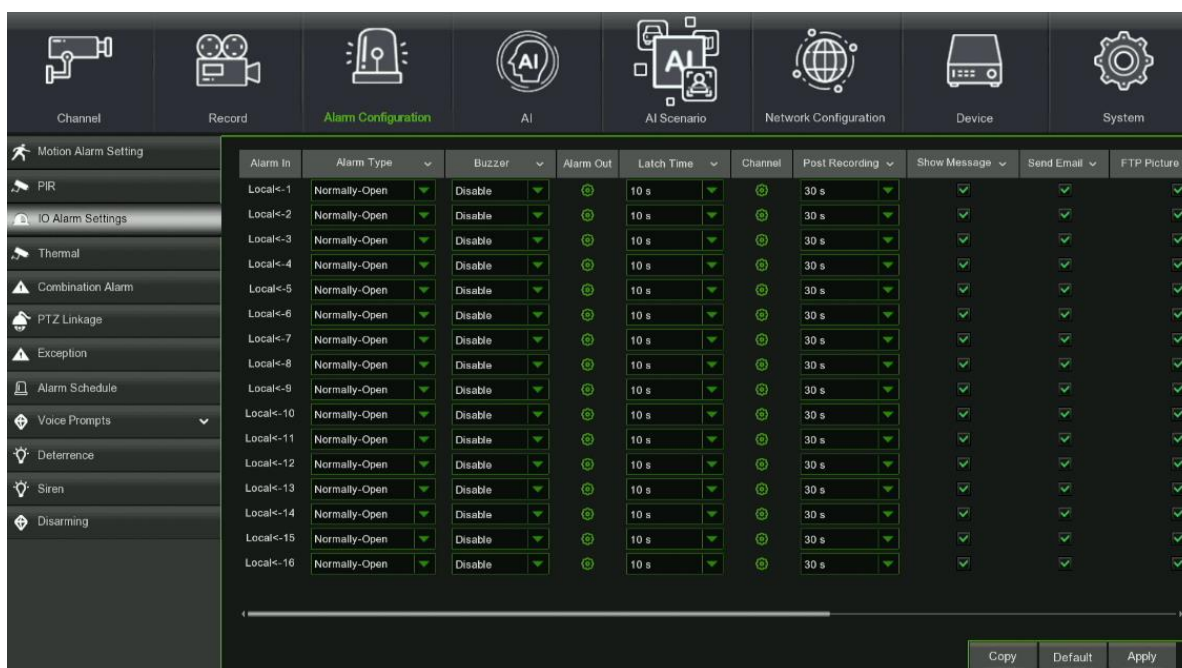
- You can set an area for motion detection PIR function by clicking on:



- **Copy:** This can be used to copy current channel parameters to any other channel or to all channels.
- **Default:** This can be used to restore the default alert settings.

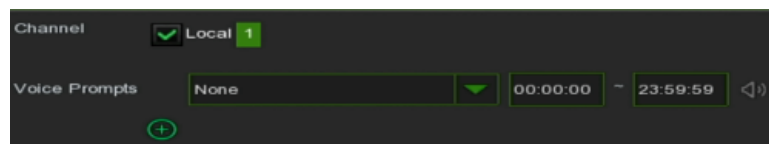
3.7.3 I/O ALARM SETTINGS

On this page, it is possible to configure alarm notification from an input of the NVR's I/O interface.



- **Alarm In:** Displays the NVR's alarm input number.
- **Alarm Type:** Set the input type between NC (Normally Closed), NO (Normally Open) and OFF (Off).
- **Buzzer:** You can set whether and how long to enable the buzzer when an alarm is detected on the input (Disable, 10sec, 20sec, 40sec, 1min).
- **Alarm Out:** Allows an alarm output to be matched to the selected channel in the event of an I/O alarm.
- **Latch time:** Allows you to set the duration of the I/O alarm (10sec, 20sec, 40sec, 1min).
- **Channel:** The channel to be recorded can be selected.
- **Post Recording:** it is possible to set the duration of recording after the I/O alarm is over (30sec, 1min, 2min, 5min)
- **Show Message:** You can set the icon to appear on the screen when an input alarm is detected. For icon types, see section "Live Interface and Pop-up Menu".
- **Send Email:** allows alarm images to be sent to the configured email addresses (for more information, see the "Email (E-mail)" section).
- **FTP Picture Upload:** Send the picture to the FTP server in case of an I/O event.
- **FTP Video to Upload:** Send the video to the FTP server in case of I/O event.
- **Picture to Cloud:** Send the picture to the Cloud server in case of I/O event.
- **Video to Cloud:** Send the video to the Cloud server in case of an I/O event.
- **Full screen:** Full screen display can be activated when an input alarm is detected.

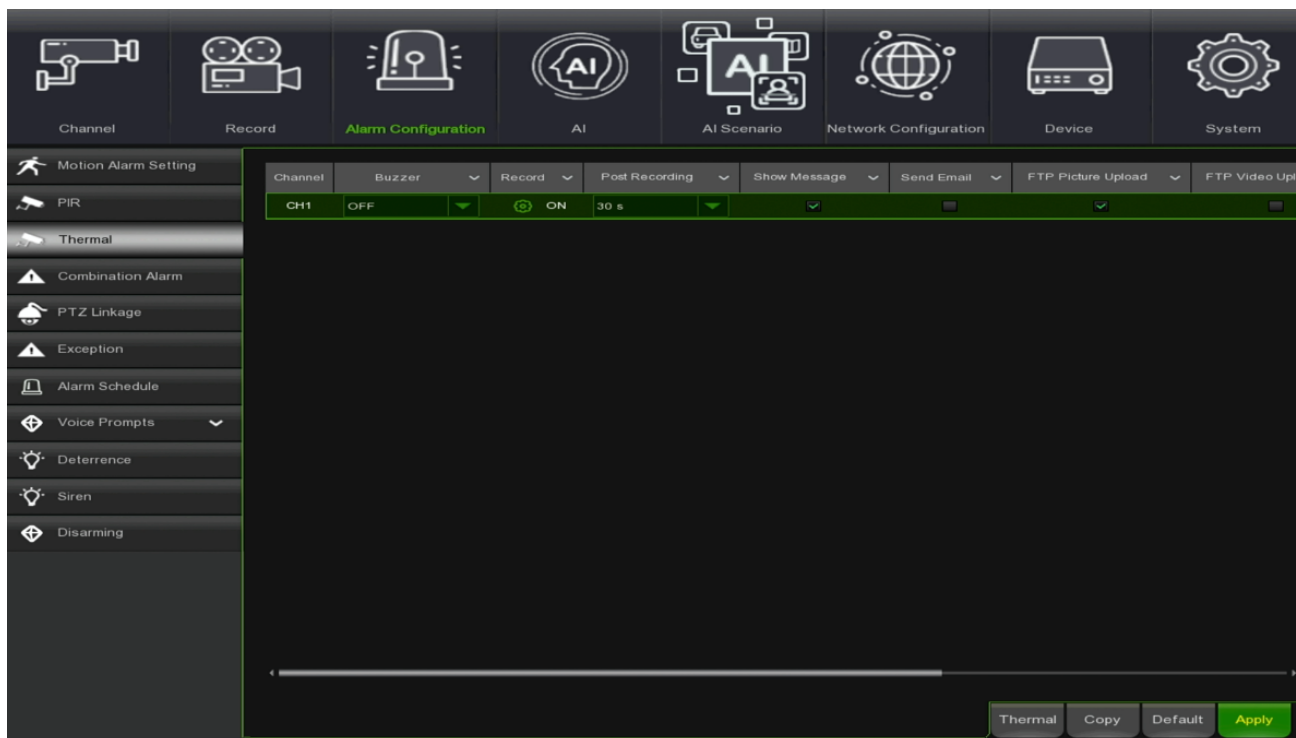
- **Voice Prompts:** This menu allows you to set voice prompts based on time periods: each alarm can support up to 12 time periods.



The screenshot shows a configuration interface for voice prompts. At the top, under the 'Channel' section, there is a checked checkbox and the text 'Local 1'. Below this, the 'Voice Prompts' section features a dropdown menu currently set to 'None', followed by a time range from '00:00:00' to '23:59:59'. A speaker icon is positioned to the right of the time range. A green plus sign in a circle is located at the bottom left of the interface.

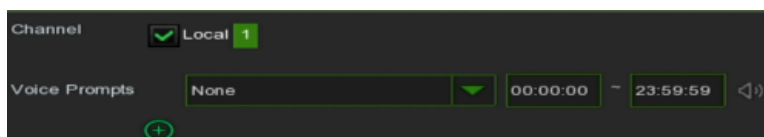
3.7.4 THERMAL

Read the description under the following figures for this menu page: At this point, the alarms can be set according to the different states.



Here is a brief description:

- **Channel:** you can select the channel for thermal camera.
- **Buzzer:** This can be used to program the time of the auditory signal generated when a thermal alarm is detected (OFF, 10sec, 20sec, 40sec, 1min).
- **Record:** allows you to select, from the displayed list, the channels to be recorded following the heat alarm.
- **Post Recording:** This can be used to set the recording time at the end of the alarm (10sec, 30sec, 1min, 2min, 5min).
- **Show Message:** This can be used to set the appearance of the icon on the screen when a thermal alarm is detected. For icon types, see section “Live interface and pop-up menu”
- **Send Email:** This can be used to send alarm images to a specific email address (for more information, see "Email").
- **FTP Picture Upload:** This can be used to send the image to the FTP server in case of thermal alarm event.
- **FTP Video to Upload:** This can be used to send the video to the FTP server in case of thermal alarm event.
- **Picture to Cloud:** This can be used to send the image to Cloud Server in case of thermal alarm event.
- **Video to Cloud:** This can be used to send the video to Cloud Server in case of thermal alarm event.
- **Full screen:** This can be used to set displaying the video in full screen mode when an alarm event is detected.
- **Voice Prompts:** This menu allows voice prompts to be set according to time periods: each alarm can support up to 12 time periods.

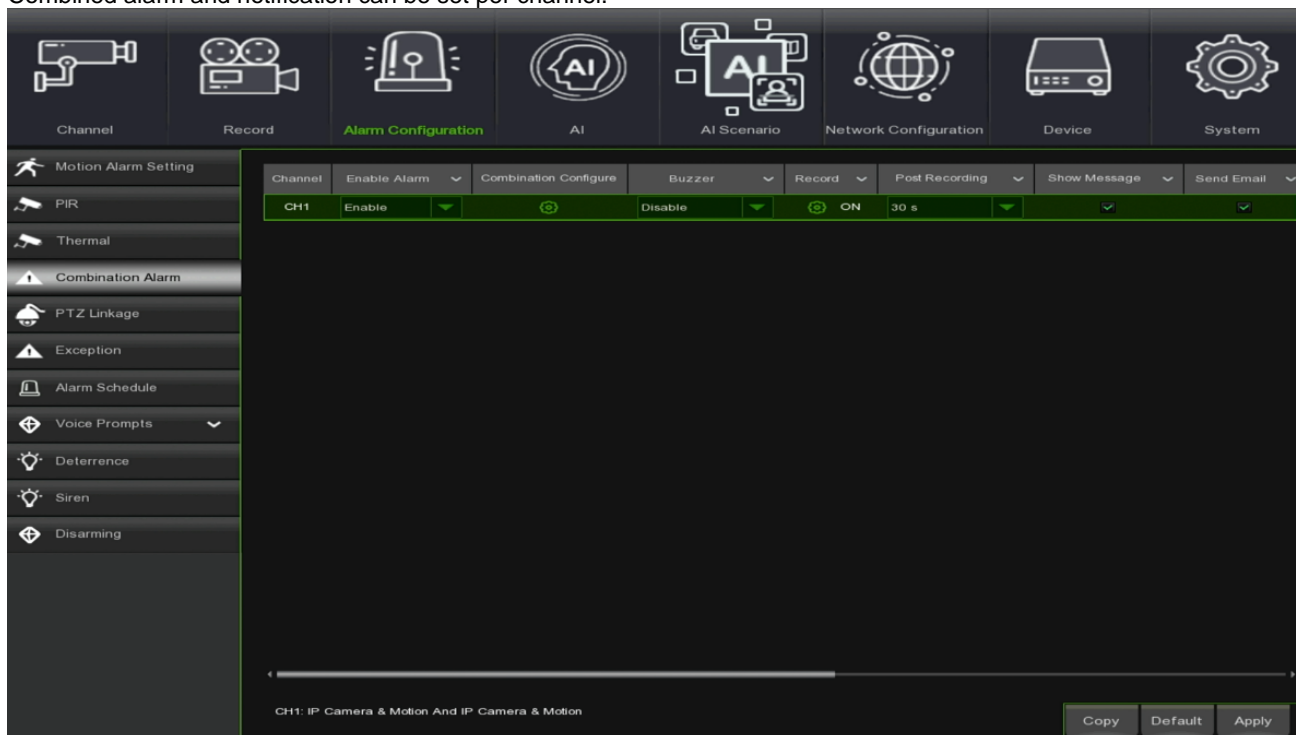


- **Copy:** This can be used to copy the thermal parameters to any other thermal cameras.
- **Default:** This can be used to restore the default alert settings.
- **Apply** to save the changes.

Alarm type	Function
Motion/PIR	The alarm trips when an object moves in the motion detection area. The sensitivity level can be adjusted according to application needs.
Thermal	The system can convert the alarm signal emitted by the thermal imaging camera into a signal that can be identified by the system.

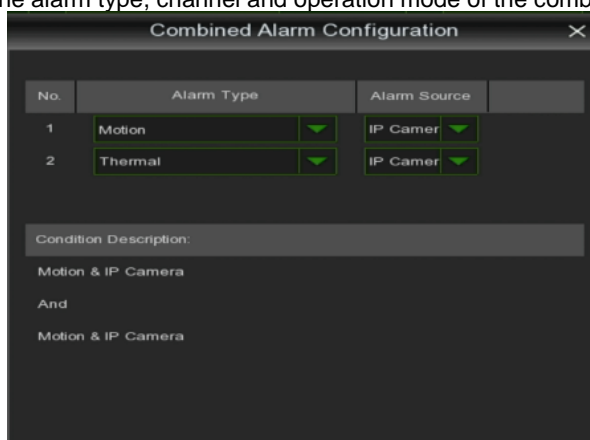
3.7.5 COMBINATION ALARM

Combined alarm and notification can be set per channel.

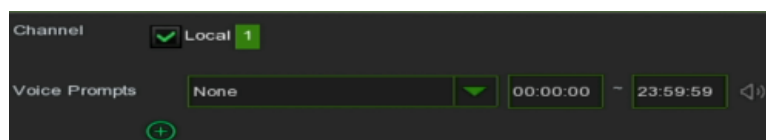


Here is a brief description:

- **Channel:** This can be used to select the channel with which the function of combination alarm is associated.
- **Enable Alarm:** Enables the combined alarm.
- **Combination Configure:** The alarm type, channel and operation mode of the combination alarm can be chosen.



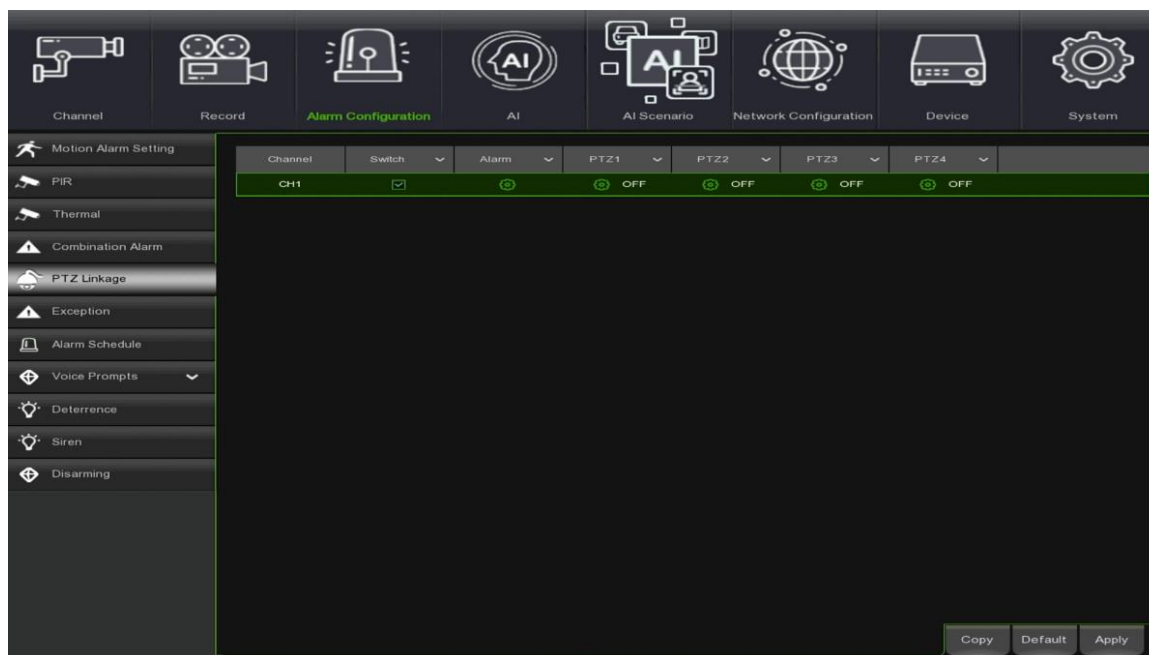
- **Buzzer:** This can be used to set whether and how long to enable the buzzer when a combination alarm event is detected (Disable, 10sec, 20sec, 40sec, 1min).
- **Record Channel:** This can be used to select the channels to be recorded following a combination alarm event detected by the NVR from the displayed list.
- **Post Recording:** This can be used to set the recording time at the end of the alarm (10sec, 30sec, 1min, 2min, 5min).
- **Show Message:** This can be used to show the icon on the screen when a combination alarm is detected. For icon types, see "Live interface and pop-up menu"
- **Send Email:** This can be used to send alarm images to a specific email address (for more information, see "Email").
- **FTP Picture Upload:** This can be used to send the image to the FTP server in case of combination alarm event.
- **FTP Video to Upload:** This can be used to send the video to the FTP server in case of combination alarm event.
- **Picture to Cloud:** This can be used to send the image to Cloud Server in case of combination alarm event.
- **Video to Cloud:** This can be used to send the video to Cloud Server in case of a combination alarm event.
- **Full screen:** This can be used to set displaying the video in full screen mode when a combination alarm event is detected.
- **Voice Prompts:** This menu allows voice prompts to be set according to time periods: each alarm can support up to 12 time periods.



- **Copy:** This can be used to copy current channel parameters to any other channel or to all channels.
- **Default:** This can be used to restore the default alert settings.
- **Apply** to save the changes.


3.7.6 PTZ LINKAGE

A connection may be established between a Speed Dome Camera (if present) and the Motion Detection alarm. This function can be used to move the Speed Dome Camera to the associated preset point when a motion alarm is triggered.



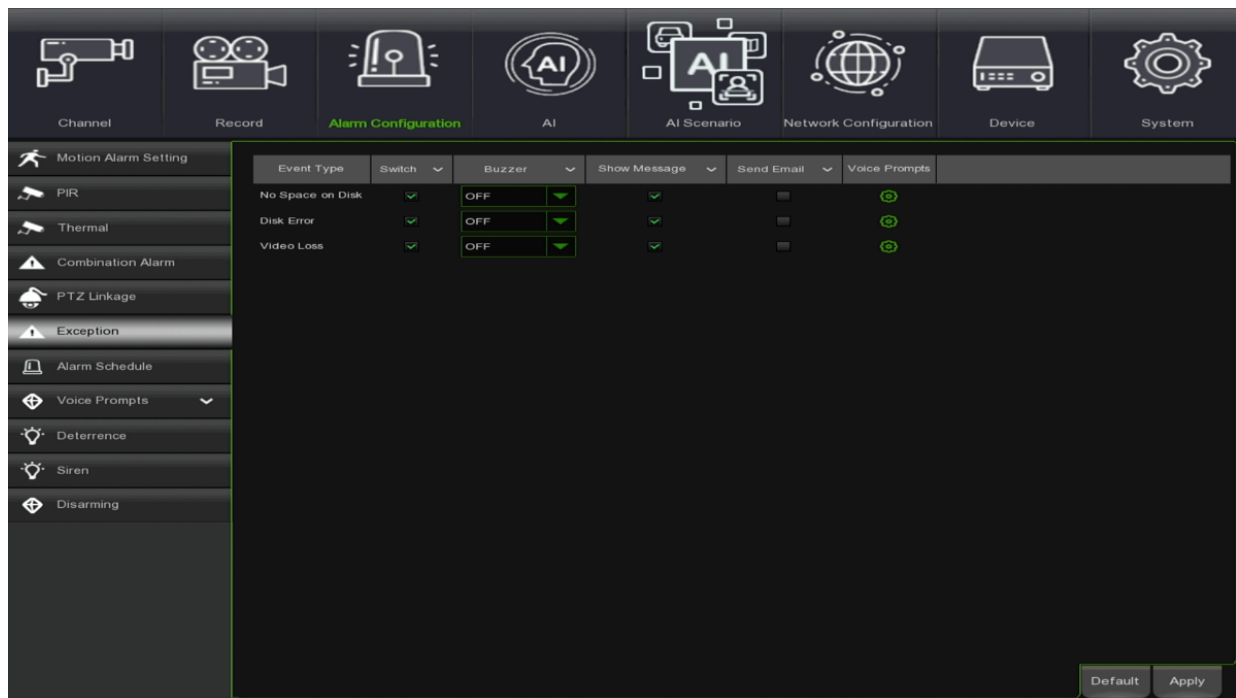
- **Channel:** This is used to select the channel to be set.
- **Switch:** This is used to enable or disable the PTZ linkage function on and off
- **Alarm:** Alarms selected in the window will activate the PTZ link function (if checked).



- **PTZ1...4:** Click on  to associate the PTZ Dome camera with the preset points.
- **Apply** to save the changes.

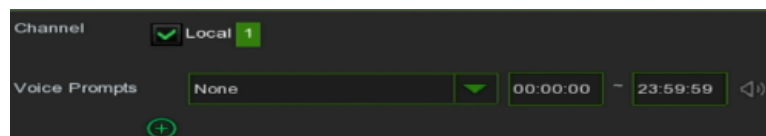
3.7.7 EXCEPTION

This menu can be used to set the event type (e.g. full HDD, disk error, video loss) for which you want to be alerted about by the NVR.



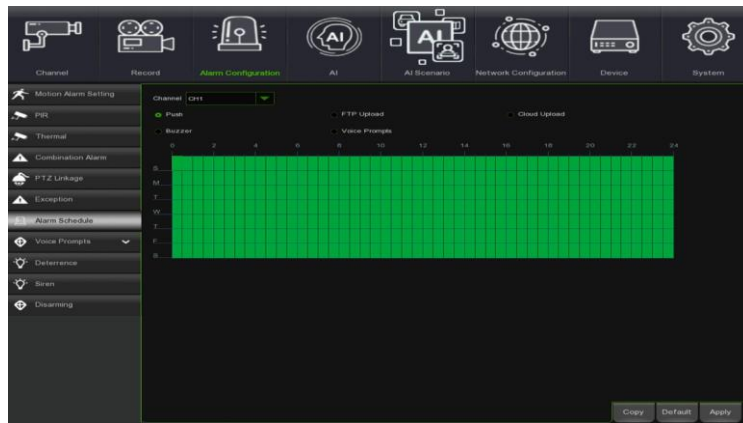
Here is a brief description:

- **Event Type:** Select the event type from the following options:
 - **No Space on Disk:** When an HDD is full.
 - **Disk Error:** When the HDD is not correctly detected.
 - **Video Loss:** If a camera is not connected correctly.
- **Switch:** Check the box to enable event monitoring.
- **Buzzer:** This can be used to set the buzzer time when an event occurs (Off/10s/20s/40s/60s). To exclude the buzzer, select OFF.
- **Alarm Out:** This can be used to set to emit an alarm tone if the NVR supports a connection to an external alarm device.
- **Latch Time:** This is an optional function. This can be used to determine the time of the external alarm device sound signal (10s, 20s, 40s, 60s) if the NVR supports such a connection.
- **Show Message:** Check the box to display a message in case of No Space on Disk (Disk Error or Video Loss). For icon types, see “**Live interface and pop-up menu**”
- **Send Email:** This can be used to allow the NVR to send an automatic email in case of an event (for more information, see “**Email**”).
- **Voice Prompts:** This menu allows voice prompts to be set according to time periods: each alarm can support up to 12 time periods.



3.7.8 ALARM SCHEDULE

This function can be used to program the alarm notifications (Buzzer, Push, FTP Upload, Cloud Upload) for each channel.



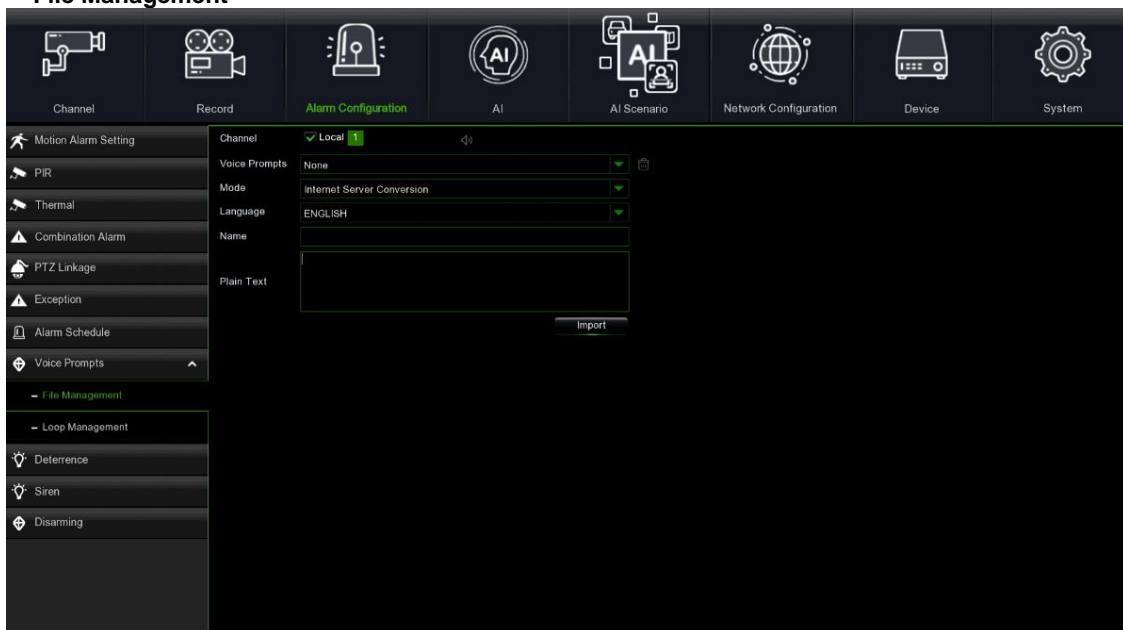
Here is a brief description:

- **Alarm Out:** This can be used to set the alarm output program in case of an event.
- **Push:** Set the program for push notifications to a mobile device in case of an event.
- **Buzzer:** This can be used to set the buzzer program in case of an event.
- **FTP Upload:** Set the FTP Upload program in case of an event.
- **Cloud Upload:** This can be used to set the Upload Cloud program in case of an event.
- **Voice Prompts:** Set the Voice Prompts programme in case of an event.

3.7.9 VOICE PROMPTS

It is possible to upload a customised alarm voice message. The system will automatically or manually play the audio associated with the intrusion event at the scene.

3.7.9.1 File Management



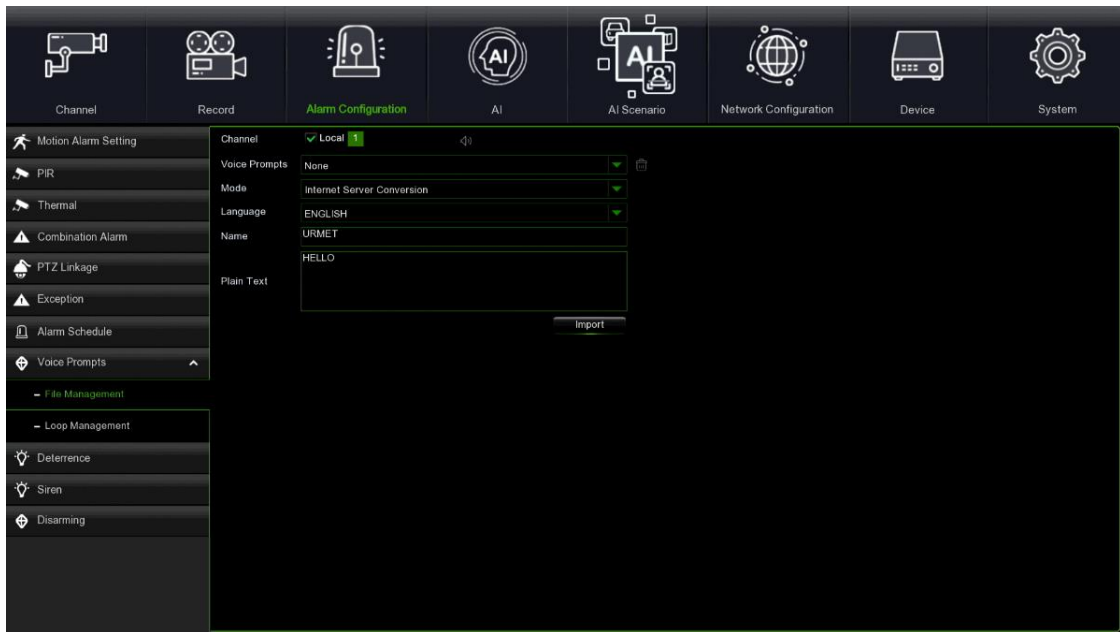
Press on Mode to choose the mode for importing the audio file. There are three modes to choose from:

- **Import Files:** import a file locally (supports MP3, WMA and WAV audio formats)
- **Local Conversion:** enter the text content to be converted into an audio file and automatically save to the hard disk.
- **Internet Server Conversion:** enter the text content that will be sent to the network server for conversion to audio files and automatically saved to the local hard disk.

Local Conversion and Internet Server Conversion have more language and text boxes than the file being imported. The Local Conversion language selection defaults to English and the user cannot choose any other language.

The input box has a maximum allowed length of 1,024 bytes. The import of the audio file, face database and number plate database can be 1~500K in size; the non-face database and number plate database can be 1~5M in size.

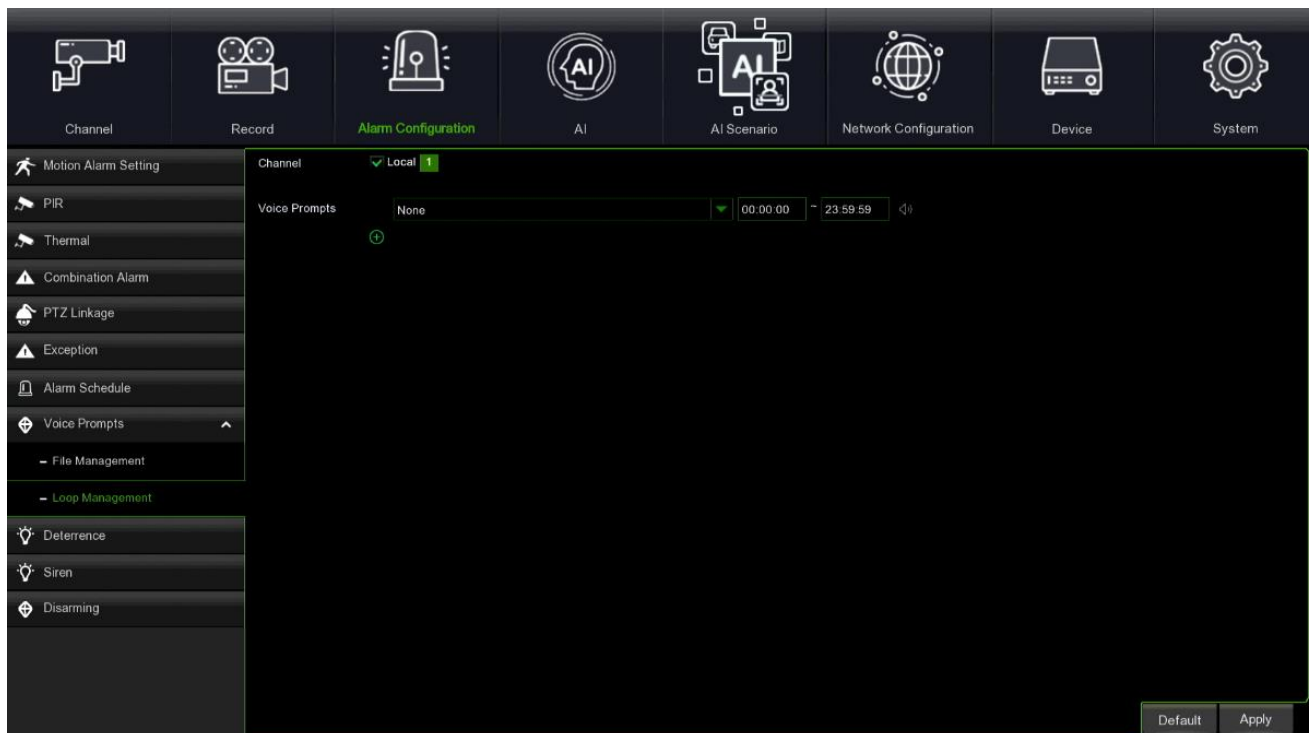
After importing the audio file, you can select the file to be played in the voice prompt. The voice prompt supports two modes, local channel and IPC channel.



Local: Local transmission. When this transmission mode is chosen, the audio output is connected to the side of the device.
IPC: transmission from network camera. Choosing this transmission mode requires that the camera supports the voice transmission function and has an audio output.

It is possible to set voice messages according to time periods: each alarm can support up to 12 time periods.

3.7.9.2 Loop Management



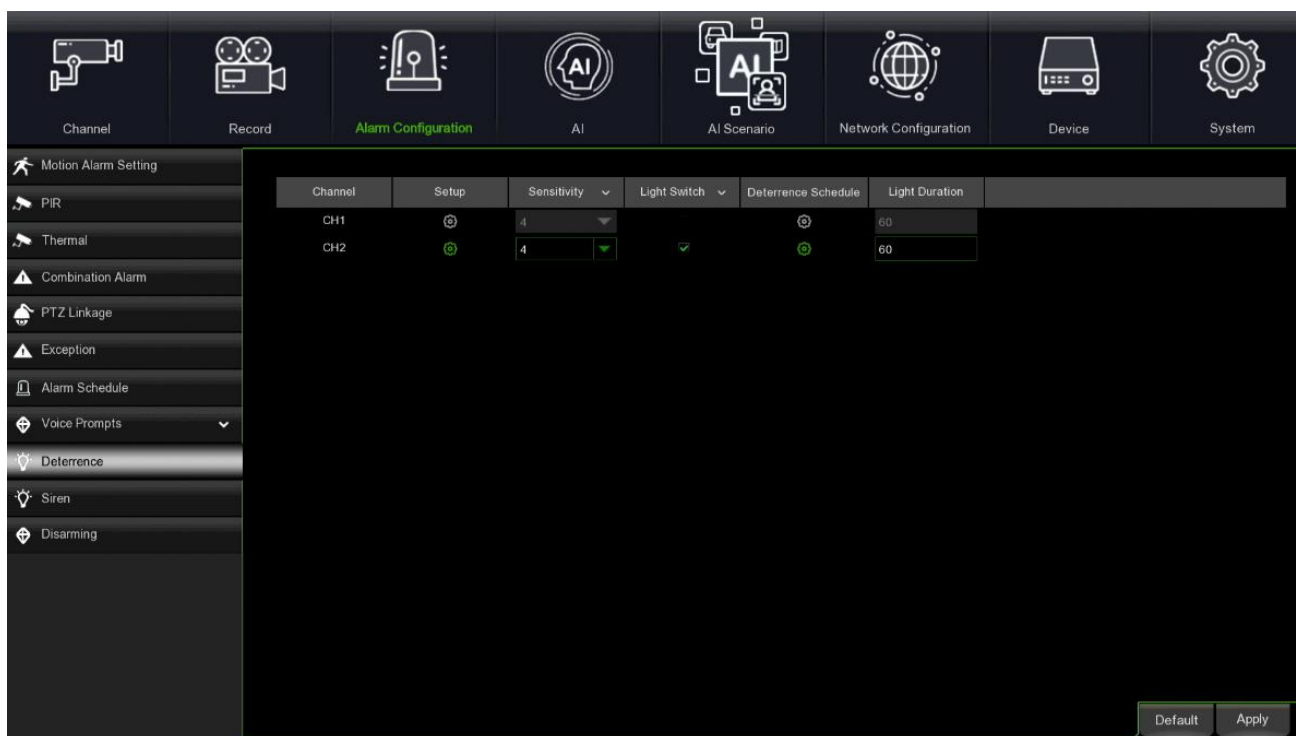
Once the audio file has been selected, it is possible to set the period of time during which the audio file is played repeatedly without an alarm or without listening to the audio file itself, up to a maximum of 12 settable time periods.

Local: Local transmission. When this transmission mode is chosen, the audio output is connected to the side of the device.

IPC: transmission from network camera. Choosing this transmission mode requires that the camera supports the voice transmission function and has an audio output.

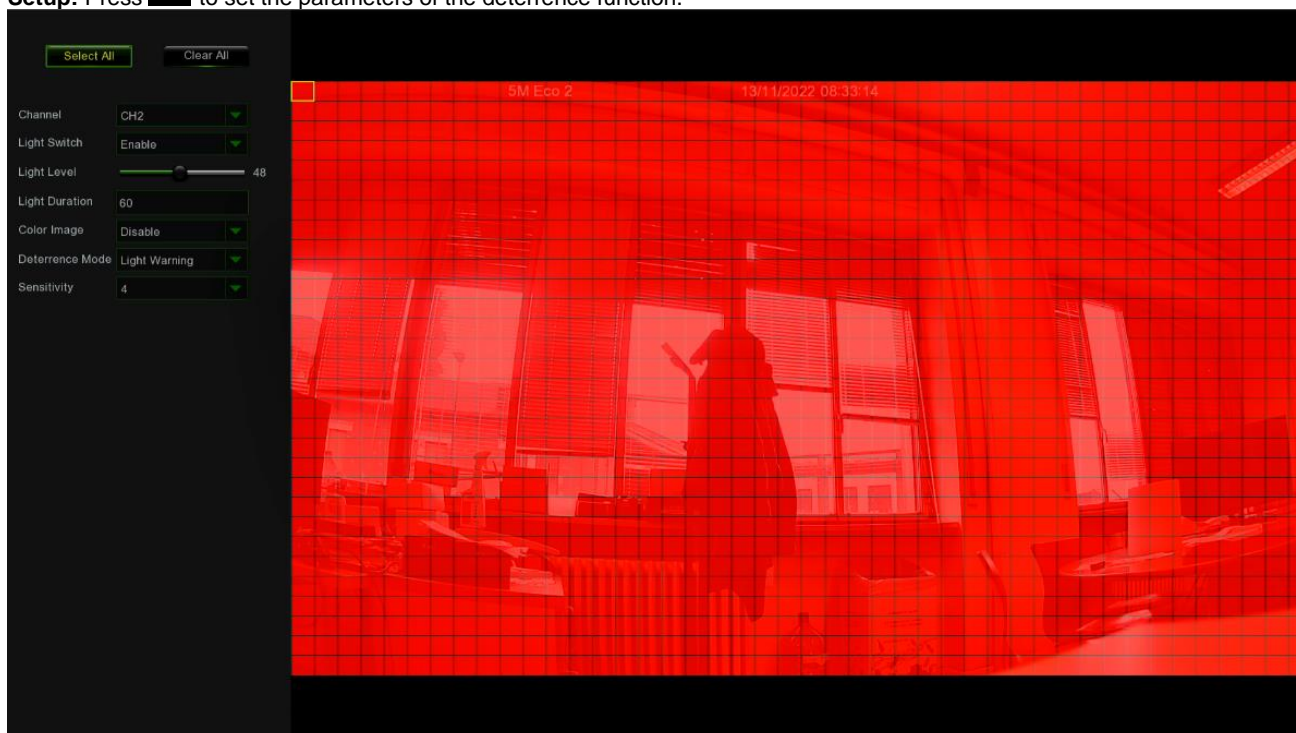
3.7.10 DETERRENCE

The deterrence function allows you to configure certain actions to deter and report abnormal behaviour detected by the camera. This function is only supported for Deterrence cameras.



Channel: Camera name.

Setup: Press to set the parameters of the deterrence function.



Channel: Select the camera you wish to configure.

Light Switch: Press to enable light signalling.

Light Level: The light intensity can be set.

Light Duration: The duration of the light signal can be set.


Colour Image: Only active for cameras with warm lights.

Deterrence mode: It is possible to choose between Light warning and Light strobe.

Strobe frequency: it is possible to choose between high, medium and low.

Sensitivity: The sensitivity of the detection can be set.

Channel	Setup	Sensitivity	Light Switch	Deterrence Schedule	Light Duration
CH1		4			60
CH2		8			60

Deterrence Schedule: by pressing on  you can access the hourly schedule of the deterrence function.



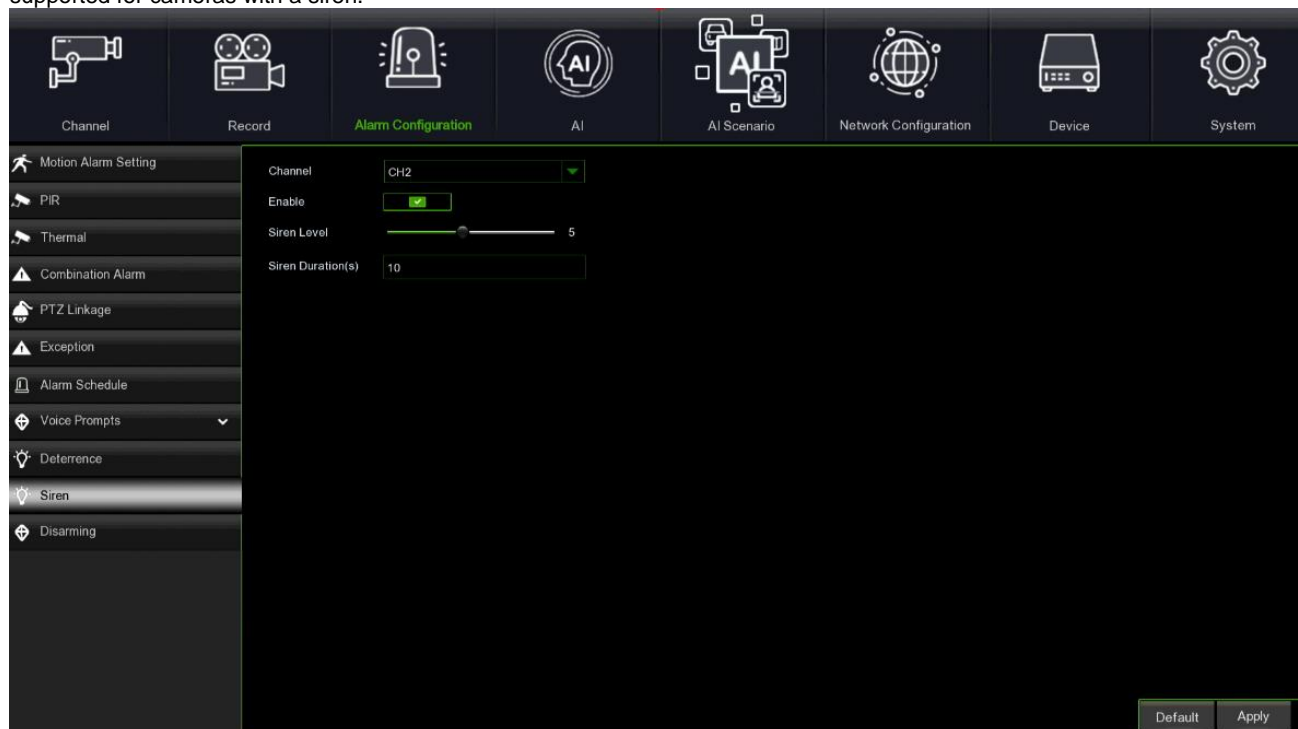
The image shows a 'Deterrence Schedule' window with a grid. The horizontal axis represents hours from 0 to 24 in increments of 2. The vertical axis represents days of the week: S (Sunday), M (Monday), T (Tuesday), W (Wednesday), T (Thursday), F (Friday), and S (Saturday). A red rectangle highlights the first cell in the Sunday row, corresponding to hour 0. At the bottom of the window are three buttons: 'Default', 'Save', and 'Cancel'.

Apply: To save the settings.

Default: to reset settings to factory defaults.

3.7.11 SIREN

The siren function allows you to configure the acoustic warning of abnormal behaviour detected by the camera. This function is only supported for cameras with a siren.



Channel: Select camera.

Enable: Press to enable the function.

Siren Level: Set the intensity of the siren sound.

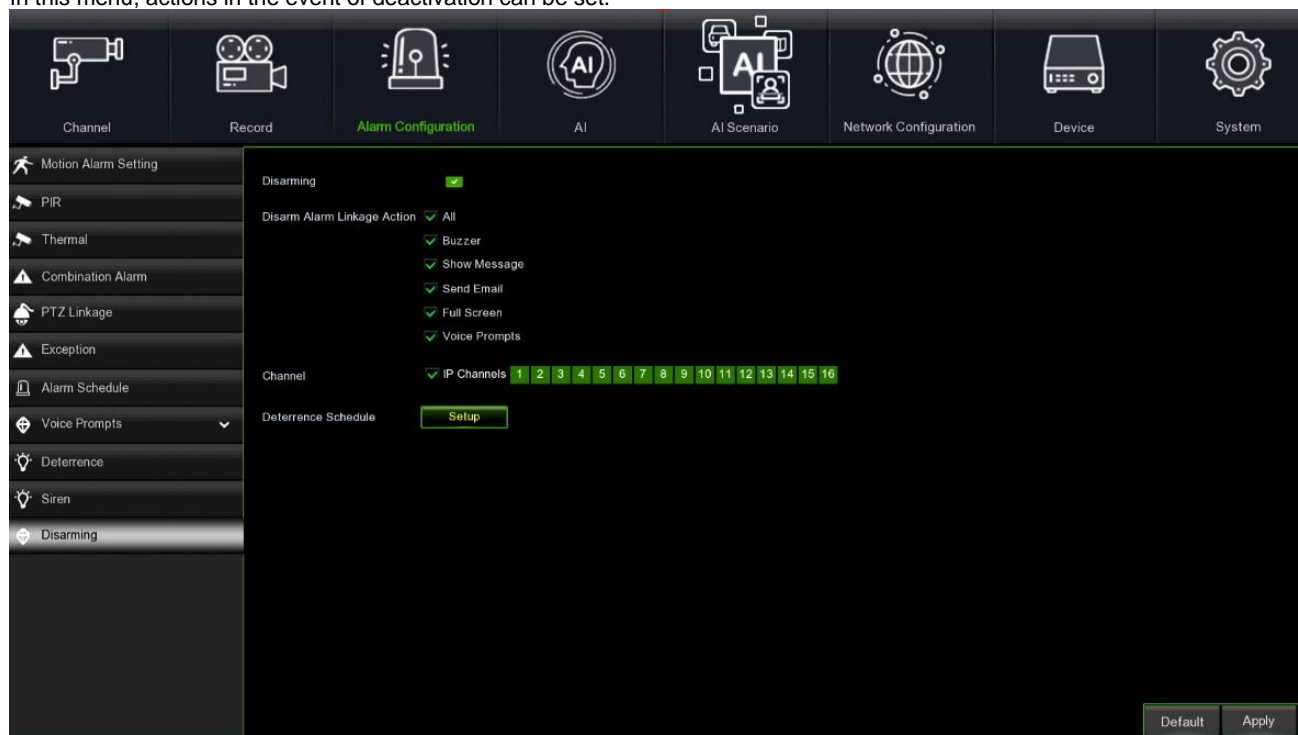
Siren Duration: Set the duration of the siren in seconds.

Apply: To save the settings.

Default: To reset settings to factory default.

3.7.12 DISARMING

In this menu, actions in the event of deactivation can be set.

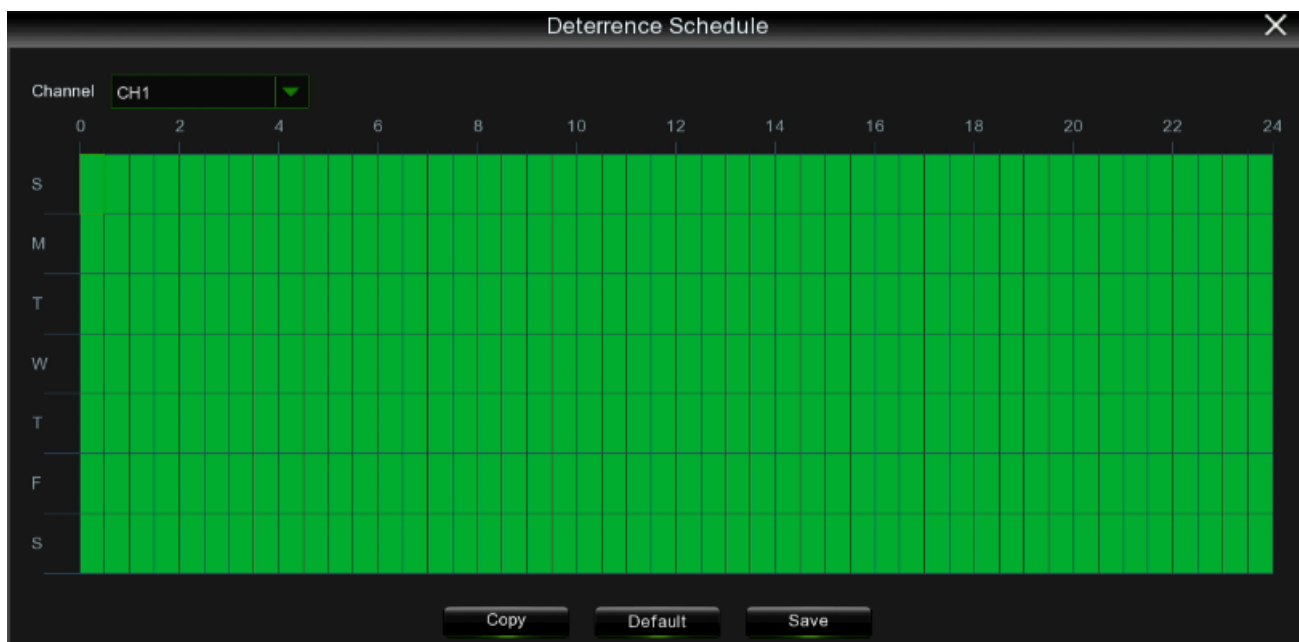


Disarming: Press to enable the function.

Disarming Alarm Linkage Action: You can choose between All, Buzzer, Show Message, Send E-mail, Full Screen, Voice Prompts.

Channel: Select the IP cameras involved in the deactivation.

Disarming Schedule: Pressing on  allows access to the disarming time schedule.



Apply: To save the settings.

Default: to reset settings to factory defaults.

3.8 AI

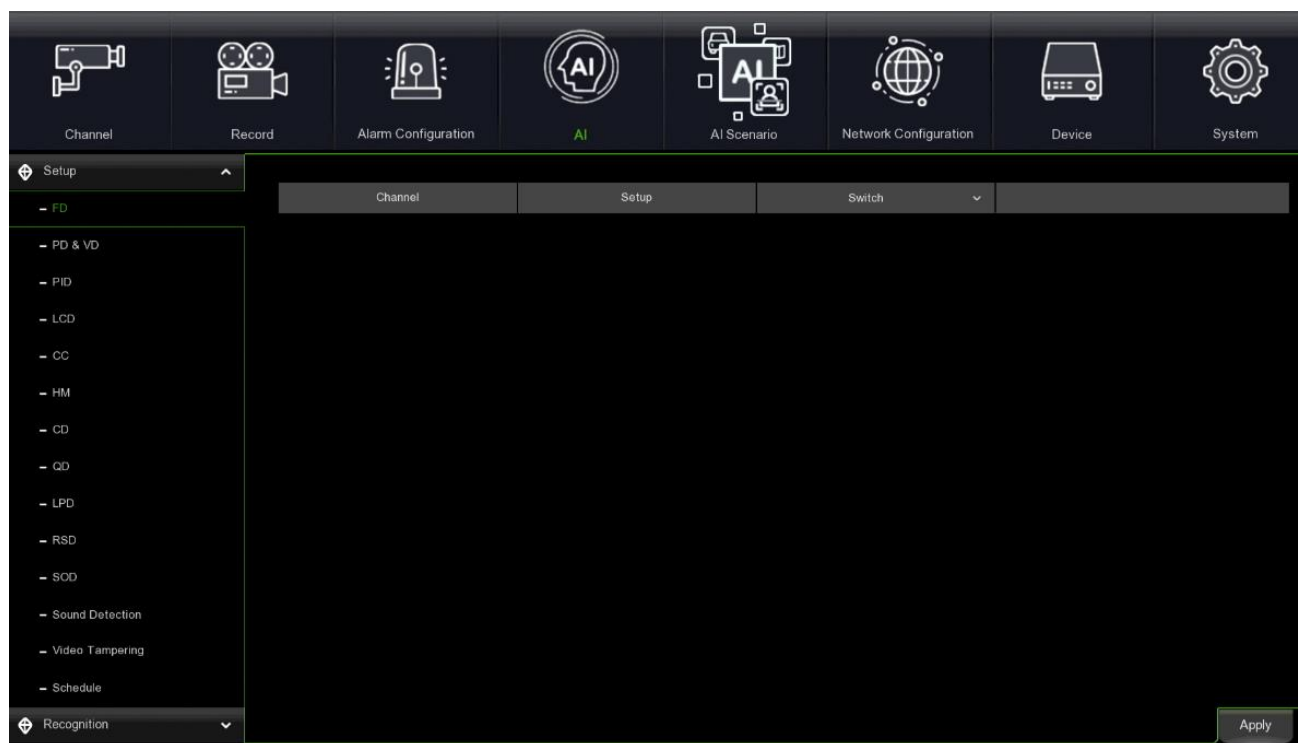
This section can be used to set up intelligent analysis, i.e. systems which generate descriptions of what is happening in the video stream. The submenu is:

1. Setup
2. Recognition
3. Alarm
4. Statistics


3.8.1 SETUP

3.8.1.1 Face Detection

This function detects the faces of moving people appear in a predefined area.



Select **Switch ON** and then **Apply** to enable face recognition.

Select  to configure Face Recognition.



- **Channel:** Select the channel you want to configure.
- **IVA Lines:** Enable or disable the IVA Lines.
- **Snap Mode:** This can be used to select Real Time mode / Optimal mode / Interval mode. By selecting Interval mode, you can set Snap Num 1 ~ 3 and change the Snap interval time

Snap Mode	Interval Mode	▼
Snap Num	1	▼
Snap Frequency	2	s/pic

- **Apply Mode:** This can be used to configure the vision for recognition:
 - **Multi Angle:** Multi-view recognition
 - **Frontal View:** Frontal recognition
 - **Customize:** Recognition with custom configurations
 - **Roll Range:** This can be used to set the range 0~180, the default value is 30.
 - **Pitch Range:** This can be used to set the range 0~180, the default value is 30.
 - **Yaw Range:** This can be used to set the range 0~180, the default value is 45.
 - **Picture Quality:** This can be used to set the range 0~100, the default value is 100.
- **Min Pixel:** This can be used to set the range 32~1080, the default is 64.
- **Face Enhance:** Enable this function for the face recognition enhancement function.
- **Detection Mode:** The Static Mode and Motion Mode options are available.
- **Rule Kind:** Rectangular and Line options are provided.
- **Detection Range:** This can be used to customize the screen area.

1. Enable detection in IVA Lines.
2. Select Snap Mode.
3. Click on four points in the camera picture to draw a virtual line.
4. Click on Save to save the settings.
5. To adjust the size of the area, click on the green box in the area; the edges of the area will turn green. Hold left mouse button pressed to move the entire area.
6. If you want to add a line in addition to the rectangular area select Line in Rule Kind.
7. To remove one of the areas from the camera image, click on the green box in the area and then click on the Remove button. Click on Remove All to delete all areas.

Note:

1. The detection area must not be in the area which is inaccessible to people.
2. The area must include the complete front face.

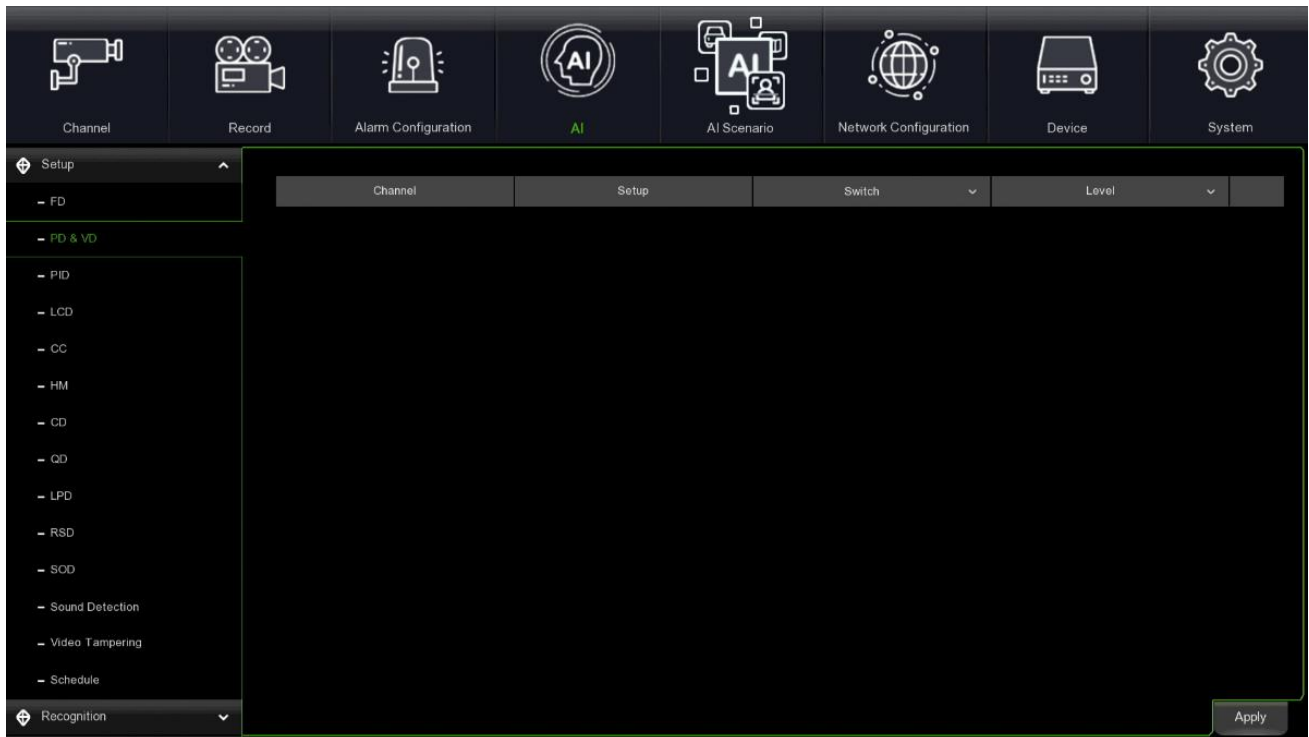


3.8.1.2 PD & VD Pedestrian & Vehicle Detection

This section describes the configurations for vehicle and person recognition.


IMPORTANT NOTE:

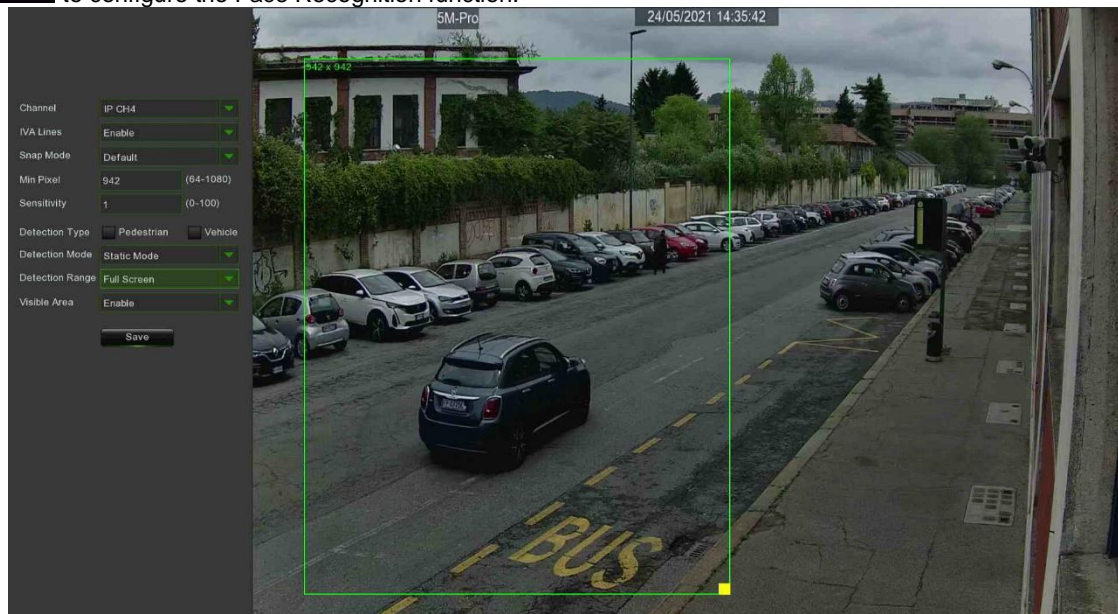
- The AI menu is preset for detection of people and vehicles but the function are available for second generation AI cameras.



- **Channel:** This can be used to select the channel to be configured.
- **Switch:** Enable/Disable the PD & VD function.
- **Level:** Level (Low/Middle/High - Low/Middle/High). Low level is recommended for detecting long-range objects. High level is recommended for detecting short-range objects.
- **Scene:** Shot type (Indoor/Outdoor). Choose the scene consistent with the location where the camera is installed.

Select Switch ON and then Apply to enable facial recognition, also define the level (Low/Middle/High) and the shot type (Indoor/Outdoor).

Select  to configure the Face Recognition function.

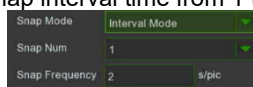


To enable detection in **Rule Switch**.

1. Select a Rule Type, only Normal available for this detection.
 2. Click on four points in the camera picture to draw a virtual line. The sharpness of the area must be a convex polygon. The concave polygon will not be able to save the information.
 3. To remove the areas from the camera image, click on the yellow box in the area and then click on the Remove button.
- Click on **Remove All** to delete all areas.
Click on **Save** to save the settings.

- **Channel:** select the channel to be configured

- **IVA Lines:** enable or disable IVA Lines.
- **Snap Mode:** to select Real Time Mode / Interval Mode, select Interval Mode, you can set Snap Num 1~3 or unlimited (unlimited), you can change the Snap interval time from 1 to 255



- **Min Pixel:** set range 32~1080, default is 64.
- **Sensitivity:** sets the sensitivity level. Level 1 represents the minimum sensitivity level, level 100 is the maximum sensitivity level
- **Detection Type:** Allows detection of vehicles and/or persons
- **Detection Mode:** Allows detection in static or moving mode
- **Detection Range:** Allows you to configure the detection area
- To change the size of the area, click on the red box inside it: the borders of the area will turn red. Hold down the left mouse button to move the whole area or drag the corners to resize it.

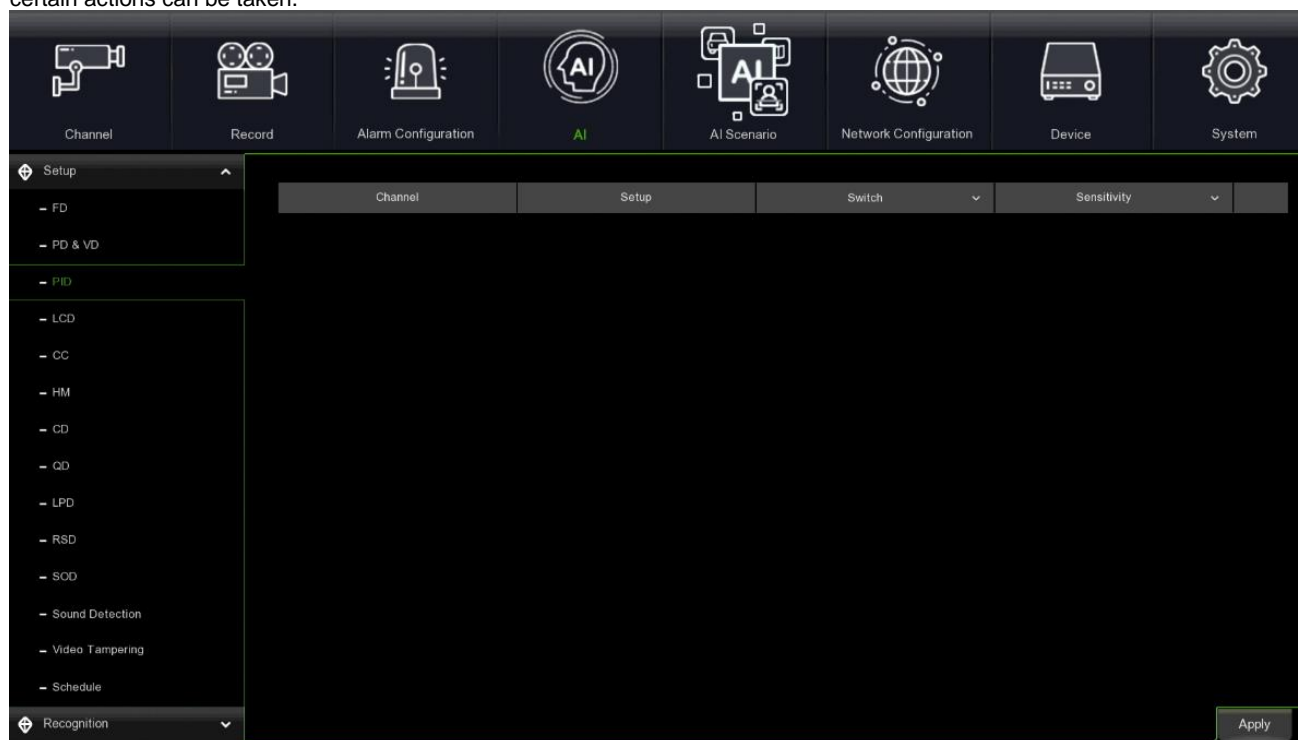
Warning:

- o The detection zone must not be in an area inaccessible to people.
- o Detected persons must be completely within the perimeter of the detection zone.



3.8.1.3 PID Perimeter Intrusion Detection

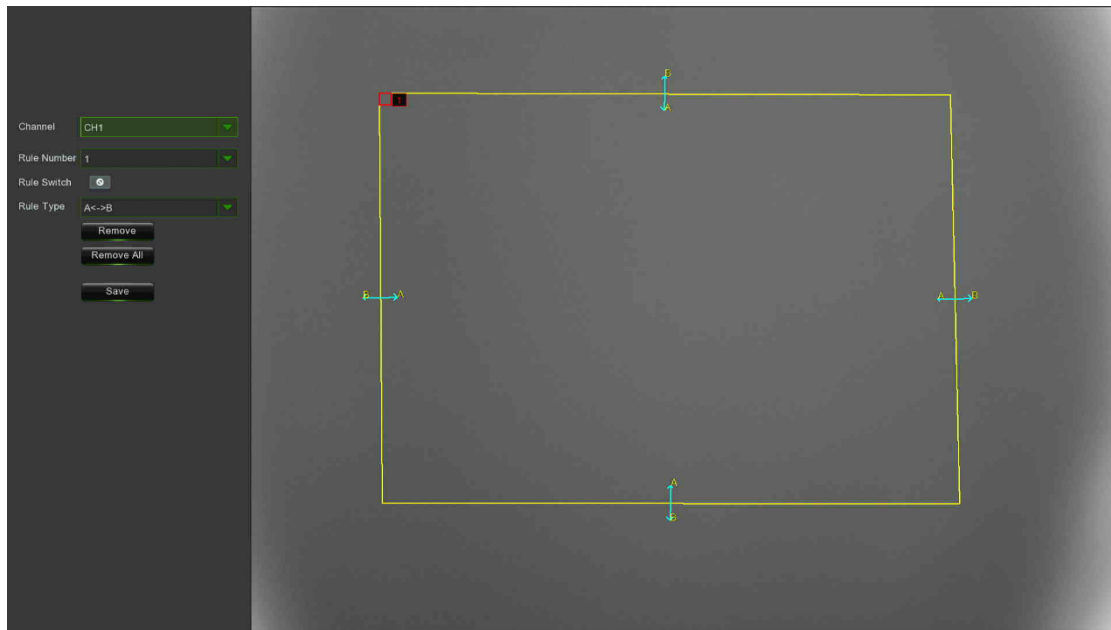
This function detects people, vehicles or other objects entering and lingering in a predefined virtual area; when the alarm is triggered, certain actions can be taken.



- **Channel:** select the channel to be configured
- **Switch:** enable or disable the PID function.
- **Sensitivity:** The sensitivity level is between 1 and 4. Higher sensitivity will make it easier to trigger detection.
- **Scene:** The scene setting has two options: Indoor and Outdoor. Choose the scene consistent with the location where the camera is installed.

Selecting Setup:

- **Channel:** Select the channel to be configured
- **IVA Lines:** enable or disable IVA Lines.
- **Area:** Draw a virtual area in the camera image.



- Choose a **Rule Number**. This is the number of the PID area. A maximum of 4 areas can be set for the PID function.
- Enable detection in Rule Switch.
- Choose **Rule Type**.

A→B: The NVR will only detect action from side A to side B;

B→A: The NVR will only detect action from side B to side A;

A↔B: The NVR will detect action from both side B to side A and side A to side B.

Using the mouse, click on 4 points on the camera image to draw a virtual area. The area must be in the shape of a convex polygon. It will not be possible to save a concave polygon.

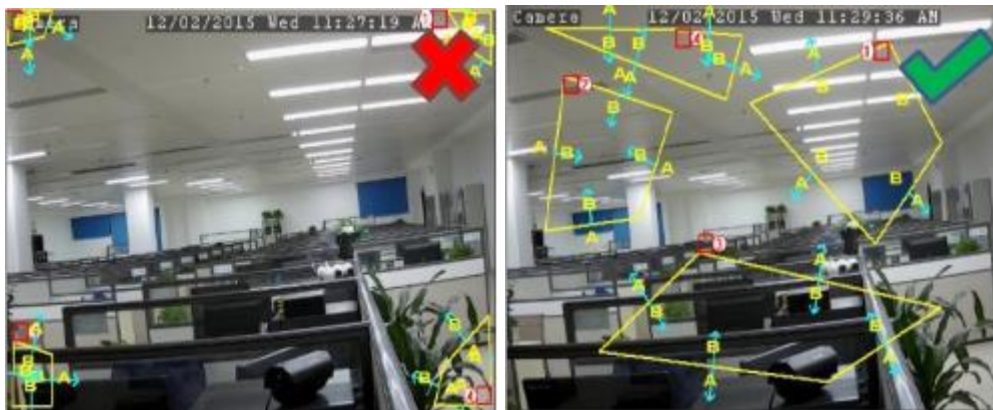
Click on **Save** to save the settings.

To change the position or shape of the area, click on the red box inside it: the edges of the area will turn red. Hold down the left mouse button to move the area or drag the corners to resize it.

To delete one or more areas from the camera image, click on the red box, then click on the **Remove** button. Click **Remove All** to delete all areas.

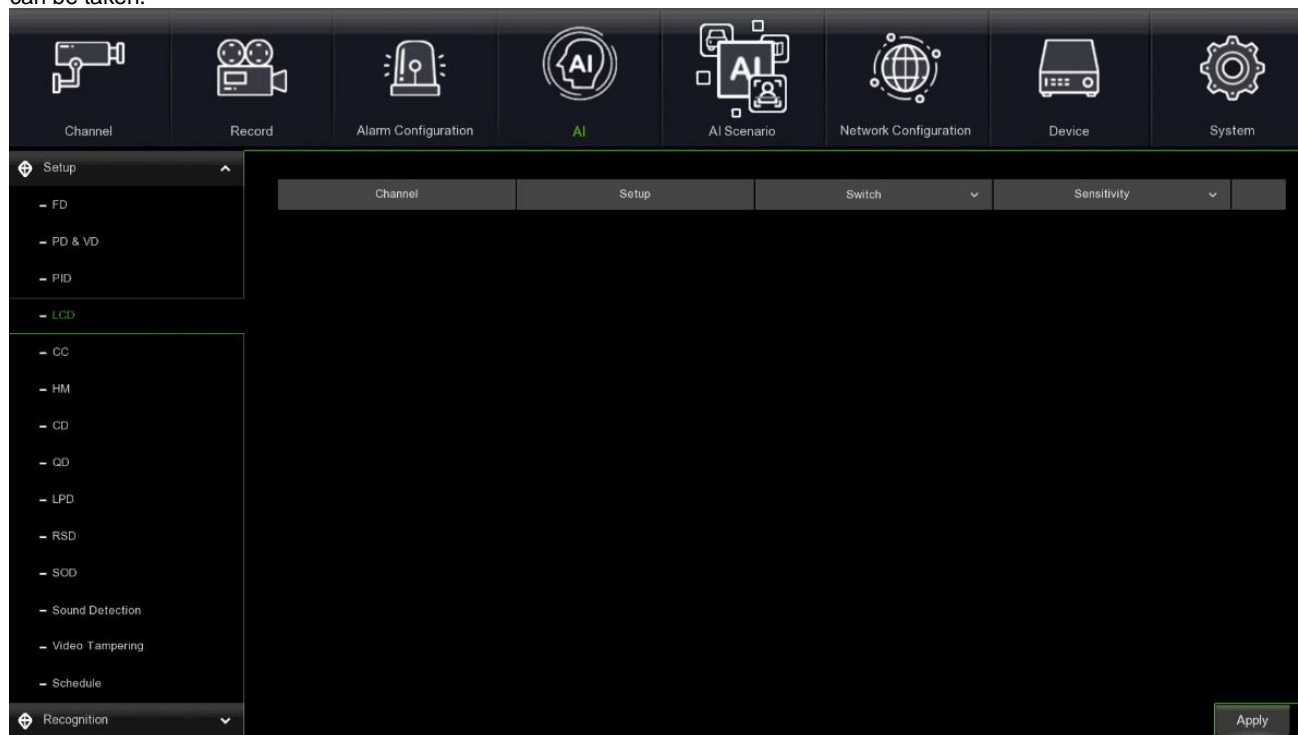
Warning:

- o The perimeter must not be too close to the edges/corners of the camera image, as this may prevent detection when the target crosses the edges/corners.
- o The shape of the areas must not be too narrow/small, as this may prevent detection when the target exits the perimeter.



3.8.1.4 LCD Line Crossing Detection

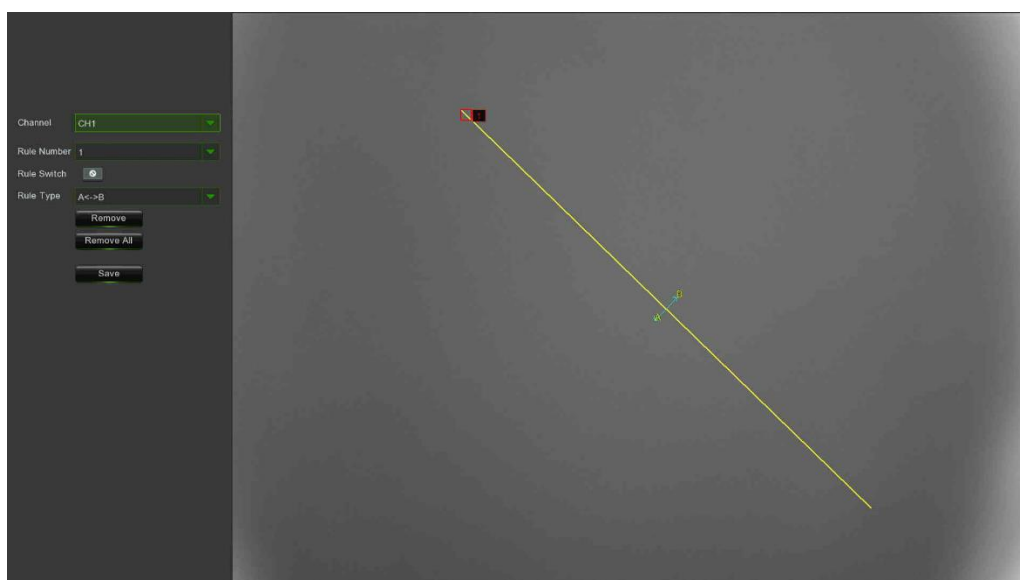
This function detects people, vehicles or other objects crossing a predefined virtual line; when the alarm is triggered, certain actions can be taken.



- **Channel:** select the channel to be configured
- **Switch:** enable or disable the LCD function.
- **Sensitivity:** The sensitivity level is between 1 and 4. Higher sensitivity will make it easier to trigger detection.
- **Scene:** The scene setting has two options: Indoor and Outdoor. Choose the scene consistent with the location where the camera is installed.

Selecting Setup:

- **Channel:** Select the channel to be configured
- **IVA Lines:** enable or disable IVA Lines.
- **Area:** Draw a virtual area in the camera image.



- Choose a **Rule Number**. This is the number of the LCD lines. A maximum of 4 lines can be set for the LCD function.
- Enable detection in Rule Switch.
- Choose **Rule Type**.

A→B: The NVR will only detect action from side A to side B;

B→A: The NVR will only detect action from side B to side A;

A↔B: The NVR will detect action from both side B to side A and side A to side B.

Using the mouse, click on 4 points on the camera image to draw a virtual line.

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

To change the position or length of the line, click on the red box: the line will turn red. Hold down the left mouse button to move the line or drag its ends to change the length or position of the line.

To delete one or more lines from the camera image, click on the red box, then click on the **Remove** button. Click **Remove All** to delete all lines.

Warning:

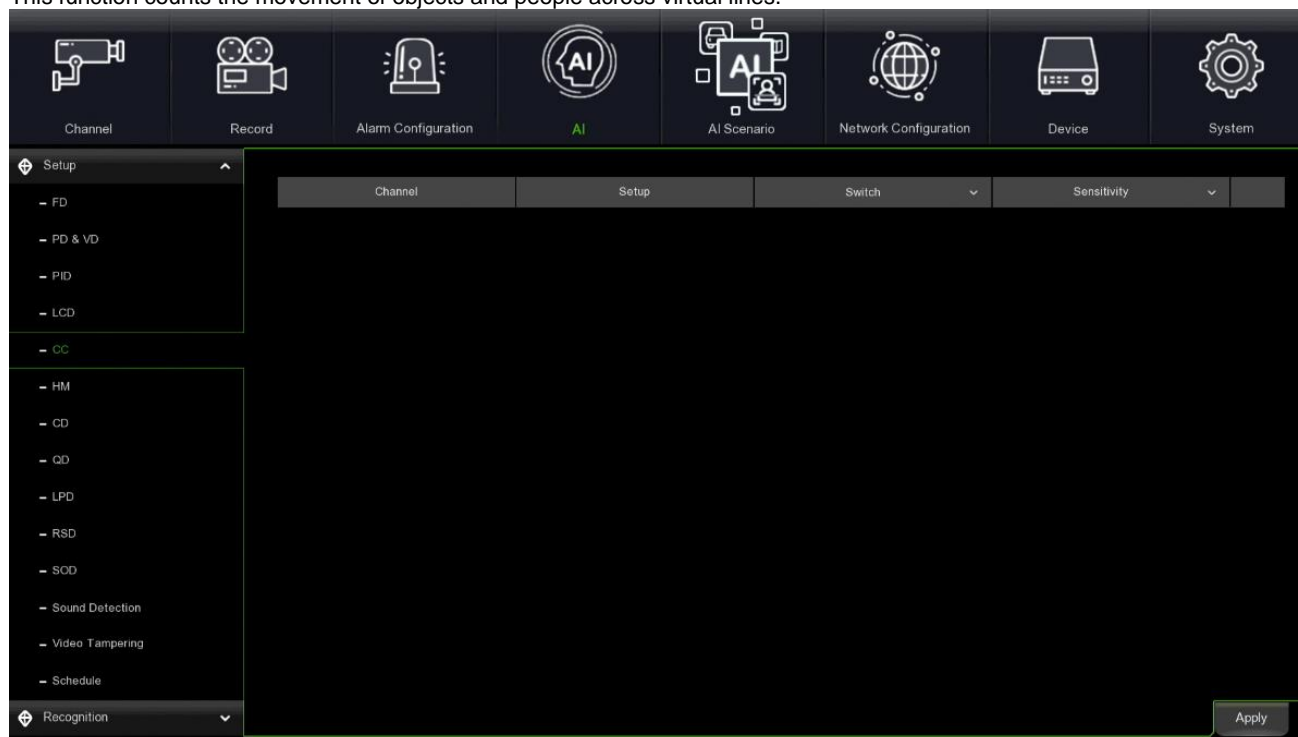
o Lines must not be too close to the edges of the camera image, as this may prevent the alarm from being triggered when the target crosses them.

o Lines must not be too short, as this may prevent the alarm from being triggered when the target crosses them outwards.



3.8.1.5 CC Cross Counting

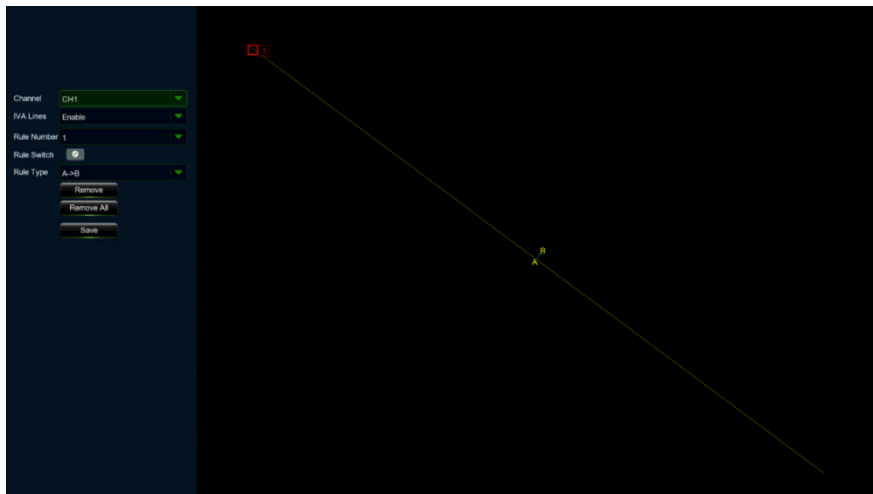
This function counts the movement of objects and people across virtual lines.



- **Channel:** select the channel to be configured
- **Switch:** enable or disable the DC function.
- **Sensitivity:** The sensitivity level is between 1 and 4 (default value: 2). A higher sensitivity will facilitate the triggering of detection

Selecting Setup:

- **Channel:** select the channel to be configured
- **IVA Lines:** enable or disable IVA Lines.
- **Area:** draw a virtual area in the camera image.



Choose a **Rule Number**. This is the maximum number of lines that can be drawn. Maximum 4 lines.

Enable detection in **Rule Switch**.

Choose **Rule Type**.

Using the mouse, click on 2 points on the camera image to draw a virtual line. From side A to side B, this is an input; from side B to side A, this is an output.

Click **Save** to save the settings.

To change the position or length of the line, click on the red box: the line will turn red. Hold down the left mouse button to move the line or drag its ends to change the length or position of the line.

To delete one or more lines from the camera image, click on the red box, then click on the **Remove** button. Click **Remove All** to delete all lines.

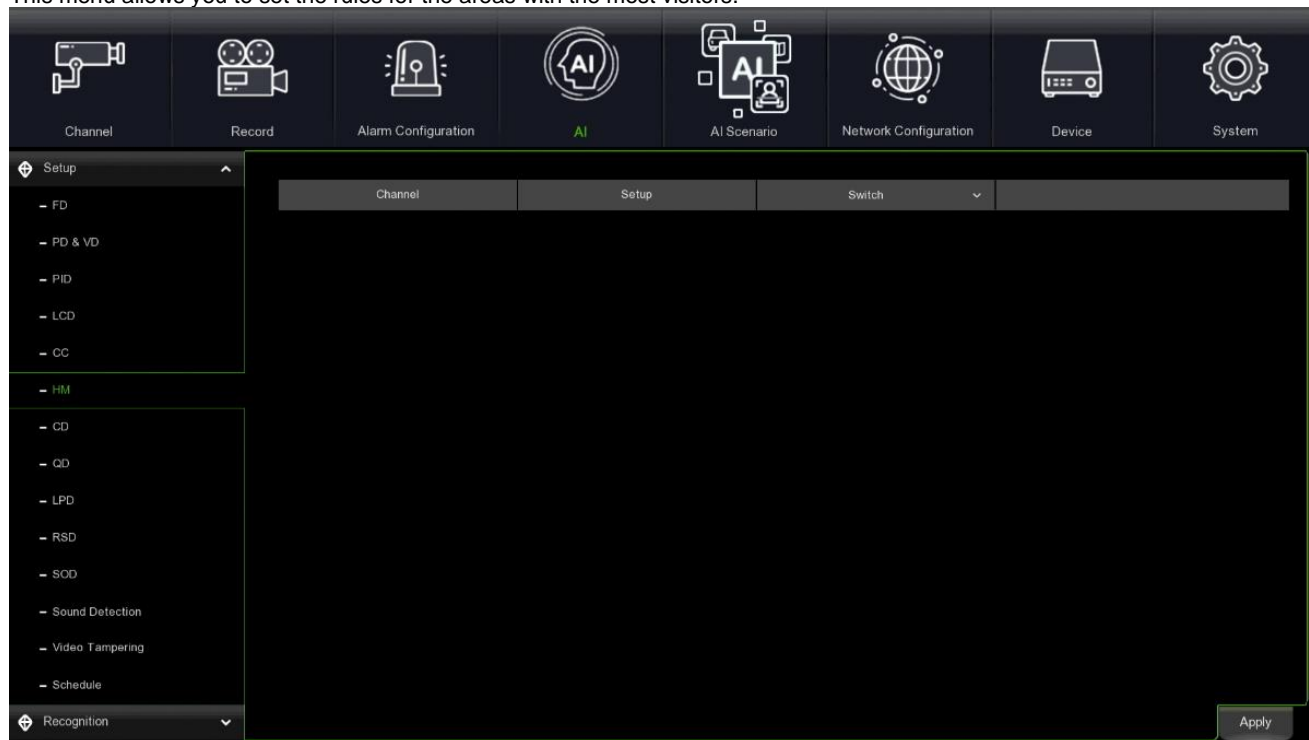
Warning:

- o Lines must not be too close to the edges of the camera image, as this may prevent the alarm from being triggered when the target passes through them.
- o Lines must be in the area accessible to the detected object.
- o Lines must not be too short, as this may prevent the alarm from being triggered when the target crosses them outwards.




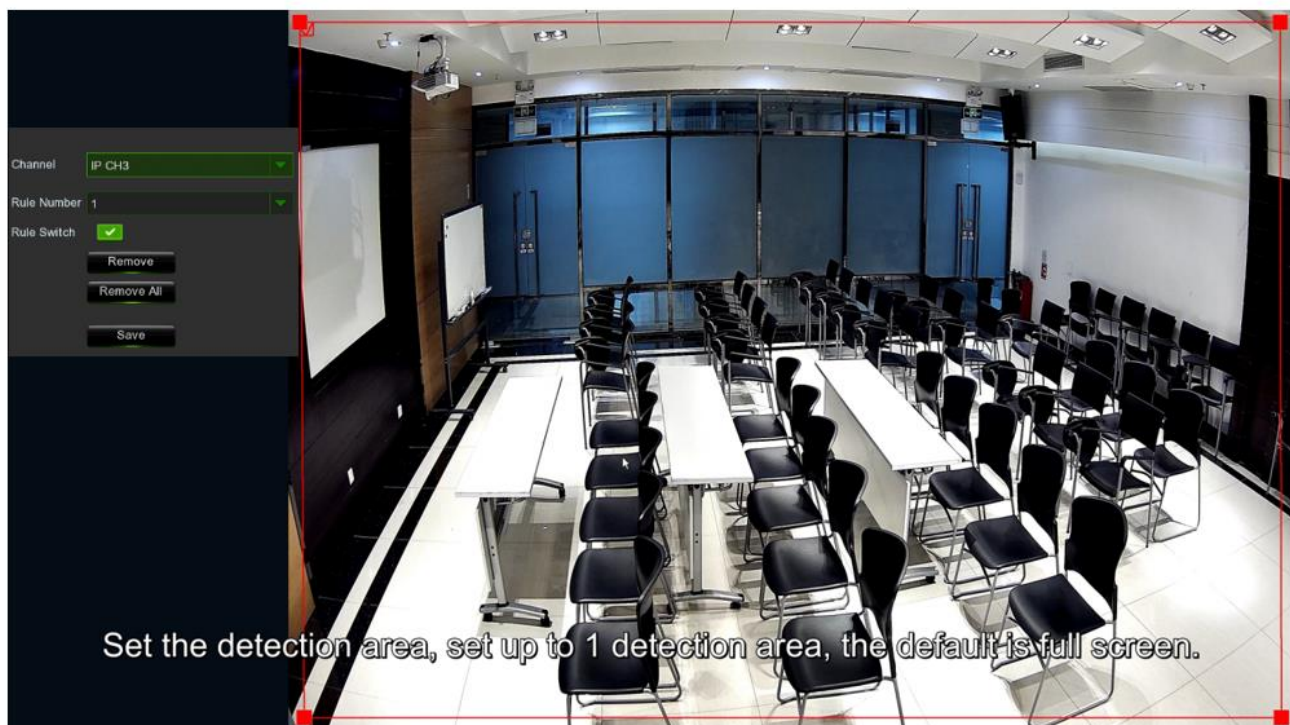
3.8.1.6 HM Heat Map

This menu allows you to set the rules for the areas with the most visitors.



Switch: enables and disables the heat map function.

Setup: Press  to draw the virtual area on the image.



Channel: Select the channel to be configured.

Rule Number: Select the rule number representing the number of heat map detection areas. HM can only set one area.

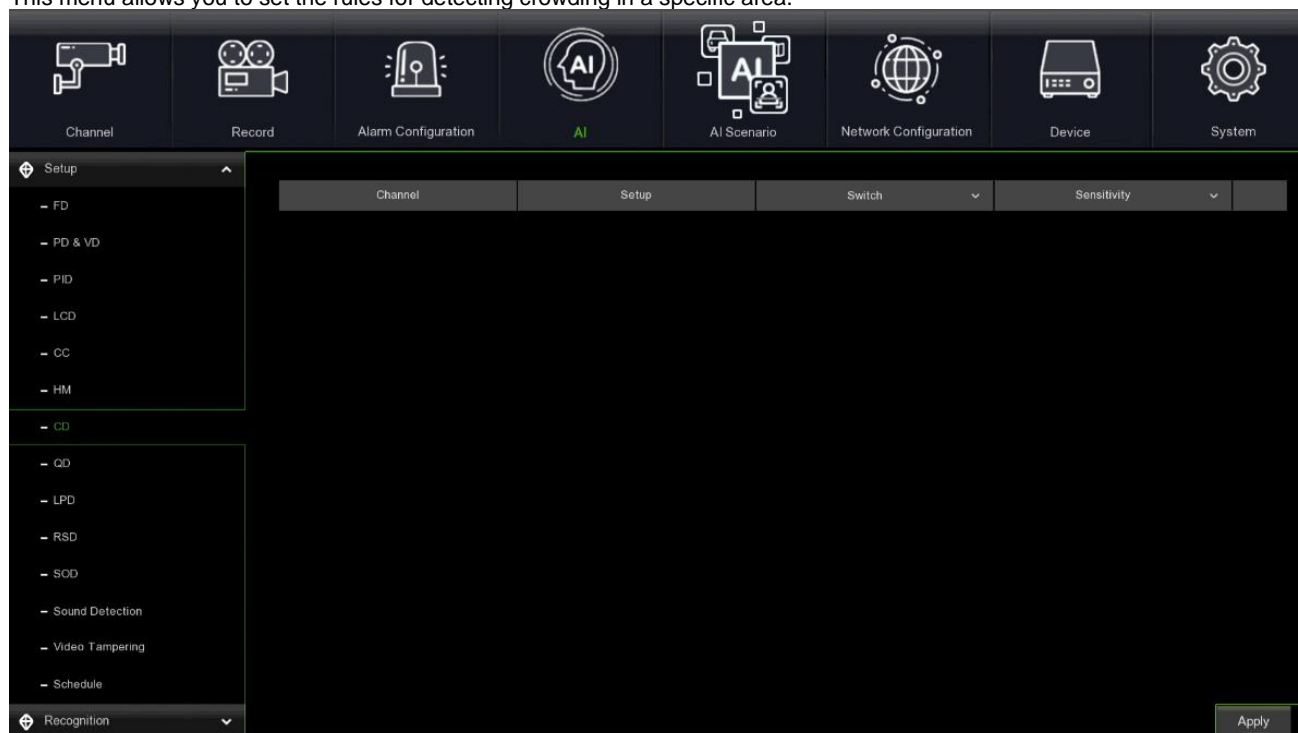
Rule Switch: Enable or disable the rule.

Remove: Press on the detection area box and press Remove to delete the area.

Remove All: Press Remove All to delete the detection box directly.


3.8.1.7 CD Crowd Density Detection

This menu allows you to set the rules for detecting crowding in a specific area.



Switch: Enables and disables the crowd detection function.

Sensitivity: A value between 1 and 4 can be chosen. The higher the value the more sensitive the detection will be.

Setup: Press  to draw the virtual area on the image.



Channel: Choose the channel to be configured.

IVA Lines: Enable or disable IVA lines.

Min Pixel: Set the minimum recognition pixel box; the person must be greater than the set pixel to be identified.

Max Pixel: Set the box for the maximum recognition pixel; persons must be less than the set pixel to be identified.

Max Detection: The NVR will generate an alarm if the number of people in the detection area exceeds the maximum number of people set.

Detection Range: You can choose the full screen or you can customise the area.

If you wish to draw a custom area, you must first select the red box and then you can move the eight points of the virtual area by dragging them with the mouse cursor.

Rule Number: Select the rule number representing the number of crowd detection areas. The CD function can only set one area.

Rule Switch: Enables or disables the rule.

Visible Area: Decide whether or not to display the crowd detection area.

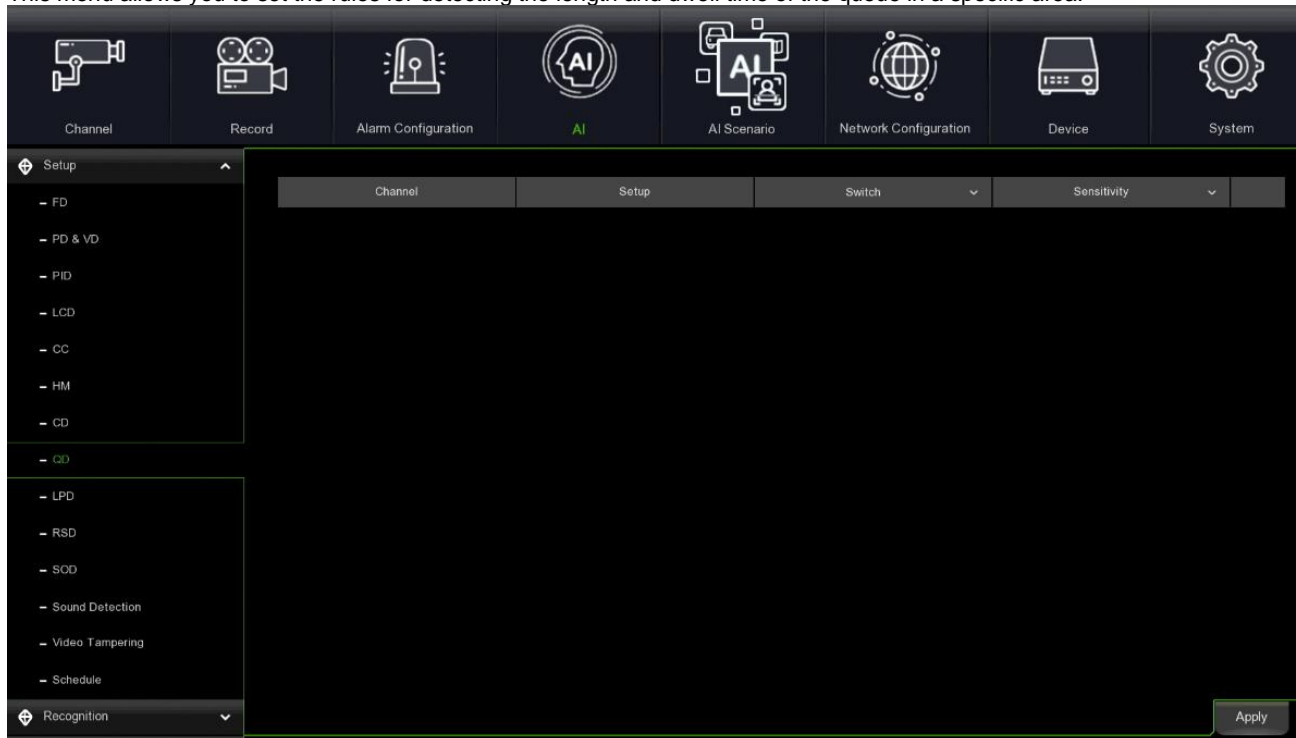
Remove: Press on the detection area box and press Remove to delete the area.

Remove All: Press Remove All to delete the detection box directly.

Save: Press Save to confirm the configured settings.


3.8.1.8 QD Queue Length Detection

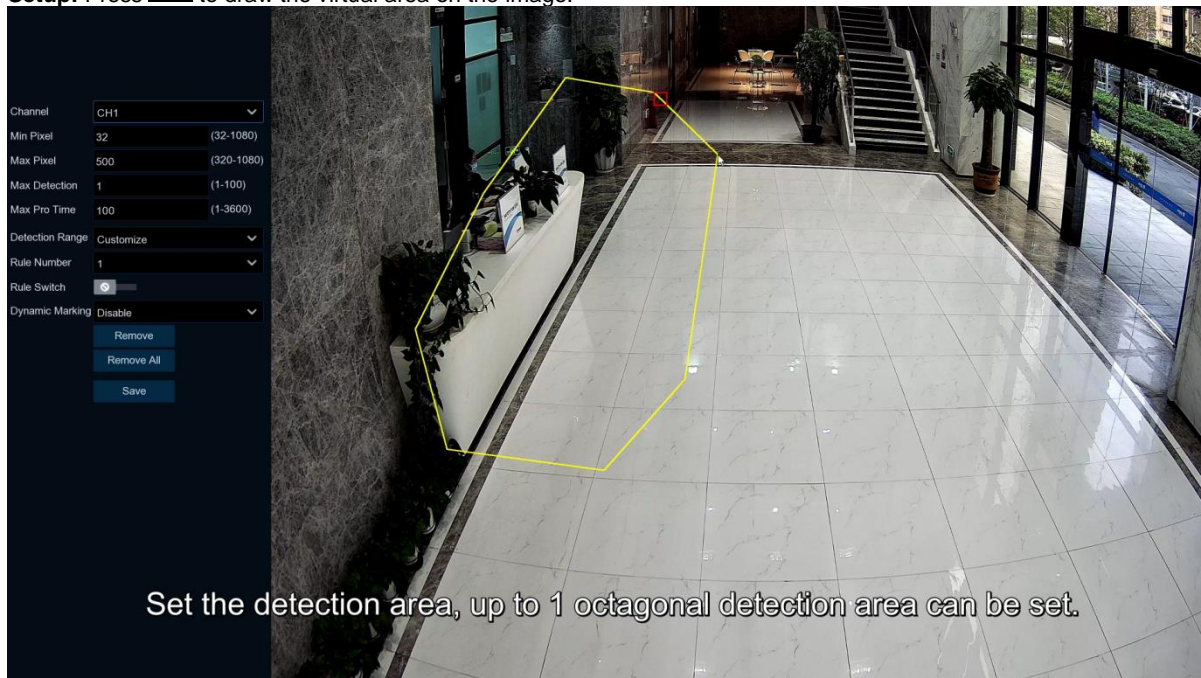
This menu allows you to set the rules for detecting the length and dwell time of the queue in a specific area.



Switch: Enables and disables the crowd detection function.

Sensitivity: A value between 1 and 4 can be chosen. The higher the value the more sensitive the detection will be.

Setup: Press  to draw the virtual area on the image.



Channel: Choose the channel to be configured.

IVA Lines: Enable or disable IVA lines.

Min Pixel: Set the minimum recognition pixel box; the person must be greater than the set pixel to be identified.

Max Pixel: Set the box for the maximum recognition pixel; persons must be less than the set pixel to be identified.

Max Detection: The NVR will generate an alarm if the number of people queuing in the detection area exceeds the maximum number of people set.

Max Pro Time: The NVR will generate an alarm if the queue stays longer than the set time.

Detection Range: You can choose the full screen or you can customise the area.

If you wish to draw a custom area, you must first select the red box and then you can move the eight points of the virtual area by dragging them with the mouse cursor.

Rule Number: Select the rule number representing the number of crowd detection areas. The CD function can only set one area.

Rule Switch: Enables or disables the rule.

Visible Area: Decide whether or not to display the crowd detection area.

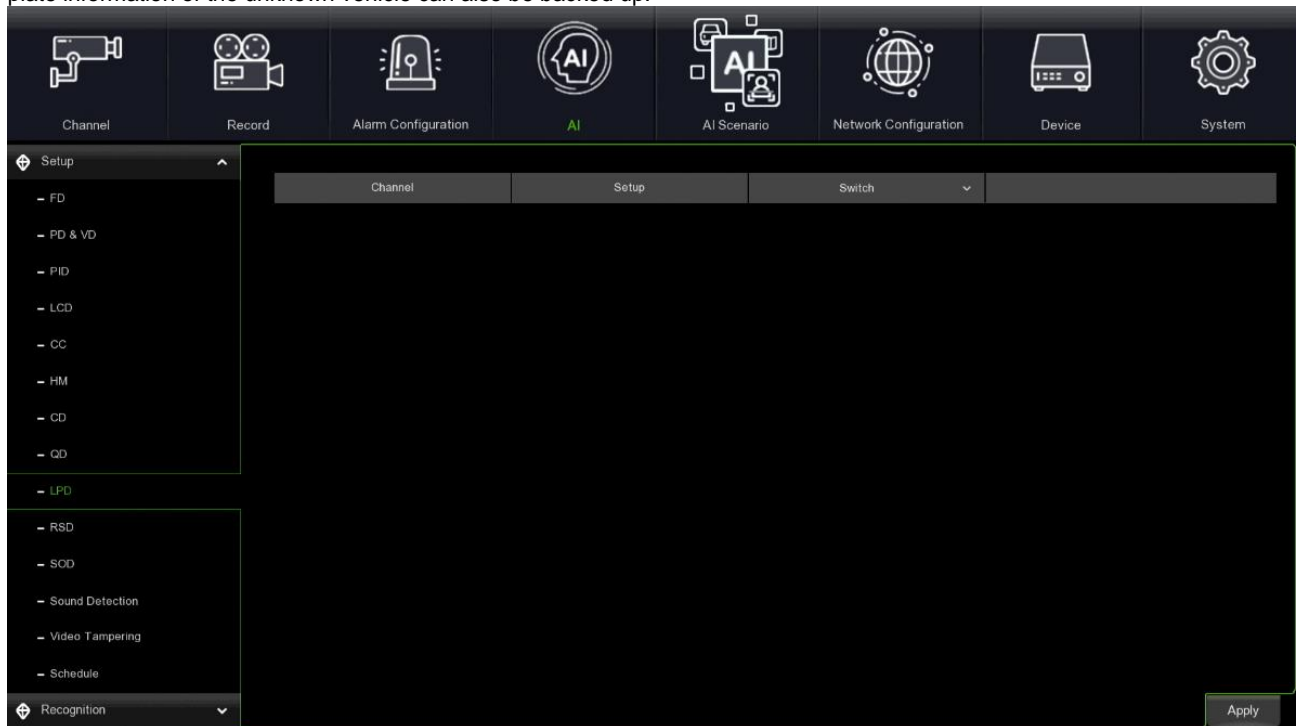
Remove: Press on the detection area box and press Remove to delete the area.

Remove All: Press Remove All to delete the detection box directly.


Save: Press Save to confirm the configured settings.

3.8.1.9 LPD License Plate Detection – Beta Version

This menu allows rules to be set for detecting the number plate reading of vehicles in a database or unknown vehicles. The number plate information of the unknown vehicle can also be backed up.



Switch: Enables and disables the number plate reading detection function.

Setup: Press  to draw the virtual area on the image.



Channel: Choose the channel to be configured.

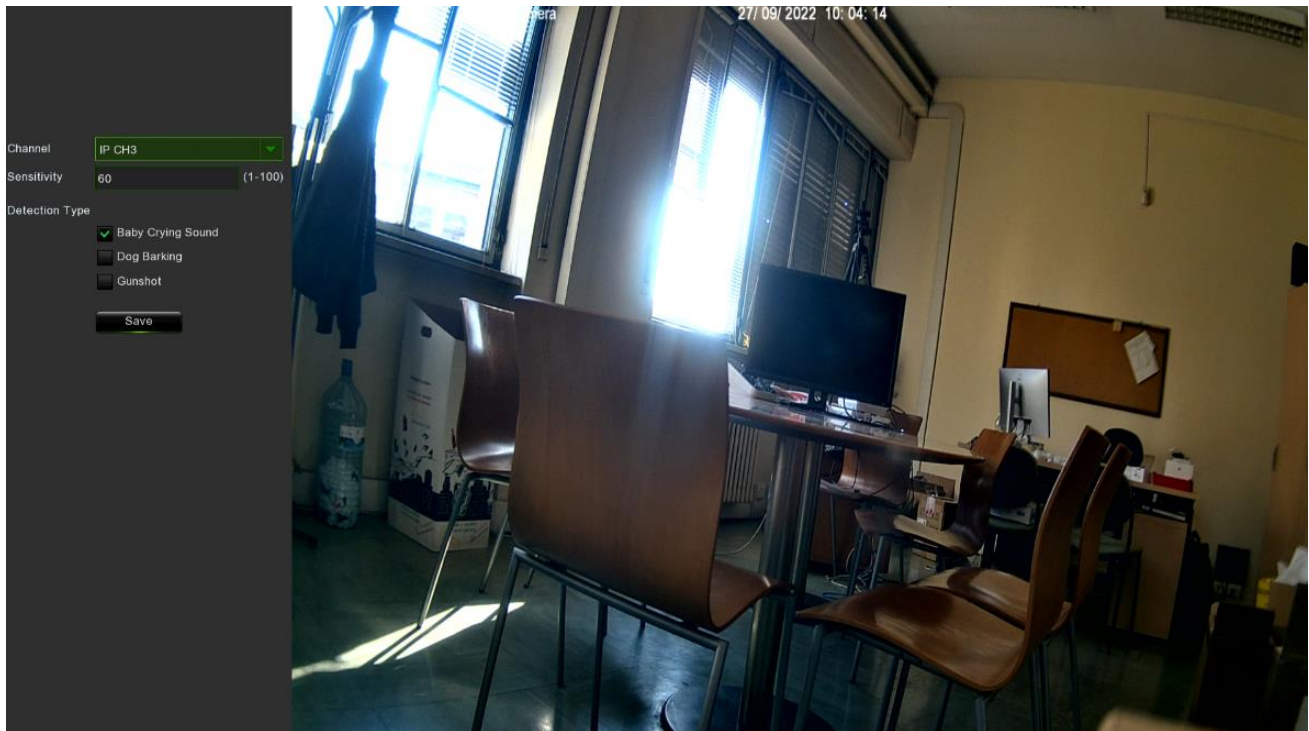
IVA Lines: Allows you to enable or disable IVA lines.

Snap Mode: There are three recognition modes, default mode, real-time mode, and interval mode.

- **Default Mode:** When the vehicle's number plate enters the monitoring area, the camera will always detect. After the vehicle number plate has left the monitoring area, the best and clearest of the images captured during this time will be sent to the device.

- **Realtime Mode:** One image will be sent to the device at the moment the vehicle's licence plate enters the monitoring area and a second image will be sent to the NVR when the vehicle's licence plate has left the monitoring area.

- Interval Mode: The maximum number of times and the interval for sending each image to the device can be set.



Channel: Choose the channel to be configured.

Sensitivity: The higher the value, the more sensitive the detection. The value can be set from 1 to 100.

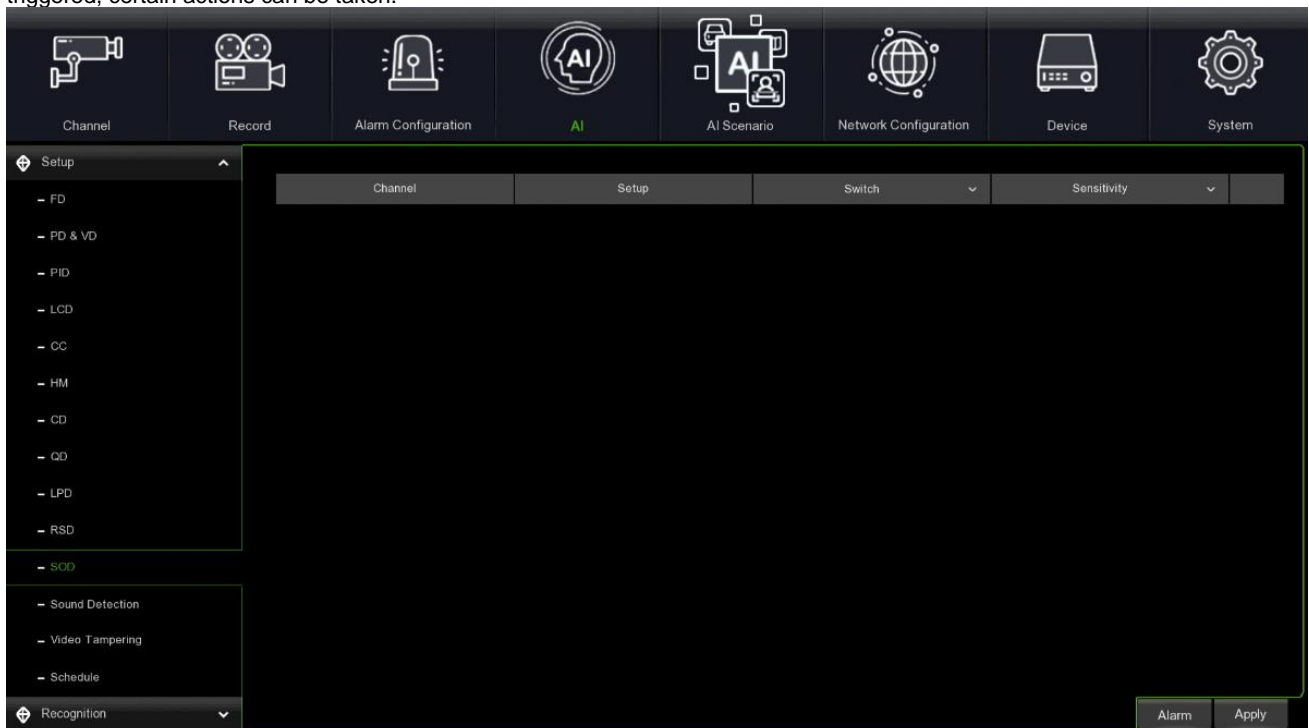
Detection Type: Three types of sounds can be chosen: baby crying, dog barking and gunshot.

- **Baby Crying Sound:** Check the box to activate cry detection
- **Dog Barking:** Check the box to activate barking dog detection.
- **Gunshot:** Check the box to activate gunshot detection

Save: Check the box to save the set parameters.

3.8.1.11 SOD Stationary Object Detection

This function detects objects left or lost within a predefined area (e.g. luggage, bags, hazardous materials, etc.); when the alarm is triggered, certain actions can be taken.



- **Channel:** select the channel to be configured

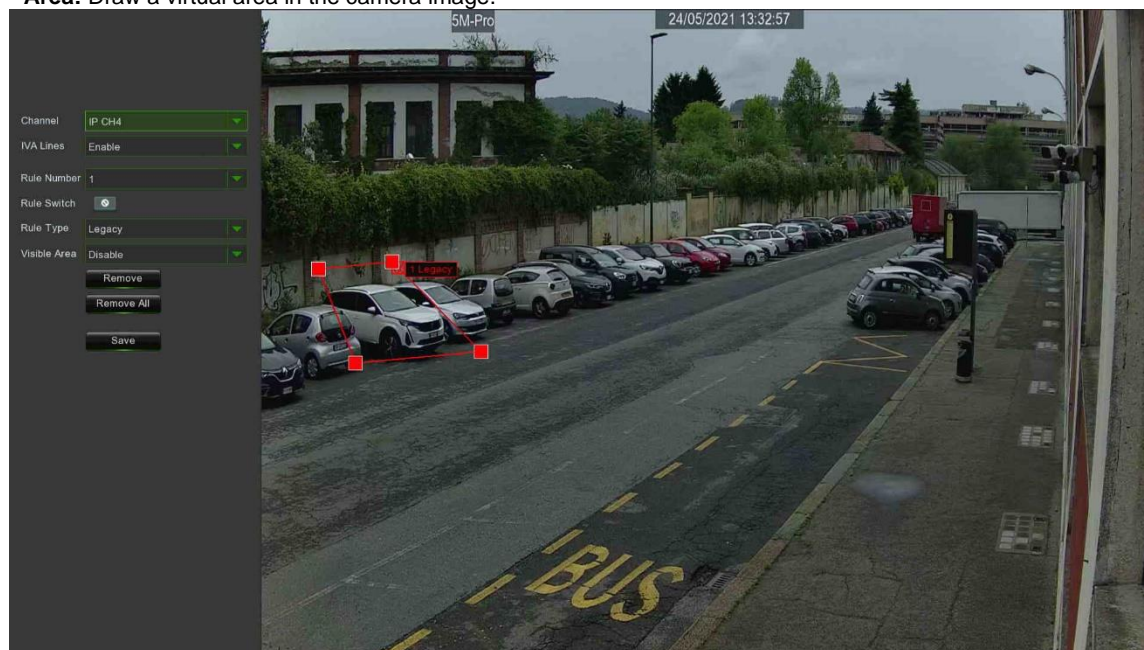
- **Switch:** enable or disable the SOD function

- **Sensitivity:** the sensitivity level is between 1 and 4 (default value: 2). Higher sensitivity will make it easier to trigger detection.

- **Scene:** The scene setting has two options: Indoor and Outdoor. Choose the scene consistent with the location where the camera is installed.

Selecting Setup:

- **Channel:** Select the channel to be configured
- **I/A Lines:** enable or disable I/A Lines.
- **Area:** Draw a virtual area in the camera image.



- Choose a **Rule Number**. This is the number of the SOD area. A maximum of 4 areas can be set for the SOD function.
- Enable detection in **Rule Switch**.
- Choose **Rule Type**.
 - Legacy:** The NVR will only detect abandoned objects;
 - Lost:** The NVR will only detect lost objects;
 - Legacy & Lost:** The NVR will detect abandoned and lost objects.
- Using the mouse, click on 4 points on the camera image to draw a virtual area. The area must be in the shape of a convex polygon. It will not be possible to save a concave polygon.
- Click on **Save** to save the settings.
- To change the size of the area, click on the red box inside it: the borders of the area will turn red. Hold down the left mouse button to move the whole area or drag the corners to resize it.
- To delete one or more areas from the camera image, click on the red box, then click on the **Remove** button. Click **Remove All** to delete all areas.

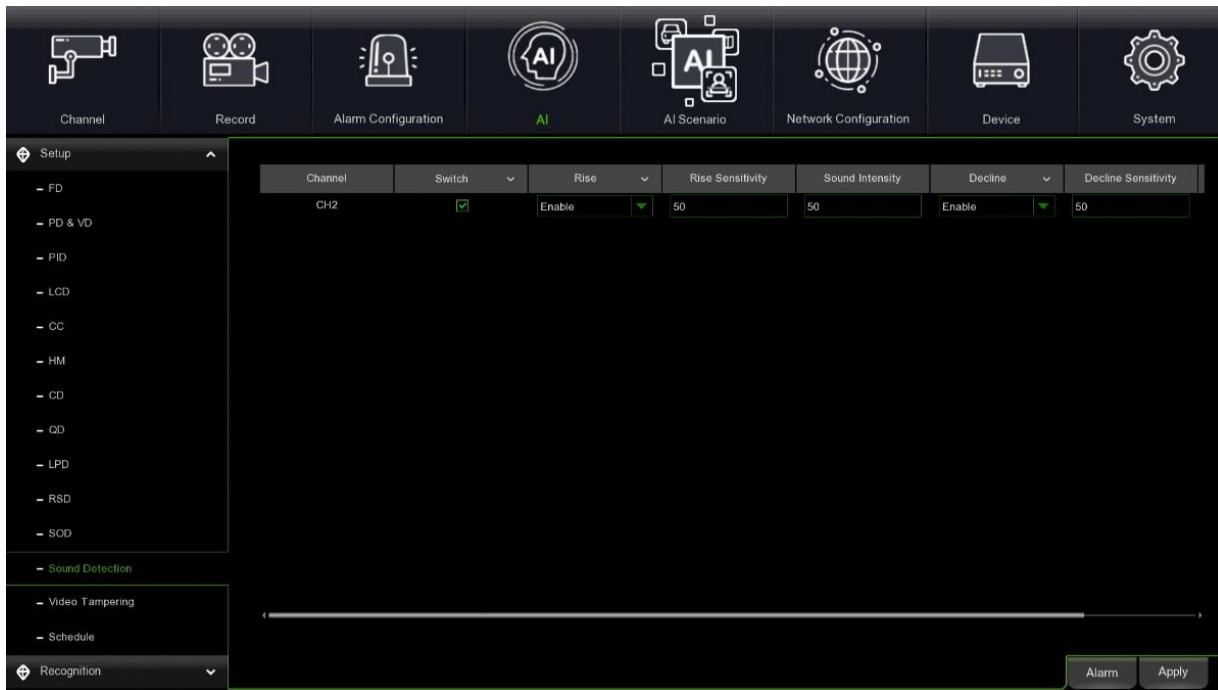
Warning:

- o The detection area must be equal to or larger than the size of the detected object (e.g. detection of a white bottle).
- o The detected object cannot be hidden.



3.8.1.12 Sound Detection

This function allows the sound to be detected.



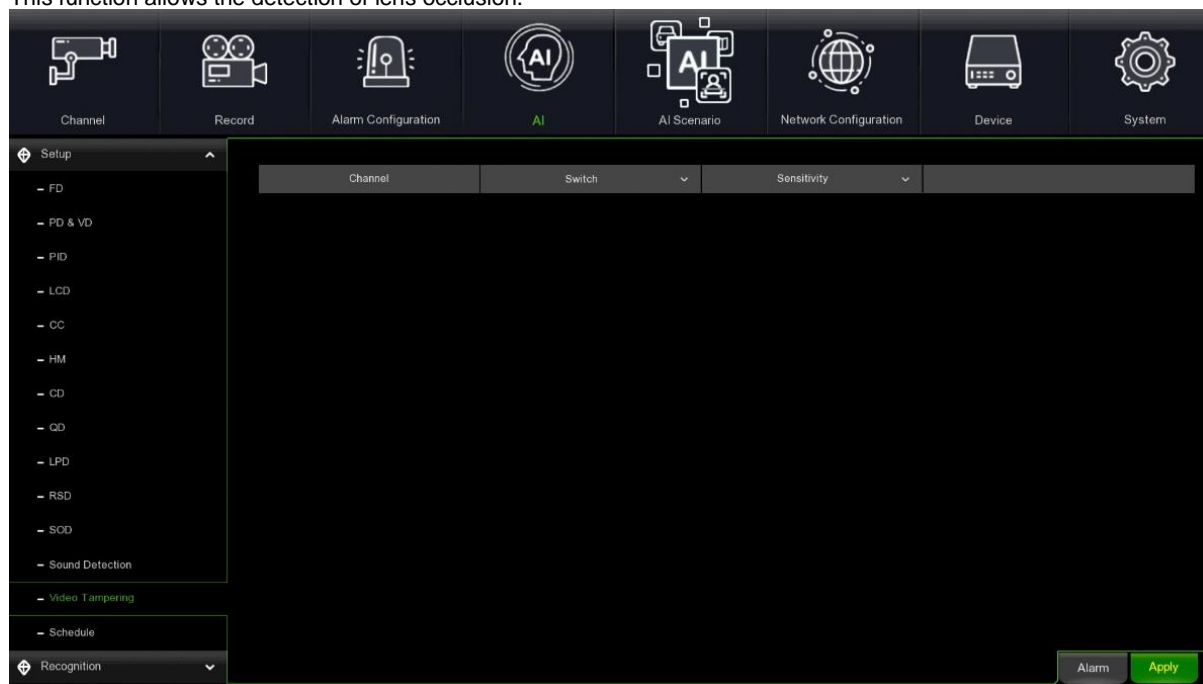
- **Channel:** select the channel to be configured
- **Switch:** enable or disable the Sound Detection function
- **Rise:** enable or disable the Sound Detection Rise function
- **Rise Sensitivity:** Configure between 0 and 100; default value is 50.
- **Sound intensity:** configure between 0 and 100; default value is 50.
- **Decline:** Enable or disable the Decline function of sound detection.
- **Decline Sensitivity:** Configure between 0 and 100; default value is 50.

Warning:

The camera must be equipped with the Sound Detection function.

3.8.1.13 Video Tampering

This function allows the detection of lens occlusion.



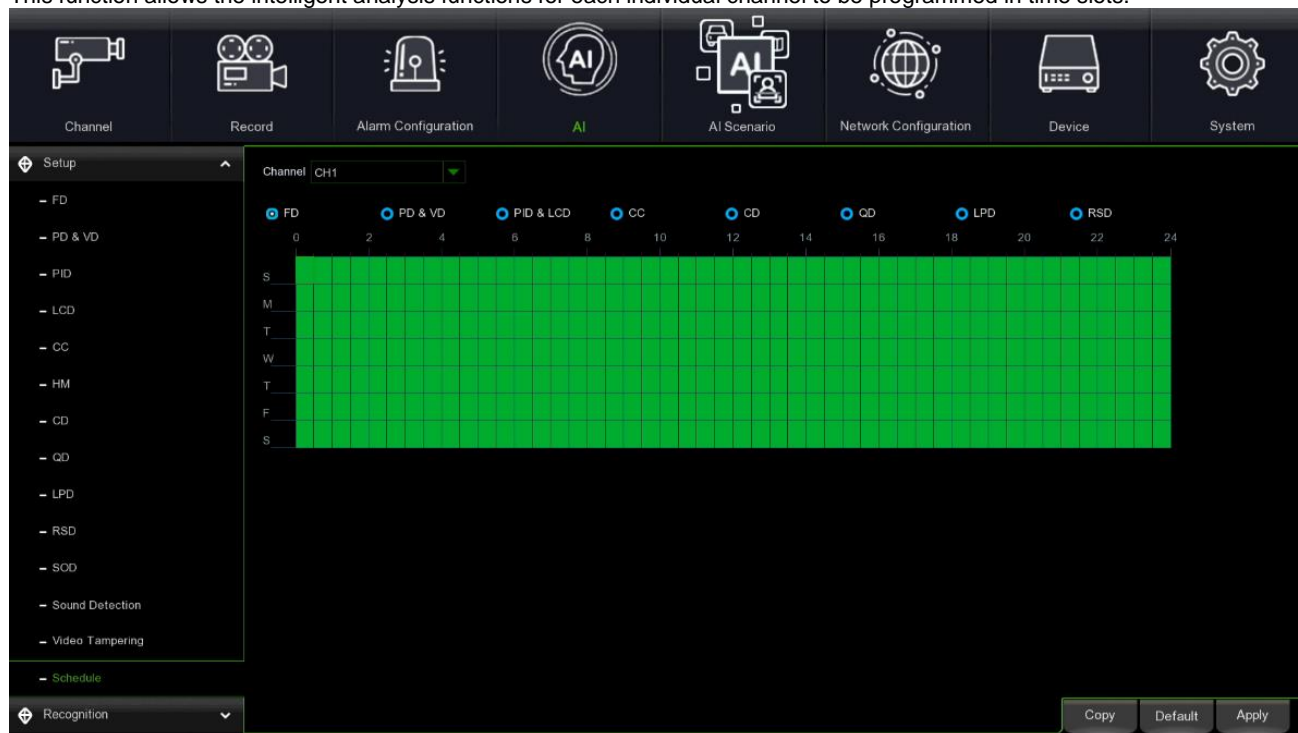
- **Channel:** Select the channel to be configured
- **Switch:** Enable or disable the Sound Detection function.
- **Sensitivity:** Configure between 1 and 6; default value is 3.

Warning:

This function may not be available. Check whether your camera model supports the function.

3.8.1.14 Schedule

This function allows the intelligent analysis functions for each individual channel to be programmed in time slots.



To activate the desired intelligent function, the time schedule must be configured. The programme will be active 24 hours a day, 7 days a week.

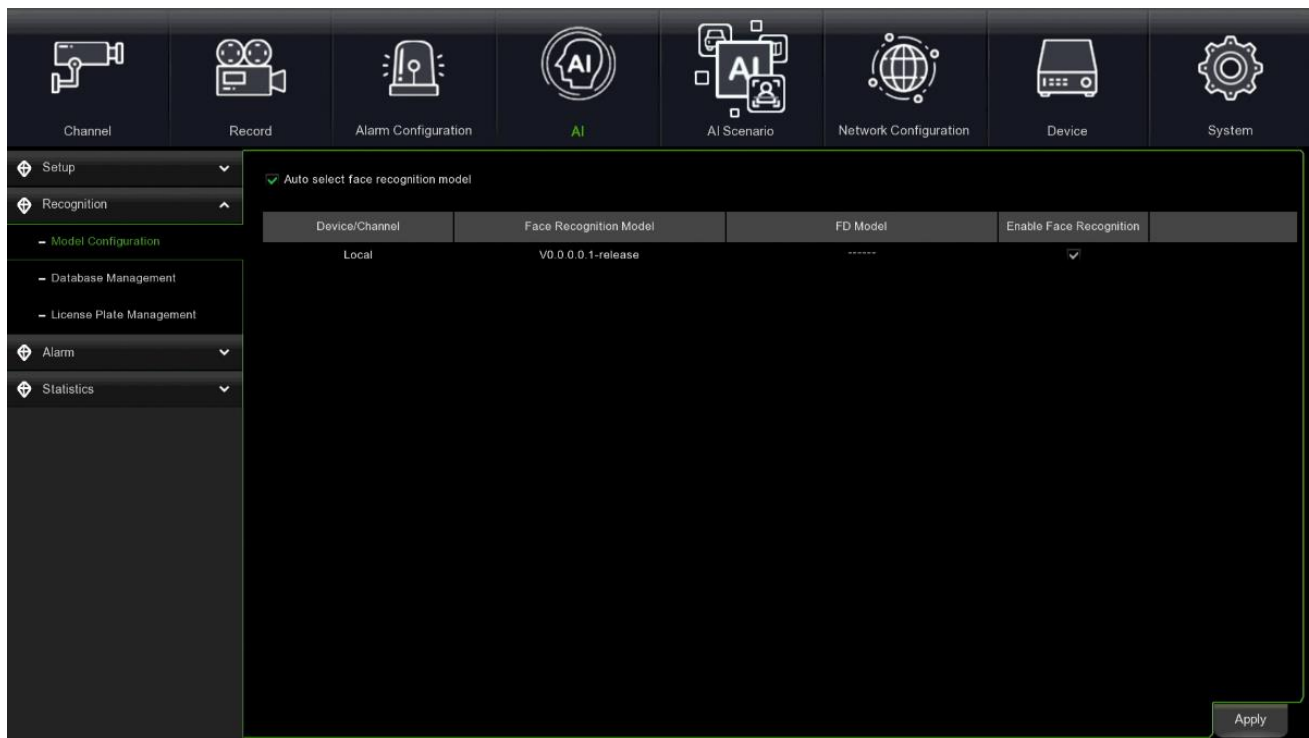
To set up the schedule, choose a channel, the intelligent analysis function and drag the slider to mark the time slots. Green blocks in the time slots will be active for intelligent detection. The programme is only valid for the selected channel. If you want to use the same programme for other channels, use the **Copy** function. Press **Save** to save your settings.

3.8.2 RECOGNITION

This menu allows management of the database of who is authorised to access and who is forbidden access.

3.8.2.1 Model Configuration

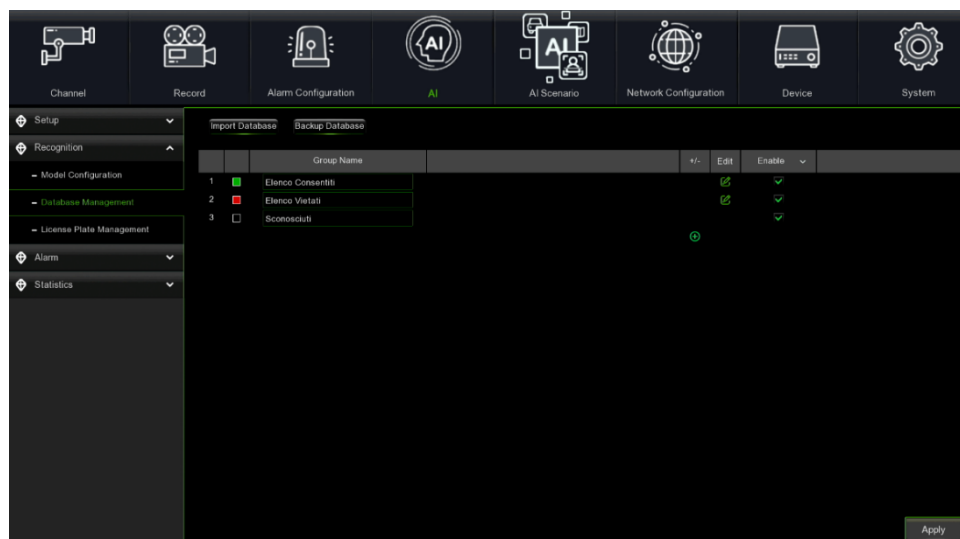
This section describes the features of the devices which are performing the intelligent analysis and can be used to enable



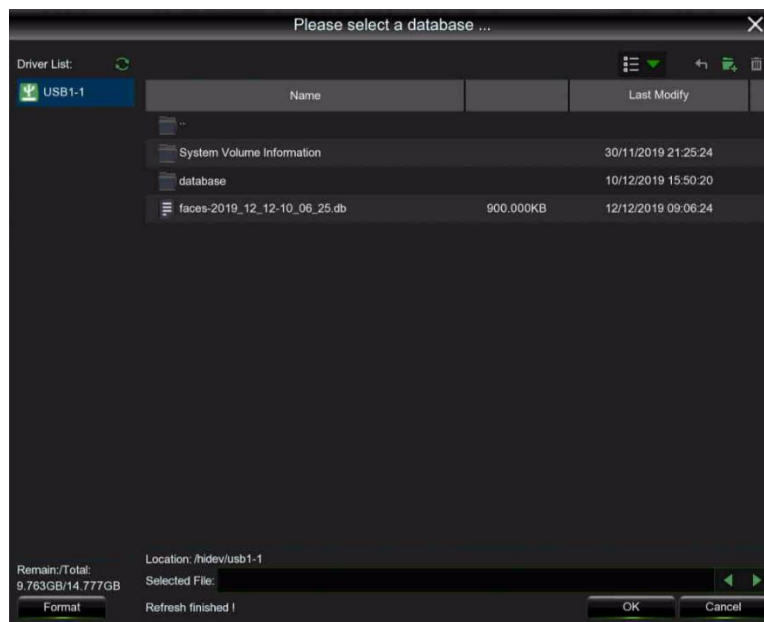
- **Device/Channel:** This indicates the device/camera whose information is being displayed.
- **Face Recognition Model:** This indicates the Face Recognition model implemented on the device.
- **FD Model:** This indicates the Face Detection model implemented on the device.
- **Enable Face Recognition:** This can be used to enable Face Recognition on the device.

3.8.2.2 Database Management

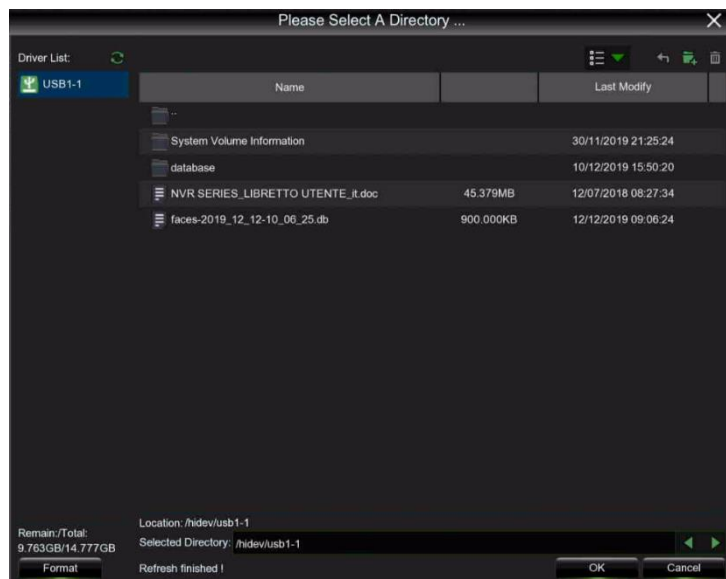
Allows you to set the list of faces of people who are allowed or forbidden to pass and to add other customised groups.



- **Import Database:** to import the database, click on the external storage device or USB disk, select the database file *.db, then click **OK**.



- **Backup Database:** to make a backup of the database, save a file as *.db in the External Storage Device or USB Disk.



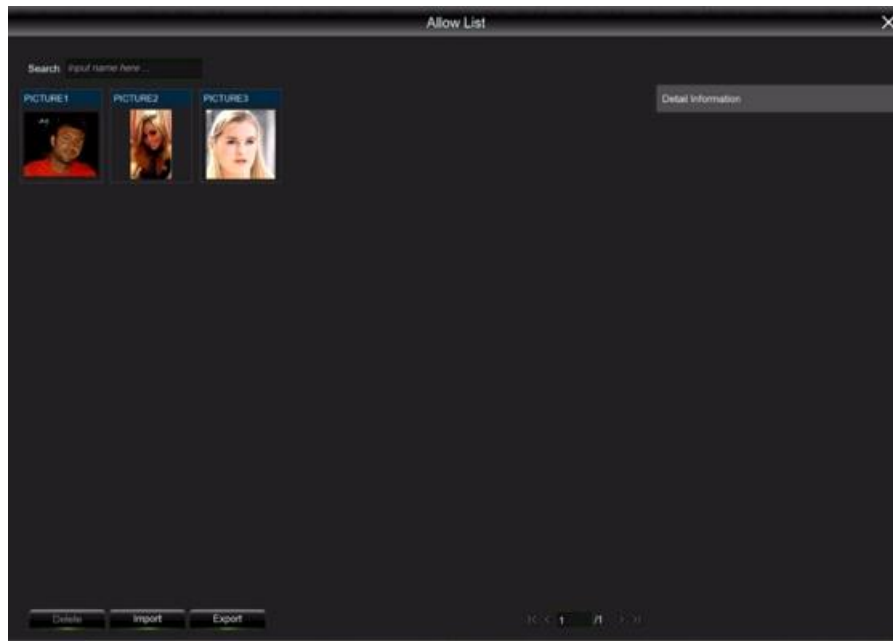
- **Group Name:** Allow List/Block List/Stranger lists are defined in advance, you can click on the group name to change the name of the new group or add a new group.



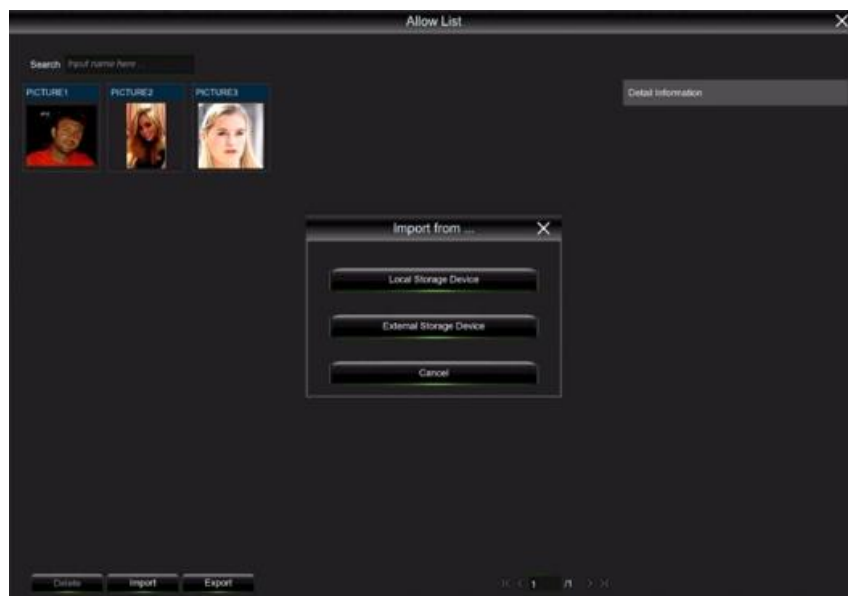
Group Name	+/-	Edit	Enable
Allow List			
Block List			
Stranger			



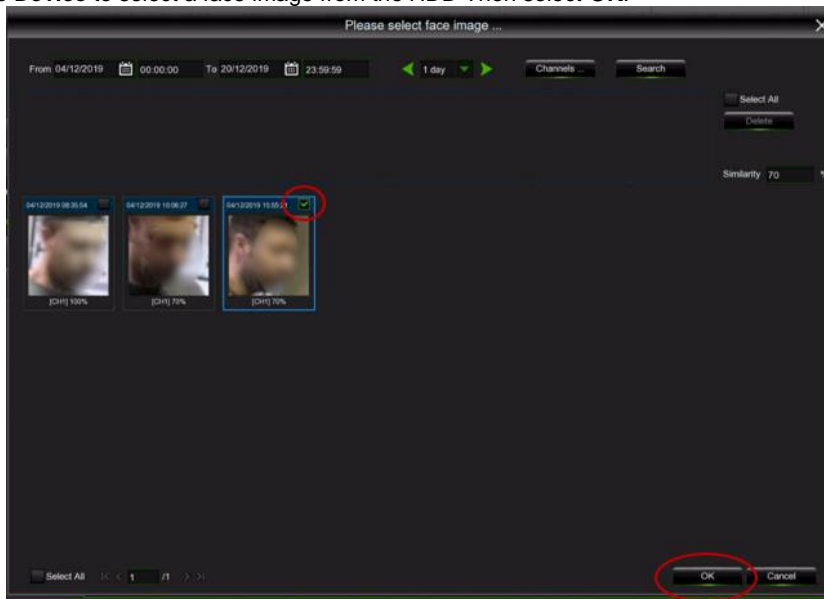
- **Edit:** Click to configure into Import and Export configuration settings for Allow List or Block List:



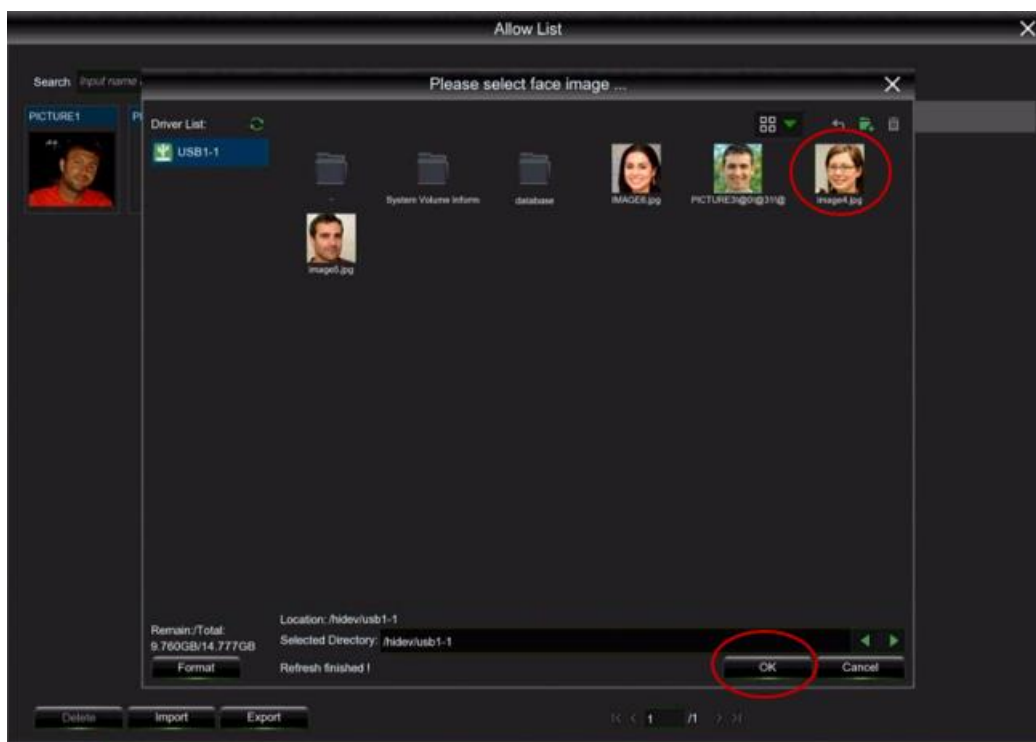
- **Import:** Click on Import to access the setup page. You can select Local Storage Device or External Storage Device






Click on **Local Storage Device** to select a face image from the HDD Then select **OK**:





Or click on **External Storage Device**:




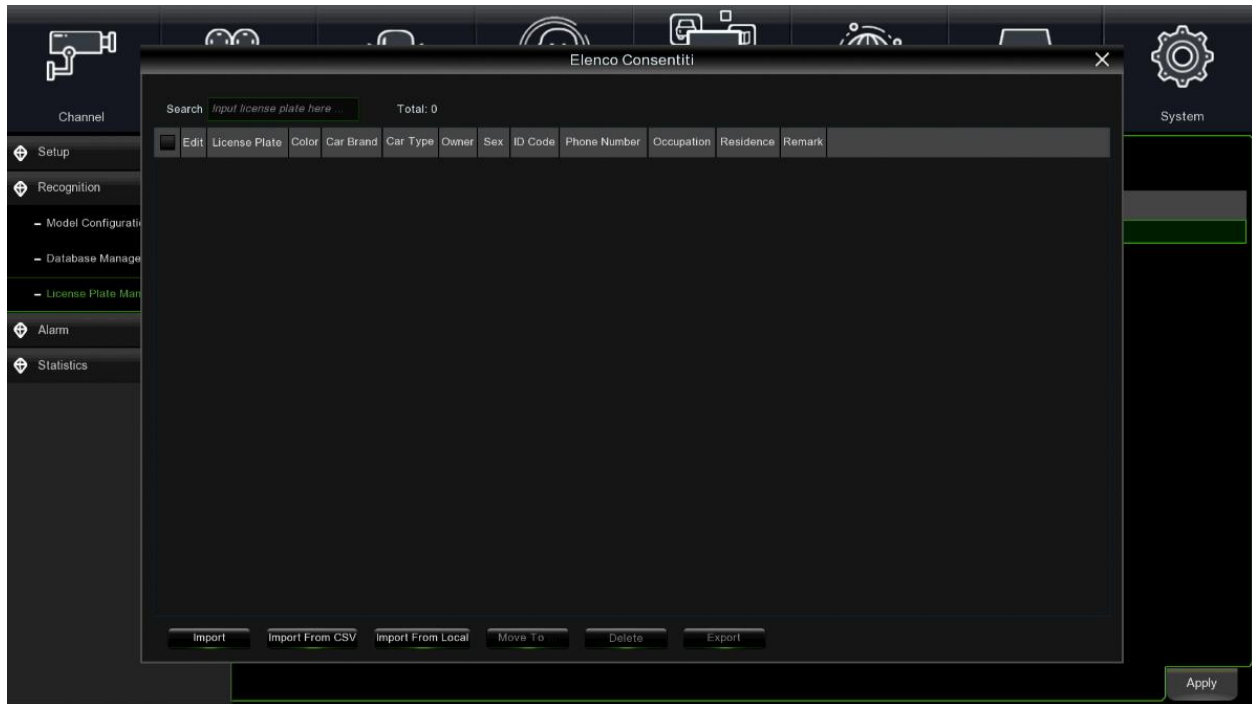
- **Export:** To export an image click on External Storage Device, select a face image from the HDD, then click **OK**:

Group Name: Allows setting the name of the database group, Allow List , Block List  and Stranger group . Up to 61 custom groups can be added, for a total of 64 groups. Each group can contain up to 5000 number plates, the entire database can contain 10000 number plates.

Backup Database: exports all groups to the U disk.

Press on  /  to add a new face group or delete an existing one (the first three predefined face groups cannot be deleted).
Edit: Press to edit the desired face group.

Press on  to edit the plate data. Three types of licence plate import can be used: **Import (manual addition)**, **Import from CSV** and **Import from capture**.



Press the **Import** button to manually enter the data for the individual number plate.

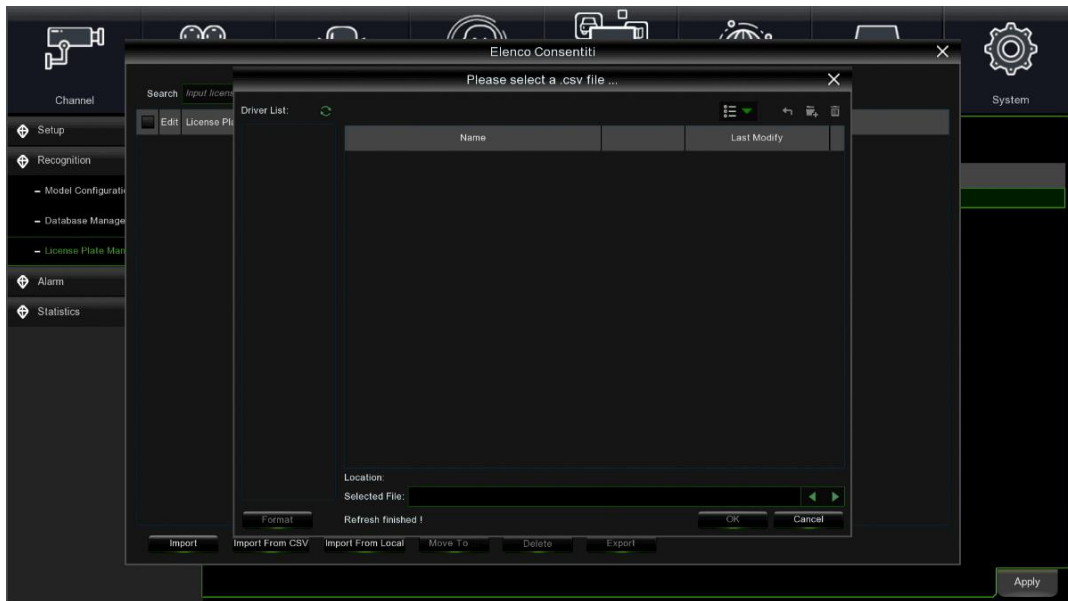
Press the **Export** button to export the entire group data to an external drive.

Press the **Move To...** button to check the plate data box and transfer it to another group.

Press the **Delete** button to select the plate data box and delete it from the group.

Press the **Import from CSV** button to import one or more data. The format of the CVS table is shown below:

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	License	Color	Car Brand	Car Type	Owner	Sex	ID Code	Phone	Occupation	Residence	Remark														
2	豫C-38522	blue	HUIJI	Volkswagen	TYJ	male	2222	2212211	22222	46461	FFQFQFQ														
3	A-WP-213	white	HUIJI	NORMAL	YTHH	male	101	11111	LLLLL	KLXKLX	POQPOQ														
4	WU1441	black	SEBB	NORMAL	QOQO	female	102	2145455	DAKQKQ	FFQFQ	QTFQ														
5	FLB-360	black	R23K2AD	KDCS	QND	female	103	432525	SFFFS	QZQA	QVTVVE														
6	RA 5485	white	TPWAGA	SPFP	FFPFPF	female	104	552525	FFPFA	PKA	FFPFA														
7	QC 9071	white	KCHTYZGAPKQCTG	RTAJBT	female	105	2.358459	VARACG	ACAC	ACET															
8	L866	BRE	white	GABRJHDFJWTAQSG	ATTQF	male	106	3.478458	Ftota	ashhsh	agregasega														
9	K21	ROF	white	HUIJI	TCTH	ARTAT	male	107	5JTTFQF	HLFFPFB	STTFQFQFQFQ														
10	DE14	LVP	white	ETURRS	AYACRG	AKETVTFQFQ	male	108	45634	WECARGA	AFQCS	KUETT													
11	1218	LOJ	white	RSHRTST	TEYD	CSYSDCCG	male	109	46737	3875GAC	SDCSBHTS	TEETTFX													
12	W12	FRA	yellow	CHGACAG	AKRAGE	CAATVTF	female	110	4546353	POBMA	QCS	PKA													
13	W13	FRA	blue	HUIJI	WQOTG	CSYSDCCG	male	112	2212223	22222	46473	FFQFQFQ													
14	W14	FRA	blue	HUIJI	WQOTG	CSYSDCCG	male	113	2212224	22222	46474	POQPOQ													
15	W15	FRA	blue	HUIJI	WQOTG	CSYSDCCG	male	114	2212225	22222	46475	QTFQ													
16	W16	FRA	blue	HUIJI	WQOTG	CSYSDCCG	male	115	2212226	22222	46476	QVTVVE													
17	W17	FRA	blue	HUIJI	WQOTG	CSYSDCCG	male	116	2212227	22222	46477	FFPFA													
18	W18	FRA	blue	HUIJI	WQOTG	CSYSDCCG	male	117	2212228	22222	46478	ACET													
19	W19	FRA	blue	HUIJI	WQOTG	CSYSDCCG	male	118	2212229	22222	46479	agregasega													
20	W20	FRA	blue	HUIJI	WQOTG	CSYSDCCG	male	119	2212230	22222	46480	ETQF													
21	W21	FRA	blue	HUIJI	WQOTG	CSYSDCCG	male	120	2212231	22222	46481	KUETT													
22	W22	FRA	blue	HUIJI	WQOTG	CSYSDCCG	male	121	2212232	22222	46482	TEETTFX													
23	W23	FRA	blue	HUIJI	WQOTG	CSYSDCCG	male	122	2212233	22222	46483	PKA													
24	W24	FRA	blue	HUIJI	WQOTG	CSYSDCCG	male	123	2212234	22222	46484	FFQFQFQ													
25	W25	FRA	blue	HUIJI	WQOTG	CSYSDCCG	male	124	2212235	22222	46485	POQPOQ													
26	W26	FRA	blue	HUIJI	WQOTG	CSYSDCCG	male	125	2212236	22222	46486	QTFQ													
27	W27	FRA	blue	HUIJI	Volkswagen	CSYSDCCG	male	126	2212237	22222	46487	QVTVVE													
28	W28	FRA	blue	HUIJI	Volkswagen	CSYSDCCG	male	127	2212238	22222	46488	FFPFA													
29	W29	FRA	blue	HUIJI	Volkswagen	CSYSDCCG	male	128	2212239	22222	46489	ACET													
30	W30	FRA	blue	HUIJI	Volkswagen	CSYSDCCG	male	129	2212240	22222	46490	agregasega													
31	W31	FRA	blue	HUIJI	Volkswagen	CSYSDCCG	male	130	2212241	22222	46491	ETQF													
32	W32	FRA	blue	HUIJI	Volkswagen	CSYSDCCG	male	131	2212242	22222	46492	KUETT													
33	W33	FRA	blue	HUIJI	Volkswagen	CSYSDCCG	male	132	2212243	22222	46493	TEETTFX													
34	W34	FRA	blue	HUIJI	Volkswagen	CSYSDCCG	male	133	2212244	22222	46494	PKA													
35	W35	FRA	blue	HUIJI	Volkswagen	CSYSDCCG	male	134	2212245	22222	46495	FFQFQFQ													
36	W36	FRA	blue	HUIJI	Volkswagen	CSYSDCCG	male	135	2212246	22222	46496	POQPOQ													
37	W37	FRA	blue	HUIJI	Volkswagen	CSYSDCCG	male	136	2212247	22222	46497	QTFQ													
38	W38	FRA	blue	HUIJI	Volkswagen	CSYSDCCG	male	137	2212248	22222	46498	QVTVVE													
39	W39	FRA	blue	HUIJI	Volkswagen	CSYSDCCG	male	138	2212249	22222	46499	FFPFA													
40	W40	FRA	blue	HUIJI	Volkswagen	CSYSDCCG	male	139	2212250	22222	46500	ACET													
41	W41	FRA	blue	HUIJI	Volkswagen	CSYSDCCG	male	140	2212251	22222	46501	agregasega													
42	W42	FRA	blue	HUIJI	Volkswagen	CSYSDCCG	male	141	2212252	22222	46502	ETQF													



Press the **Import/Modify** button to add a group and edit the licence plate data. When more than 5000 data are added, the message **Add data has reached the upper limit of the group is displayed.**

Press the **Import from local** button to locally import licence plate data from the capture database. Select date, duration and channels and press on **Search** to search for number plates saved by the device in that time period.

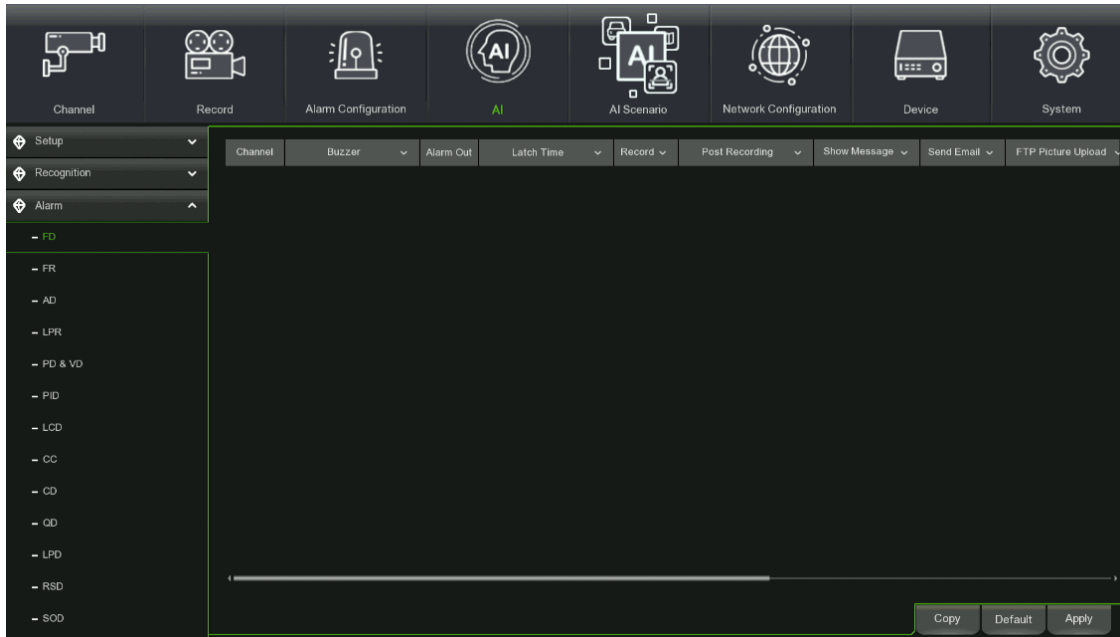
Channels: Licence plate reading event triggered on each channel.

Select All: Selects all licence plate information.

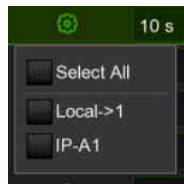
3.8.3 ALARM

3.8.3.1 FD Face Detection

Press on Alarm to setup the alarm parameters for the face detection function:



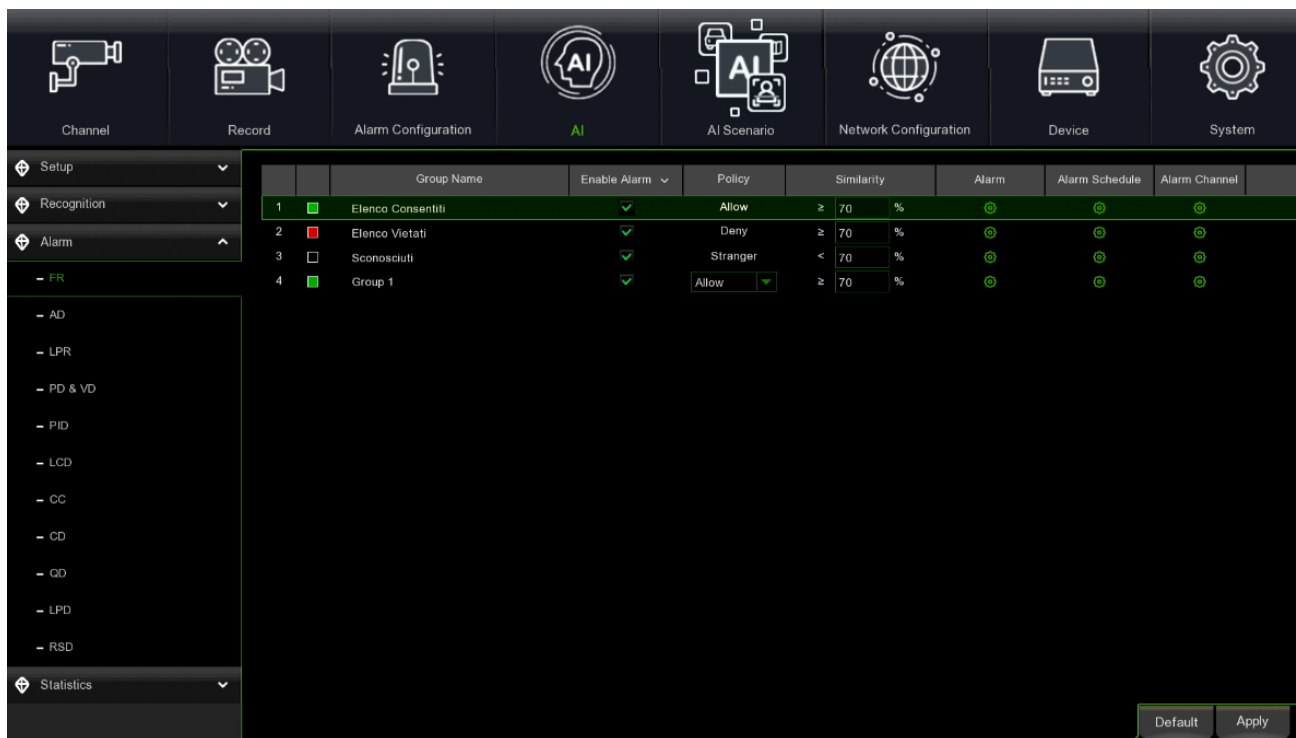
- **Channel:** Each channel can be configured.
- **Buzzer:** To disable or enable the buzzer. An alarm tone will sound every 10, 20, 40 or 60 seconds when detection is activated.
- **Alarm Out:** If the NVR supports connection to an external alarm device, an alarm tone can be set to be output to this device.




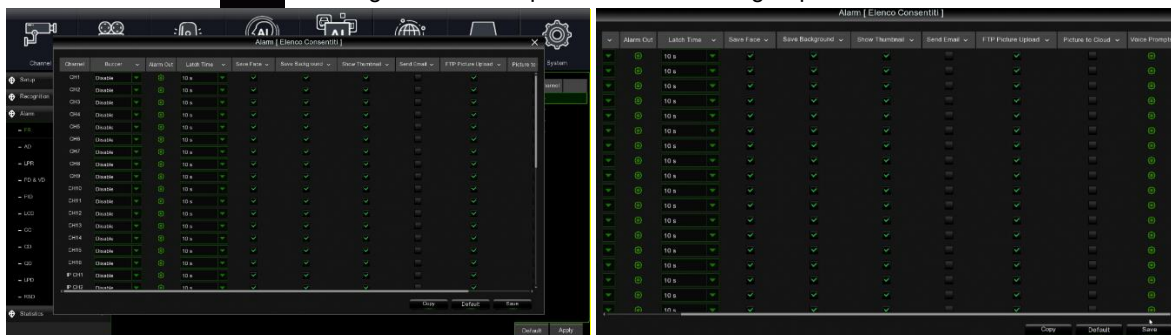
- **Latch Time:** To configure the alarm duration when a detection occurs, allowed values 10 s, 20 s, 40 s, 60 s.
- **Record:** to enable channel recording after alarm activation.
- **Post Recording:** To set the post recording time.
- **Show Message:** If selected, shows the icon when the alarm is triggered.
- **Send Email:** Select Send Email to enable or disable an email to the preset email account in the event of an alarm.
- **FTP Picture Upload:** Select FTP Picture Upload if an alarm is triggered, to send an image to the preset FTP account in the case of an alarm.
- **FTP Video Upload:** Select FTP Video Upload if an alarm is triggered, to send a video to the preset FTP account in the case of an alarm.
- **Picture to Cloud:** select Picture to Cloud if an alarm is triggered, a picture will be sent to the preset Cloud account.
- **Video to Cloud:** select Video to Cloud, if an alarm is triggered, a video will be sent to the default Cloud account.
- **Full Screen:** When an alarm is triggered, the desired channel goes full screen.
- **Voice Prompts:** when the alarm is triggered the audio file is played (The IP camera must support the voice prompt function).

3.8.3.2 Face Recognition

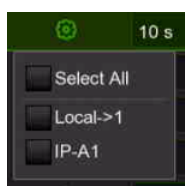
Click on **Alarm** to define the parameters for face recognition alarms:



- **Group Name:** Select the group whose alarms you want to configure.
- **Enable Alarm:** The default value is enabled. This does not need to be a group. If is not used it can be disabled.
- **Policy:** You can select Allow/Deny/Advance for the groups:
If Advance is selected, it is possible to Enable/Disable alarms for each individual channel.
- **Similarity:** The default threshold value is 70%. This value can be changed.
- **Alarm:** Click Alarm  to configure the alarm parameters for each group.



- **Channel:** Each channel can be configured.
- **Buzzer:** This can be used to disable or activate the buzzer. An alarm tone sounds every 10, 20, 40 or 60 seconds when detection is activated.
- **Alarm Out:** This can be used to set to emit an alarm tone to the device if the NVR supports a connection to an external alarm device.



- **Latch Time:** This can be used to configure the alarm time in case of detection; possible values are 10 s, 20 s, 40 s, 60 s.
- **Save Face:** Select Save Face to enable or disable saving the face image.
- **Save Background:** Select Save Background to enable or disable saving the face image background
- **Show Thumbnail:** Select Show Thumbnail to enable or disable the thumbnail of the face image.
- **Send Email:** Select Send Email to enable or disable an email to the preset email account in case of alarm.

- **FTP Picture Upload:** Select FTP Picture Upload if an alarm is triggered, to send a picture to the preset FTP account in case of alarm.
- **Picture to Cloud:** Select Picture to Cloud, if an alarm is triggered, an image will be sent to the default Cloud account.
- **Voice Prompts:** when the alarm is triggered, the audio file is played (The IP camera must support the voice message function).
- **Alarm Schedule:**

The program must be configured to activate the intelligent function. The program will be active in 24 hours x 7 days.

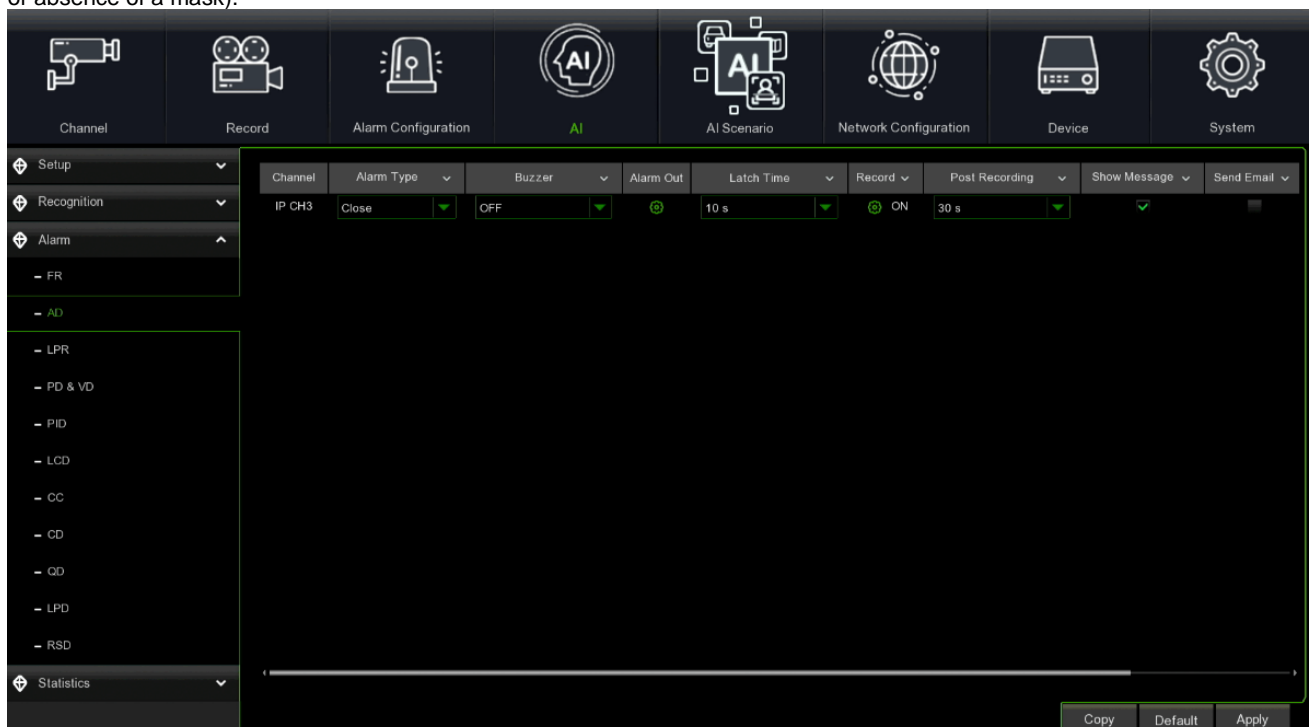
To set the program, select a channel and drag the cursor to mark the time slots. The blue blocks in the time slots will be active for intelligent detection. The program is valid only for the selected channel whenever you set it. If you want to use the same schedule for other channels, use the **Copy** function. Click on **Save** to save the settings.



Press **Save** to store the desired time settings.

3.8.3.3 AD Attribute Detection

In this section, it is possible to configure possible actions related to the recognition of certain facial characteristics (e.g. presence or absence of a mask).




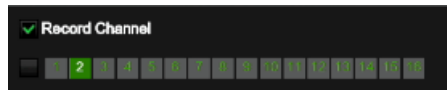
Alarm Type: there are three types of alarm, close, no mask, with mask.

Buzzer: allows the duration of the buzzer to be set in the event of an alarm.

Alarm Out: if enabled, allows the alarm output to be switched after the alarm has been triggered.

Latch Time: Set the alarm time, a time period of 10s, 20s, 40s and 1 min is allowed.

Record: Press on  and select the channel to be recorded after alarm activation.



Post recording: Set the duration of recording after the alarm event. You can set 30 seconds, 1,2,5 minutes.

Show Message: If selected, shows the alarm icon when the alarm is triggered.

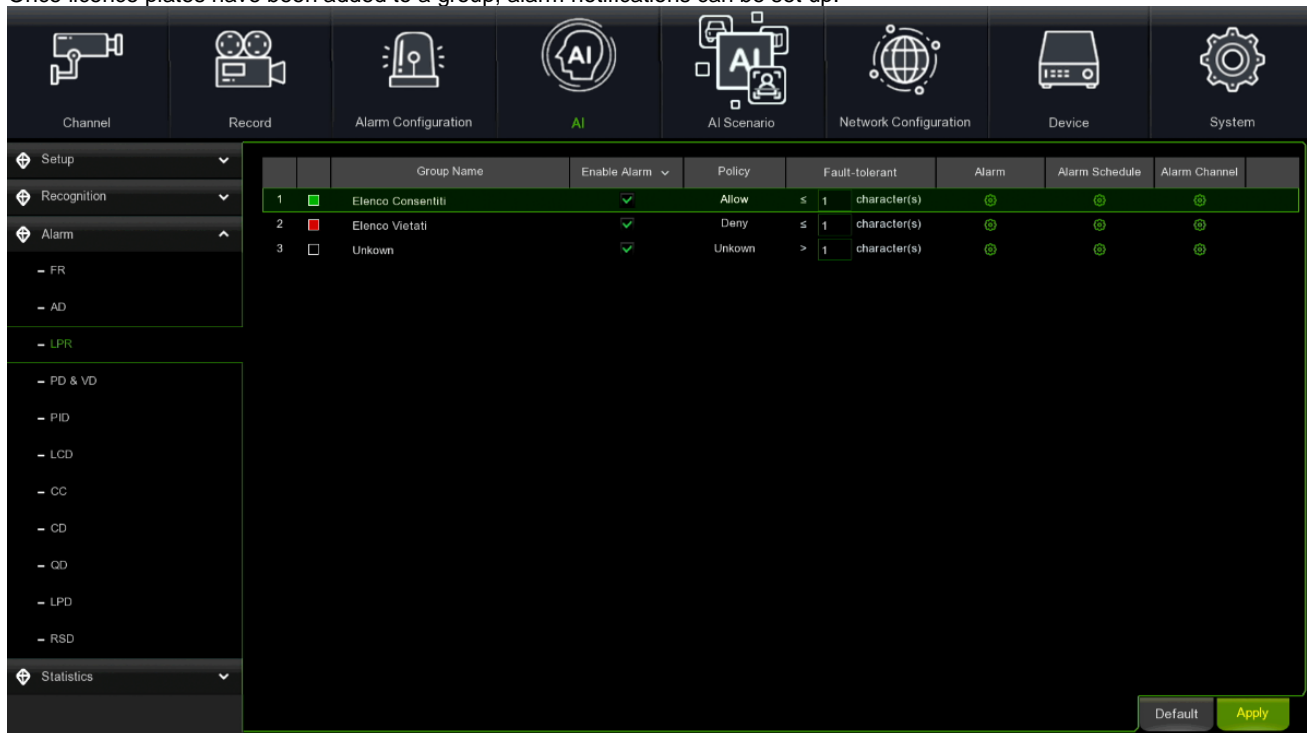
Send Email: if enabled allows an email notification to be sent after the alarm has been triggered. It is necessary to configure the e-mail data in the Remote Setup menu under E-mail Network.

Voice Prompts: when the alarm is triggered the audio file is played (The IP camera must support the voice message function).

Apply: To save the set parameters.

3.8.3.4 LPR License Plate Recognition

Once licence plates have been added to a group, alarm notifications can be set up.





Group name: Group name.

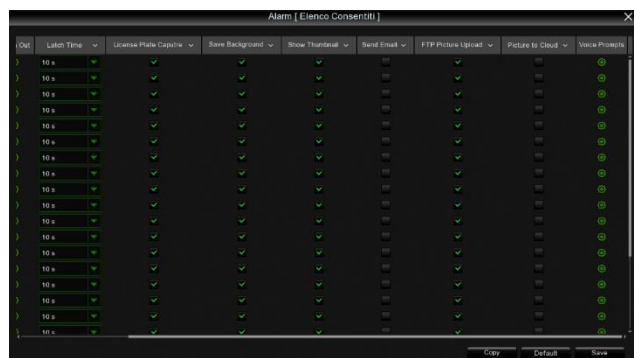
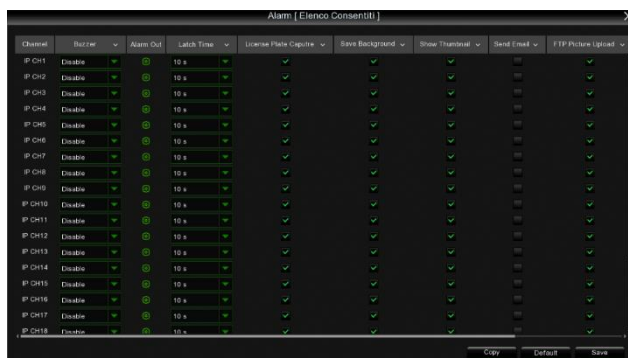
Enable Alarm: Enables or disables licence plate reading detection

Policy: Set the permissions for the number plate group alarm

Fault-tolerant: set the fault-tolerance by choosing the number of licence plate characters that can be read incorrectly.

Alarm: Press  to access the alarm setting interface.

Alarm Channel: Press  to select the channels subject to alarm.



Buzzer: allows the duration of the buzzer to be set in the event of an alarm.

Alarm Out: if enabled, allows the alarm output to be switched after the alarm has been triggered.

Latch Time: Set the alarm time, a time period of 0-5s, 10s, 20s, 40s and 60s is allowed.

License Plate Capture: Enable the capture of the licence plate after the alarm has been triggered.

Save Background: Enables the saving of the entire preview image when the LPD alarm is activated.

Show Thumbnail: When an LPD event is detected, the thumbnail will be displayed in the thumbnail.


Send Email: if enabled, allows a notification email to be sent after the alarm has been triggered. It is necessary to configure the e-mail data in the Remote Setup menu under E-mail Network.

FTP Picture Upload: If enabled, allows the alarm picture to be uploaded to the FTP server after the alarm has been triggered.

Picture to Cloud: if enabled, this allows the alarm picture to be uploaded to the cloud after the alarm has been triggered.

Voice Prompts: When the alarm is triggered, the audio file is played (The IP camera must support the voice prompt function).

Save: To save the set parameters.

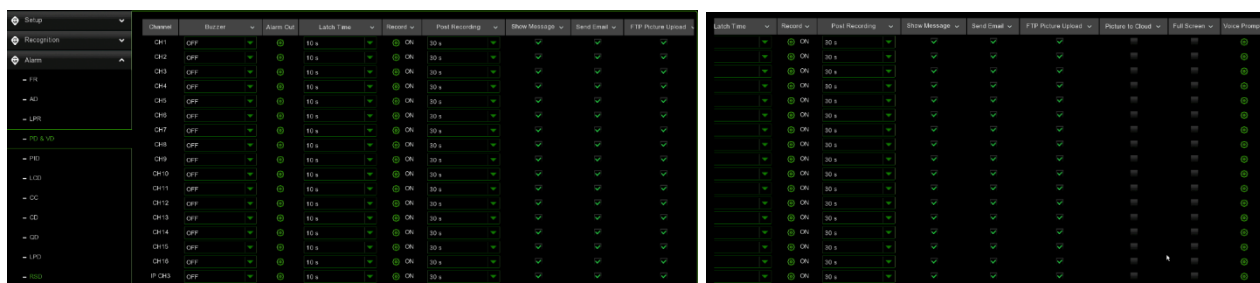
Alarm Schedule: Press  to access the alarm schedule interface. The schedule consists of a grid of 30-minute boxes. You can hold down the left mouse button to scroll through the time table and select/deselect fields.



Press **Save** to store the desired time settings.


3.8.3.5 PD & VD Pedestrian & Vehicle Detection

Click on **Alarm** to define the parameters for the alarms for human recognition and vehicle detection:



- **Channel:** Select the channel you want to configure
- **Buzzer:** This can be used to disable or to activate the buzzer to emit an alarm tone in 10, 20, 40 or 60 seconds when the detection is triggered.
- **Alarm Out:** This can be used to set to emit an alarm tone to the device if the NVR supports a connection to an external alarm device.



- **Latch Time:** This can be used to configure the alarm time in case of detection; possible values are 10 s, 20 s, 40 s, 60 s.
- **Record:** Press  and select the channel(s) you want to record when a detection is triggered.

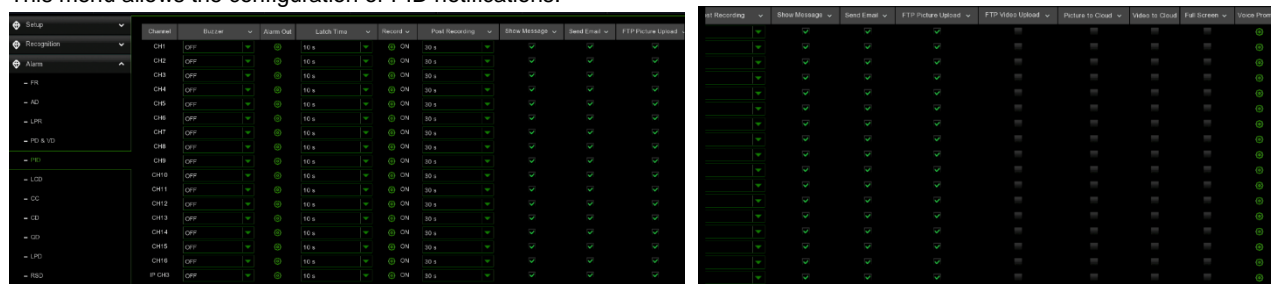


- **Post Rec.:** Set the duration of recording after the alarm event. You can set 30 seconds, 1,2,5 minutes.
- **Show Message:** The letter "S" will be appear on the screen when the function is triggered.
- **Send Email:** If an alarm is triggered, an email will be sent to the preset email account.
- **FTP Picture Upload:** This can be used to send the image to the FTP server in case of an event.

- **FTP Video to Upload:** This can be used to send the video to the FTP server in case of an event.
- **Picture to Cloud:** This can be used to send the image to Cloud Server in case of an event.
- **Video to Cloud:** This can be used to send the video to Cloud Server in case of an event.
- **Full screen:** This can be used to set displaying the video in full screen mode when an event is detected.
- **Voice Prompts:** when the alarm is triggered, the audio file is played (The IP camera must support the voice message function).
- **Apply:** to save the set parameters.

3.8.3.6 PID (Perimeter Intrusion Detection)

This menu allows the configuration of PID notifications.




Channel: Channel name

Buzzer: allows you to set the duration of the buzzer in the event of an alarm.

Alarm Out: If enabled, allows the alarm output to be switched after the alarm has been triggered.

Latch Time: Set the alarm time, a time period of 10s, 20s, 40s and 1 min is allowed.

Record: Press on  and select the channel to be recorded after alarm activation.



Post Rec.: Set the duration of recording after the alarm event. You can set 30 seconds, 1,2,5 minutes.

Show Message: If selected, shows the alarm icon when it is generated.

Send Email: if enabled allows an email notification to be sent after the alarm has been triggered. It is necessary to configure the e-mail data in the Remote Setup menu under E-mail Network.

FTP Picture Upload: If enabled, allows the alarm picture to be uploaded to the FTP server after the alarm has been triggered.

FTP Video Upload: If enabled, this allows the alarm video to be uploaded to the FTP server after the alarm has been triggered.

Picture to Cloud: If enabled, this allows you to upload the alarm picture to the cloud after the alarm has been triggered.

Video to Cloud: If enabled, this allows you to upload the alarm video to the cloud after the alarm has been triggered.

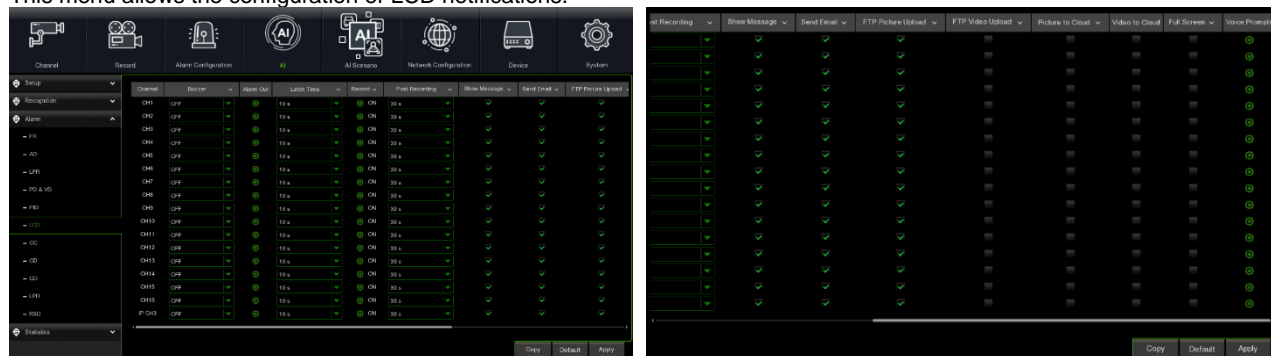
Full Screen: When the alarm is triggered, the channel will be displayed in full screen.

Voice Prompts: when the alarm is triggered the audio file will be played (The IP camera must support the voice prompt function).

Apply: to save the set parameters.

3.8.3.7 LCD (Line Crossing Detection)

This menu allows the configuration of LCD notifications.




Channel: Channel name

Buzzer: allows you to set the duration of the buzzer in the event of an alarm.

Alarm Out: If enabled, allows the alarm output to be switched after the alarm has been triggered.

Latch Time: Set the alarm time, a time period of 10s, 20s, 40s and 1 min is allowed.

Record: Press on  and select the channel to be recorded after alarm activation.



Post Rec.: Set the duration of recording after the alarm event. You can set 30 seconds, 1,2,5 minutes.

Show Message: If selected, shows the alarm icon when it is generated.

Send Email: if enabled allows an email notification to be sent after the alarm has been triggered. It is necessary to configure the e-mail data in the Remote Setup menu under E-mail Network.

FTP Picture Upload: If enabled, allows the alarm picture to be uploaded to the FTP server after the alarm has been triggered.

FTP Video Upload: If enabled, this allows the alarm video to be uploaded to the FTP server after the alarm has been triggered.

Picture to Cloud: If enabled, this allows you to upload the alarm picture to the cloud after the alarm has been triggered.

Video to Cloud: If enabled, this allows you to upload the alarm video to the cloud after the alarm has been triggered.

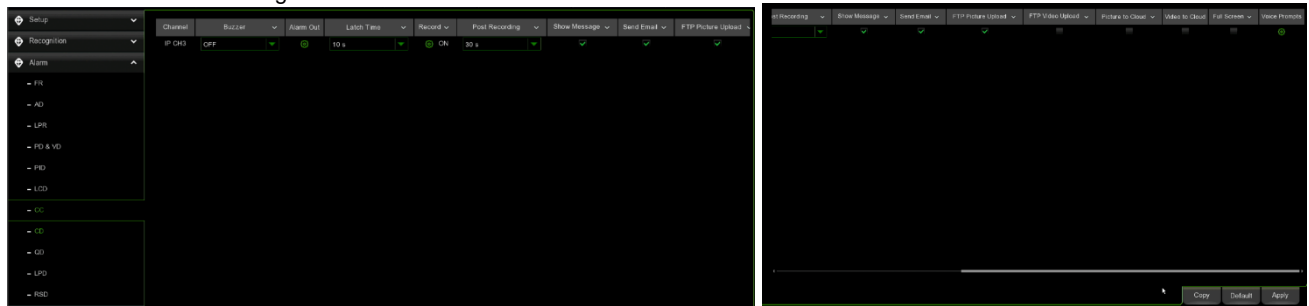
Full Screen: When the alarm is triggered, the channel will be displayed in full screen.

Voice Prompts: when the alarm is triggered the audio file will be played (The IP camera must support the voice prompt function).

Apply: to save the set parameters.

3.8.3.8 CC (Cross Counting)

This menu allows the configuration of CC notifications.




Channel: Channel name

Buzzer: allows you to set the duration of the buzzer in the event of an alarm.

Alarm Out: If enabled, allows the alarm output to be switched after the alarm has been triggered.

Latch Time: Set the alarm time, a time period of 10s, 20s, 40s and 1 min is allowed.

Record: Press on  and select the channel to be recorded after alarm activation.



Post Rec.: Set the duration of recording after the alarm event. You can set 30 seconds, 1,2,5 minutes.

Show Message: If selected, shows the alarm icon when it is generated.

Send Email: if enabled allows an email notification to be sent after the alarm has been triggered. It is necessary to configure the e-mail data in the Remote Setup menu under E-mail Network.

FTP Picture Upload: If enabled, allows the alarm picture to be uploaded to the FTP server after the alarm has been triggered.

FTP Video Upload: If enabled, this allows the alarm video to be uploaded to the FTP server after the alarm has been triggered.

Picture to Cloud: If enabled, this allows you to upload the alarm picture to the cloud after the alarm has been triggered.

Video to Cloud: If enabled, this allows you to upload the alarm video to the cloud after the alarm has been triggered.

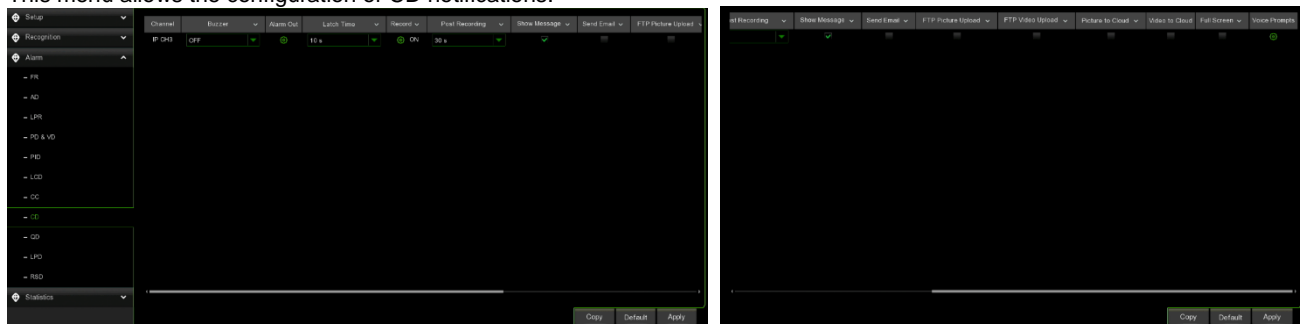
Full Screen: When the alarm is triggered, the channel will be displayed in full screen.

Voice Prompts: when the alarm is triggered the audio file will be played (The IP camera must support the voice prompt function).

Apply: to save the set parameters.

3.8.3.9 CD (Crowd Density Detection)

This menu allows the configuration of CD notifications.




Channel: Channel name

Buzzer: allows you to set the duration of the buzzer in the event of an alarm.

Alarm Out: If enabled, allows the alarm output to be switched after the alarm has been triggered.

Latch Time: Set the alarm time, a time period of 10s, 20s, 40s and 1 min is allowed.

Record: Press on  and select the channel to be recorded after alarm activation.



Post Rec.: Set the duration of recording after the alarm event. You can set 30 seconds, 1,2,5 minutes.

Show Message: If selected, shows the alarm icon when it is generated.

Send Email: if enabled allows an email notification to be sent after the alarm has been triggered. It is necessary to configure the e-mail data in the Remote Setup menu under E-mail Network.

FTP Picture Upload: If enabled, allows the alarm picture to be uploaded to the FTP server after the alarm has been triggered.

FTP Video Upload: If enabled, this allows the alarm video to be uploaded to the FTP server after the alarm has been triggered.

Picture to Cloud: If enabled, this allows you to upload the alarm picture to the cloud after the alarm has been triggered.

Video to Cloud: If enabled, this allows you to upload the alarm video to the cloud after the alarm has been triggered.

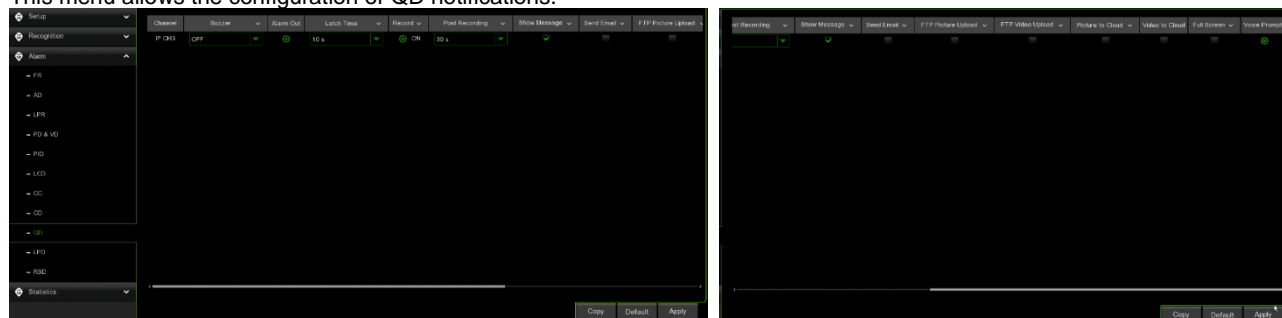
Full Screen: When the alarm is triggered, the channel will be displayed in full screen.

Voice Prompts: when the alarm is triggered the audio file will be played (The IP camera must support the voice prompt function).

Apply: to save the set parameters.

3.8.3.10 QD (Queue Length Detection)

This menu allows the configuration of QD notifications.




Channel: Channel name

Buzzer: allows you to set the duration of the buzzer in the event of an alarm.

Alarm Out: If enabled, allows the alarm output to be switched after the alarm has been triggered.

Latch Time: Set the alarm time, a time period of 10s, 20s, 40s and 1 min is allowed.

Record: Press on  and select the channel to be recorded after alarm activation.



Post Rec.: Set the duration of recording after the alarm event. You can set 30 seconds, 1,2,5 minutes.

Show Message: If selected, shows the alarm icon when it is generated.

Send Email: if enabled allows an email notification to be sent after the alarm has been triggered. It is necessary to configure the e-mail data in the Remote Setup menu under E-mail Network.

FTP Picture Upload: If enabled, allows the alarm picture to be uploaded to the FTP server after the alarm has been triggered.

FTP Video Upload: If enabled, this allows the alarm video to be uploaded to the FTP server after the alarm has been triggered.

Picture to Cloud: If enabled, this allows you to upload the alarm picture to the cloud after the alarm has been triggered.

Video to Cloud: If enabled, this allows you to upload the alarm video to the cloud after the alarm has been triggered.

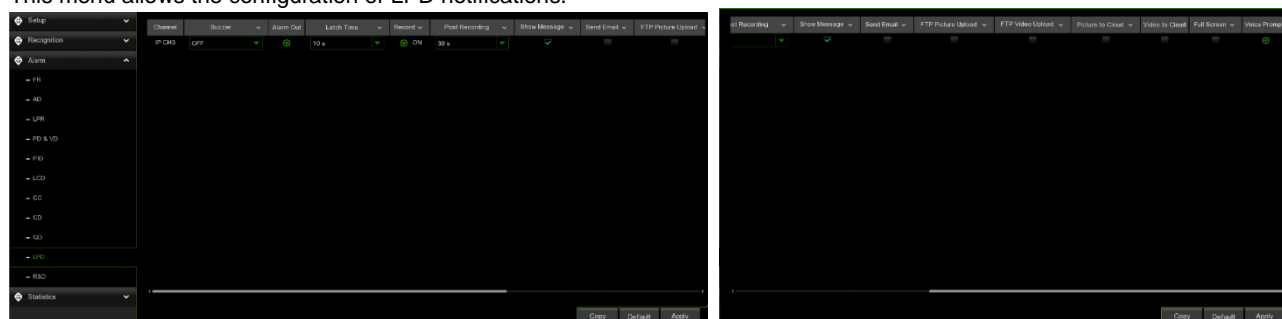
Full Screen: When the alarm is triggered, the channel will be displayed in full screen.

Voice Prompts: when the alarm is triggered the audio file will be played (The IP camera must support the voice prompt function).

Apply: to save the set parameters.

3.8.3.11 LPD (License Plate Detection)

This menu allows the configuration of LPD notifications.




Channel: Channel name

Buzzer: allows you to set the duration of the buzzer in the event of an alarm.

Alarm Out: If enabled, allows the alarm output to be switched after the alarm has been triggered.

Latch Time: Set the alarm time, a time period of 10s, 20s, 40s and 1 min is allowed.

Record: Press on  and select the channel to be recorded after alarm activation.



Post Rec.: Set the duration of recording after the alarm event. You can set 30 seconds, 1,2,5 minutes.

Show Message: If selected, shows the alarm icon when it is generated.

Send Email: if enabled allows an email notification to be sent after the alarm has been triggered. It is necessary to configure the e-mail data in the Remote Setup menu under E-mail Network.

FTP Picture Upload: If enabled, allows the alarm picture to be uploaded to the FTP server after the alarm has been triggered.

FTP Video Upload: If enabled, this allows the alarm video to be uploaded to the FTP server after the alarm has been triggered.

Picture to Cloud: If enabled, this allows you to upload the alarm picture to the cloud after the alarm has been triggered.

Video to Cloud: If enabled, this allows you to upload the alarm video to the cloud after the alarm has been triggered.

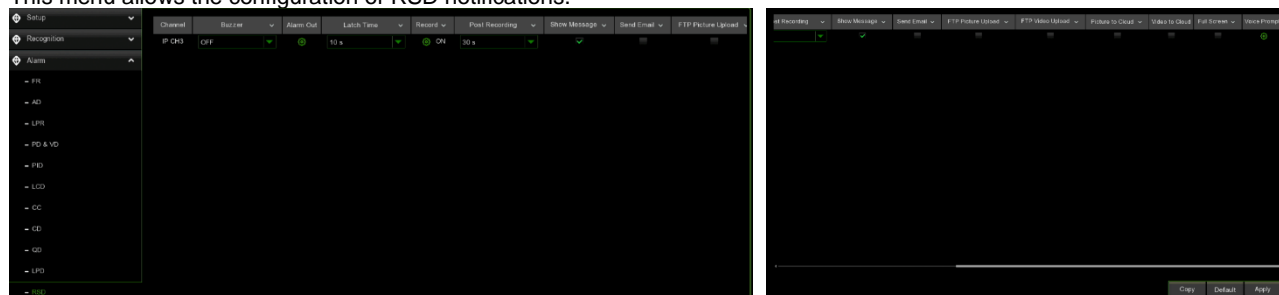
Full Screen: When the alarm is triggered, the channel will be displayed in full screen.

Voice Prompts: when the alarm is triggered the audio file will be played (The IP camera must support the voice prompt function).

Apply: to save the set parameters.

3.8.3.12 RSD (Rare Sound Detection)

This menu allows the configuration of RSD notifications.




Channel: Channel name

Buzzer: allows you to set the duration of the buzzer in the event of an alarm.

Alarm Out: If enabled, allows the alarm output to be switched after the alarm has been triggered.

Latch Time: Set the alarm time, a time period of 10s, 20s, 40s and 1 min is allowed.

Record: Press on  and select the channel to be recorded after alarm activation.



Post Rec.: Set the duration of recording after the alarm event. You can set 30 seconds, 1,2,5 minutes.

Show Message: If selected, shows the alarm icon when it is generated.

Send Email: if enabled allows an email notification to be sent after the alarm has been triggered. It is necessary to configure the e-mail data in the Remote Setup menu under E-mail Network.

FTP Picture Upload: If enabled, allows the alarm picture to be uploaded to the FTP server after the alarm has been triggered.

FTP Video Upload: If enabled, this allows the alarm video to be uploaded to the FTP server after the alarm has been triggered.

Picture to Cloud: If enabled, this allows you to upload the alarm picture to the cloud after the alarm has been triggered.

Video to Cloud: If enabled, this allows you to upload the alarm video to the cloud after the alarm has been triggered.

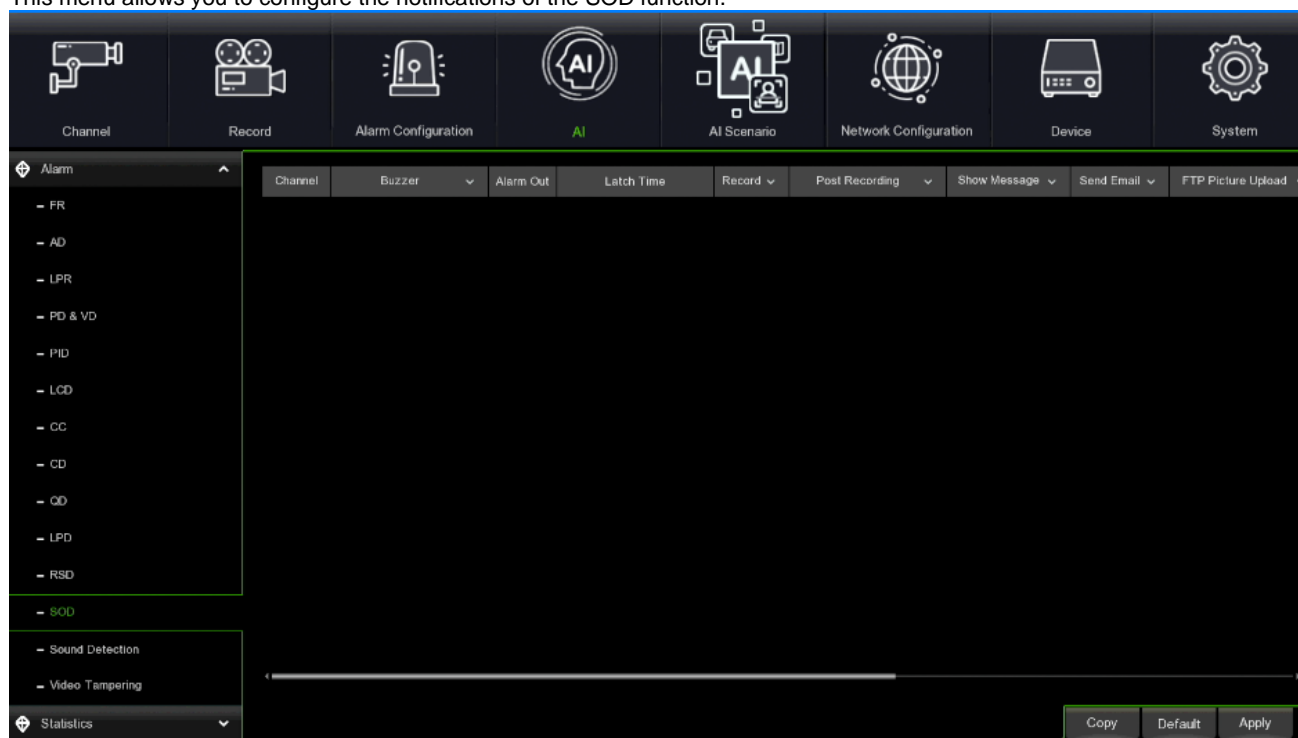
Full Screen: The channel will be displayed in full screen when the alarm is triggered.

Voice Prompts: when the alarm is triggered the audio file will be played (The IP camera must support the voice prompt function).

Apply: to save the set parameters.

3.8.3.13 SOD Stationary Object Detection

This menu allows you to configure the notifications of the SOD function.




Channel: Channel name

Buzzer: allows you to set the duration of the buzzer in the event of an alarm.

Alarm Out: If enabled, allows the alarm output to be switched after the alarm has been triggered.

Latch Time: Set the alarm time, a time period of 10s, 20s, 40s and 1 min is allowed.

Record: Press on  and select the channel to be recorded after alarm activation.



Post Rec.: Set the duration of recording after the alarm event. You can set 30 seconds, 1,2,5 minutes.

Show Message: If selected, shows the alarm icon when it is generated.

Send Email: If enabled allows an email notification to be sent after the alarm has been triggered. It is necessary to configure the e-mail data in the Remote Setup menu under E-mail Network.

FTP Picture Upload: If enabled, allows the alarm picture to be uploaded to the FTP server after the alarm has been triggered.

FTP Video Upload: If enabled, this allows the alarm video to be uploaded to the FTP server after the alarm has been triggered.

Picture to Cloud: If enabled, this allows you to upload the alarm picture to the cloud after the alarm has been triggered.

Video to Cloud: If enabled, this allows you to upload the alarm video to the cloud after the alarm has been triggered.

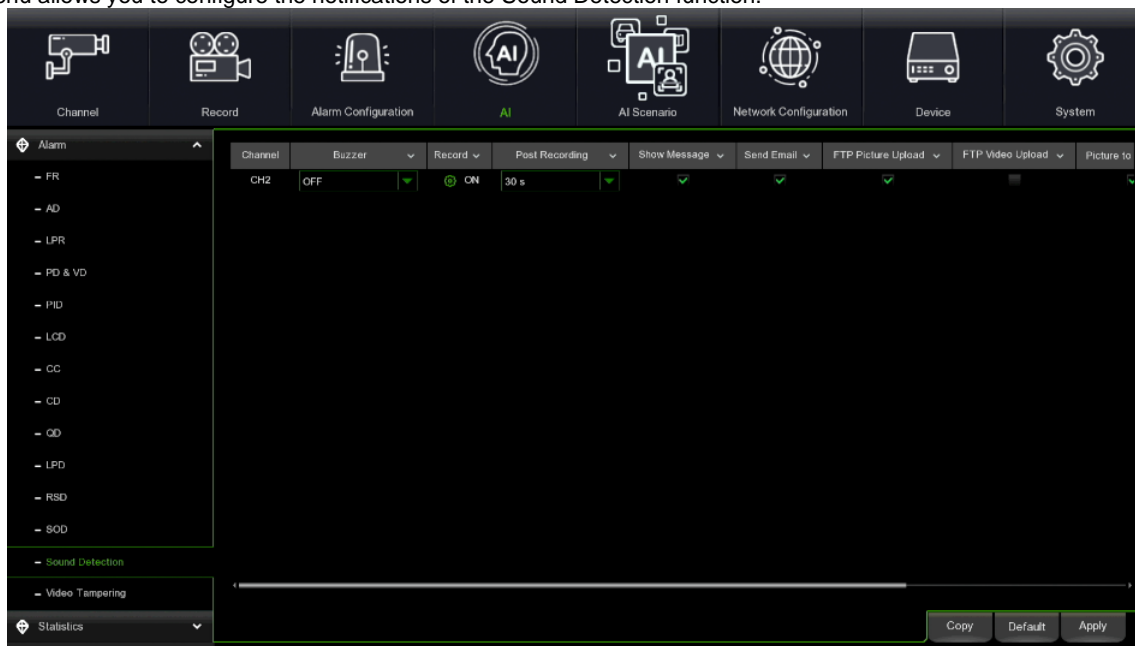
Full Screen: The channel will be displayed in full screen when the alarm is triggered.

Voice Prompts: when the alarm is triggered the audio file will be played (The IP camera must support the voice prompt function).

Apply: to save the set parameters.

3.8.3.14 Sound Detection

This menu allows you to configure the notifications of the Sound Detection function.




Channel: Channel name

Buzzer: allows you to set the duration of the buzzer in the event of an alarm.

Alarm Out: If enabled, allows the alarm output to be switched after the alarm has been triggered.

Latch Time: Set the alarm time, a time period of 10s, 20s, 40s and 1 min is allowed.

Record: Press on  and select the channel to be recorded after alarm activation.



Post Rec.: Set the duration of recording after the alarm event. You can set 30 seconds, 1,2,5 minutes.

Show Message: If selected, shows the alarm icon when it is generated.

Send Email: If enabled allows an email notification to be sent after the alarm has been triggered. It is necessary to configure the e-mail data in the Remote Setup menu under E-mail Network.

FTP Picture Upload: If enabled, allows the alarm picture to be uploaded to the FTP server after the alarm has been triggered.

FTP Video Upload: If enabled, this allows the alarm video to be uploaded to the FTP server after the alarm has been triggered.

Picture to Cloud: If enabled, this allows you to upload the alarm picture to the cloud after the alarm has been triggered.

Video to Cloud: If enabled, this allows you to upload the alarm video to the cloud after the alarm has been triggered.

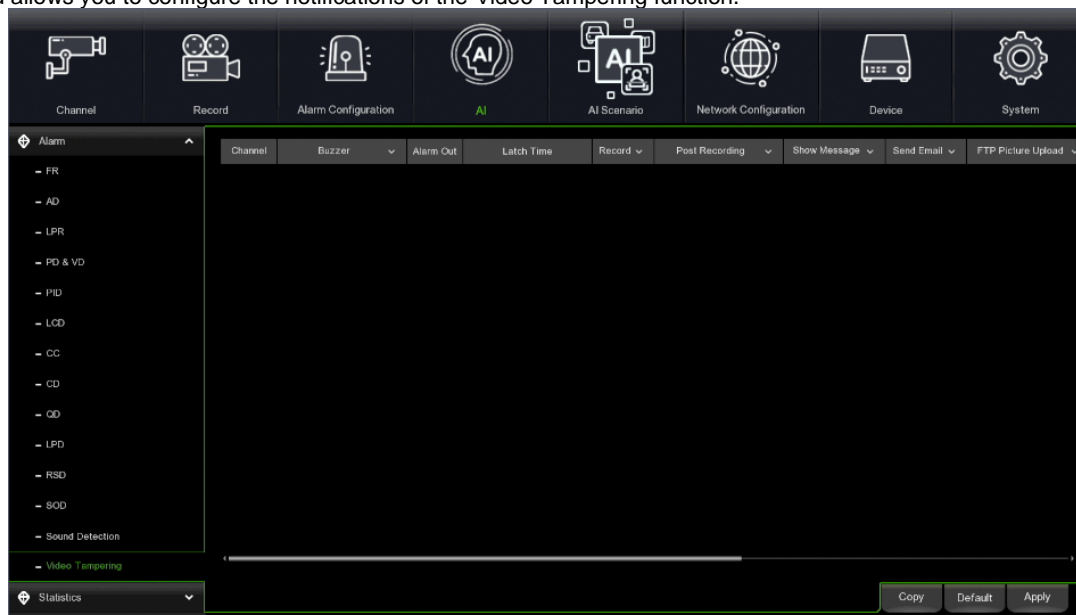
Full Screen: The channel will be displayed in full screen when the alarm is triggered.

Voice Prompts: when the alarm is triggered the audio file will be played (The IP camera must support the voice prompt function).

Apply: to save the set parameters.

3.8.3.15 Video Tampering

This menu allows you to configure the notifications of the Video Tampering function.




Channel: Channel name

Buzzer: allows you to set the duration of the buzzer in the event of an alarm.

Alarm Out: If enabled, allows the alarm output to be switched after the alarm has been triggered.

Latch Time: Set the alarm time, a time period of 10s, 20s, 40s and 1 min is allowed.

Record: Press on  and select the channel to be recorded after alarm activation.



Post Rec.: Set the duration of recording after the alarm event. You can set 30 seconds, 1,2,5 minutes.

Show Message: If selected, shows the alarm icon when it is generated.

Send Email: if enabled allows an email notification to be sent after the alarm has been triggered. It is necessary to configure the e-mail data in the Remote Setup menu under E-mail Network.

FTP Picture Upload: If enabled, allows the alarm picture to be uploaded to the FTP server after the alarm has been triggered.

FTP Video Upload: If enabled, this allows the alarm video to be uploaded to the FTP server after the alarm has been triggered.

Picture to Cloud: If enabled, this allows you to upload the alarm picture to the cloud after the alarm has been triggered.

Video to Cloud: If enabled, this allows you to upload the alarm video to the cloud after the alarm has been triggered.

Full Screen: The channel will be displayed in full screen when the alarm is triggered.

Voice Prompts: when the alarm is triggered the audio file will be played (The IP camera must support the voice prompt function).

Apply: to save the set parameters.

3.8.4 STATISTICS

In this submenu, statistics can be viewed and exported according to the chosen intelligent video analysis function.

3.8.4.1 FR Statistics

Statistics for face recognition are implemented.

Select Groups, then select Channels then select Day/Week/Month/Quarter/Year.



press to show calendar, then you can select the date desired. Press **Export** to save the data to a U disk.

3.8.4.2 PD & VD Statistics

Statistics for human recognition and vehicle detection are implemented.

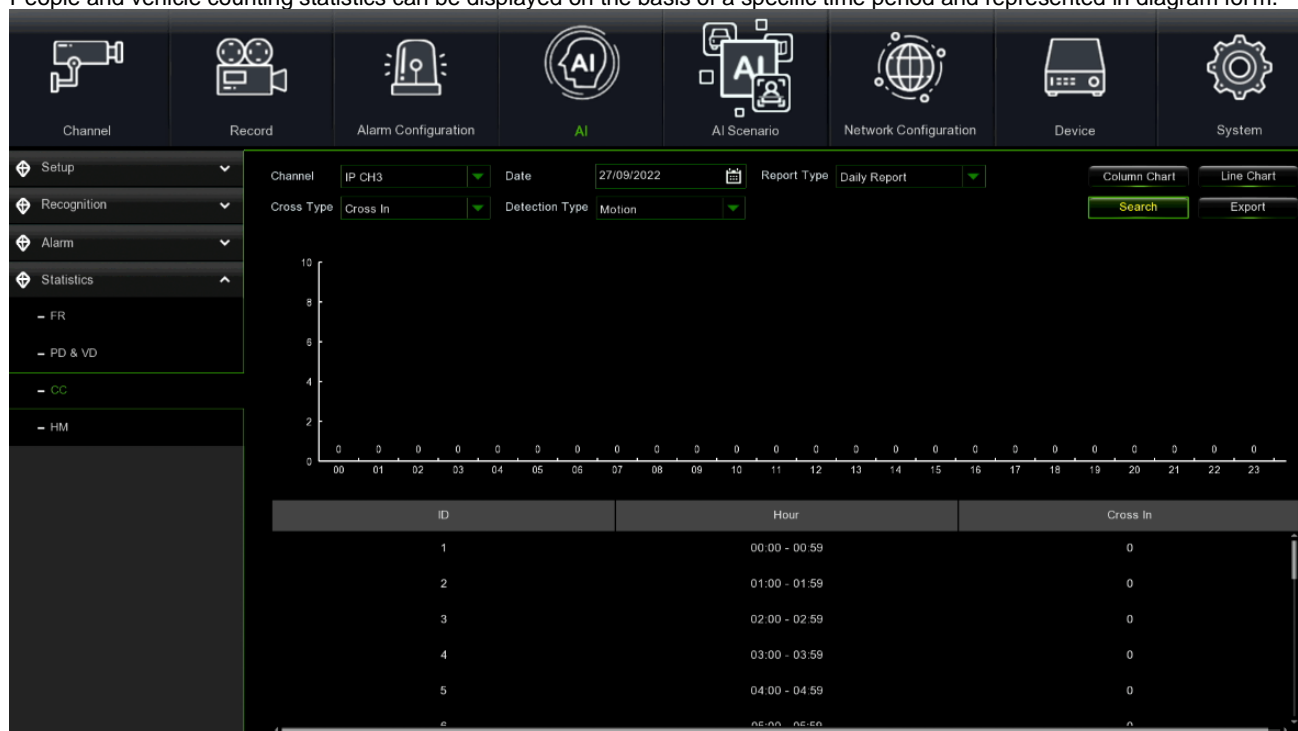
Select AI then select Channels then select Day/Week/Month/Quarter/Year.



press to show calendar, then you can select the date desired. Press **Export** to save the data to a U disk.

3.8.4.3 CC Statistics

People and vehicle counting statistics can be displayed on the basis of a specific time period and represented in diagram form.



Channel: Select the desired channel.

Date: Select the date of the search.

Report Type: You can choose between Daily Report, Weekly Report, Monthly Report, Annual Report.

Cross Type: you can select Cross In or Cross Out

Detection Type: you can choose between Motion, Person, Vehicle.

Press on **Search** to search the results.

Export: The result is exported to an external USB drive.

Two display modes of the statistics can be selected, column graph or line graph.

3.8.4.4 HM Statistics

It is possible to display heat map statistics based on a specific time period and represented as a coloured map or graph.



Channel: Select the desired channel.

Date: Select the date of the search.

Report Type: Select from Daily Report, Weekly Report, Monthly Report, Annual Report.

Start Hour: Select the start hour.

End Hour: Select the End Hour.

Press on **Search** to search for results.

Export: The result is exported to an external USB drive.

Two display modes of the statistics can be selected, columnar time graph or spatial heat map.

In the latter case, the red colour coincides with the part of greatest activity and the blue with the part of least activity.



3.9 AI SCENARIO

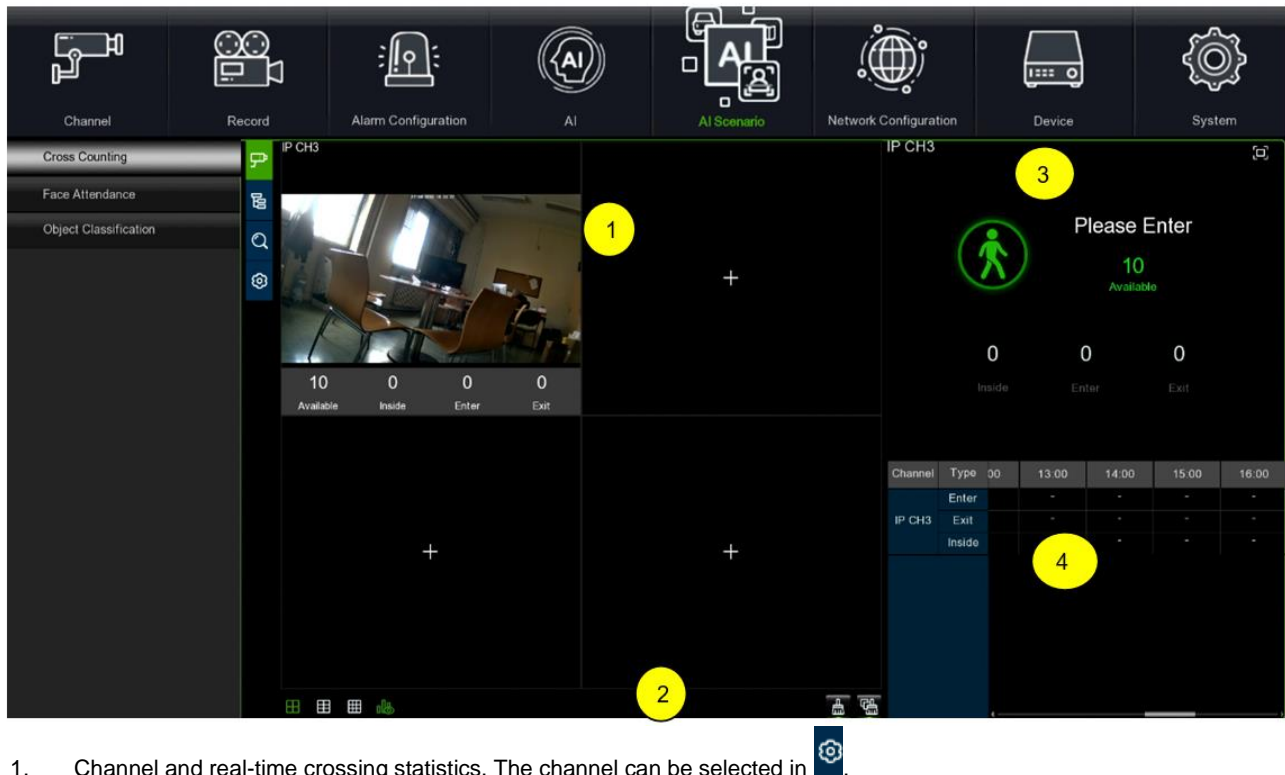
In this section you can set up intelligent analysis scenarios.

3.9.1 CROSS COUNTING

It is an AI application based on cross-counting functions that helps to control the attendance of customers/visitors/vehicles in public places such as restaurants, parks, zoos, theatres, museums and car parks.

3.9.1.1 Channel








Enables real-time counting and display of results through a single camera. Used mainly for small locations with single entrances and exits.



1. Channel and real-time crossing statistics. The channel can be selected in .

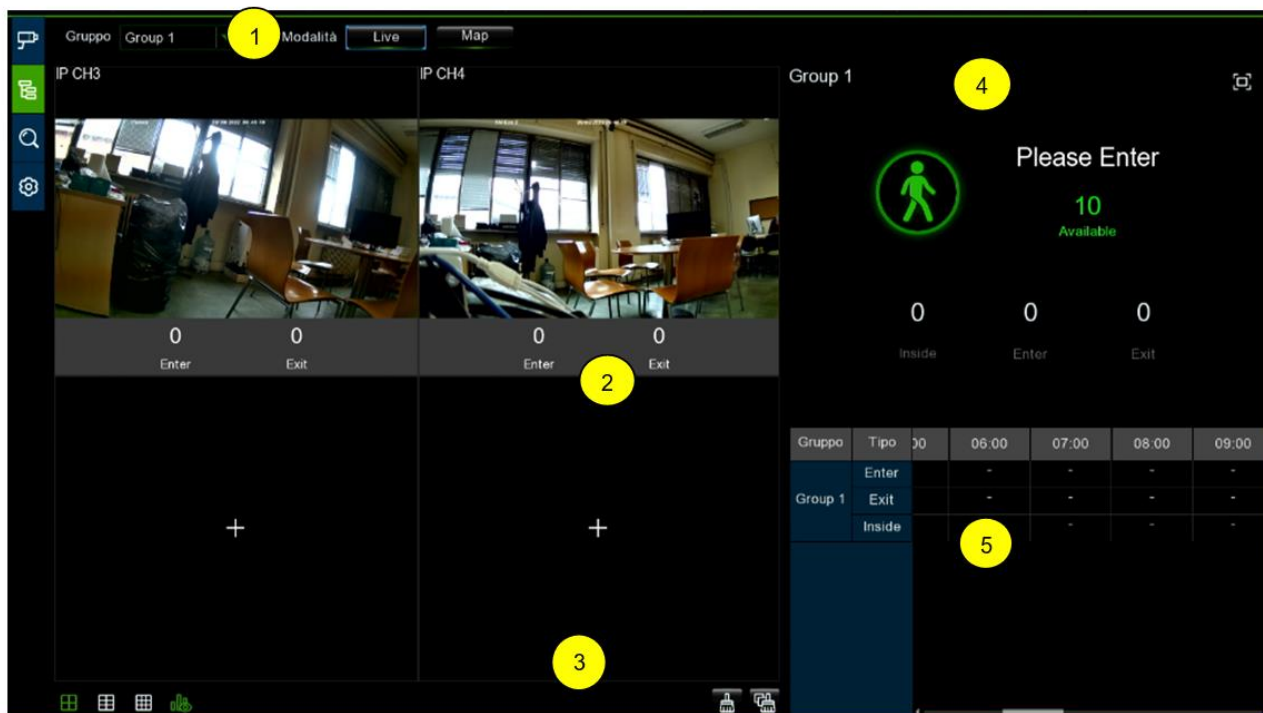


Available: Number of remaining places allowed.
Inside: Current quantity present in the monitoring area.
Enter: Number of registered inputs.
Exit: Number of recorded exits.

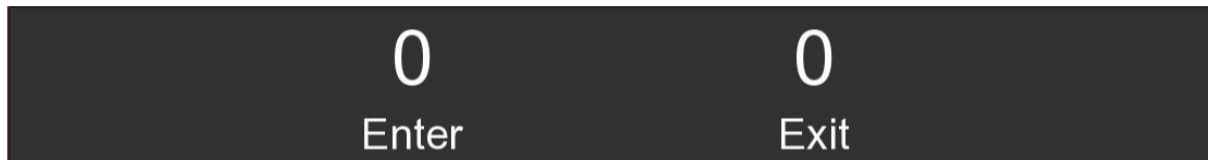
2. Select the desired number of windows: 4, 6, 9 windows   . Press on  to display/hide statistics for the selected channel. Press on  to clear current channel statistics; press on  to clear all channel statistics.
3. Real-time count data, press on  to display total statistics on internal screen.
4. Data and output information for each channel in each time period.

3.9.1.2 Group

Allows statistics and results to be displayed in real time per group. Mainly used for large venues with multiple camera-monitored entrances.



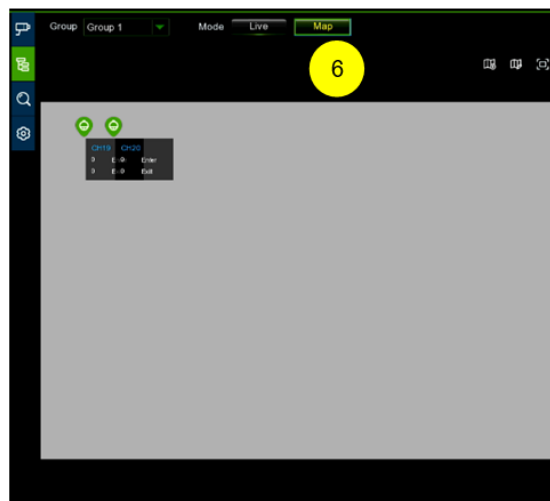
1. **Group:** allows you to select the camera group whose information you wish to view. **Live:** Displays the preview screen and status of the channels appearing in the group. **Map:** shows the information on the loaded map.
2. Shows the camera and real-time line-crossing statistic data:




Enter: Number of recorded inputs

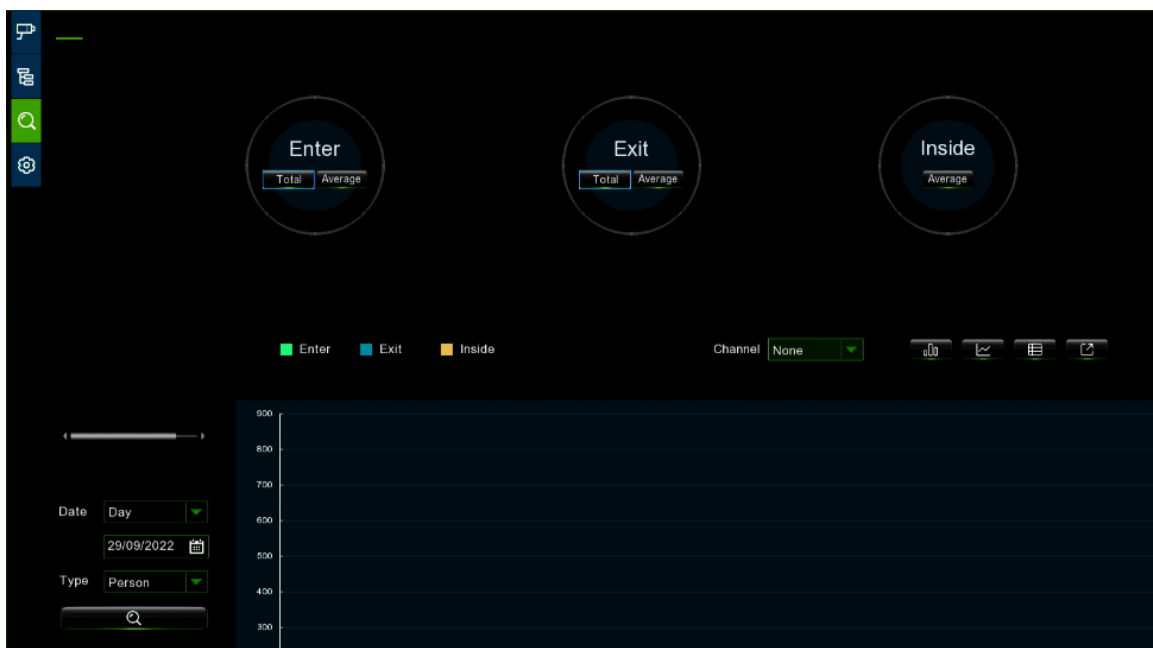
Exit: Number of recorded outputs.

3. Select the desired number of windows: 4, 6, 9 windows . Press on to display/hide statistics of the selected group. Press on to delete statistics of the current group; press on to delete all statistics of the group.
4. Real-time count data, press on to display total statistics on the internal screen.
5. Information on data and outputs of each group in each time period.
6. **Configuring Map Information**
Press on to add the Map. Press on to set the camera position on the map. Press on to display full-screen map information and the current group's crossing statistics.



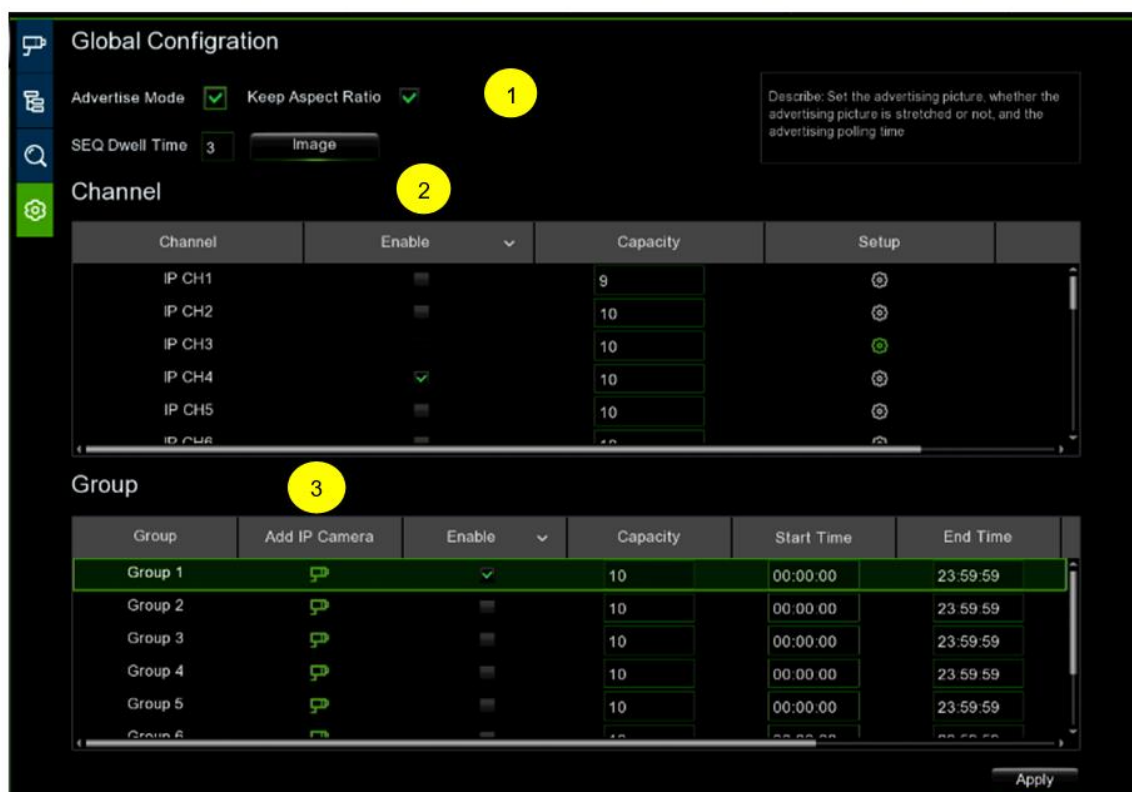
3.9.1.3 Search

Allows you to search separately for statistical data by channel or group. Select the channel or group to search for, set the search duration by day, week, month or year and select the type of search (Person/Vehicle/Motion). Press on the search icon  and the results will appear on the right side of the window.



3.9.1.4 Setup

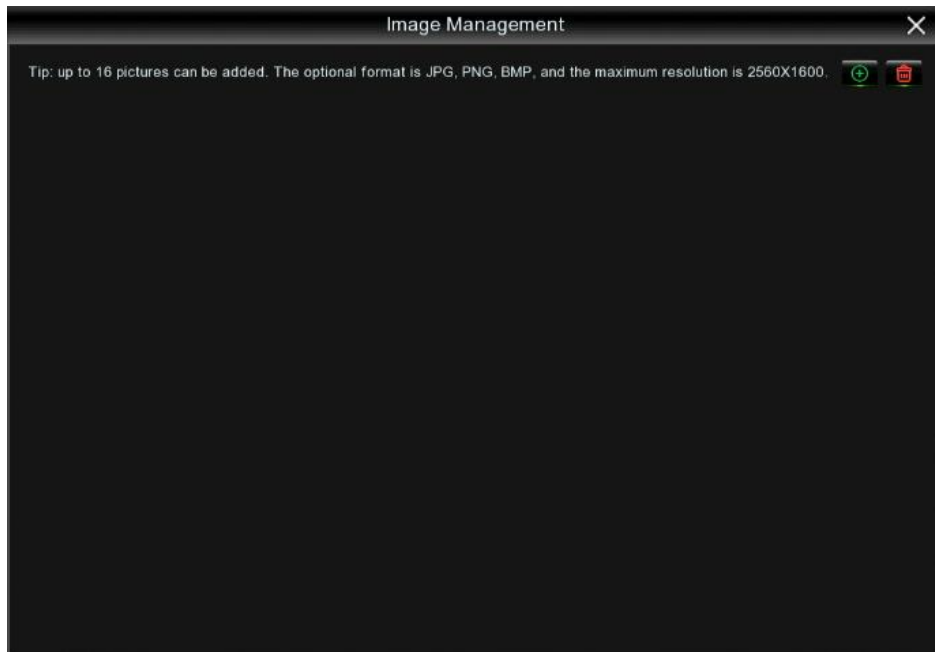
Allows you to set the configuration of the individual channel or desired camera group.





Channel	Enable	Capacity	Setup
IP CH1	<input type="checkbox"/>	9	
IP CH2	<input type="checkbox"/>	10	
IP CH3	<input type="checkbox"/>	10	
IP CH4	<input checked="" type="checkbox"/>	10	
IP CH5	<input type="checkbox"/>	10	
IP CH6	<input type="checkbox"/>	10	


Group	Add IP Camera	Enable	Capacity	Start Time	End Time
Group 1		<input checked="" type="checkbox"/>	10	00:00:00	23:59:59
Group 2		<input type="checkbox"/>	10	00:00:00	23:59:59
Group 3		<input type="checkbox"/>	10	00:00:00	23:59:59
Group 4		<input type="checkbox"/>	10	00:00:00	23:59:59
Group 5		<input type="checkbox"/>	10	00:00:00	23:59:59
Group 6		<input type="checkbox"/>	10	00:00:00	23:59:59





1. Select **Advertise Mode** to set AD mode. Set the **SEQ Dwell Time** in seconds that refers to the time each image stays on the screen (default time set to 3 seconds). Press on **Image** to load advertising images from the USB device (supports up to 16 images in jpg, png and bmp format with a maximum resolution of 2560*1600).

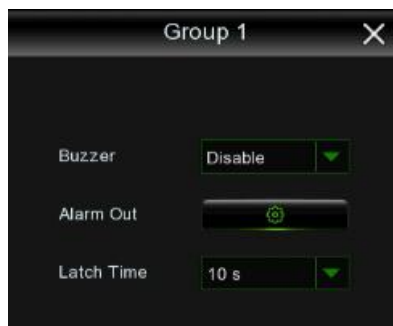


Press on  to add a new image; press on  to delete added images one at a time.

Check the Keep Aspect Ratio box if you wish to display an image with the original aspect ratio, or uncheck the box if you wish the image to stretch and appear full screen.

Return to camera or group viewing mode and press the full screen button  in the top right-hand corner to display the image and live count data for the selected camera or group.


2. Select **Enable** to enable the camera you wish to display on the channel page. If the camera supports AI functionality, the **Setup** and **Alarm** icons  will be green, otherwise they will remain grey . Set the **Capacity** value representing the maximum presence limit. Press on **Setup**  to configure the detection conditions. Press on **Alarm**  to set alarm notifications when the number is 0.



Buzzer: Set the duration of the buzzer in seconds when the available number is 0.

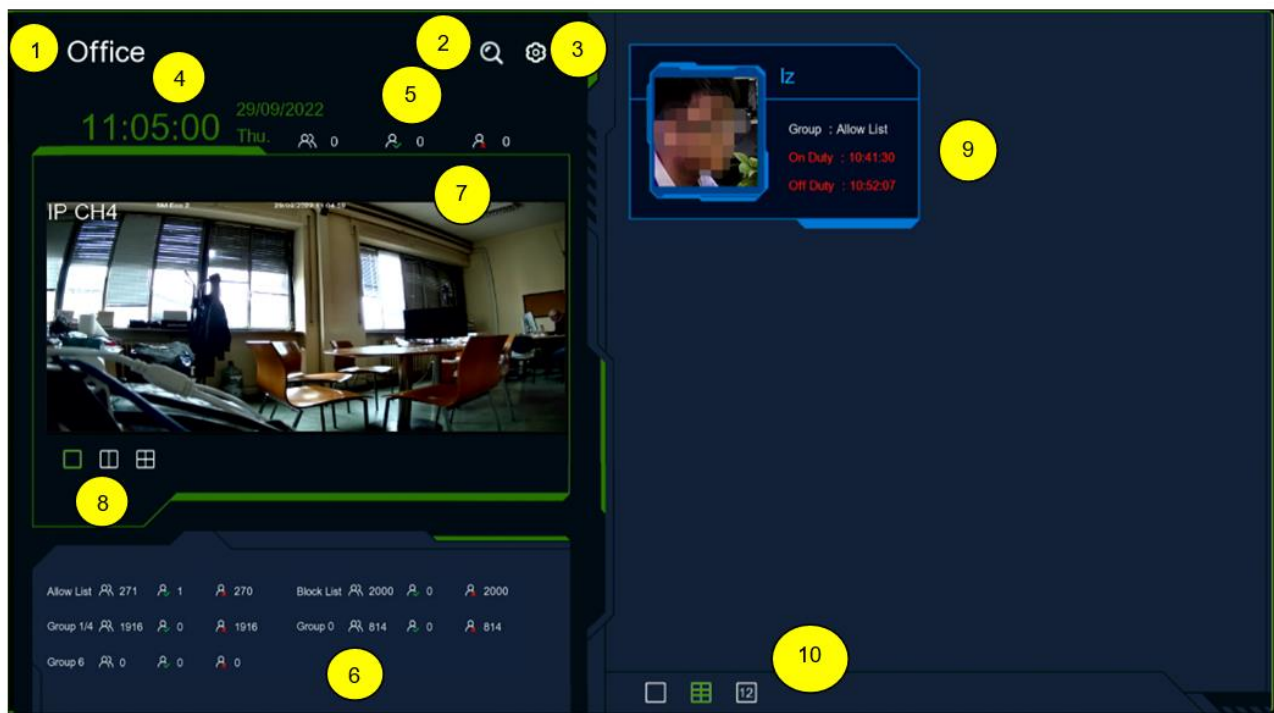
Alarm Out: Set the switching of the HVR or camera outputs (if available).

Latch Time: Set the output switching time when the number is 0.

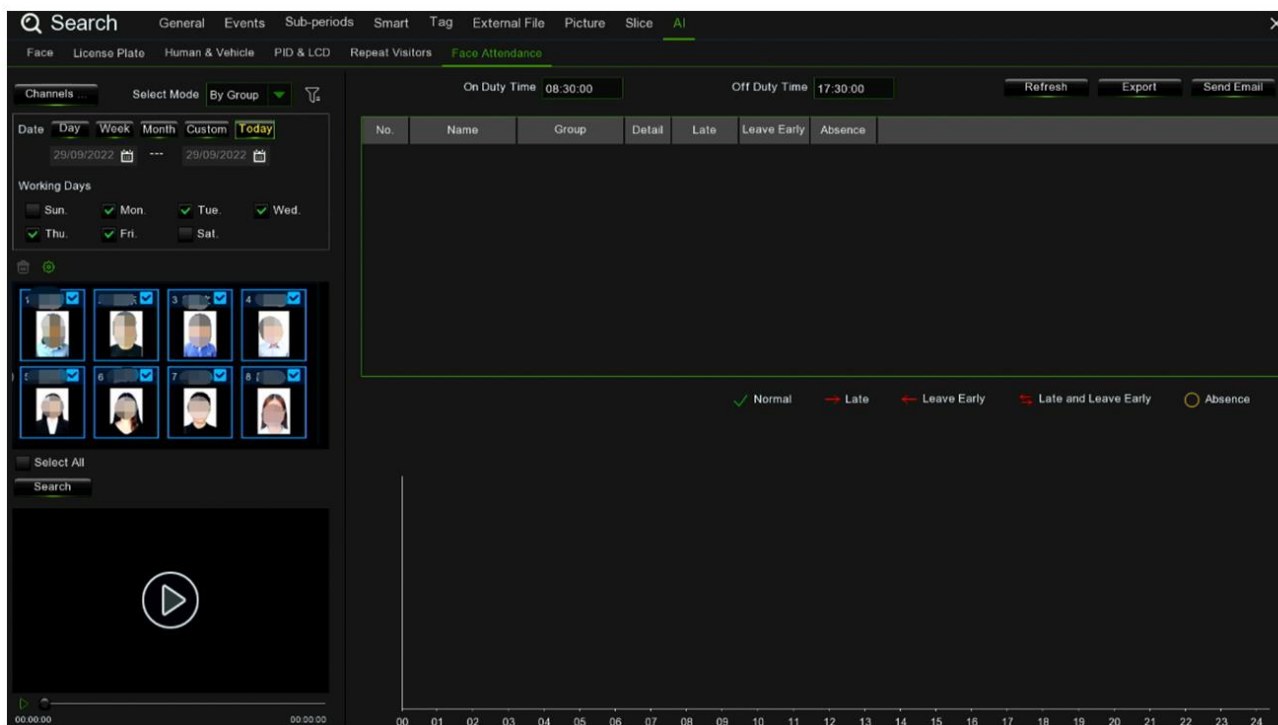
3. Press on **Add IP Camera**  to add cameras to a group. Up to eight groups can be configured, but only one group can be associated per camera. If cameras are enabled in channel view mode, they cannot be added to any group. Check the **Enable** box to activate the group. You can set the maximum number of presences **Capacity**, **Start Time**, **End Time**, **Detection Type** (person, vehicle and motion) and **Alarm** notifications.


3.9.2 FACE ATTENDANCE

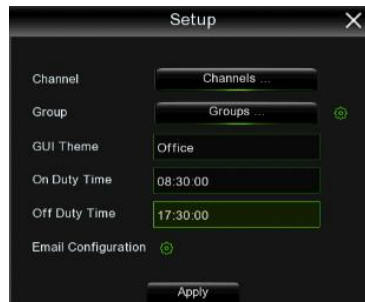
This menu manages the attendance screen, which can record both attendance and results in real time.



1. Name of the face presence interface (GUI Theme)
2. Press up to access the face search interface (Face Attendance) in playback and select face images in the face group as default.

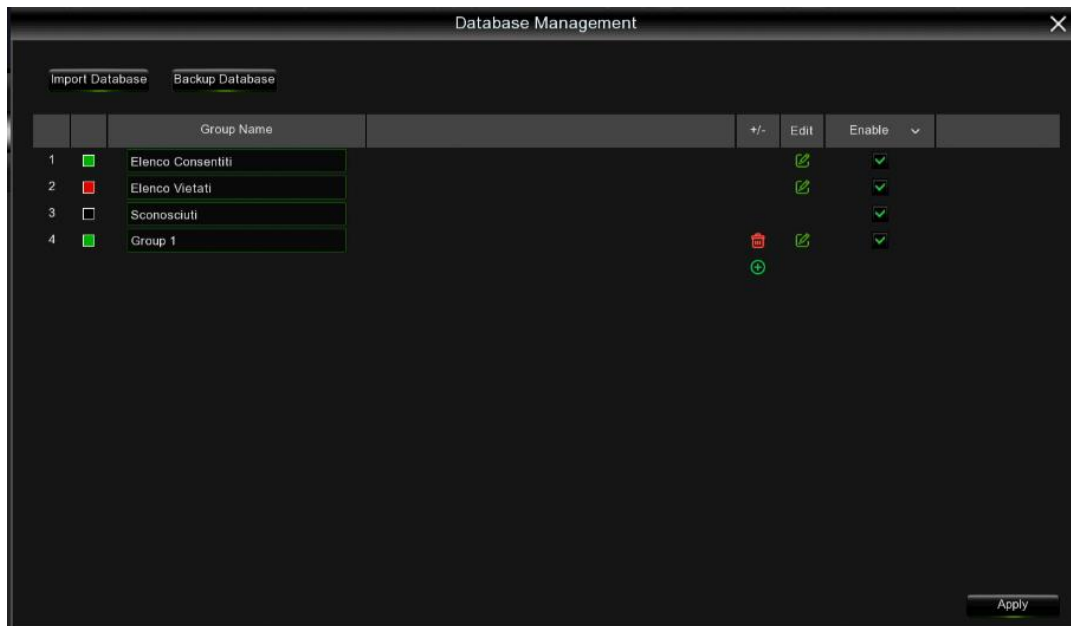


3. Press on  to access the configuration interface.



Channels: Select the desired camera.


Groups: select faces from the desired database. Press on  to access the AI face database management interface.

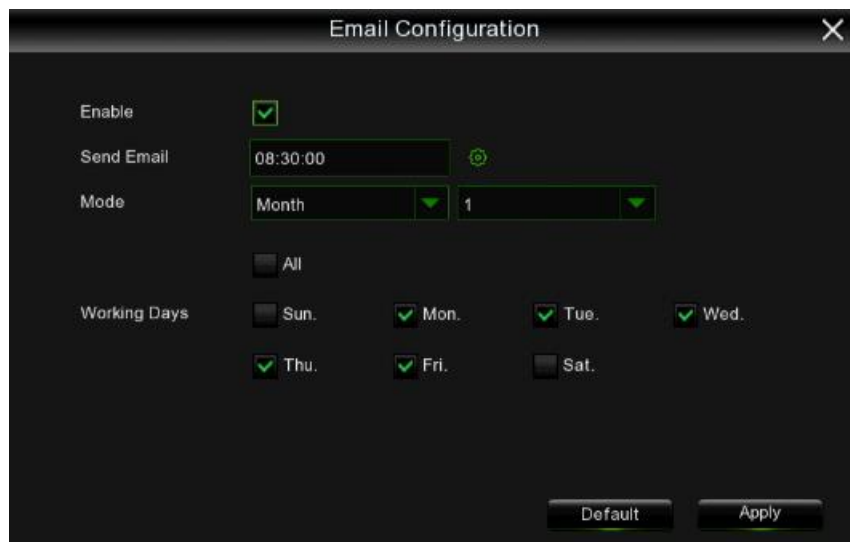


GUI Theme: Set the name that will be displayed on the face presence GUI.


On Duty Time: Set the service start time.

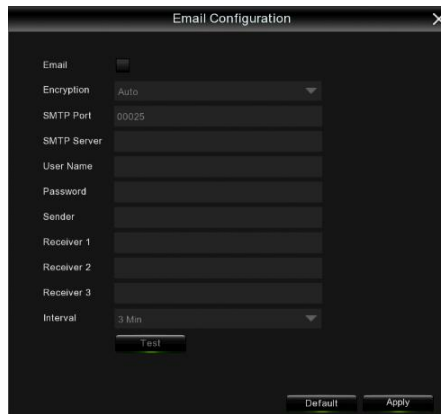
Off Duty Time: Set the service end time.

Email configuration: Press on  to set the conditions for sending the face presence result by e-mail.



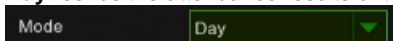
Enable: send an email with the attendance results.

Send Email: Set the time for sending the attendance results email. Press on  to set the parameters of the e-mail address to which the results file is to be sent. For further details please refer to the E-mail configuration section in this manual.

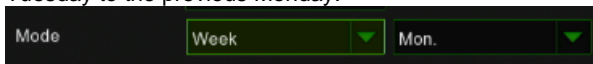


Mode: choose the mode for sending attendance results, day, week, month.

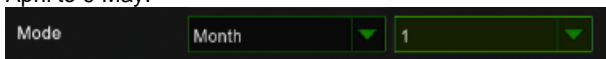
- ◆ **Day:** sends the attendance results of the previous day once a day.



- ◆ **Week:** Sends attendance results once a week. It is possible to choose the week of which to send the e-mail. For example: if you set Monday as the day to send the email, the attendance record that is sent will be from the previous Monday to Sunday. Again: if you set Tuesday as the day to send the email, the attendance record sent will be from the previous Tuesday to the previous Monday.



- ◆ **Month:** You can set the day on which each month the results file of the previous month is sent. For example: If you set the 10th of each month, the attendance record sent will be from the 10th of the previous month until the 9th of the current month. So if I wish to receive the email on 10 May, in it I will find the attendance record from 10 April to 9 May.



Working Days: Select a specific working day or all (each day is a working day).

Apply: Press **Apply** to save the settings.

Default: Returns the E-mail sending settings to the factory default settings.

4. Displays the current date and time.
5. Total number of current attendances.



Total number of attendances required.



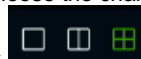
Number of attendances.



No attendance.

6. The presence status of each face group.

7. The camera display. Press on  and select **Channels** to choose the channels to be displayed.



8. Select the number of windows, single, double or four windows

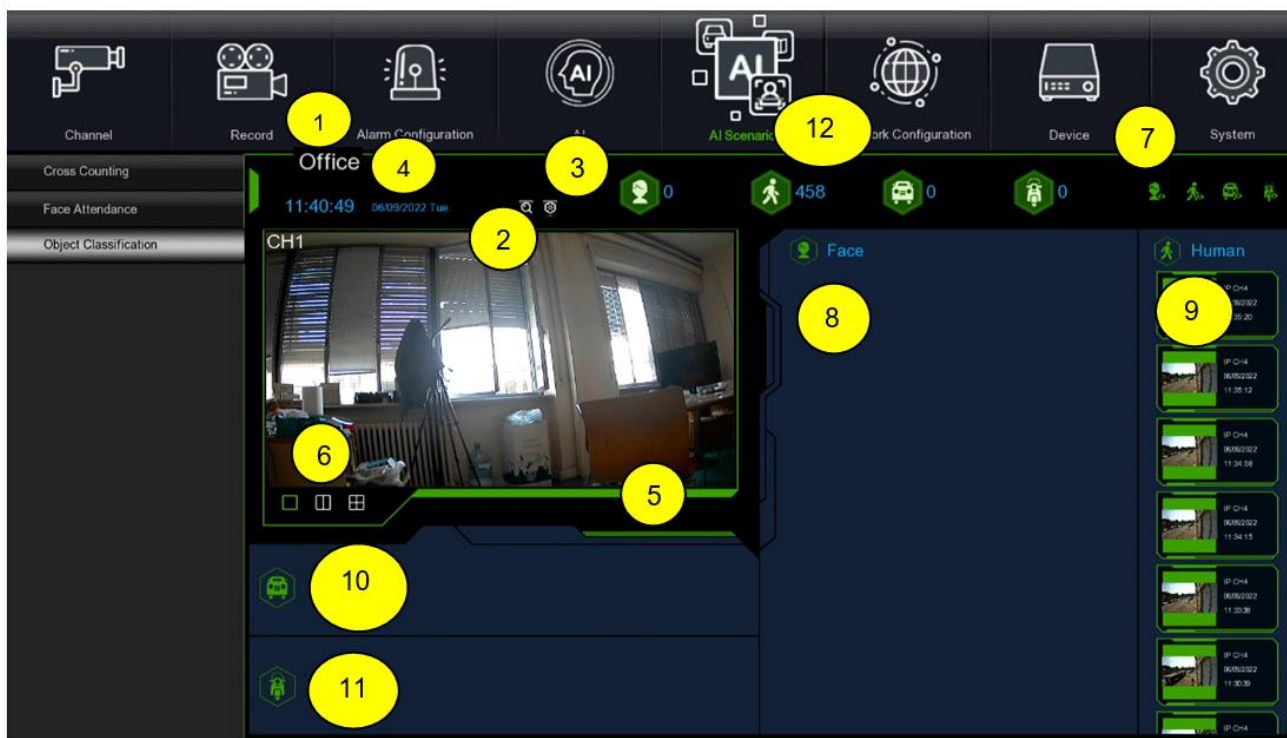
9. Real-time Face Presence Notification: Displays the person's face image, name, group name, and presence/absence time.

10. The interface allows you to choose the maximum number of face presence notifications, 1, 6, 12




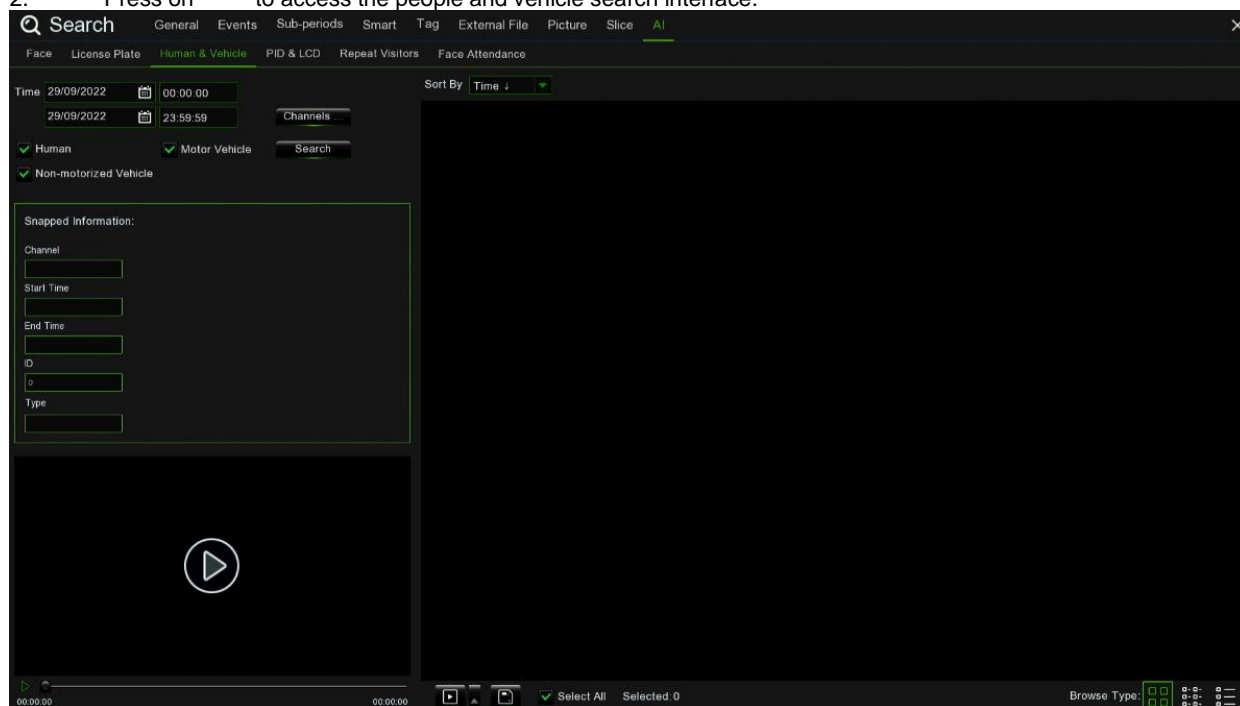
3.9.3 OBJECT CLASSIFICATION


It is the real-time, full-screen display interface of face, person, motor vehicle and non-motor vehicle detection.

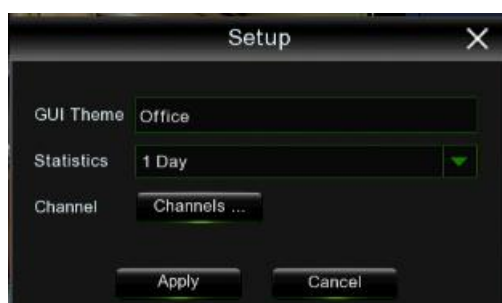


1. Name of the vehicle and object statistics interface.

2. Press on  to access the people and vehicle search interface.






3. Press on  to access the configuration page.



GUI Theme: Name displayed on the interface.

Statistics: The statistics time period can be set between 1, 2, 3, 4, 5, 6, 7 days, week, month and year.

Channel: Select the channels whose statistics you want to view.

4. Display the current date and time.
5. Image of selected cameras in .
6. Select the number of windows to be displayed in the interface, 1, 2, 4 windows .
7. Real-time notification display button. Press on the icon  to display or hide the corresponding detection results (Face/Person/Motor Vehicle/Non-Motor Vehicle).
8. Real-time notifications of face detection and display of detected face image including name and group name.
9. Real-time notifications of person detection and display of image of detected person including channel and time of detection.
10. Real-time notifications of motor vehicle detection and display of image of detected vehicle including channel and time of detection.
11. Real-time notifications of non-motor vehicle detection and display of image of detected vehicle including channel and time of detection.
12. Statistics of the number of faces, persons, motor and non-motor vehicles detected.

3.10 NETWORK CONFIGURATION

The Network section of the Parameters menu can be used to access all the NVR settings for accessing the Internet and the local area network (LAN), the email notification functions, the use of a DDNS (Dynamic DNS) etc.

The submenu is:

1. General Settings
2. DDNS
3. Email
4. FTP
5. IP filter
6. Voice Assistant
7. Platform Access

3.10.1 GENERAL SETTINGS

The first time concerns the settings for configuring access to the IP network by the NVR; there are three available methods for selecting the IP address and the respective parameters:

- PPPOE
- DHCP:
- Static

After selecting the network mode (DHCP, PPPOE or Static) and setting the ports the Client Port ² and the HTTP Port ³ this can be used to access the NVR locally or remotely, via a local network or the Internet.

Some parameters which are in common to all functions are available in addition to the specific parameters of each single mode illustrated below.

3.10.1.1 General Settings

This menu makes it possible to configure your WLAN network settings.

The screenshot displays the 'Network Configuration' menu in the NVR's web interface. The 'General Settings' tab is selected for the 'WAN interface'. The interface is divided into two main sections: 'WAN interface' and 'Internal PoE interface'. The 'WAN interface' section includes fields for DHCP (checked), IP Address (010.003.033.016), Subnet Mask (255.255.000.000), Gateway (010.003.001.254), IPv6 Address (fe80::223:63ff:fe8a:f872), IPv6 Gateway (fe80::/64), DNS1 (010.010.000.240), and DNS2 (008.008.008.008). The 'Internal PoE interface' section includes fields for POE DHCP Server (checked), IP Address (010.010.025.100), and Subnet Mask (255.255.000.000). At the bottom, there are checkboxes for 'Web Compatibility Mode' and 'Video Encryption Transmission', and buttons for 'Default' and 'Apply'.

Check the DHCP box if you connect to a router to use DHCP. The router will automatically assign all network parameters for the NVR. The parameters are as follows unless the network address is set manually:

- **IP Address:** The IP address identifies the NVR on the network. It consists of four groups of digits between 0 and 255, separated by dots. For example "192.168.001.100".
- **Subnet Mask:** This is a network parameter which defines a range of IP addresses which can be used in a network. Assuming the IP address is the street on which you live, the subnet mask is your neighbourhood. The subnetwork address also consists of four groups of digits, separated by dots. For example "255.255.000.000".

² Default value for the Client port: 9000

³ Default value for the HTTP port: 80

- **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 main DNS server, while DNS2 is the backup DNS server. As a rule, simply enter the address of the DNS1 server.
- **Encryption:** The security encryption protocol can be set.
- **Internal PoE Interface:** You can set the NVR in switch mode. If the IP camera is in a different network, this option allows you to connect them if the IP address, mask and gateway have been set. To enable the function you must check the PoE DHCP Server box.
- **Web Compatibility Mode:** enable this function when the selected browser does not support access to the device via the web. Compatibility mode uses non-secure encryption, please select with caution.
- **Channels Video Encryption Transmission:** You can select on which channels to enable video encryption transmission.

Only available for the 1098/334:

Network Card Mode: Double Address Mode
 Network Card Select: LAN1

- **Network Card Mode:** you can choose between **Single Address Mode** and **Double Address Mode** as required. When Single Address Mode is selected, both network cards will belong to the same addressing family.
- **Network Card Select:** if Double Addressing Mode was selected, the parameters of both networks (LAN1 and LAN2) must be configured.

Default Route: LAN1

- **Default Route:** it is possible to set which will be the main route between LAN1 and LAN2.


3.10.1.2 PPPoE


The screenshot shows the 'Network Configuration' menu with the following options: Channel, Record, Alarm Configuration, AI, AI Scenario, Network Configuration (selected), Device, and System. The left sidebar lists: General Settings, General Settings, PPPoE, SNMP, Port Configuration, DDNS, Email, IP FILTER, Voice Assistant, and Platform Access. The main area shows the 'Enable PPPoE' checkbox checked. Below it are fields for User, Password, IP Address, Subnet Mask, Gateway, DNS1, and DNS2 (with the value 008.008.008.008). At the bottom right are 'Default' and 'Apply' buttons.


This is an advanced protocol which allows the NVR to connect to the network more directly, via a DSL modem. Check the "Enable PPPOE" box, then enter the username and password for the PPPoE. Click on **Apply**; the system will reboot to activate the PPPoE setting.


3.10.1.3 SNMP


(For future use) SNMP: Simple Network Manage Protocol, open source. SNMP can verify the basic parameters of the device, such as IP, hardware information and software information.


Channel


Record


Alarm Configuration

AI

AI Scenario

Network Configuration

Device

System

General Settings

General Settings

PPPoE

SNMP

Port Configuration

DDNS

Email

FTP

IP FILTER

Voice Assistant

Platform Access

Enable SNMP

SNMP Version

SNMP Port

Read Community

Write Community

Trap IP Address

Trap Port

☒

V1

00161

public

private

127.0.0.0/0.0.0.1

00162

Default

Apply

3.10.1.4 Port Configuration

	Service	Protocol	Internal Port	External Port	UPnP Status	Mapping Strategy	UPnP
1	Http/Https/RTSP	TCP	00080	00080	Inactive	Auto	<input type="checkbox"/>
2	Client Port	TCP	09000	09000	Inactive	Auto	<input type="checkbox"/>

Instruction:
 rtsp://ip:port/rtsp/streaming?channel=A&subtype=B
 A:01(ch1),02(ch2)...
 B:0(main stream),1(sub stream),2(mobile stream)

External IP:
 P2P Switch: ☒
 Forward Port: ☐

Default Apply

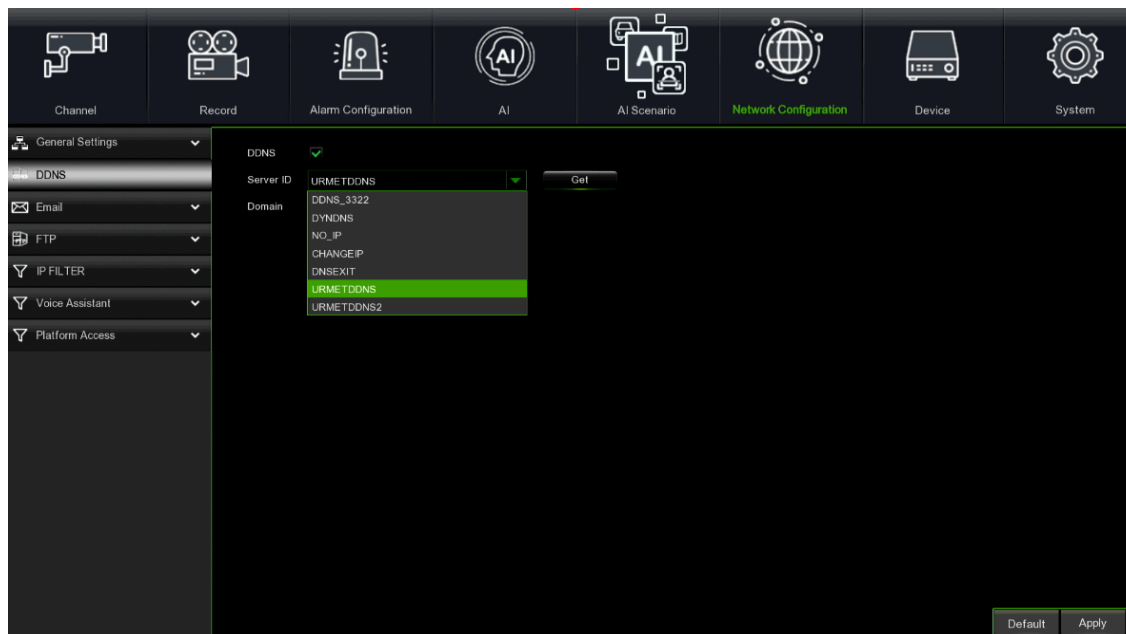
- **Web Port:** This is the port that will be used to connect remotely to the NVR (i.e., via the Web Client). If the default port 80 is already used by other applications, you must change it.
- **Client Port:** This is the port that the NVR will use to send information. If the default port 9000 is already used by other applications, you must change it.
- **RTSP Port:** The default port is 554; if the default port 554 is already used by other applications, you must change it.
- **Https Port:** This is the port that will be used to connect remotely with the NVR in encrypted mode (i.e., via the Web Client).
- **TOE (TCP Offload Engine):** This is an option that can be used to speed up the processing of data transmitted or received from the network by leaving it to the network interface of the device. It may be useful when connecting the device to Gigabit networks.
- **UPnP:** Port-forwarding must be completed to connect remotely to the NVR via the Web Client. Enable this option if your router supports UPnP. It is necessary to enable UPnP both on the NVR and on the router. In this case, it will not be necessary to configure port-forwarding manually on the router. If your router does not support UPnP, complete the port-forwarding manually.
- **P2P Switch:** enable/disable the P2P connection with QR code.
- **Forward Port:** If selected, allows port mapping on the router of the port range chosen by the NVR using a single IP address, that of the NVR itself.

3.10.2 DDNS SET

DDNS (or Dynamic DNS - see glossary for more information) is a service used to record a domain name and floating IP address with the DDNS server for the domain name to be routed towards the IP address even if it is modified in an dynamic IP system.

The user can access a remote NVR using DDNS on three previous types (Static, DHCP and PPPoE).

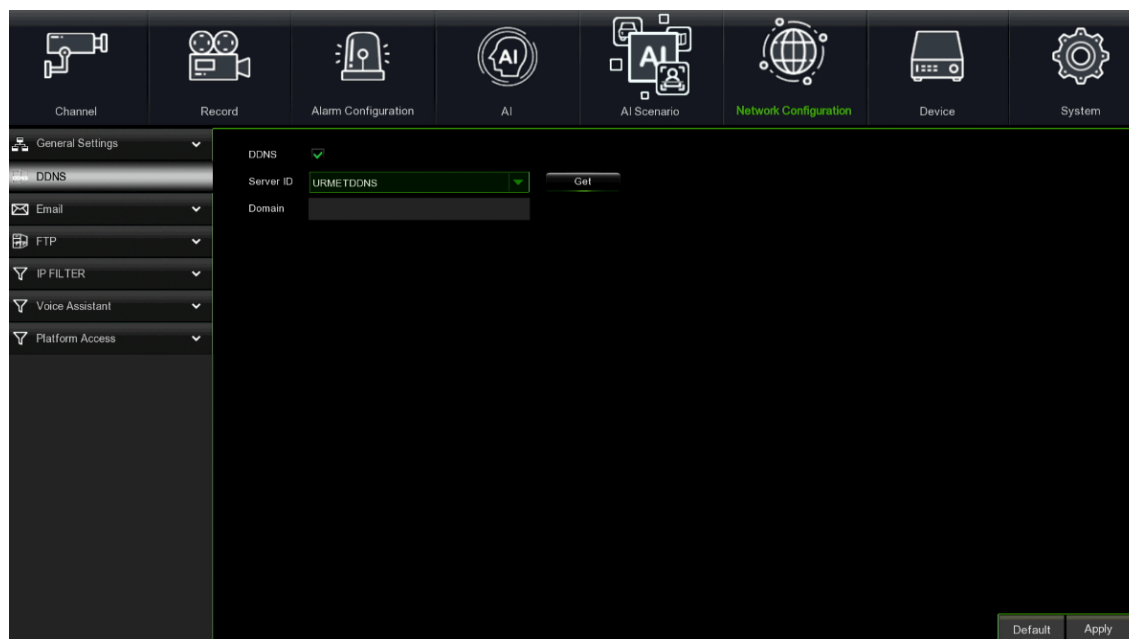
Read the description under the following figures for this menu page:



IMPORTANT NOTE:

- Before obtaining the Urmnet DDNS1 or DDN2 ID, check that the user password is enabled; if not, you will not be able to complete the procedure.

Check that the DDNS function is enabled and that the URMETDDNS server is selected. Click on the **Get** button and wait for approximately 10 seconds for the NVR ID may be generated. This is necessary for remote access via the Urmnet Web portal (see figure below).

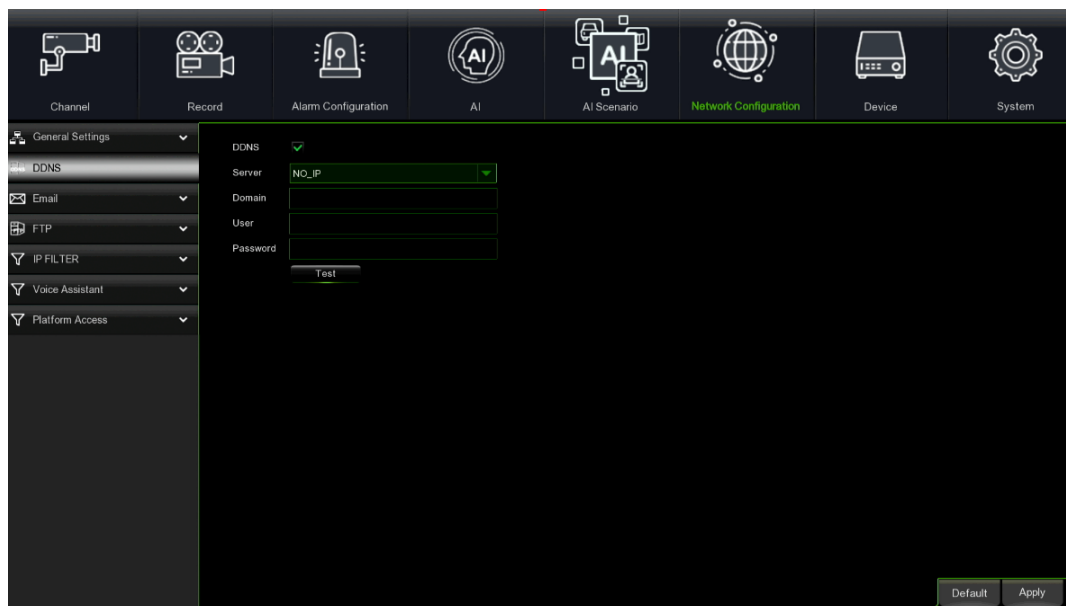


Take note of your NVR ID, issued by the URMETDDNS1 or URMETDDNS2 server.

IMPORTANT NOTE:

- A DDNS server different from URMET DDNS can be used. Select the available options from the list. See the instructions on the user manual of the device and those of the DDNS quick guide (“DDNS Configuration Guide it_en” which can be downloaded from the Urmet website for more information.

Now save the changes by clicking [Save] and wait for the device to restart in order for the changes to take effect.



A DDNS account can be requested free of charge from the websites www.3322.org, www.changeip.com or www.no-ip.com or a DDNS account can be requested for a charge on the website www.dyndns.org.

You can register on the DDNS Service website to obtain a domain name, a user name and a password.

The options to configure are:

- **Server:** Select the DDNS provider. Possible values: DDNS_3322, DYNDNS, NO_IP CHANGEIP, DNSEXIT, URMETDDNS.
- **Domain:** Enter the registered host domain name in the dynamic domain name system; for example: username.changeip.com;
- **User Name:** enter a registered user name before requesting a domain name.
- **Password:** enter a password set while recording a user name.

Click on the Save button and restart the NVR to make the changes effective; with the system running again, enter the domain name (for example: username.no-ip.com) to access the remote NVR.

Note: DDNS account creation may become a charged service in the future.

3.10.3 EMAIL

The e-mail menu can be used to access the configuration of the parameters for alarm notifications via email.

3.10.3.1 Email Set

Channel

Record

Alarm Configuration

AI

AI Scenario

Network Configuration

Device

System

General Settings

DDNS

Email

Email Configuration

Email Schedule

FTP

IP FILTER

Voice Assistant

Platform Access

Email

Encryption

SMTP Port

SMTP Server

User Name

Password

Sender

Receiver 1

Receiver 2

Receiver 3

Interval

Test

Default

Apply

- **Email:** This can be used to enable or disable the configuration of the email parameters.
- **Encryption:** This is used to specify whether communication with the email server is encrypted or not; the use of a safety transfer protocol with data encryption makes it possible to encode the communicated information (including your email) to prevent monitoring of transmitted data or the password to hackers. It is recommended to activate an encryption option, if possible. Ask your email provider for more information. Possible values: Disable, SSL, TLS and Auto
- **SMTP Port:** this indicates a port type for email transmission via Simple Message Transfer Protocol (SMTP). The port number for most emails is 25⁴.
- **SMTP server:** This indicates the address of the server used.
- **Username:** This is used to set the user name used for authentication on the SMTP server.
- **Password:** This sets the password assigned to the email account by the sender.
- **Sender:** This is the sender's email address. The email address must be coherent with the server used. In other words, if the aaa@gmail.com email address is used, the server must be smtp.gmail.com.
- **Receiver1:** This indicates the email address of the first recipient The email address is used to receive the image transmitted by the NVR alarm. Delete all the received images as soon as possible to prevent filling your email account.
- **Receiver2, Receiver3:** You can indicate a second and third email address to which the images transmitted by the NVR will be sent.
- **Interval:** If there are attachments in the notification email (images taken during an alarm), it will take longer to send the email to the recipients. During this time, no further reports can be sent. This option allows you to set this interval; possible values: 1 min, 3 min, 5 min, 10 min.
- **Test Email:** Click on the TEST Email button to check the configuration operation.

Note:

When configuring messages sent by e-mail, to ensure proper operation, it is recommended to configure a user account (sender address and password) with the same address as the SMTP server. For example, if the mario.rossi@dominio.it email address is used, the SMTP address must be "**smtp.dominio.it**".

3.10.3.2Email Schedule

This configuration page can be used, as seen in the other cases, to select in which time slots and on what days of the week the NVR must send an email in case of a given event.



- **Channel:** This can be used to select the channel to be configured.
- **Motion:** Use this option to define the time slots at which to enable sending in case of automatic motion detection.
- **IO (I/O):** Use this option to define the time slots at which to enable sending in case of sensor alarm detection.

⁴ If you are using Gmail, set the SMTP port to 465 and enable the Encryption option.

- **Event:** Select to define the time slots at which the system will send an email in case of a system event.
- **AI:** Use this option to define the time slots at which to enable sending in case of intelligent video analysis detection.
- **PIR:** Use this option to define the time slots at which to enable sending in case of PIR automatic motion detection.
- **Thermal:** Use this option to define at which to enable sending in case of thermal alarm detection.
- **Default:** This can be used to restore the default settings.
- **Copy:** This is used to copy the current channel settings on another or on all other channels.

When finished, click on the **[Apply]** button to make the configuration permanent.
Alternatively, click on the **Default** button to use the system default parameters.

NOTE:

- The green bar refers to the motion alarm time slots, the red bar to the system event time slots.

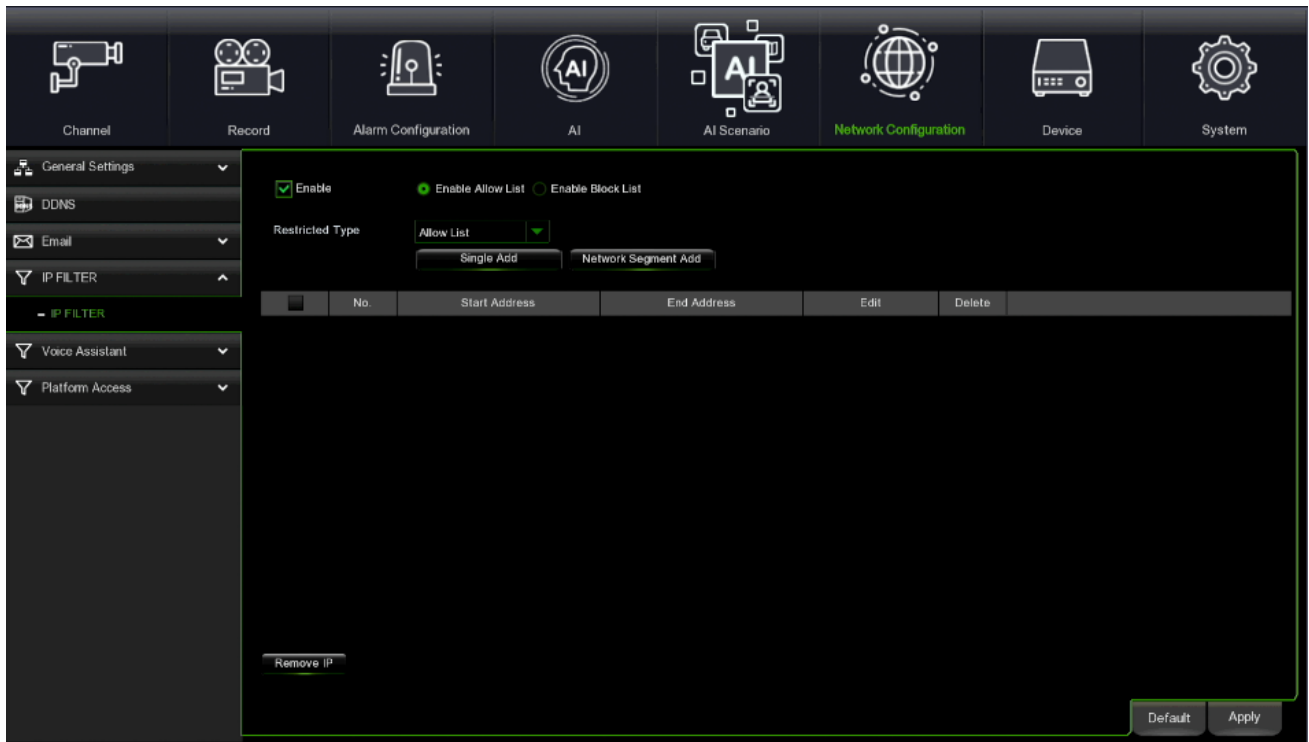
3.10.4 IP FILTER


3.10.4.1 IP Filter

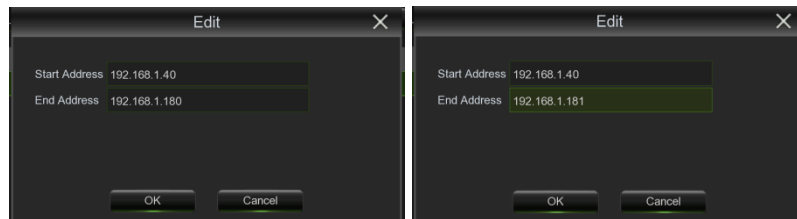
You can configure **IP FILTER** for the NVR from the **Start Menu → Network Configuration → IP FILTER**


- **Enable:** Check **Enable** to configure the Whitelist and Blacklist.
- **Enable Whitelists:** The **Whitelist** is enabled by default; first check **Enable**, then set **Start Address** and **End Address** of the Whitelist.

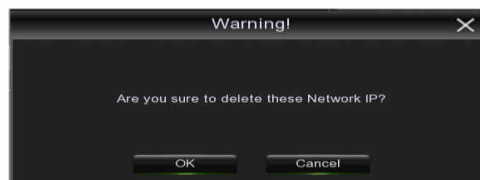
Single Add: You can set Single Add, then click OK, the Edit Address list is shown below.

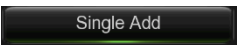


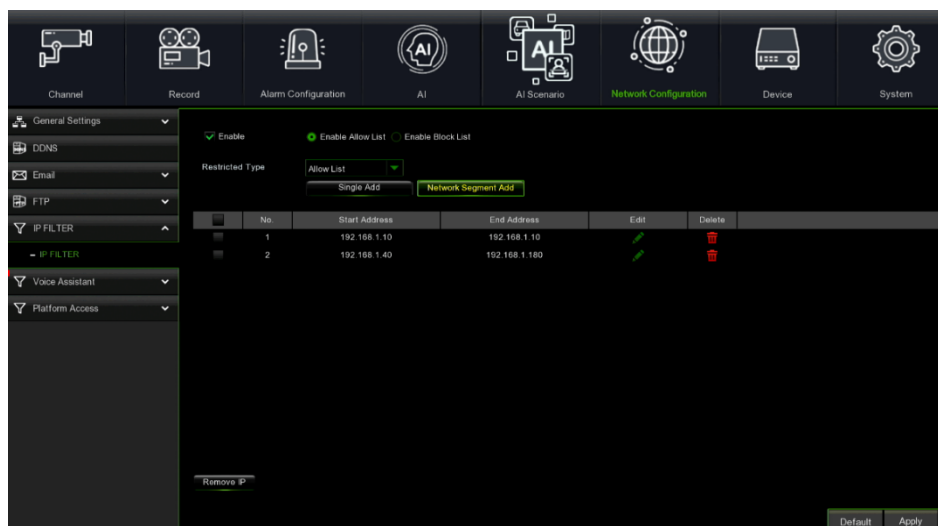
- **Edit:** Click on  to change Start Address and End Address; you can set one or more addresses for **Single Add**.



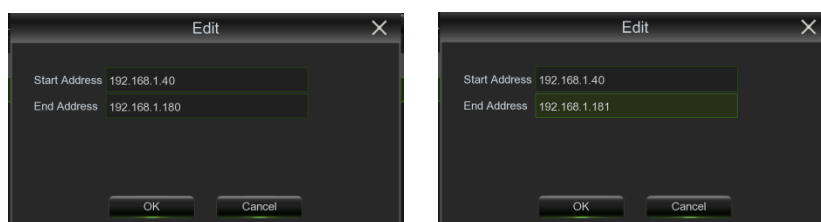
- **Delete:** Click on . The **“Warning!”** dialogue box will appear. Click on OK to delete the Address list.




Network Segment Add: You can set Single Add, and then click on . The Edit Address list is shown below.



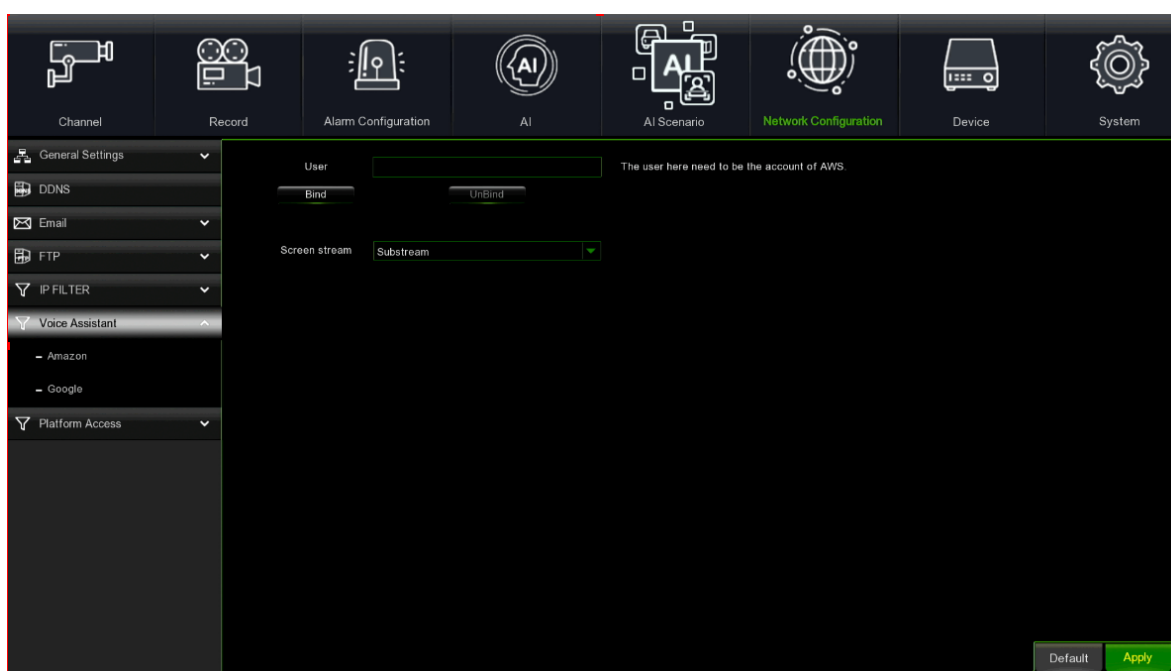
- **Edit:** Click on  to change Start Address and End Address; you can set one or more addresses for **Single Add**.



- **Delete:** Click on . The “Warning!” dialogue box will appear. Click on OK to delete the Address list.
- **Enable Blacklists:** The **Blacklist** is disabled by default; first check **Enable Blacklists**, then refer to the Whitelist configuration options to modify the Blacklist.

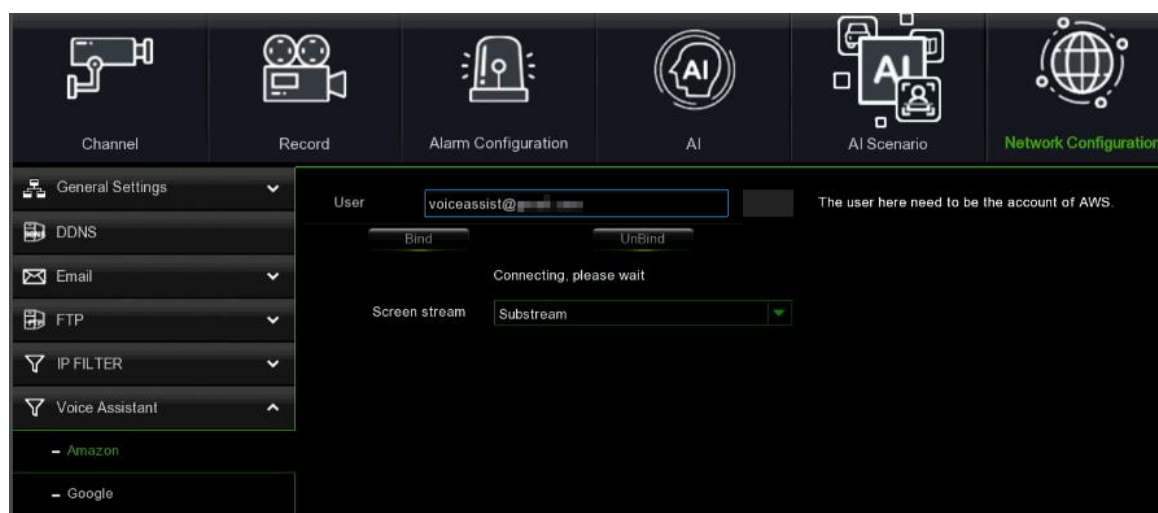
3.10.5 VOICE ASSISTANT (BETA VERSION)

The voice assistant function allows you to connect the HVR to GoogleCast or Amazon Fire TV Stick and transmit real-time surveillance images to the TV monitor via voice control. Available from firmware version 8.2.2 and further.

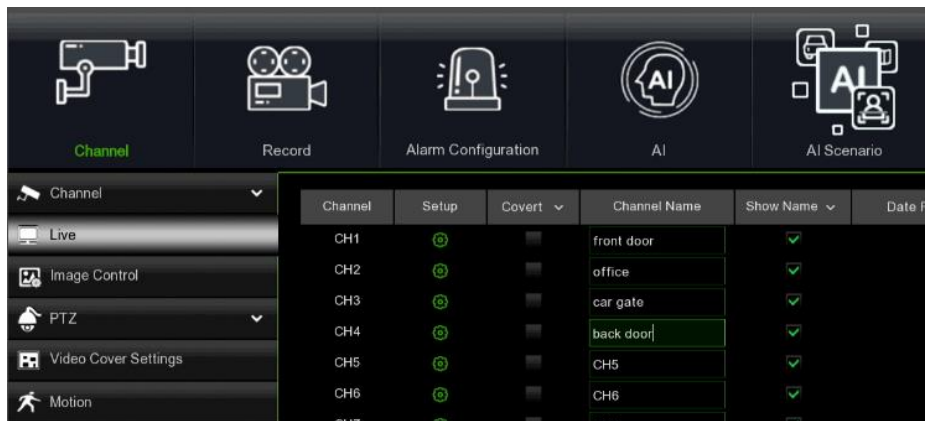


3.10.5.1 Voice Assistant with Amazon Fire TV Stick

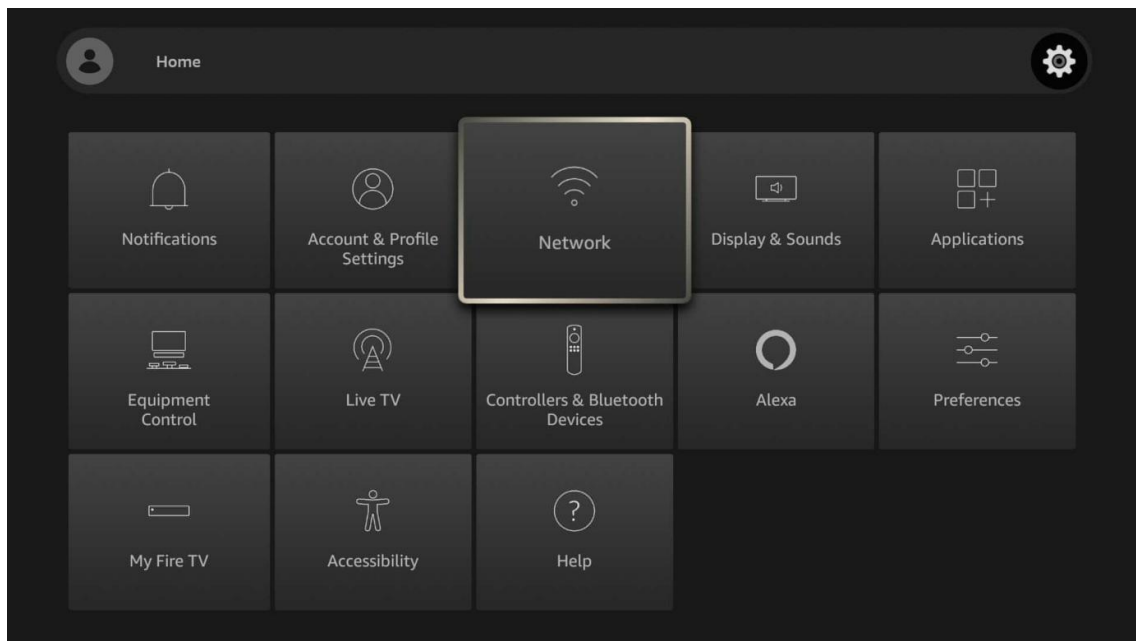
Input your Amazon account, and the click Bind button to connect to bind your Amazon account. To choose the video stream you want to cast to your TV monitor.



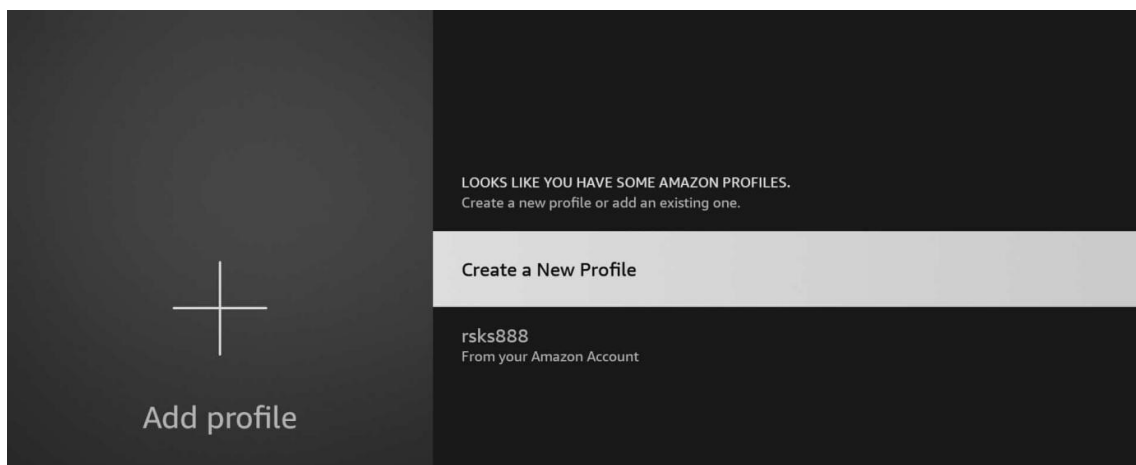
Go to Channel – Live menu, and give a Channel Name which is easy to call to the channel(s) you want to cast to your TV monitor.

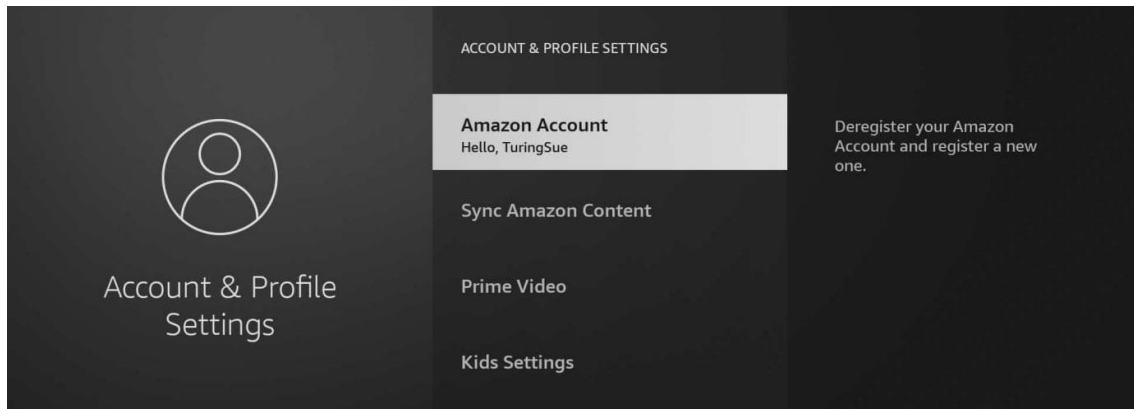


Connect the Fire TV Stick to your TV monitor, and power on it. Connect the Fire TV Stick to the Wi-Fi which is in the same LAN with your HVR.



To use your existing profile or add a new profile and login your Amazon account which is same as the one you bind to the HVR.

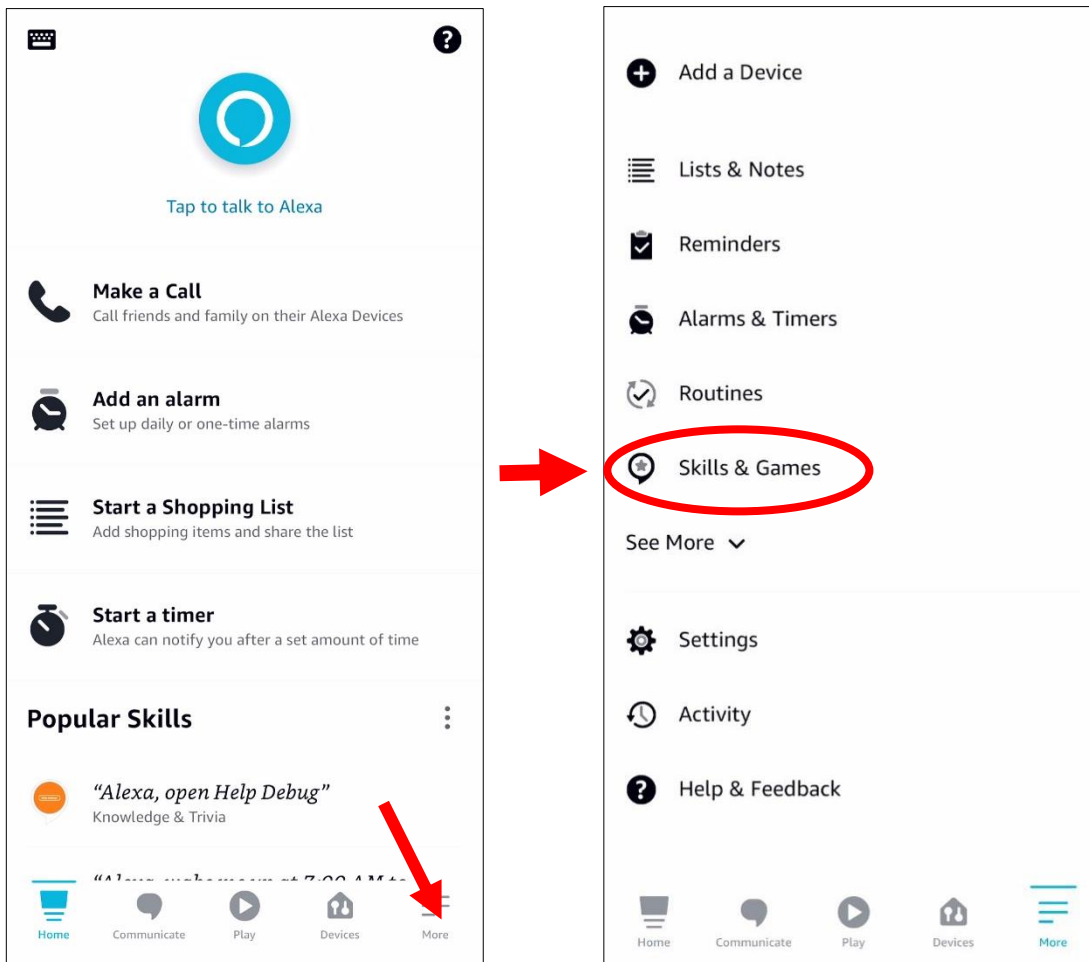




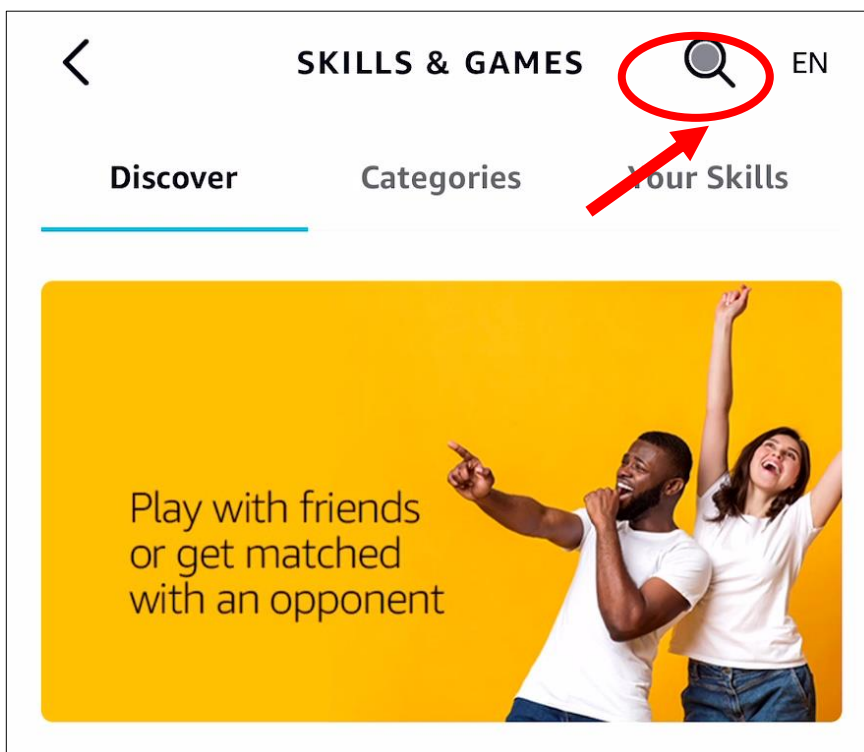
Search and install Amazon Alexa to your mobile phone from app store, and then login with the Amazon account which is same as the one you bind to the HVR.

A screenshot of the Amazon Alexa Sign-In screen. At the top is the Amazon Alexa logo. Below it, the text "Sign-In" is displayed. To the right of "Sign-In" is a link that says "Forgot password?". Below this, there are two input fields: "Email (phone for mobile accounts)" and "Amazon password". Below the input fields is a checkbox labeled "Show password". At the bottom is a large blue button labeled "SIGN-IN". Below the button, there is a line of text that says "By continuing, you agree to Amazon's [Conditions](#)".

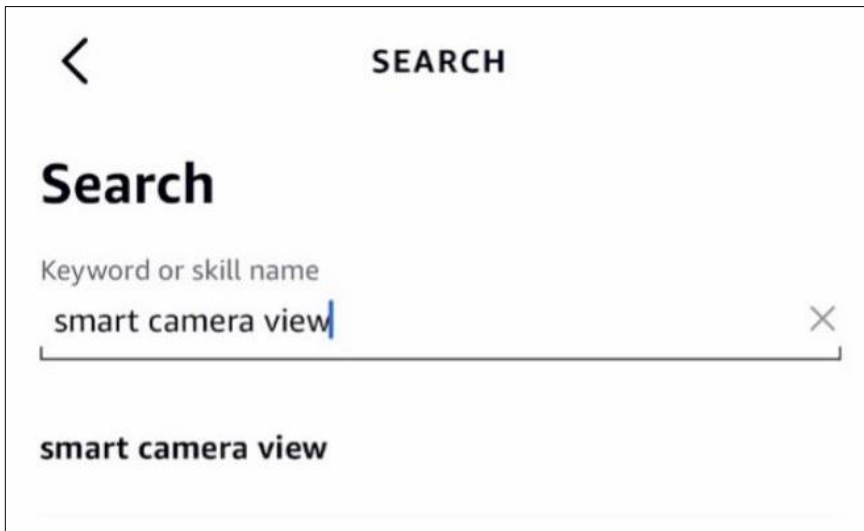
Touch "More", and then touch "Skills & Games".



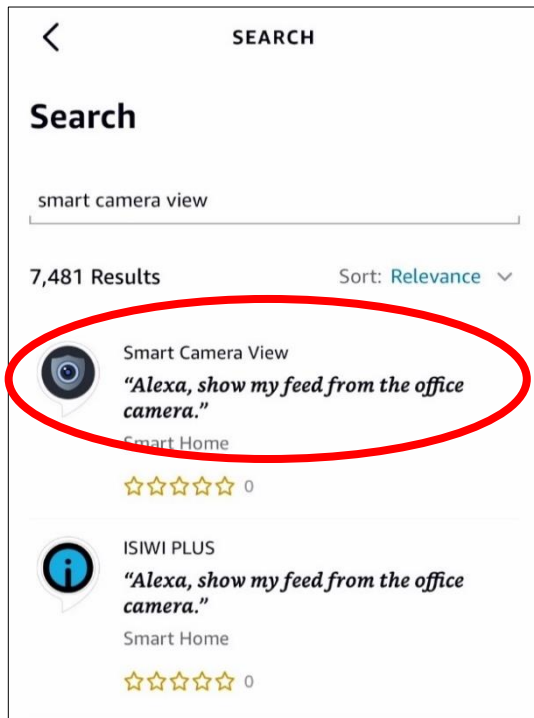
Touch the search icon on the right top corner.



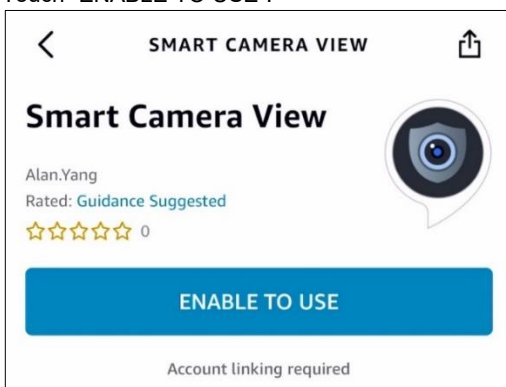
Input the keyword: smart camera view, and search.



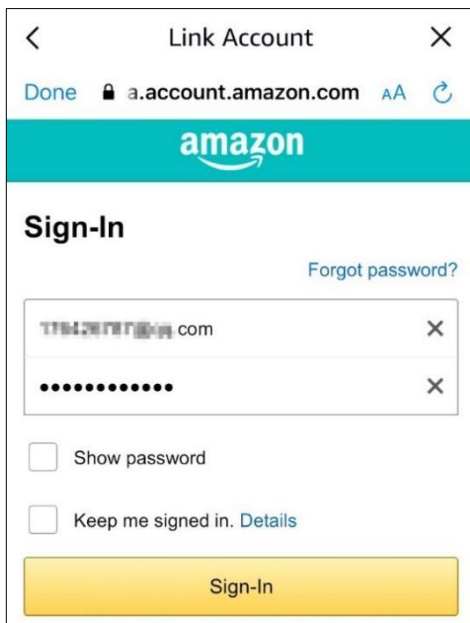
Touch the “Smart Camera View” in the search result list.



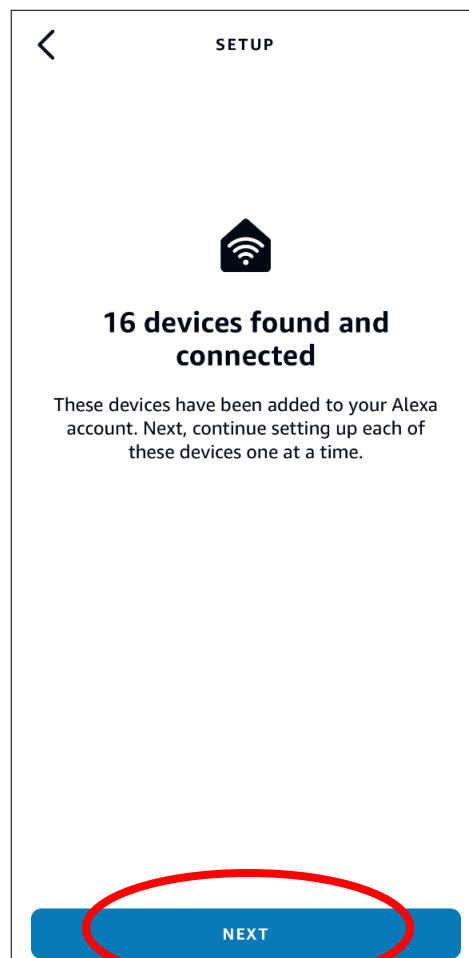
Touch “ENABLE TO USE”.



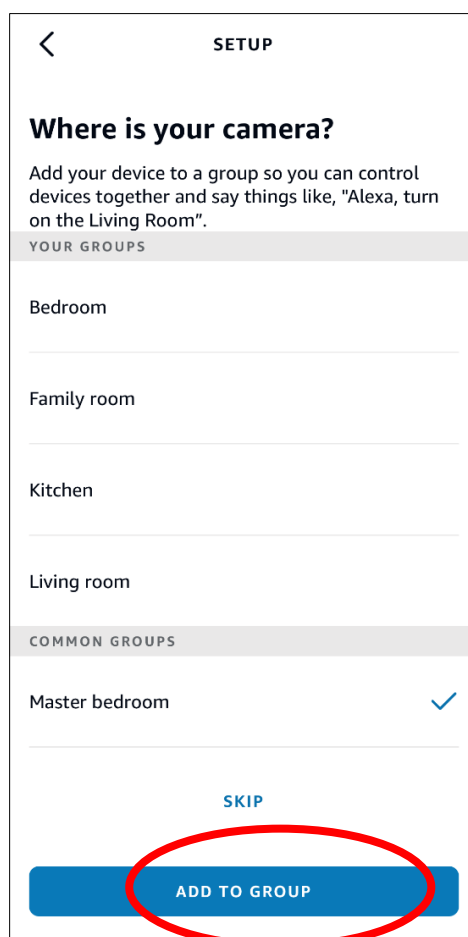
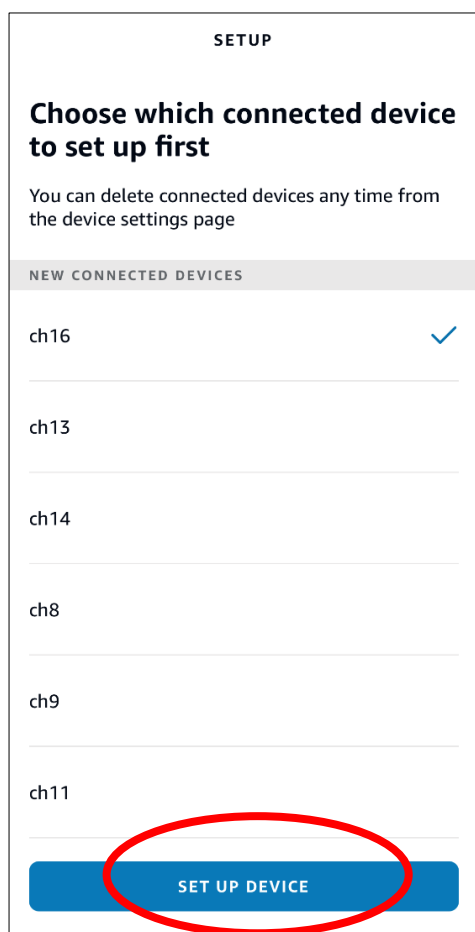
You would need to link your Amazon account. Sign in the Amazon account which is same as the one you bind to the HVR. Touch “Done” after the skill is successfully linked.



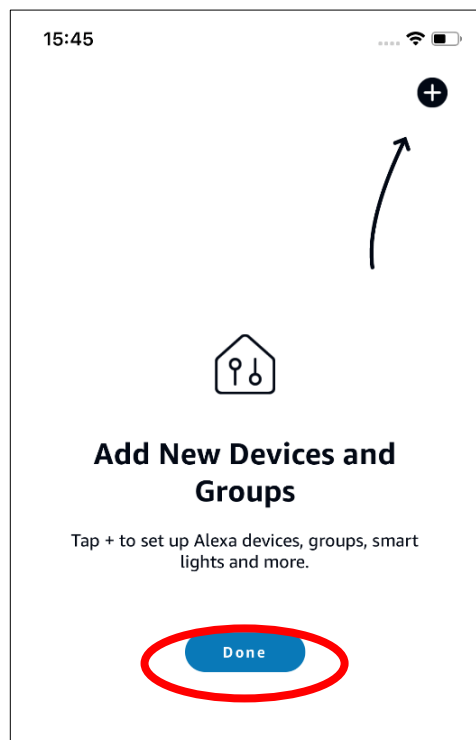
Touch "DISCOVER DEVICES" and wait a moment for the app to search the cameras. Touch Next when the devices were found and connected.



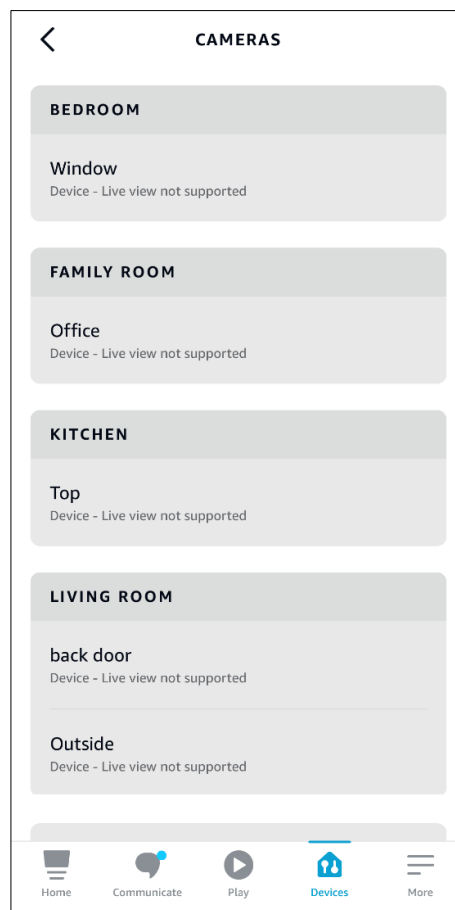
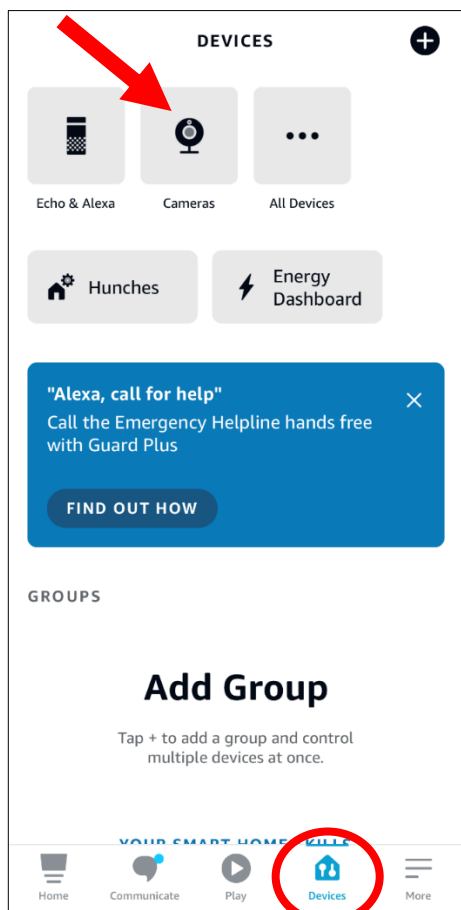
Choose one of the devices and then touch SET UP DEVICE. You can add the camera to a group or skip.



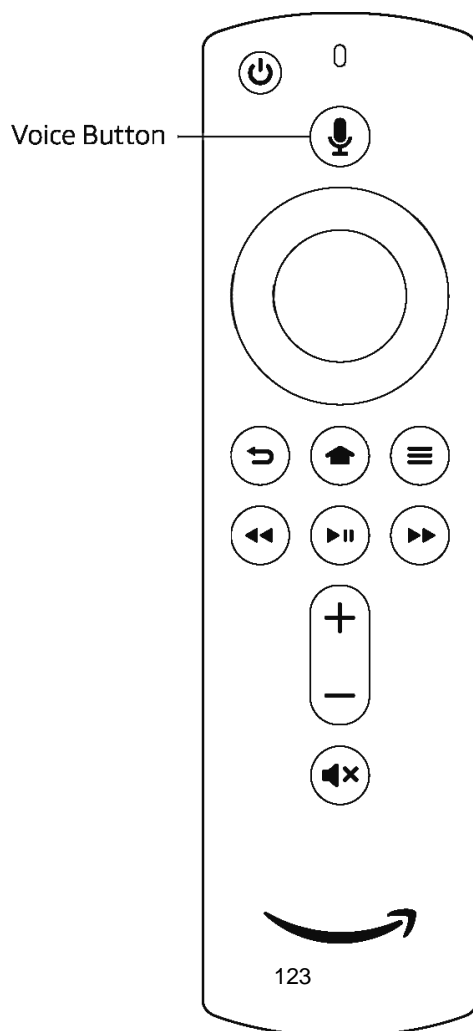
Repeat the previous setup to add all cameras and then touch Done to finish.



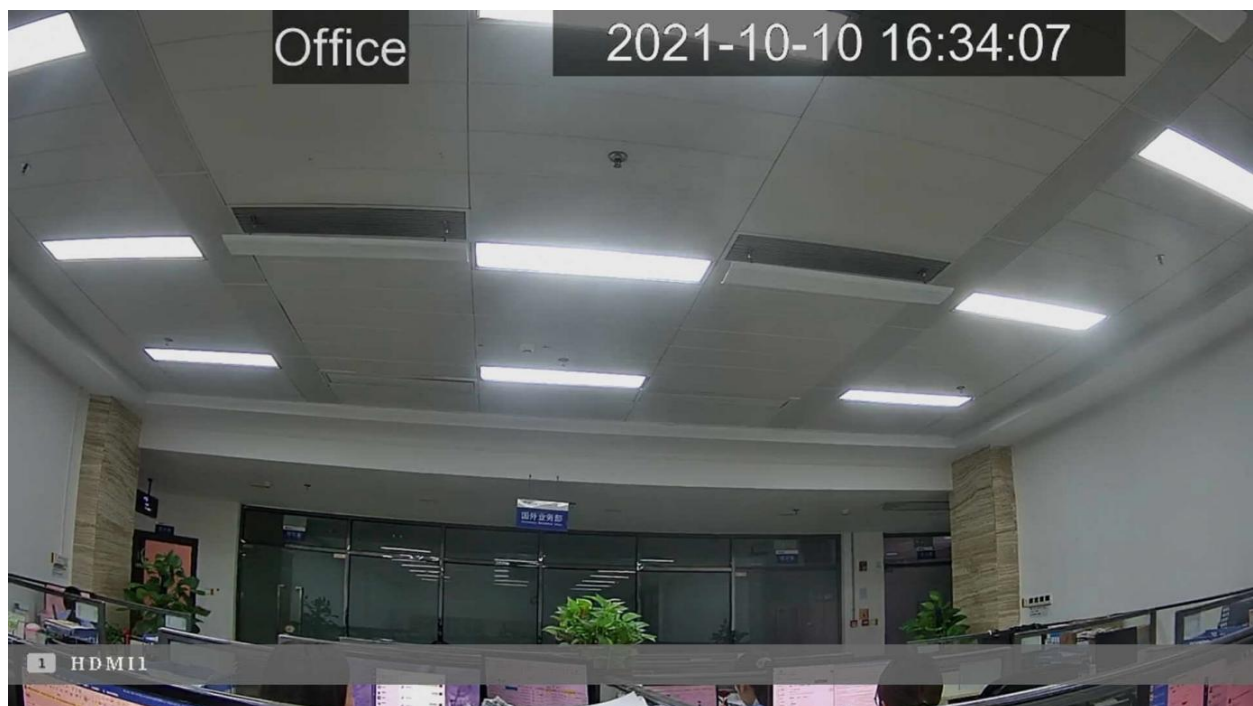
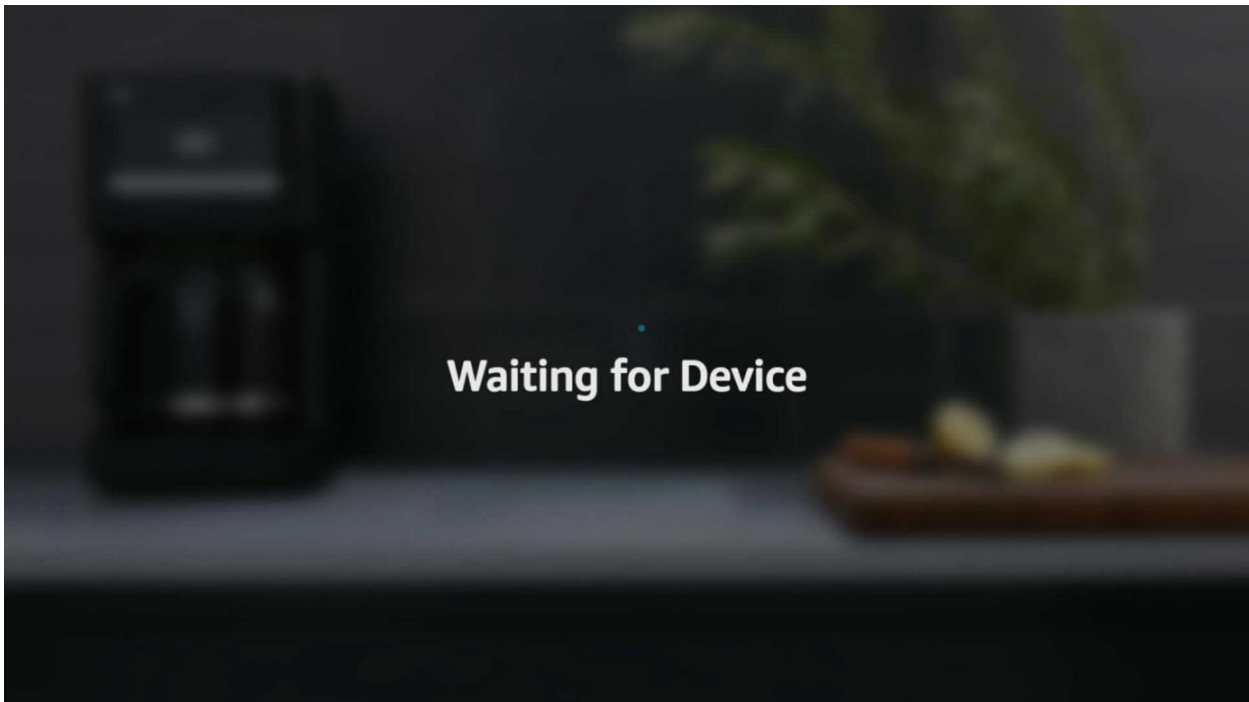
All added cameras will be listed in the Devices. Touch the Cameras icon to check all added cameras.



Press and hold on the voice button on the remote controller of the fire TV stick, and speak the command clearly. The command could be like: Show the XXX camera / Show XXX. XXX is the camera channel name. For example, if the channel name is "Office", you could speak "Show my office camera".



Wait for a while, you will see the real time images from the Office camera in your TV monitor.

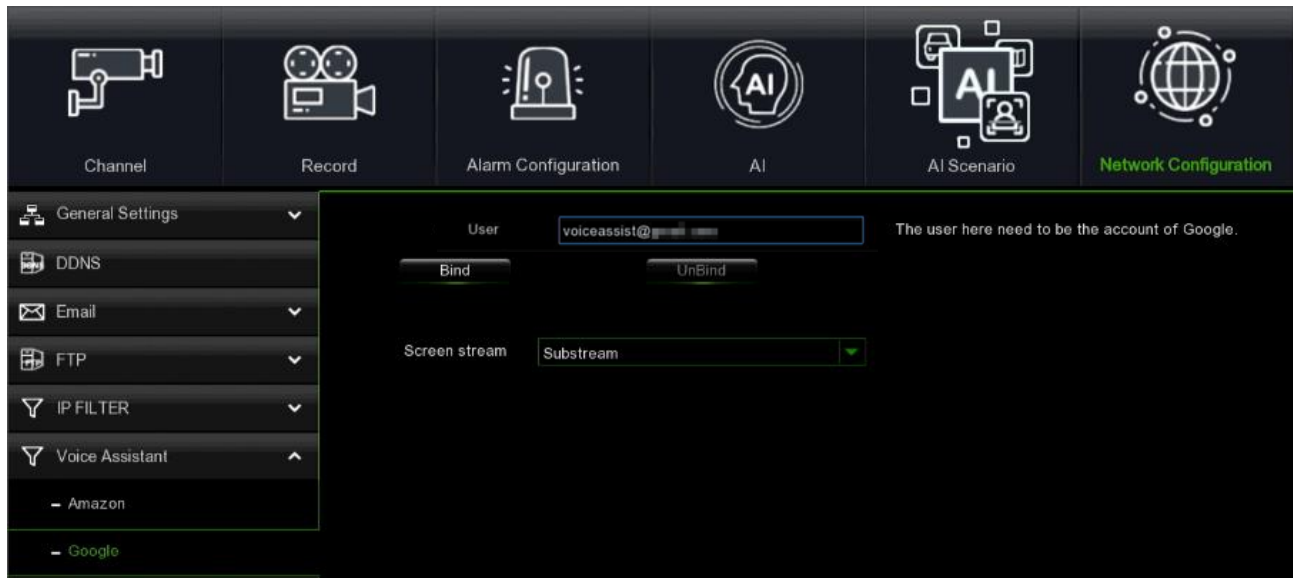


If you want to quit the camera live view, speak "Stop".

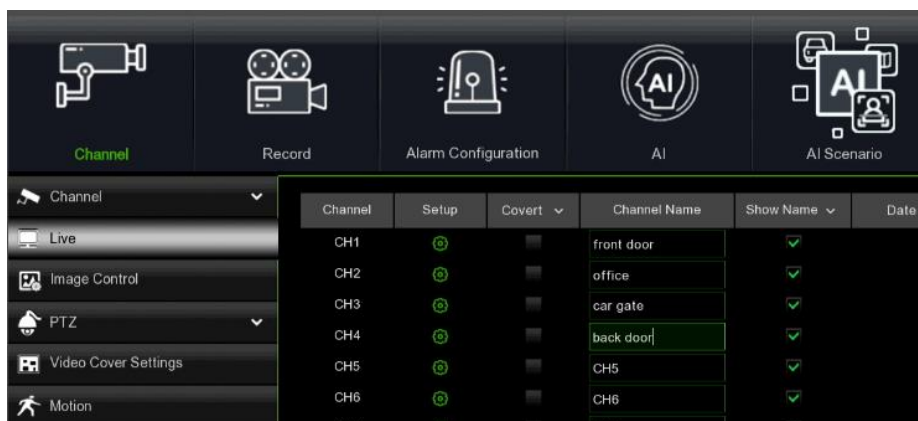
If you have changed the channel name, you would need to discover and add the camera again.

3.10.5.2 Voice Assistant with Google Chromecast

Input your Google account, and then click Bind button to connect to bind your Google account. To choose the video stream you want to cast to your TV monitor.

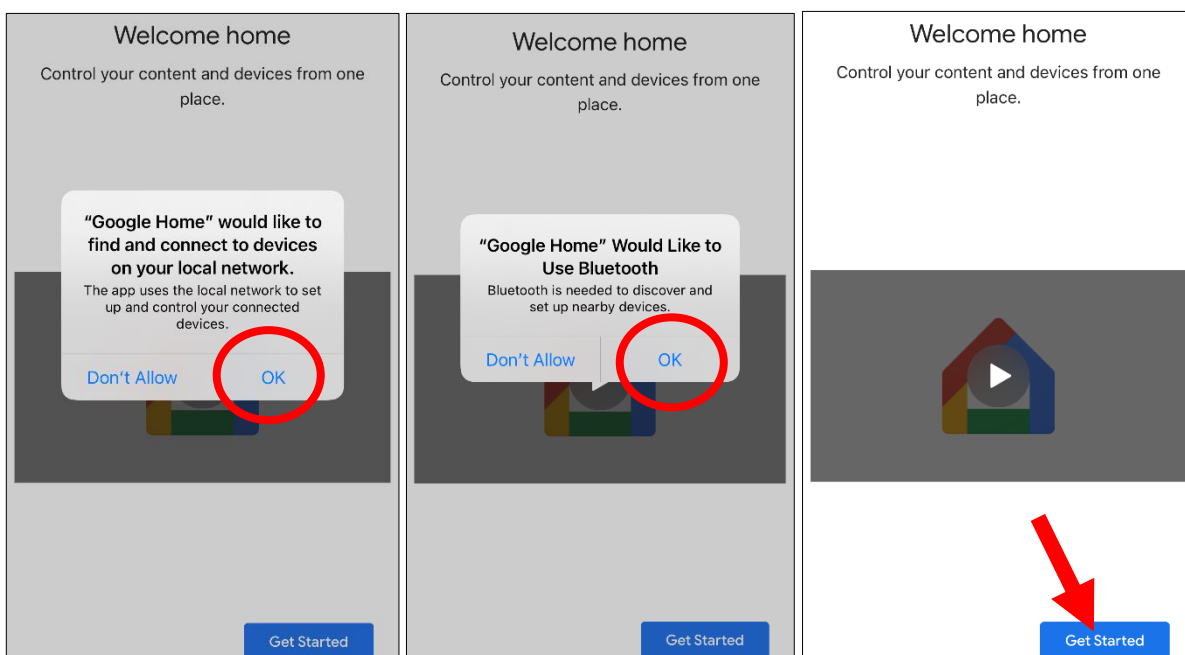


Go to Channel – Live menu, and give a Channel Name which is easy to call to the channel(s) you want to cast to your TV monitor.

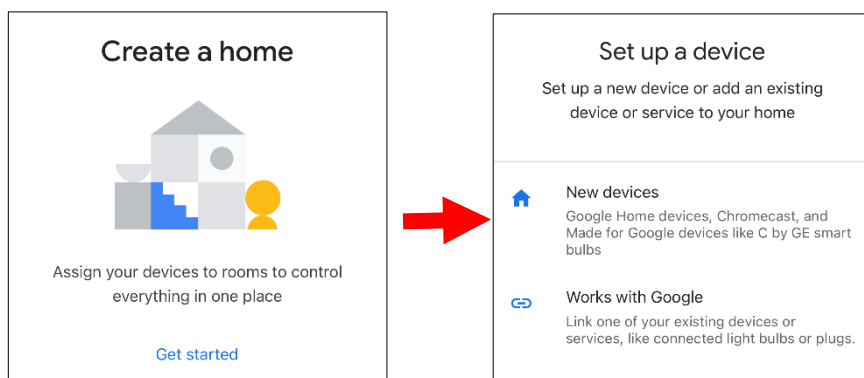


Connect the ChromeCast to your TV monitor, and power on it.

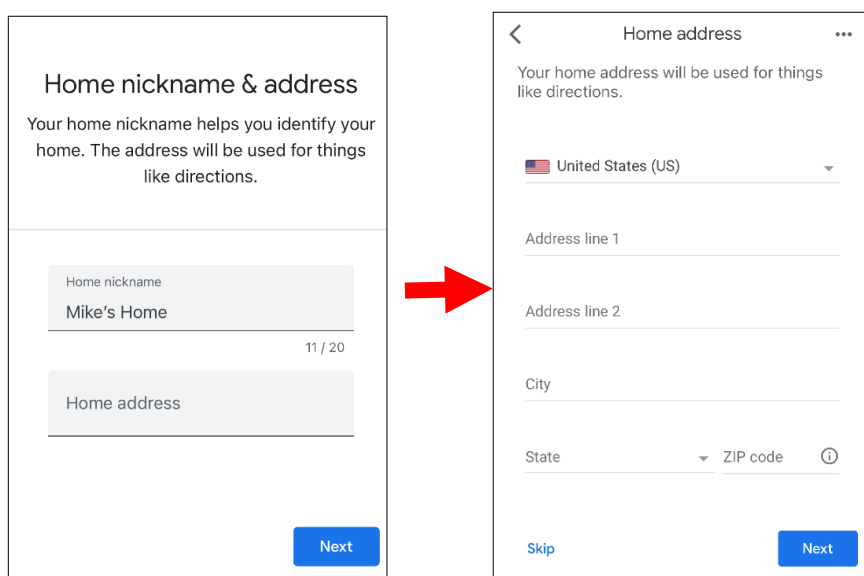
Search and install Google Home app to your mobile phone from app store. Run the installed Google Home app, touch OK to allow the app to use your local network and Bluetooth and then touch Get Started.



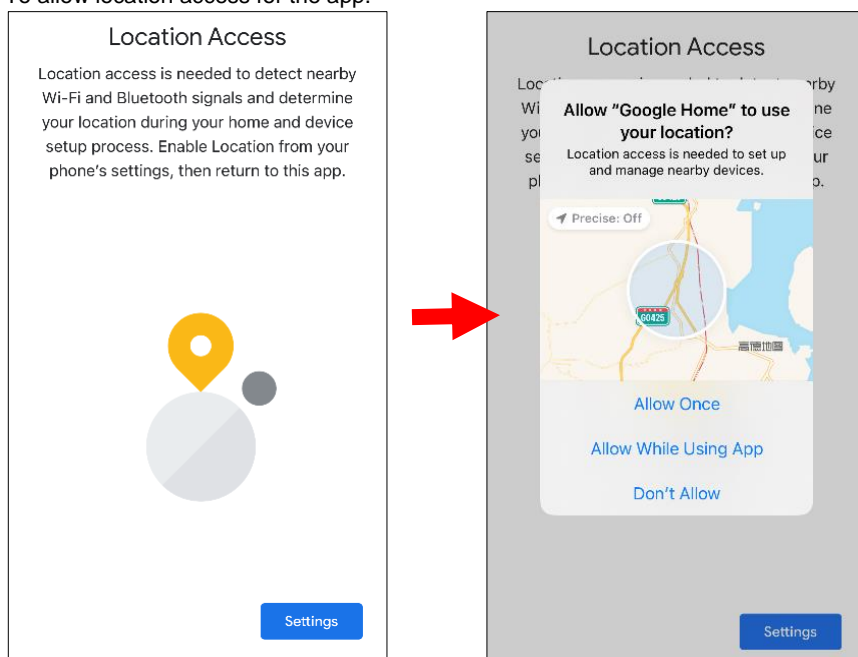
To login your Google account which is same as the one you bind to the HVR.
Touch “Get Started” to create a home, and then touch “New devices”.



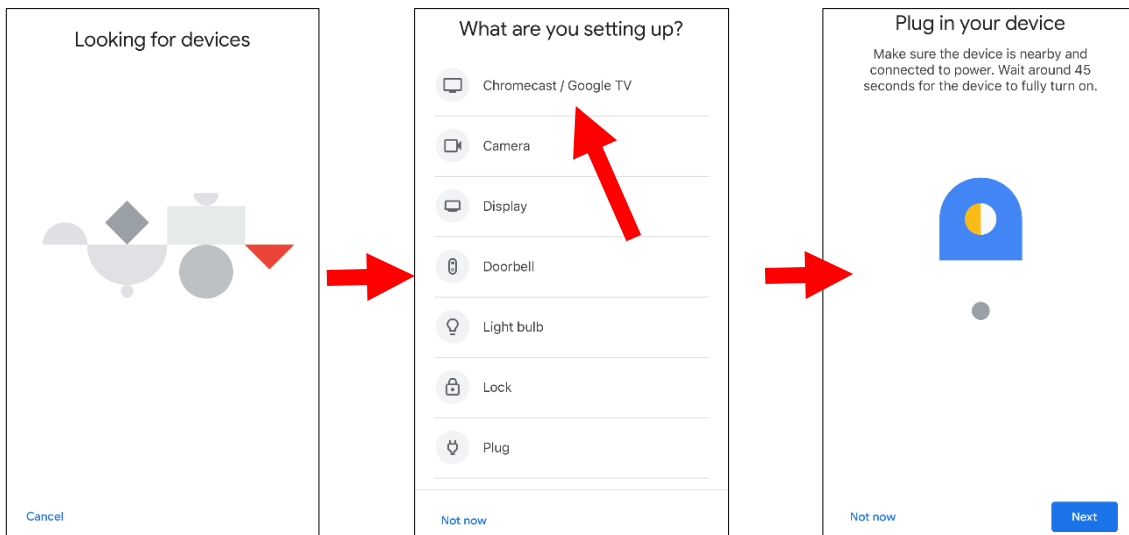
Input the Home nickname and address and then touch “Next”.



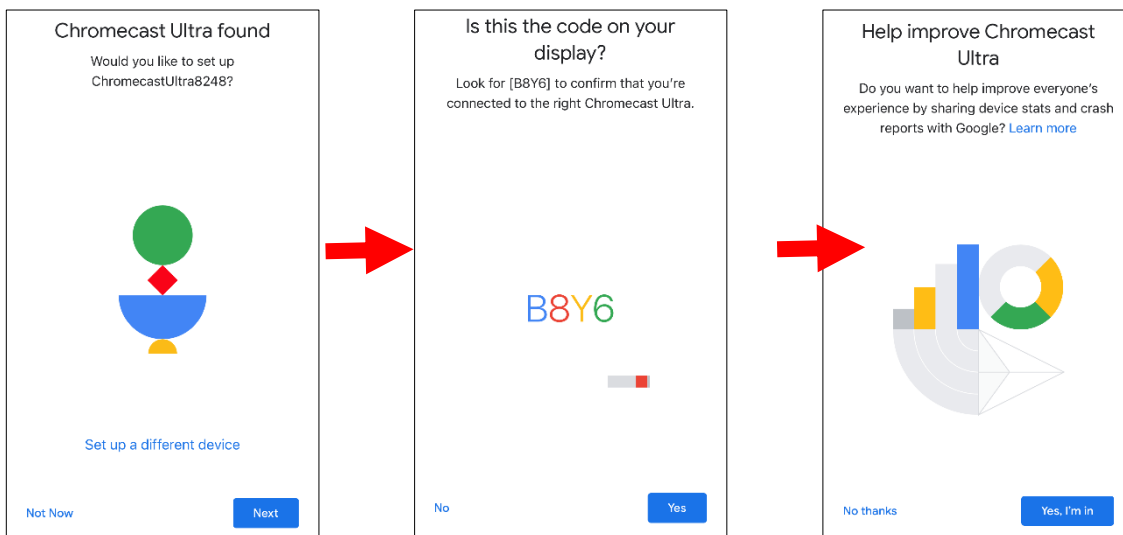
To allow location access for the app.



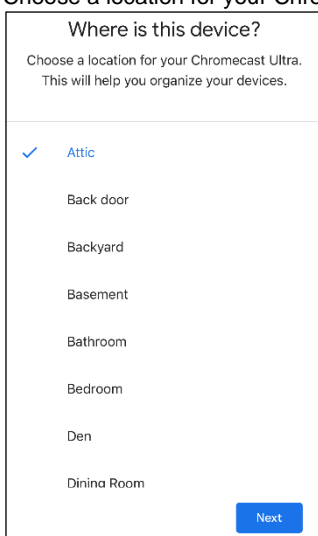
The app will automatically try to search devices from your local network. Choose Chromecast / Google TV. Make sure your Chromecast is turned on already, then touch Next.



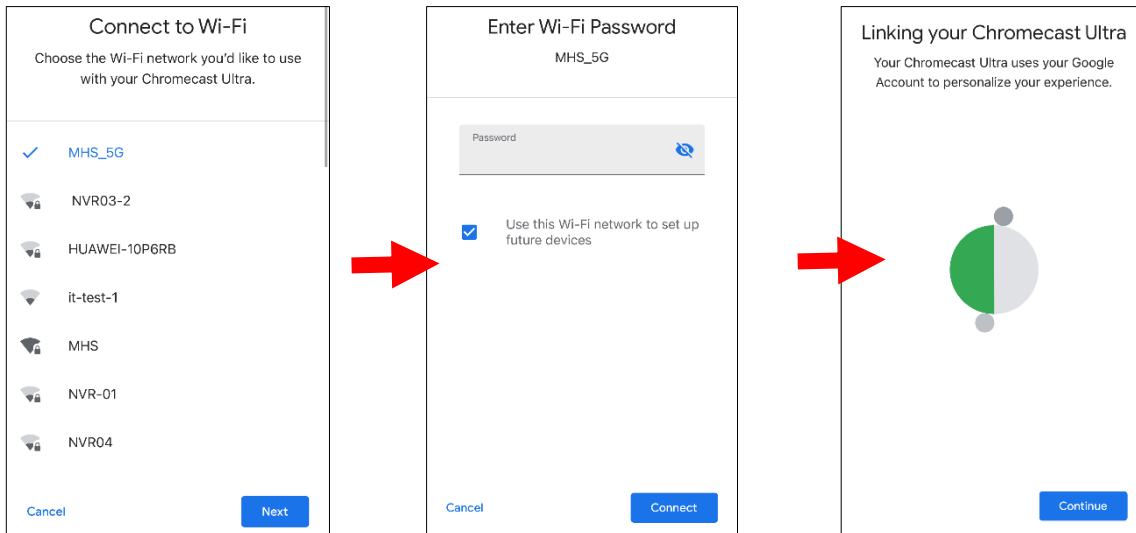
Your Chromecast will be found. Touch Next to connect. Confirm the code by touching Yes.



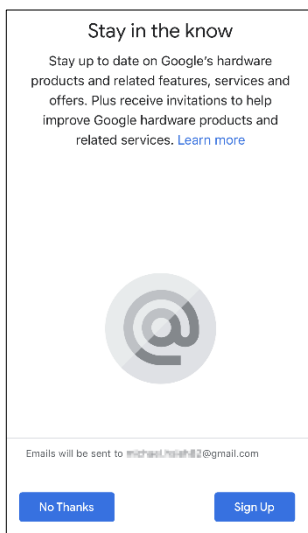
Choose a location for your Chromecast, then touch Next.



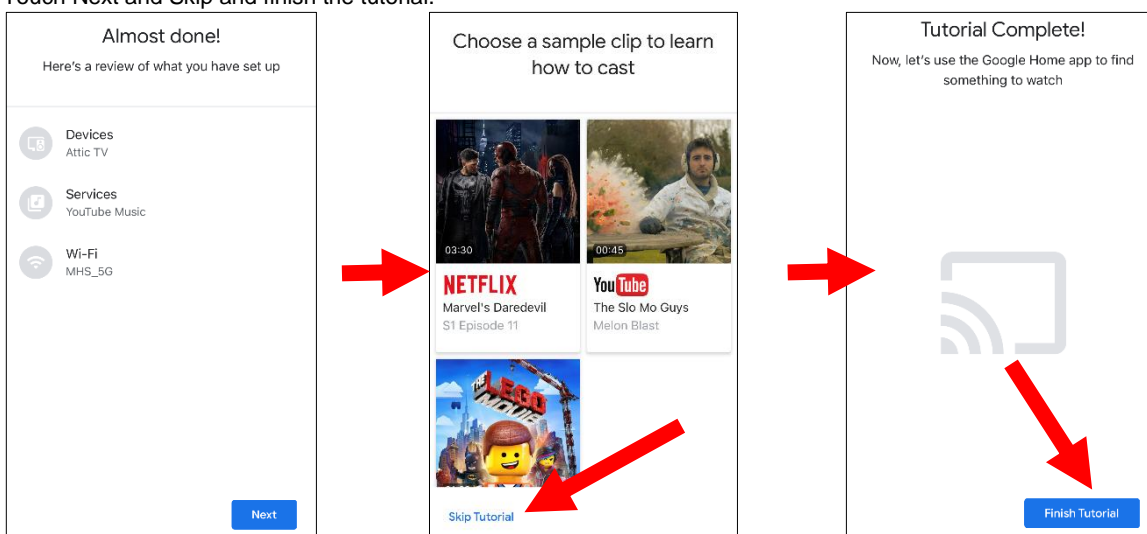
Choose the Wi-Fi network for your Chromecast and input the Wi-Fi password to connect. Make sure the Wi-Fi you choose is the same one with your mobile phone and is in the same local network with your HVR. Touch Continue to next step.



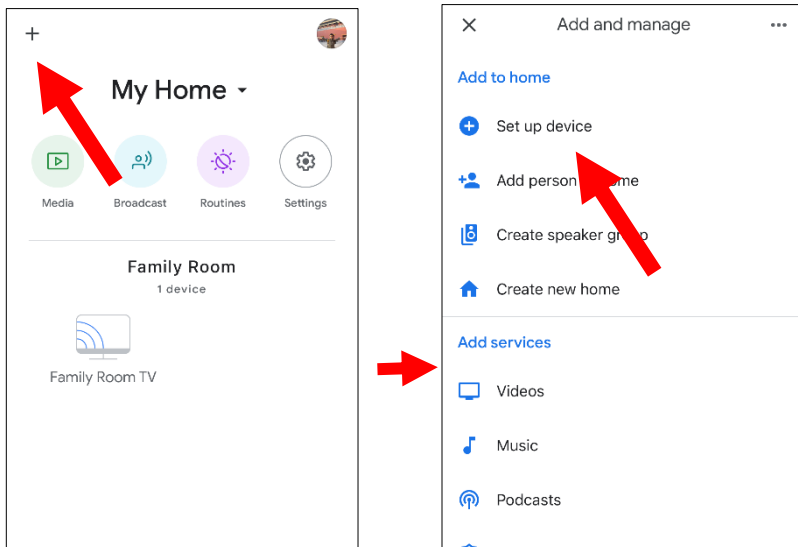
Touch No Thanks or Sign Up to login your google account.



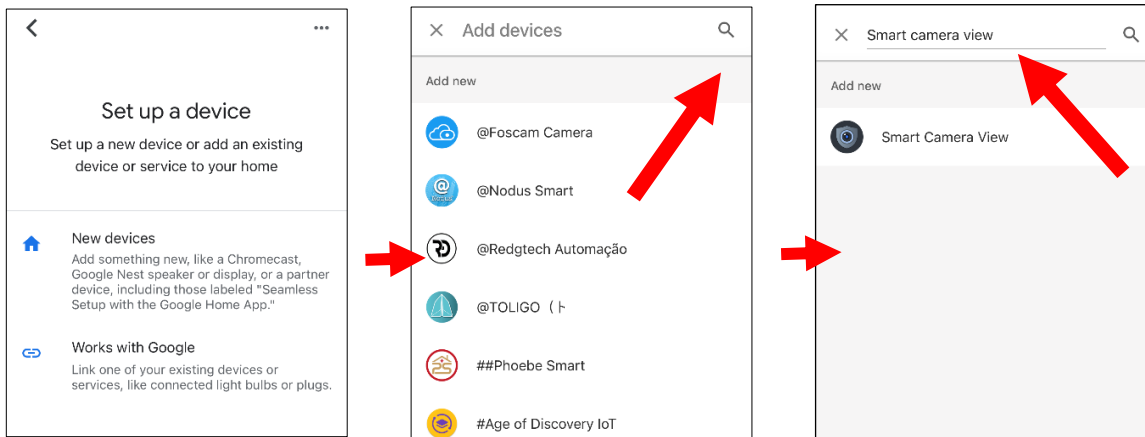
Touch Next and Skip and finish the tutorial.



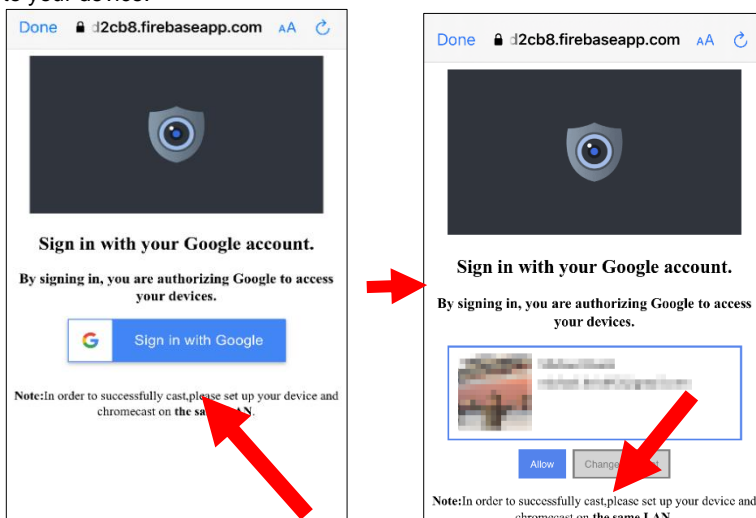
Now the Chromecast has been added to your Google Home. Touch the + icon on the left top corner. Indoor, then choose Set up device.



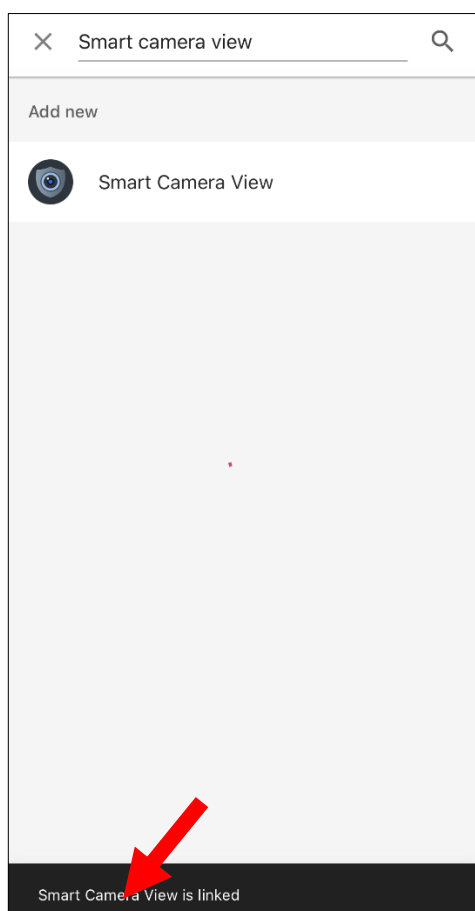
Choose “Work with Google”, touch the search icon on the right top corner and then input “smart camera view”.



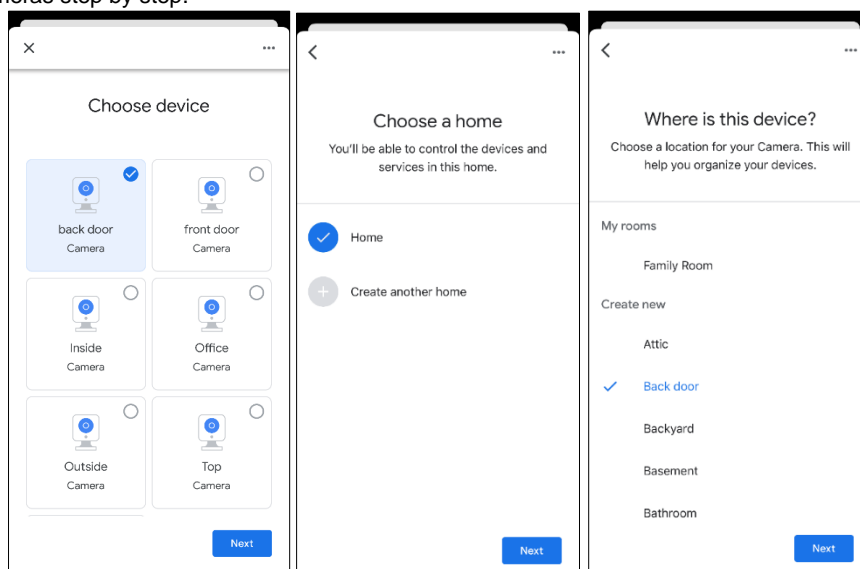
Touch on “Smart Camera View” in the search result. You would need to sign in your google account and allow the Google to access to your device.



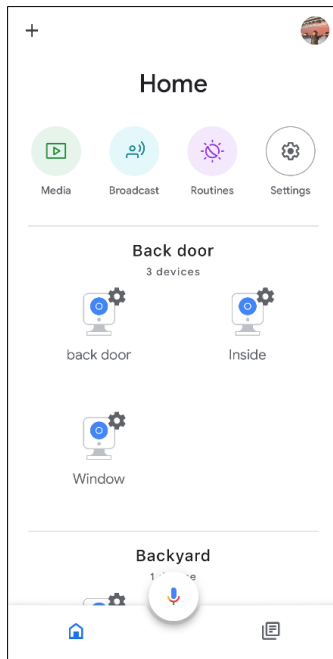
Wait for a while, the Smart Camera View application will be linked to the Google Home.



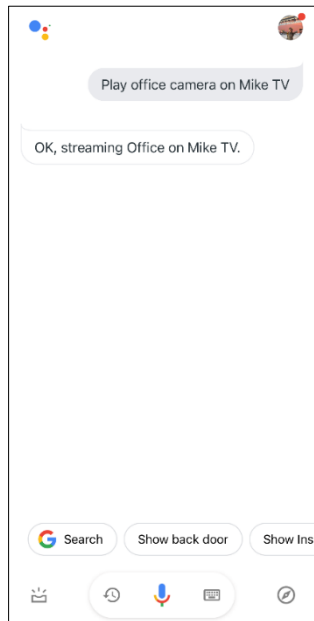
Now the available cameras in your HVR will be displayed. Choose one of the cameras and then touch Next button. Choose a home & location for the cameras step by step.



Repeat the previous step to add all cameras.



Search and install Google Assistant app to your mobile phone from app store.
 Run the Google Assistant, login your google account which is same as the one you bind to the HVR.
 Now, you're able to stream your camera to your TV monitor by using text or voice command, like "Show/play the *** Camera on XXX TV", in which *** is the channel name of the camera, XXX is your TV's name.



3.10.6 PLATFORM ACCESS

3.10.6.1 Onvif

This function is mainly used to connect third-party platforms, such as ECMS/NVMS, via the Onvif protocol.

Channel Record Alarm Configuration AI AI Scenario **Network Configuration** Device System

General Settings DDNS Email FTP IP FILTER Voice Assistant Platform Access

Onvif

Server

Enable ☒

Authentication Digest/WSSE

Protocol HTTP/HTTPS

User Name root

Password *****

Default Apply

Enable : Check the box to enable the function.

Authentication : Set the type of login authentication. The options are Digest_sha256, Digest, Digest/WSSE, WSSE. Choose one of these options to suit your third-party platform.

Protocol: Choose http, https or both.

User Name: Set a user name to connect to the platform.

Password: Set a password for connecting to the platform.

3.10.6.2 RTMP

This function is used to transfer data to a server with RTMP protocol.

Channel Record Alarm Configuration AI AI Scenario **Network Configuration** Device System

General Settings DDNS Email FTP IP FILTER Voice Assistant Platform Access

Onvif

RTMP

Enable ☒

Server Address

Stream Type Mainstream

Channel

IP Channels

Note:
Recommended resolution is 1920x1080.
Only H.264 video encoding and G711A/U audio encoding is supported.
The system will automatically change the video encoding to H.264 and the audio encoding to G711A when rtmp is enabled.

Default Apply

Enable: check the box to enable the function.

Server Address: set the address of the server to which the video stream is to be transferred.

Stream Type: select the type of video stream between mainstream and substream.

Channel: select the channel from which to send the video stream.

3.11 DEVICE

This section can be used to access the configuration and control functions of the devices and services available on the NVR. Click on "Device" (HDD) at the top to open the following subsections:

- Disk
- Cloud
- FTP

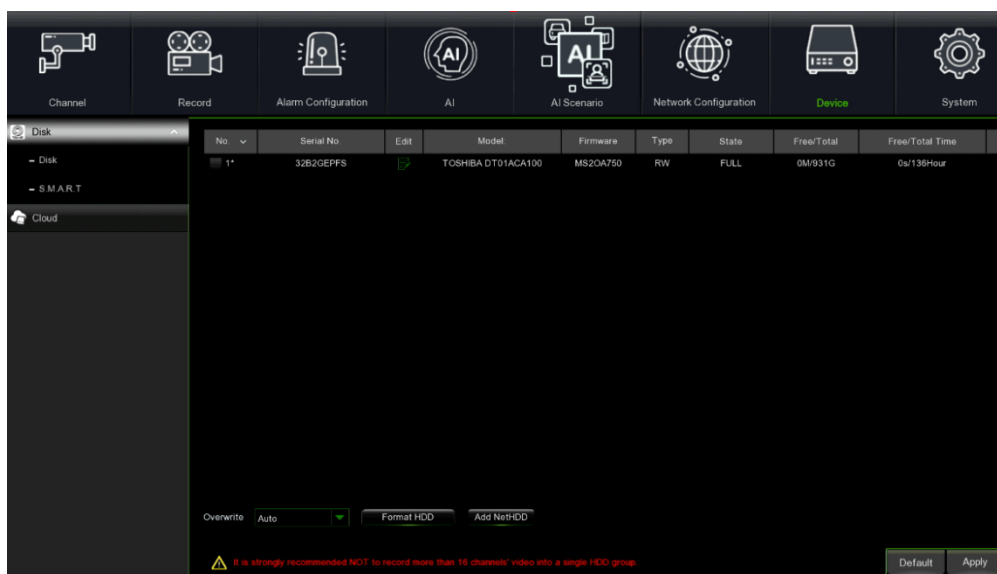
3.11.1 DISK MANAGE

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

3.11.1.1 Disk Manage

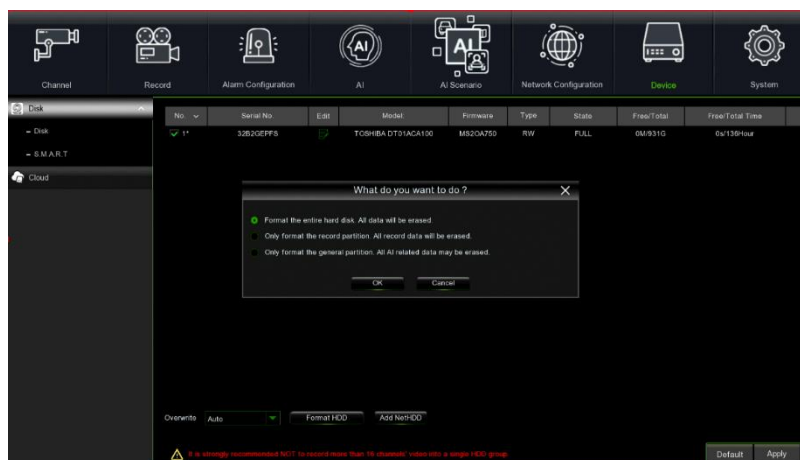
This menu can be used to check and configure one or more internal HDDs. You need to format the HDD only the first time it is started and when it is replaced.

Select the item to access the settings of the hard disk connected to the NVR.



The page with the list of main parameters can be accessed via this side menu item.


When the NVR is connected to a HDD, the system automatically detects whether the HDD is normal or not. If the wire connected to the HDD is loose or if the HDD is not normal, its state will be "No Disk"; if the HDD must be formatted, its state will be "no format". Otherwise, the state will be "Normal".





- **No:** This indicates that the HDD was not reconfigured by the system.
- **Serial No.:** This shows the serial number of the HDD.
- **Model:** The model of the HDD is shown.
- **Firmware:** The code of the firmware installed on the hard disk is reported
- **Disk Type:** This indicates the disk type. Possible values are: RW (Read Write), RE (Redundant), RD (Read Only)
- **Status:** This is only available if the HDD was formatted.
- **Total/Free Space** - Free space available on the installed hard disk/Total hard disk space.
- **Free/Total Time** - Free space available in hours/total space available in hours.
- **Edit:** This can be used to configure the HDD; click to open the following pop-up:



Click on  in HDD Status to change Disk Type and Disk group:



- **Hard Disk ID:** This shows the HDD serial number.
- **Disk Type:** This indicates the disk type. Possible values are: Read Write Disk, Redundant Disk, Read Only Disk

The following options are also available on the lower part of the page:

- **Overwrite** - If set to AUTO, the NVR will record over the oldest files on the hard disk. The NVR will always be able to record the events as they occur; however, this means that important events must be transferred from the hard disk before they are overwritten; if overwriting is set to OFF, the NVR will stop recording when it is full. Although old recordings will not be lost, the risk is that it may not be possible to record any new events. Be very sure before selecting this function. Furthermore, the period (in days) during which the recording file can be played may be shown in "SEARCH RECORDING". Select a value (in days) from the available options.
- **HDD Format** - Formatting the HDD will delete all data (i.e. recordings) contained on it and will recreate the FAT (File Allocation Table). Enter the correct NVR password after having selected the [Format HDD] button.

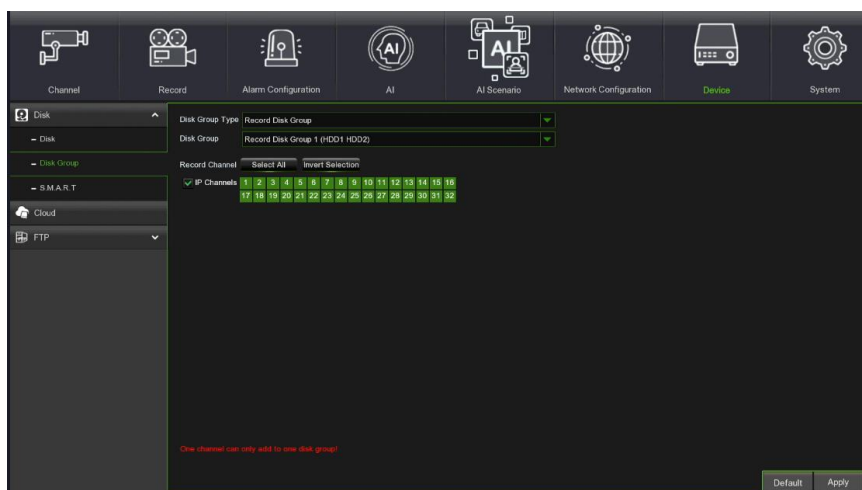
Note:

When configuring the NVR, it is important to check that the hard disk (HDD) options are set correctly. For this reason, it is strongly advised to format the HDD before starting the first recording.

If the eSATA recording function is enabled, the eSATA backup function will be disabled.

3.11.1.2 Disk Group *Only available for the 1098/334*

This menu item allows you to define the association between hard disks and IP cameras. The available options are listed at the bottom of the picture.

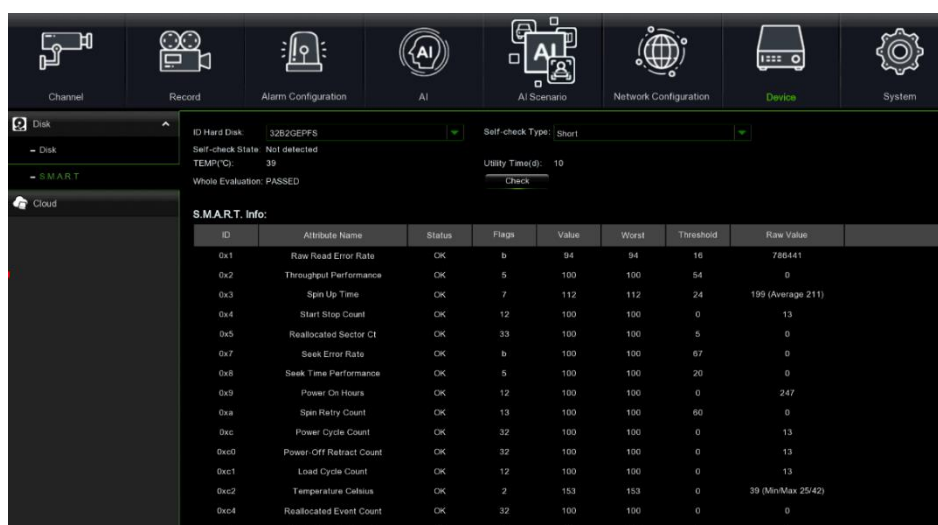


- **Disk Group Type:** group type, possible values: Record Disk Group, Redundant Disk Group, Read Only Disk Group.
- **Disk Group:** Group to which to associate the HDD within the selected type.
- **Record Channel:** Here you can define which IP channels belong to the selected Disk Group. The "Select All" and "Invert Selection" buttons allow you to add all available channels to the group, or reverse the selection made, respectively.
- **IP Channels:** If this option is enabled, it allows you to add channels related to IP cameras to the group.

Important: a camera cannot be added to two or more groups at the same time.

3.11.1.3 S.M.A.R.T. (Self-Monitoring, Analysis and Reporting Technology) information

This function can be used to display technical information about the hard disk installed inside the NVR. You can also run a test (three types are available) to evaluate and detect possible disk errors. It can be used to control the S.M.A.R.T. (Self-Monitoring, Analysis and Reporting Technology) functions of the hard disks connected to the NVR.



The **Self-Monitoring, Analysis, and Reporting Technology or S.M.A.R.T.** system is a hard drive and SSD monitoring system for detecting and providing reliability indicators with the goal of anticipating faults.

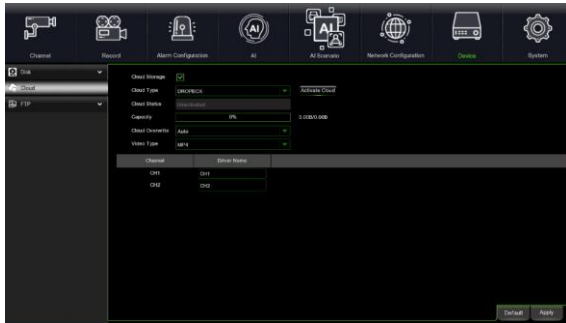
- **Whole Evaluation not passed, continue to use the disk:** If selected, this indicates that the HDD has not been fully scanned but that the system can still use it.
- **Hard Disk ID:** HDD ID (set by the system).
- **Self-check Type:** This can be used to select the type of analysis to be performed on the HDD, possible values:
- **Self-check State:** This indicates the check state performed on the disc (if run).
- **TEMP (°C):** Temperature of the HDD.
- **Utility Time (d) (g):** Time of use (in days).
- **Whole Evaluation:** Result of the complete HDD analysis, possible values: PASSED, NOT PASSED.
- **S.M.A.R.T. Info:** List of information provided by the S.M.A.R.T. system and respective results with respective reference values. The information is primarily intended for experienced personnel.

3.11.2 CLOUD

The NVR can transfer the images and videos, captured by the cameras in case of alarm, to a Cloud storage service via Dropbox and Google Drive, a free service which allows you to easily store and share snapshots and have them always at hand when you need them. The configuration is accessible via the Cloud item in the side menu.

Before activating the Cloud function, it is recommended that you create a Dropbox or Google Drive account using your chosen NVR email address and password. Go to the main Dropbox or Google Drive site, enter your name, email address and password, accept the terms and conditions, then click on the Sign up button.

Go to [Main Menu→Device→Cloud] to open the following page.



- **Cloud Storage:** The Cloud storage function can be activated.
- **Cloud type:** You can select the Cloud type; the default option is DROPBOX/Google Drive.
- **Activate Cloud:** Click on this button to activate the Cloud storage function.
- **Cloud Status:** This indicates the status of the Cloud Server if it is activated or deactivated.
- **Capacity:** This indicates the use/available storage capacity of the Cloud Server.
- **Cloud Overwrite:** This can be used to set the option of the number of days you want to keep the data stored and viewable on the Cloud Server.
- **Video Type:** This can be used to select the video format in which you want to save the video files on the Cloud Server, in RF, AVI or MP4 format.
- **Driver name:** The driver name can be changed (for example, the default setting is CH1).

3.11.3 FTP

The last available item in the Network section concerns the configuration parameters to access a FTP server on which to load the images and the recordings acquired following an alarm detected by the NVR.

3.11.3.1FTP

This menu can be used to enable the FTP function to view and upload snapshots captured by the NVR to the FTP storage device.



- **FTP Enable:** Select the desired option to enable or disable the operation.
- **Server IP:** Enter the address of the FTP server name.
- **Port:** FTP service port. Default value: 21.

- **Username:** User name to access the FTP.
- **Password:** Password to access the FTP server.
- **Picture Resolution:** You can set the resolution of images sent to the FTP server.
- **Picture Quality:** You can set the quality level of the pictures sent to the FTP server.
- **Video Stream Type:** Select the stream type (i.e., mainstream, substream) for videos sent to the FTP server.
- **Max Package Interval:** Select the interval for sending pictures/videos to the FTP server.
- **Directory Name:** Name of the folder in which to transfer the recorded images or motion alarms.
- **Normal Video Upload:** It is possible to enable or disable the option to send the normal video recording to the FTP server.
- **Upload Alarm Video:** It is possible to set the FTP video/image notification in case of an event (e.g. Motion, IO, PIR, Intelligent).
- **FTP TEST:** Click on the FTP TEST button to check how the configuration works.

3.11.3.2 FTP Schedule

This configuration page can be used, as seen in the other cases, to select on which times and days of the week the NVR must send the images/video to the FTP in case of a given event.



- **Channel:** This can be used to select the channel to be configured.
- **Motion:** Use this option to define the times at which to enable sending of images/videos to the FTP in case of automatic motion detection.
- **IO (I/O):** Use this option to define the times at which to enable sending of images/videos to the FTP in case of sensor alarm detection.
- **PIR:** Use this option to define the times at which to enable sending of images/videos to the FTP in case of automatic PIR detection.
- **AI:** Use this option to define the times at which to enable sending of images/videos to the FTP in case of intelligent video analysis detection.
- **Default:** This can be used to restore the default settings.
- **Thermal:** Use this option to define in which time slots you want to enable the sending of images/videos to FTP in case of thermal alarm detection.
- **Copy:** This is used to copy the current channel settings on another or on all other channels.

3.12 SYSTEM

This section allows you to configure the functional parameters of the system. To access it, press "System" at the top of the screen. The following subsections will appear in the menu below:

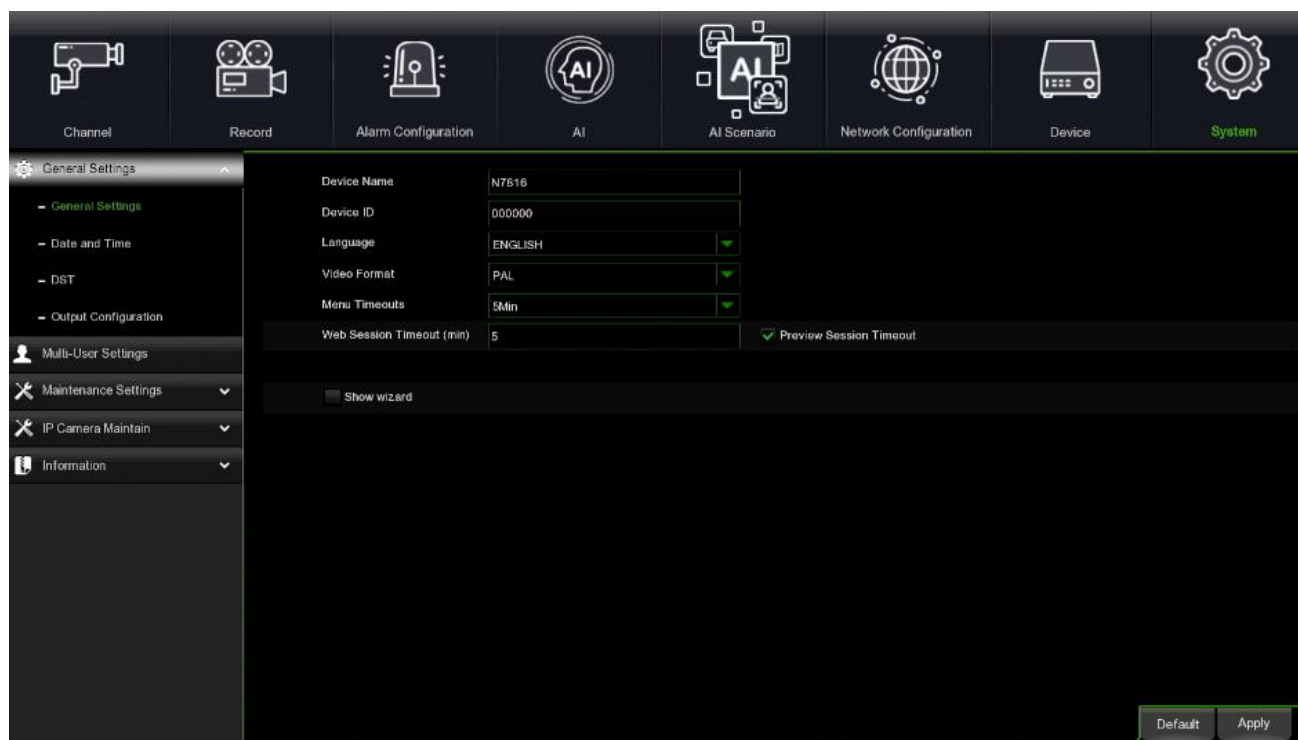
1. General Settings
2. Multi-User Settings
3. Maintenance Settings
4. IP Camera Maintain
5. Information

3.12.1 GENERAL

This area contains all the general settings of the NVR.

3.12.1.1 General settings

Select the first item in the side menu to access the general settings of the system as shown in the figure.



This can be used to edit the system date and time, the date/time format, the video format, the automatic logout and the NVR operating mode.

- **Device Name:** Enter the name of the NVR. The name may include both letters and numbers.
- **Device ID:** Enter the ID of the NVR. The device ID is used to identify the NVR and can only consist of numbers. For example, 2 NVRs are installed in the same place: the Device ID is 000000 for one NVR and 111111 for the other NVR. If you want to use a remote control, both NVRs will be able to receive the signal and act simultaneously. If you want to control only the NVR with Device ID 111111, you can enter Device ID 111111 on the login page to perform further operations with the remote control.
- **Language:** Select the desired system menu display language. Multiple languages are available.
- **Video Format:** Select the correct local video standard.
- **Menu Timeouts:** Click on the drop-down menu to select the time frame after which the NVR will exit the Main Menu in case of inactivity. To disable this function, select "OFF" (password protection will be temporarily excluded).
- **Web Session Timeout:** Enter the amount of time in minutes after which the NVR will exit the web page in case of inactivity.
- **Preview Session Timeout:** If this box is checked, the NVR will exit the preview page when the set time expires.
- **Show Wizard:** Click on the check box if you want to display the Startup Wizard every time you turn on or restart the NVR.

3.12.1.2 Date and Time

Date and Time: The date and time can be set.

Static: Check this box if you wish to enter the date and time manually.

NTP: The NTP (Network Time Protocol) function allows the NVR to automatically synchronise its clock with a time reference server. This allows for consistently accurate time setting (the NVR will periodically synchronise automatically). Tick to enable **NTP**, select a **Server Address**, and click the **Update Now** button to manually synchronise the date and time. When NTP is enabled, the system time is updated at 00:07:50 each day or each time the system is started.

- **Date:** Click on the calendar icon to edit the date.
- **Time:** Click on the dialog box to change the time.
- **Date Format:** Select your preferred date format.
- **Time Format:** Select your preferred time format.
- **Time Zone:** Select the time zone for your region or city.

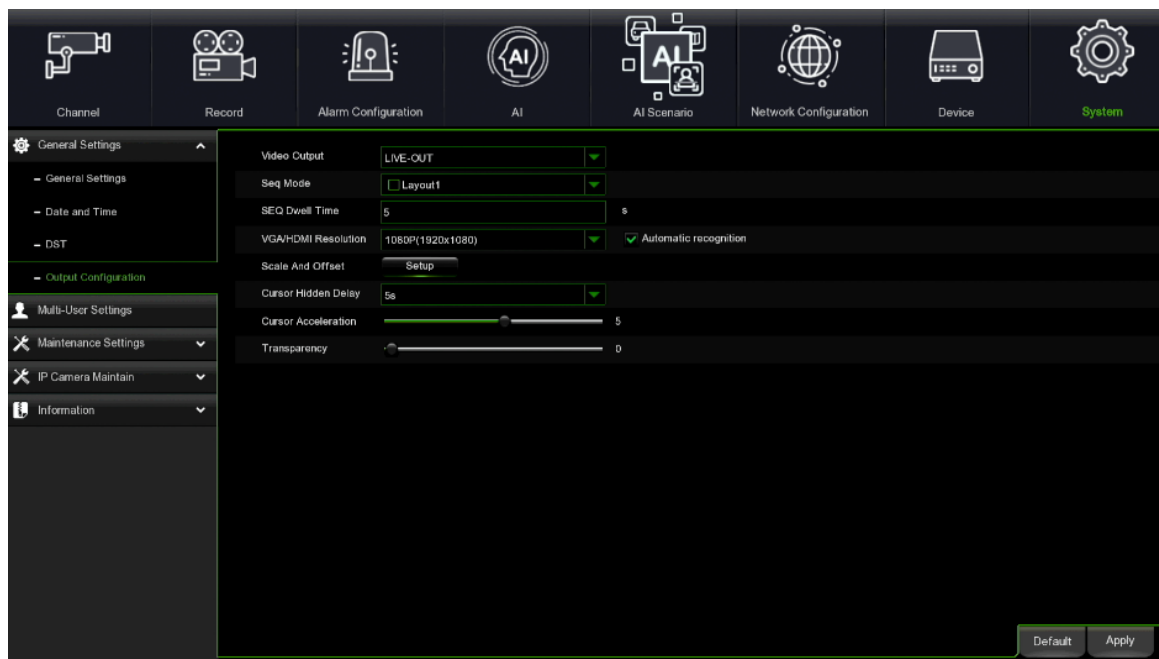
3.12.1.3 DST Settings

The DST (Daylight Saving Time) function can be used to select the time difference due to daylight saving time in your local time zone or region.

- **Enable DST:** If daylight saving time applies to your local time zone or region, check this option to enable it.
- **Time Offset:** Select the time difference due to daylight saving time in the local time zone. This is the difference in minutes between Coordinated Universal Time (UTC) and local time.
- **Daylight Saving Time:**
 - **Week:** Select the month, day and time of the start and end of summer time. For example, 02.00 on the first Sunday of a given month.
 - **Date:** Select the start date (click the calendar icon), end date and daylight saving time.
 - **Start Time / End Time:** Set the start time and end time of daylight saving time.

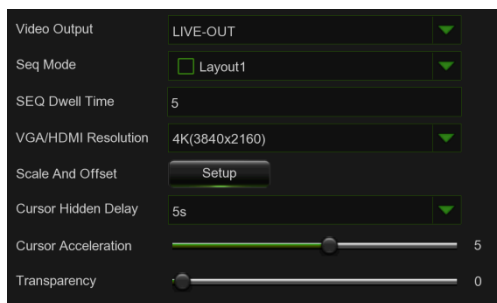
3.12.1.4 Output Configuration

This menu can be used to configure the video output parameters.



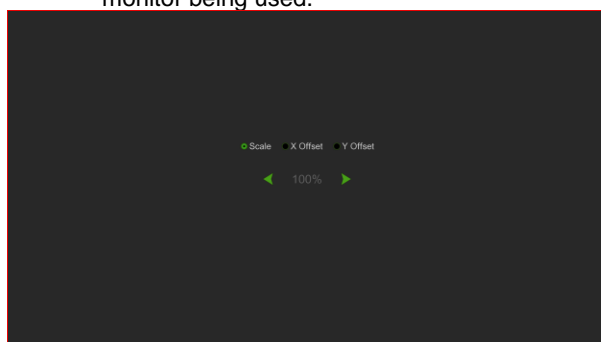
- **Video Output:** Select the output options:

LIVE-OUT can be used to configure the main output parameters.



Select **LIVE-OUT** from the Video Output drop-down menu.

- **SEQ Mode:** Select the video channels to be viewed when the NVR is in sequence mode.
- **SEQ Dwell Time:** Enter the maximum time (in seconds) during which you want to display a video channel in sequence mode before switching to the next video channel (maximum 300 seconds).
- **Output Resolution:** Select a video resolution compatible with your monitor. The 1920 x 1080 resolution is suitable for most monitors. If the NVR supports 4K output resolution, you can select 4M (2560 x 1440) or 4K (3840 x 2160) to benefit from the best resolution offered by the 4K monitor.
- **Scale and Offset:** The NVR supports adjusting the size and position of the display screen to suit the monitor or monitor being used.



- **Scale:** This can be used to adjust the size of the screen displayed in scale.
- **X Offset:** This can be used to move the displayed screen leftwards/rightwards.
- **Y Offset (Y Offset):** This can be used to move the displayed screen upwards/downwards.

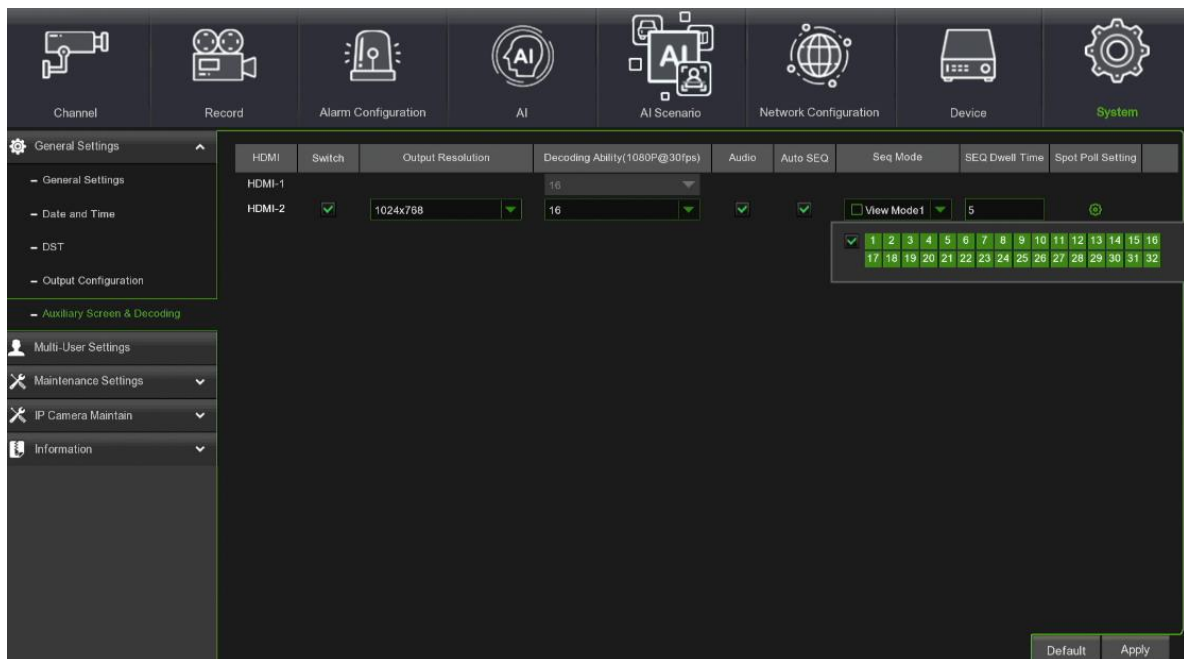
Click once or hold down the left mouse button on the arrow to adjust the size and position; alternatively, slide the mouse wheel to adjust them. Right-click to exit and click on **Apply** to save the changes.

- **Cursor Hidden Delay:** Click on the drop-down menu to select the time after which the NVR will hide the mouse cursor in case of inactivity. To disable this function, select "OFF" (password protection will be temporarily excluded).

- **Cursor Acceleration:** This can be used to adjust the speed at which the mouse cursor moves.
- **Transparency:** Click and hold the cursor on the left or right to change the transparency level of the menu bar and main menu on the screen. Adjust accordingly.

3.12.1.5 Auxiliary Screen&Decoding (Only for 1098/334)

This menu allows you to configure the HDMI2 video output parameters.



Switch: Check the box to set the HDMI2 output.

Output Resolution: allows you to set the resolution of the HDMI2 output.

Decoding Ability: Enables you to change the decoding performance of the HDMI2 output.

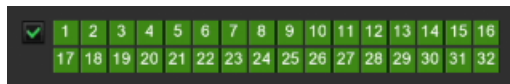
Audio: Check the box to enable audio on the HDMI2 output.

Auto SEQ: Check the box to enable video sequencing on the HDMI2 output.

Seq Mode: Check the box to set the number of frame divisions of the HDMI2 output in video sequence mode.

SEQ Dwell time: Set the screen sequence time in seconds. It is possible to choose a time from 5 to 300 seconds.

Spot Poll Setting: Allows you to select/deselect the channels to be displayed.



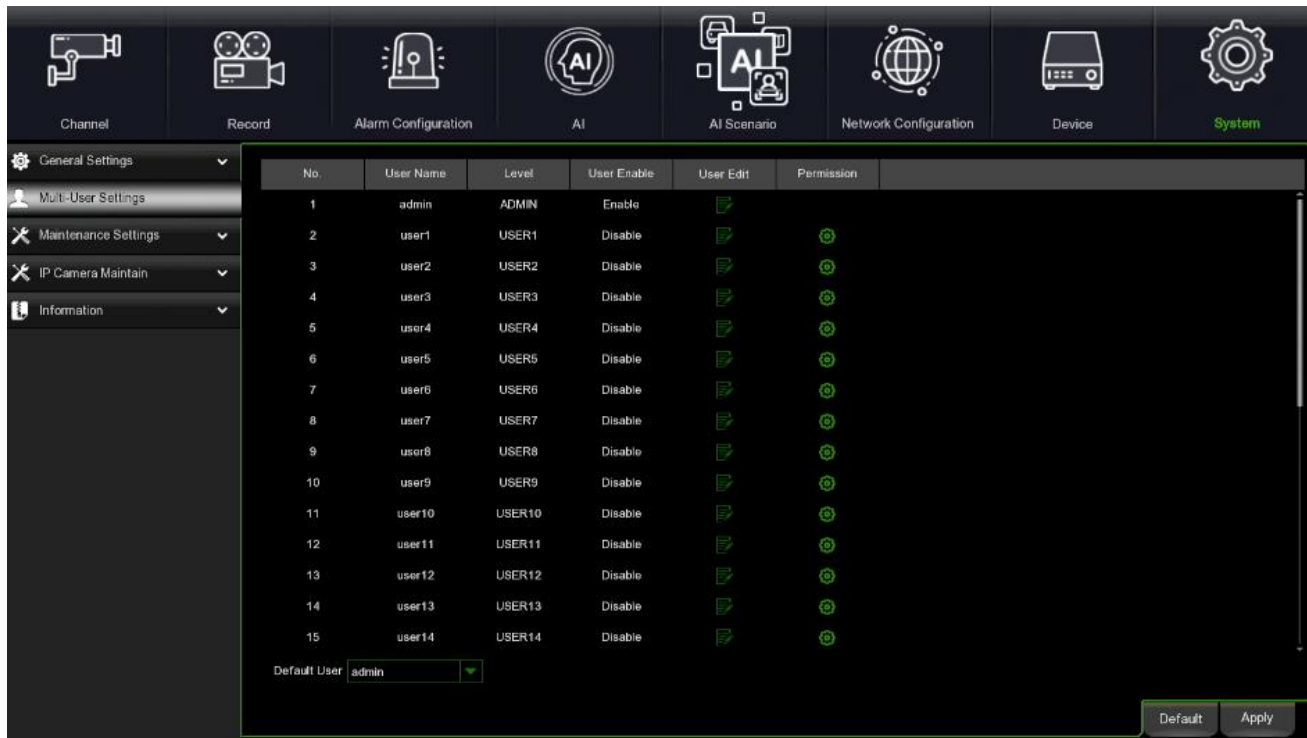
View mode: Allows you to set the number of squares in the output.

Define SEQ Setting: allows you to define which channels and in which grid squares of the output to display them.



3.12.2 MULTI-USER SETTINGS

This menu can be used to configure user name, password and user permissions.



The system supports the following account types:

- **ADMIN - System Administrator:** The administrator has complete control of the system and can change administrator and user(s) passwords and enable/exclude password protection.
- **USER - Normal user:** users can only access the live view, search, playback, etc. functions. You can set up multiple user accounts with different levels of system access.

1. Changing Password

To change the password for administrator or user accounts, click on the User Edit icon . The password consists of at least eight characters and may consist of digits and letters. Enter your new password a second time to confirm it, then click on **Save** to save it. For authentication, you will need to enter your old password.

User Edit

Level: ADMIN

User name: admin

Password Strength: [] [] []

Password: [] [] [] [] [] [] [] []

Confirm: [] [] [] [] [] [] [] []

Unlock Pattern Enable: Enable Draw














Number of single user logins: 3


Default Save Cancel

Unlock Pattern Enable: Enables the unlock pattern to access the NVR menu. Press Draw to draw the unlock pattern.

Number of Single User Logins: You can limit the simultaneous logins of multiple users by entering the maximum number of logins at the same time.

2. Add New Users

No.	User Name	Level	User Enable	Password Enable	User Edit	Permission
1	admin	ADMIN	Enable	Enable		
2	user1	USER1	Disable	Disable		
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		

- Select one of the currently disabled user accounts and click on the **User Edit** icon .

User Edit

Level

USER1

User Enable

Enable

User name

user1

Password Strength

Password

Confirm

Number of single user logins

3

Default














Save

Cancel

- Select **Enable** from the drop-down menu next to **User Enable**.
- Click on the field next to **User Name** to change the account username.
- Select **Enable** from the drop-down menu next to **Password Enable**.
- Click on the field next to Password to enter the desired password.
- Click on the field next to **Confirm** to re-enter the password.
- Click on **Save**. For authentication, you will need to enter the Administrator password.

3. Setting User Permissions

The administrator account is the only one with total control of all system functions. You can enable/exclude access to certain menus and functions for each user account.

No.	User Name	Level	User Enable	Password Enable	User Edit	Permission
1	admin	ADMIN	Enable	Enable		
2	user1	USER1	Disable	Disable		
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		

- Click on the icon  under the Permission tab.

User Permission

User Name: user1

☐ Log Search ☐ Parameter ☐ Auto Reboot ☐ Manual Record
☐ Disk ☐ Remote Login ☐ SEQ Control ☐ Manual Capture

☐ Backup

IP Channels: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16

☐ Live

IP Channels: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16

☐ Playback

IP Channels: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16

☐ PTZ

IP Channels: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16

- Check the boxes next to the menus and system capabilities that the user can access. Click on **All** to check all boxes. Click on **Clear** to not check any boxes.
- Click on Save to save the changes made.

3.12.3 MAINTENANCE SETTINGS

In this section, you can search and view the system log, load the default settings, update the system, export/import system parameters and manage the automatic system reboot.

3.12.3.1 Log

The log systemic contains important system events, such as motion alarms and system signals. You can easily create a backup file of the log system for a certain period of time by loading it onto a USB flash drive.

Channel Record Alarm Configuration AI AI Scenario Network Configuration Device **System**

General Settings
 Multi-User Settings
 Maintenance Settings
 Log
 Load Default
 Reset button
 Upgrade
 Parameter Management
 Auto Reboot
 Developer Mode
 IP Camera Maintain
 Information





Start Date: 15/11/2022 Start Time: 00:00:00
 End Date: 15/11/2022 End Time: 23:59:59
 Log Type: All Search

Channel	Type	Time	Operation	Access Source	Record	Playback
---------	------	------	-----------	---------------	--------	----------

Backup

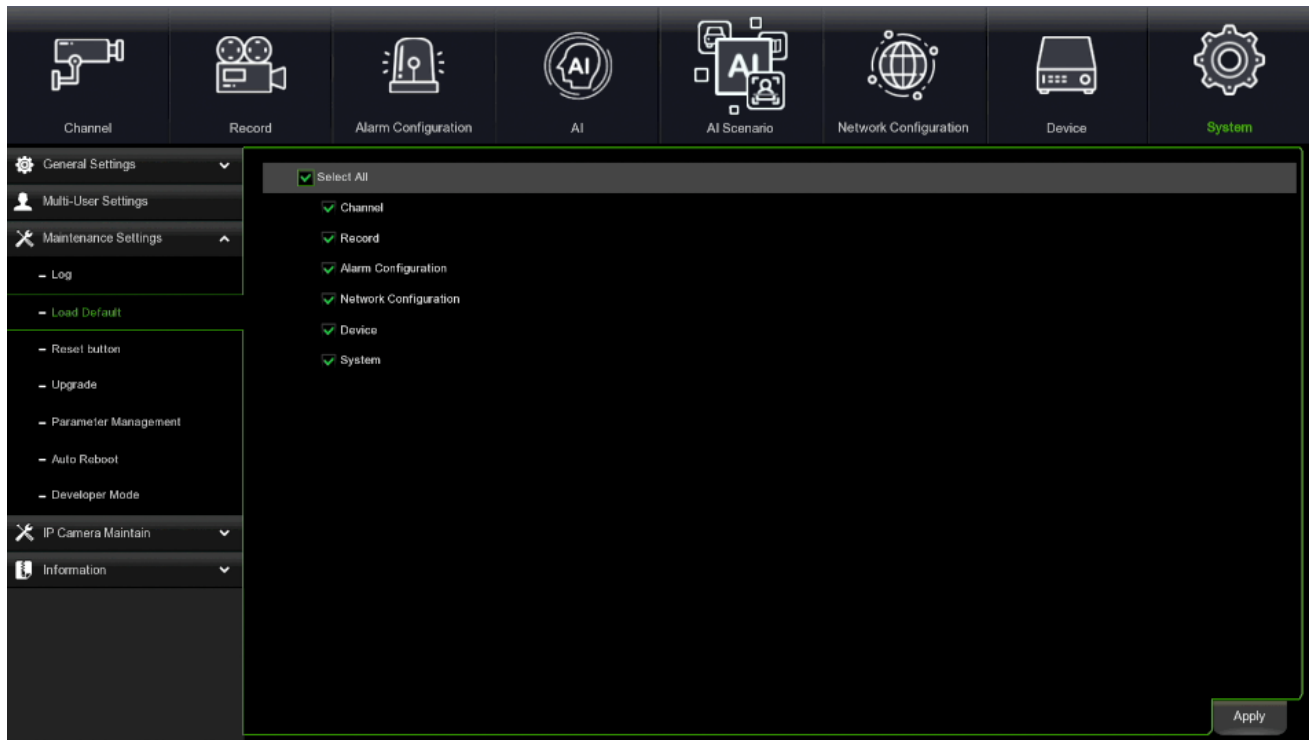
Log Searching and Backing Up:

- Click on the field by the side of **Start Date & Start Time** to select the starting date and time of the displayed calendar search.
- Click on the field next to **End Date & End Time** to select the end date and time of the search from the displayed calendar.

- Select the type of events you are looking for from the drop-down menu next to **Log Type** or select **All** to view the entire system log for the selected period.
- Click on **Search**.
- Browse system log events by search period:
- Video events can be played back instantly by clicking the **Playback** column. Right-click to return to the search results.
- Use the   /   buttons in the bottom right of the menu to switch between the system event log pages.
- Click on **Backup** to create a backup of the system log for the period you are looking for. Check that the flash drive is connected to the USB port of the NVR. The backup drive menu appears. Go to the folder in which to save the backup file and click on **OK** to start the operation.

3.12.3.2 Load Default

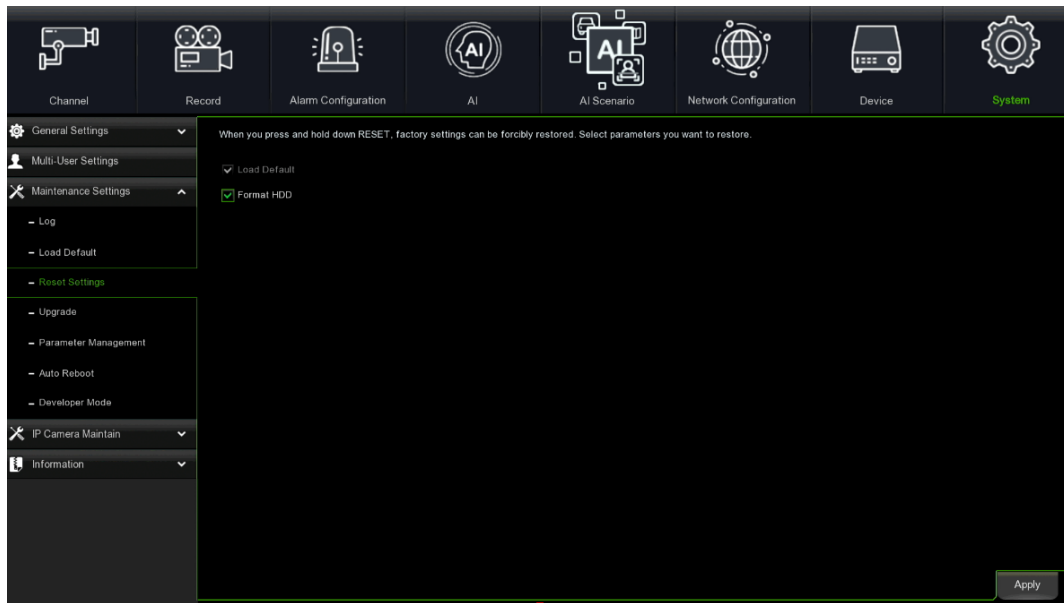
Restore the NVR to factory settings. You can select to reset all settings at once or only the specific menu settings. Restoring the default settings will not erase the recordings and snapshots saved on your hard disk.



Select all items to reset or check **Select All** to select all items. Click on **Apply** to load the default settings for the selected items.

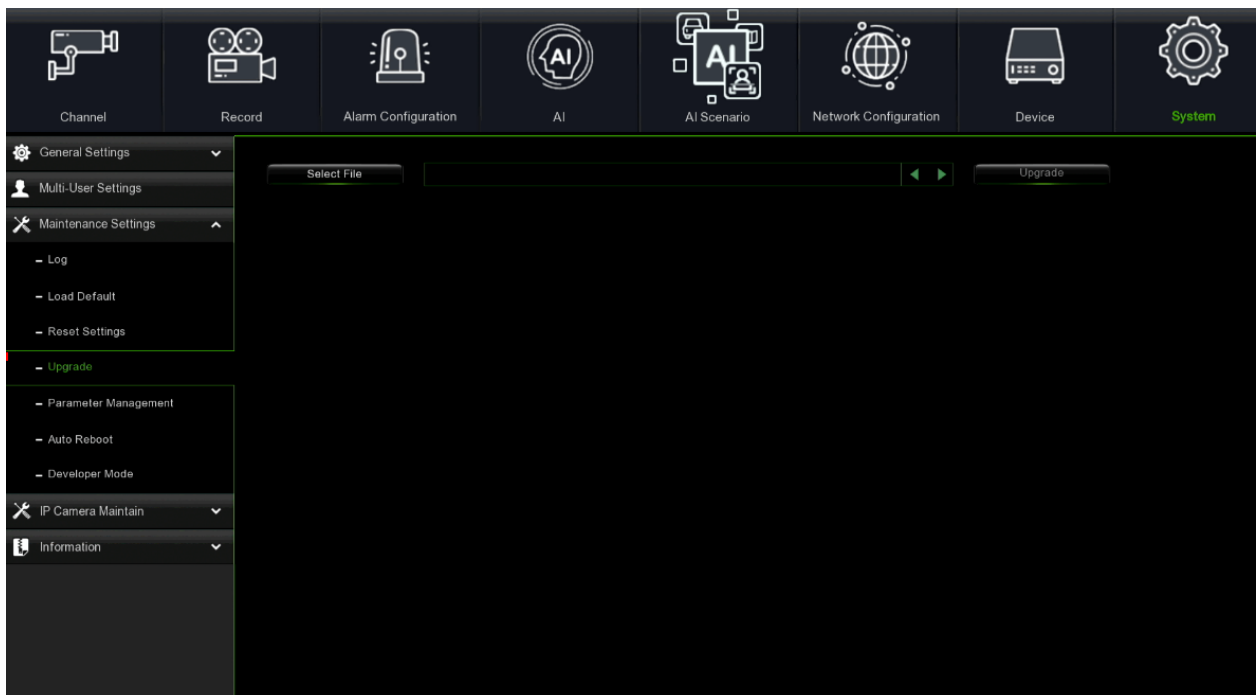
3.12.3.3 Reset Button

Put flag on Format HDD, it is possible to erase the recording when the RESET button is pressed to reset to factory settings (Load Default).



3.12.3.4 Upgrade

This function can be used you to update the NVR firmware.

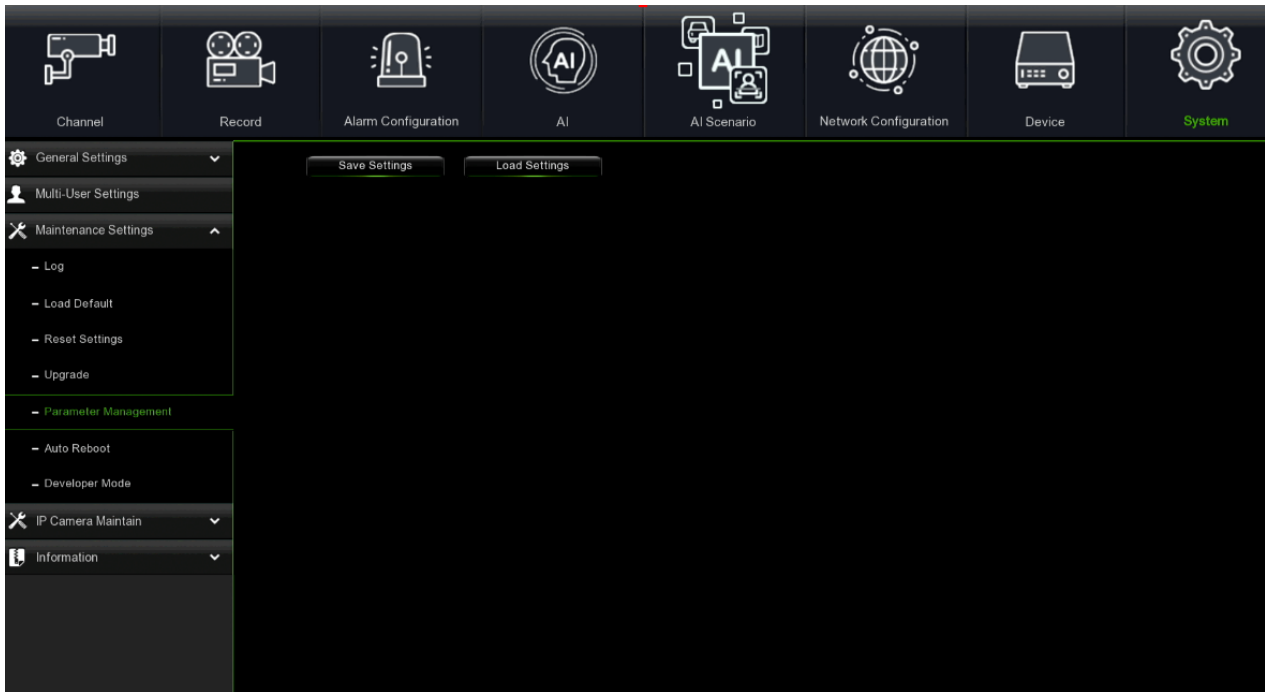


Copy the firmware file (.sw file) to the USB flash drive and insert it into the USB port of the NVR.

Click on the **Select File** button to select the firmware file on the USB flash drive, then click on OK.
Click on the **Upgrade** button to start the system upgrade. The system update will take about 5-10 minutes: **DO NOT turn off the NVR or remove the USB flash drive from the NVR during the firmware update.**

3.12.3.5 Parameter Management

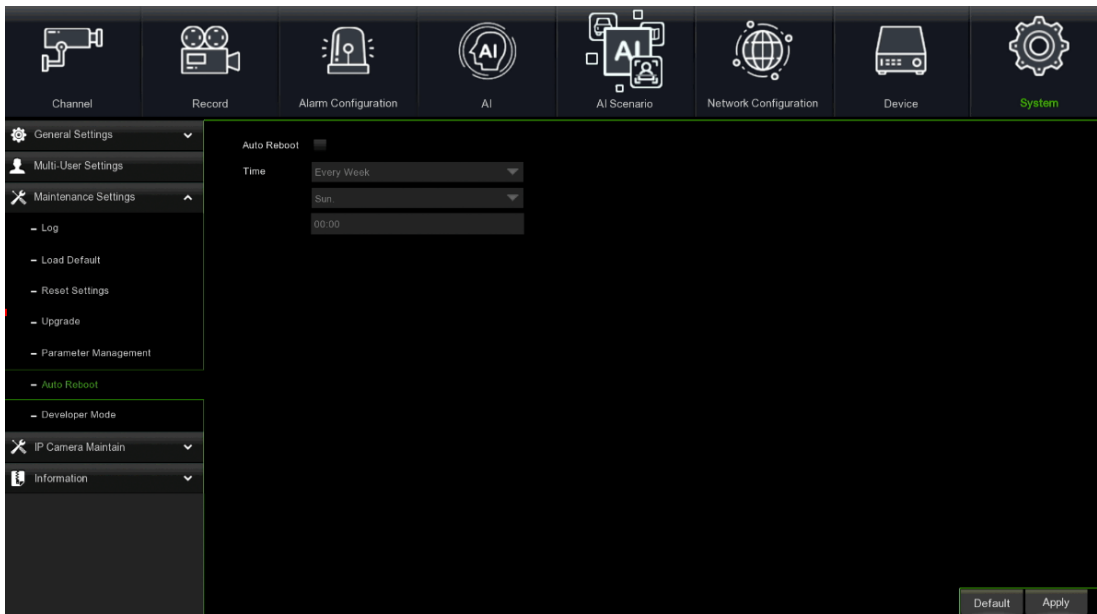
You can export land main menu settings on a USB flash drive, burn to a CD or import a configuration file exported from a USB flash drive to the NVR.



- **Save Settings:** Click to save the current NVR system settings to the USB flash drive. For authentication, you will need to enter the Administrator password.
- **Load Settings:** Once you have created the system settings export, you can import them to another NVR. Click on the **Load Settings** button to access the system settings file that you want to import from the USB flash drive. For authentication, you will need to enter the Administrator password.
- **Upload:** This option can be used to load Video Player (one time only), which will then be burned to CD/DVD media or inserted into the USB flash drive when the backup is complete.

3.12.3.6 Auto Reboot

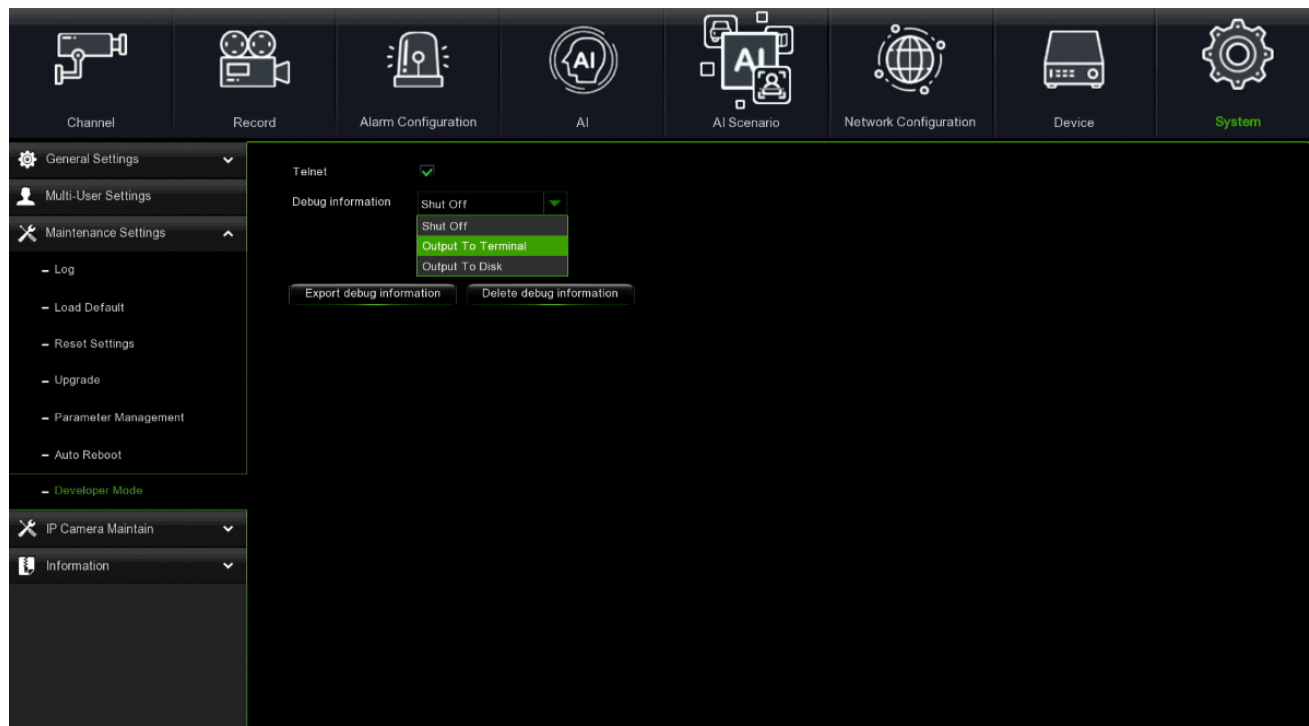
This menu allows the system to automatically reboot the NVR periodically. It is recommended to leave this function enabled, as it preserves the operational integrity of the NVR.



- **Auto Reboot:** Click to enable.
- **Time:** You can set the day, week or month of the NVR reboot.

3.12.3.7 Developer Mode

This mode is only supported by some devices. This menu allows the log of the serial port to be saved on a USB stick.



Telnet: Check the box to enable the function. Telnet can be used to access the device.

Debug information: Select the location to save the logs.

- **Shut Off:** Do not save serial logs.
- **Output To Terminal:** Exports serial logs to terminal.
- **Output To Disk:** Exports serial logs to the HDD.

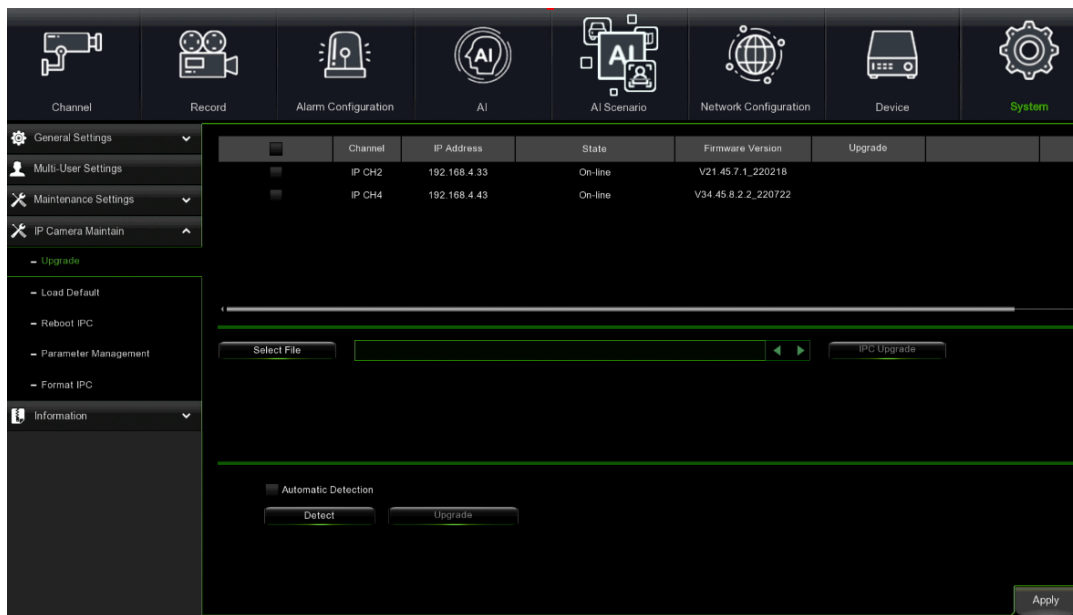
Export debug information: Exports the serial registers to the HDD.

Delete debug information: Deletes the collected serial logs

3.12.4 IP CAMERA MAINTAIN

This menu can be used to update the IP camera firmware and restore its default settings.

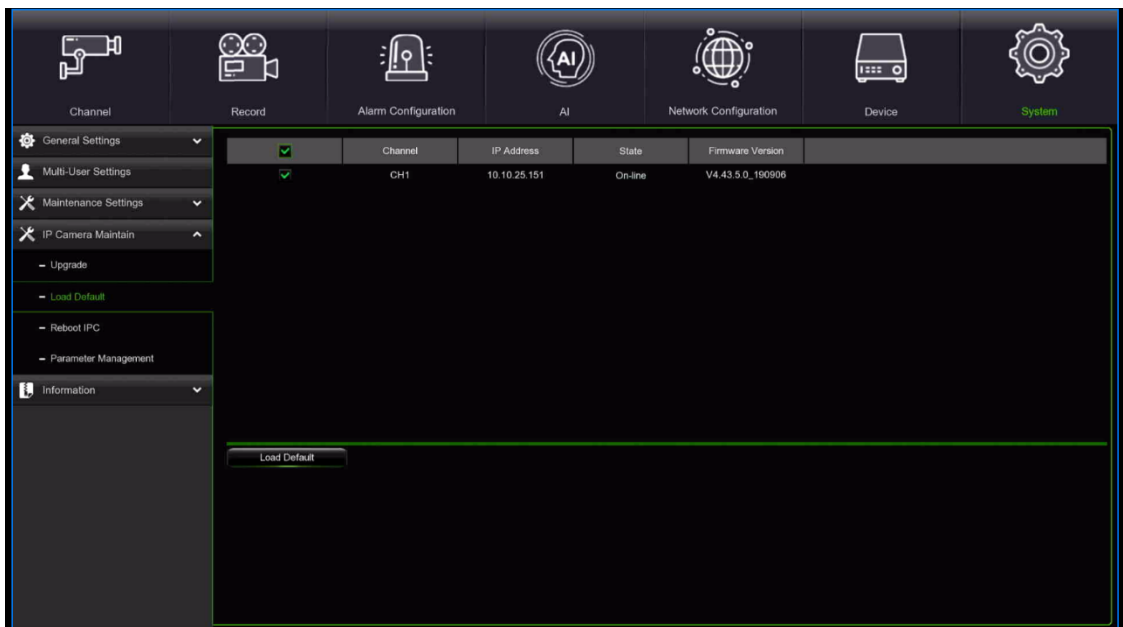
3.12.4.1 Upgrade



- Select the IP camera the firmware of which you want to update.
- Click on the **Select File** button to select the file to be loaded on the USB flash drive, then click on **OK**.
- Click on the **IPC Upgrade** button to start the upgrade. For authentication, you will need to enter the Administrator password. **DO NOT** turn off the NVR and IP camera or remove the USB flash drive during the update.
- **Automatic Detection**: if the box is checked, this function allows automatic detection of the last available update. (For future use)

3.12.4.2 Load Default

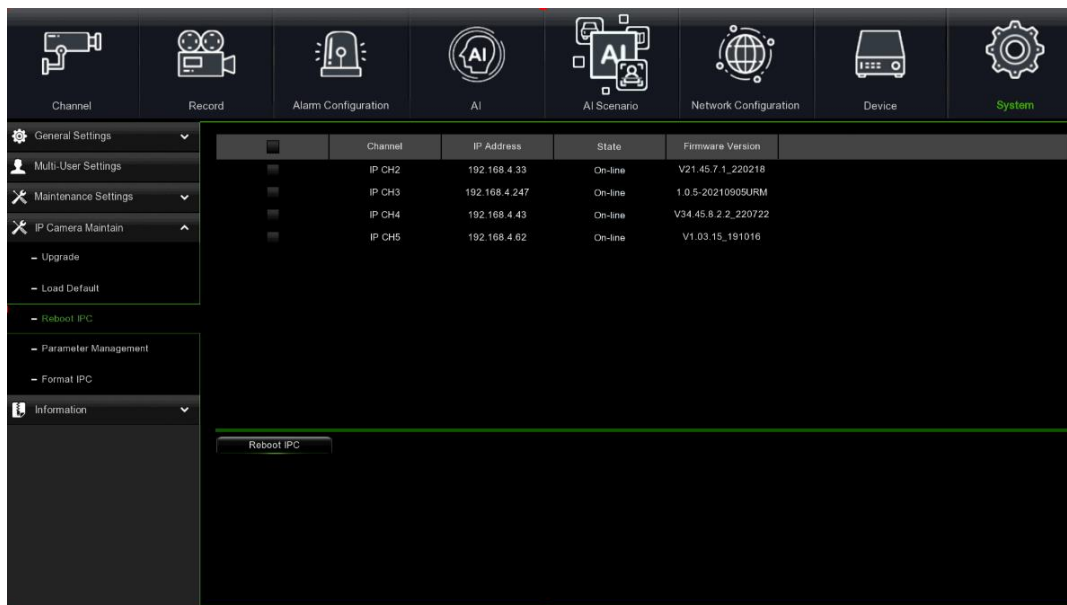
This function can be used to restore the default settings of the IP camera.



- Select the IP camera the default settings of which you want to update.
- Click on **Load Default** to restore the settings. For authentication, you will need to enter the Administrator password.

3.12.4.3 Reboot IPC

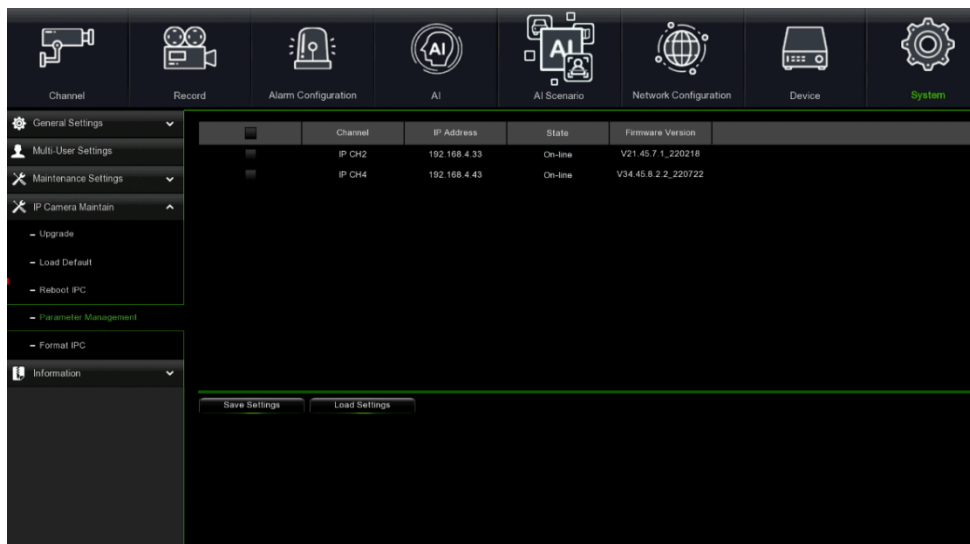
This function allows you to reboot the IP camera.



- Select the IP camera to reboot and click on **Reboot IPC**; a message will prompt you to enter your password.
- Enter the password and click on the **Authenticate** button to reboot the IPC.

3.12.4.4 Parameter Management

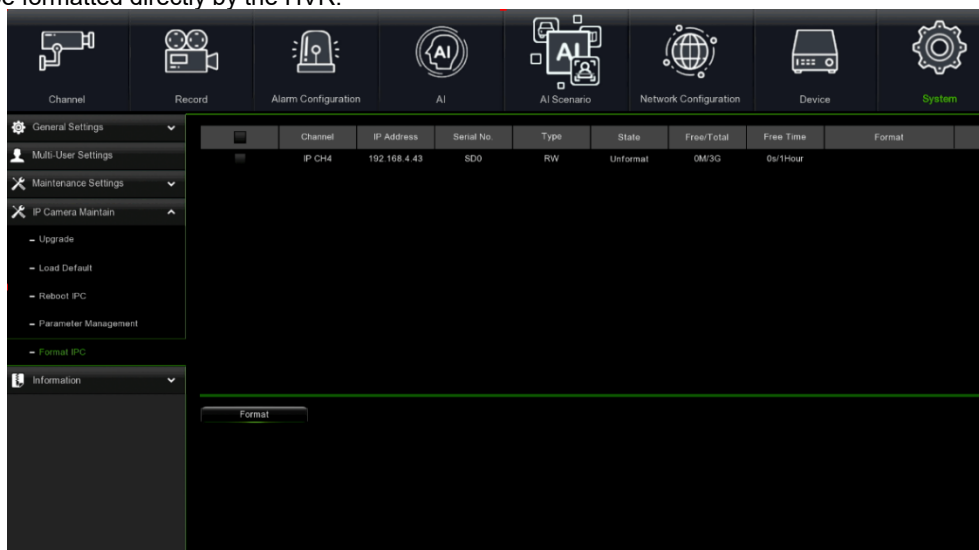
You can export land main menu settings on a USB flash drive or import a configuration file exported from a USB flash drive to the NVR.



- **Save Settings:** Click to save the current NVR system settings to the USB flash drive. For authentication, you will need to enter the Administrator password.
- **Load Settings:** Once you have created the system settings export, you can import them to another NVR. Click on the **Load Settings** button to access the system settings file that you want to import from the USB flash drive. For authentication, you will need to enter the Administrator password.

3.12.4.5 Format IPC

This function can detect the SD memory card installed inside an IP camera with API protocol, and if the box is checked, the card can be formatted directly by the HVR.



3.12.5 INFORMATION

This menu can be used to view system information, channel information, logging information and network status.

3.12.5.1 Information

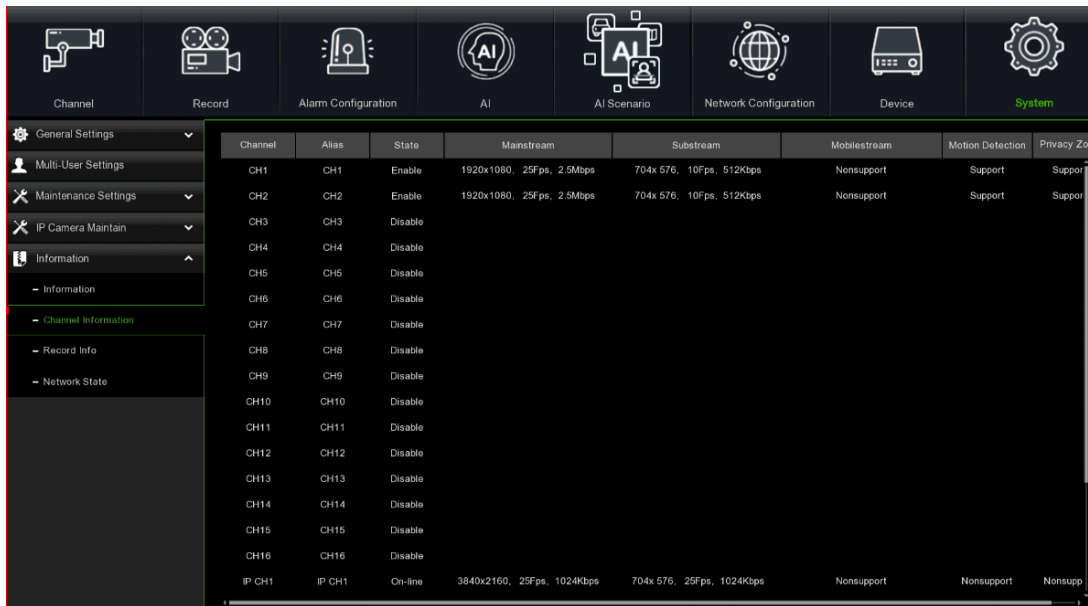
This menu can be used to view system information, such as device ID, device model name, IP address, MAC address, firmware version and more.

If the NVR supports P2P function, the P2P ID and QR code will appear on the information page. Scan this QR code with a mobile app to view the NVR remotely.



3.12.5.2 Channel Information

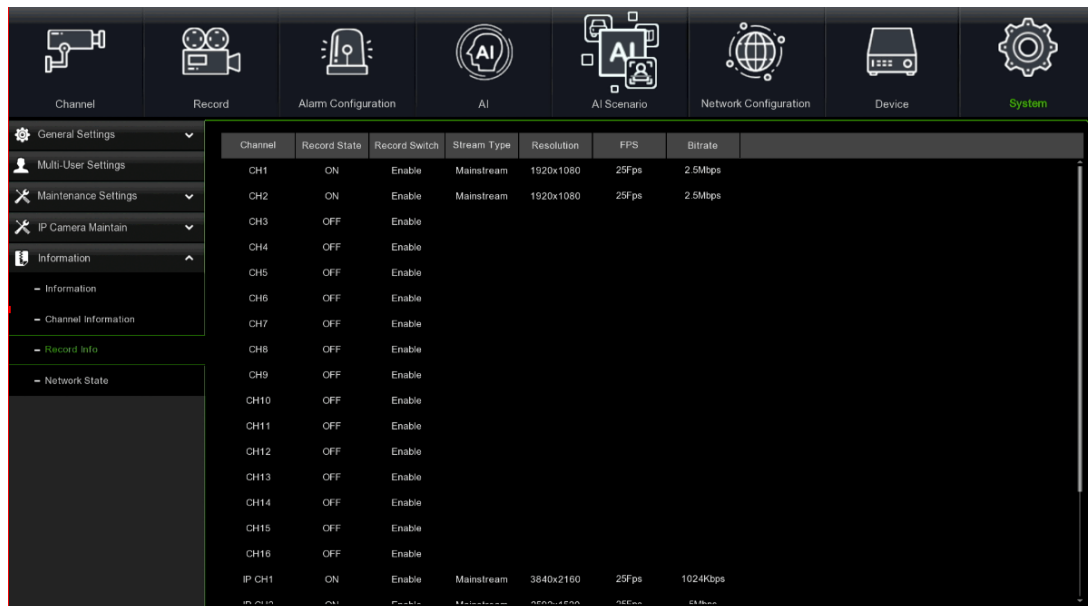
This can be used to view channel information for each connected camera, such as pseudonym, mainstream and substream recording specifications, motion detection status and privacy mask.



Channel	Alias	State	Mainstream	Substream	Mobilestream	Motion Detection	Privacy Zone
CH1	CH1	Enable	1920x1080, 25Fps, 2.5Mbps	704x 576, 10Fps, 512Kbps	Nonsupport	Support	Support
CH2	CH2	Enable	1920x1080, 25Fps, 2.5Mbps	704x 576, 10Fps, 512Kbps	Nonsupport	Support	Support
CH3	CH3	Disable					
CH4	CH4	Disable					
CH5	CH5	Disable					
CH6	CH6	Disable					
CH7	CH7	Disable					
CH8	CH8	Disable					
CH9	CH9	Disable					
CH10	CH10	Disable					
CH11	CH11	Disable					
CH12	CH12	Disable					
CH13	CH13	Disable					
CH14	CH14	Disable					
CH15	CH15	Disable					
CH16	CH16	Disable					
IP CH1	IP CH1	On-line	3840x2160, 25Fps, 1024Kbps	704x 576, 25Fps, 1024Kbps	Nonsupport	Nonsupport	Nonsupport

3.12.5.3 Record Info









This can be used to view the recording information for each connected camera, such as bitrate, flow type, recording resolution and frame rate (Fps).



Channel	Record State	Record Switch	Stream Type	Resolution	FPS	Bitrate
CH1	ON	Enable	Mainstream	1920x1080	25Fps	2.5Mbps
CH2	ON	Enable	Mainstream	1920x1080	25Fps	2.5Mbps
CH3	OFF	Enable				
CH4	OFF	Enable				
CH5	OFF	Enable				
CH6	OFF	Enable				
CH7	OFF	Enable				
CH8	OFF	Enable				
CH9	OFF	Enable				
CH10	OFF	Enable				
CH11	OFF	Enable				
CH12	OFF	Enable				
CH13	OFF	Enable				
CH14	OFF	Enable				
CH15	OFF	Enable				
CH16	OFF	Enable				
IP CH1	ON	Enable	Mainstream	3840x2160	25Fps	1024Kbps

3.12.5.4 Network State

This can be used to view the network information.

							
Channel	Record	Alarm Configuration	AI	AI Scenario	Network Configuration	Device	System

General Settings

Multi-User Settings

Maintenance Settings

IP Camera Maintain

Information

Information

Channel Information

Record Info


Network State

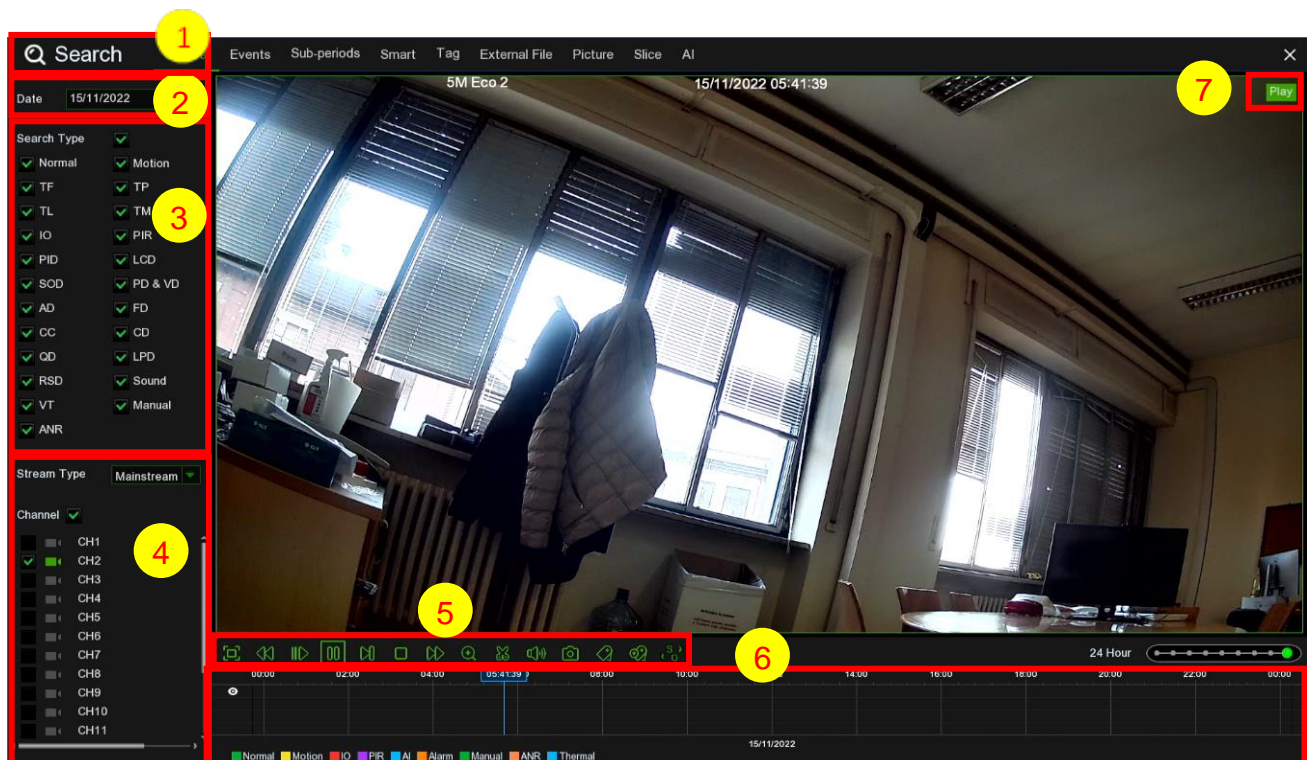
Attribute	Value
WAN interface	
IP Address	192.168.4.214
Subnet Mask	255.255.255.0
Gateway	192.168.4.1
MAC Address	00-1E-E0-05-CD-D8
IPv6 Address	fe80::21e:e0ff:fe05:cd8 / 64
IPv6 Gateway	fe80::64
DHCP	Enable
DNS1	192.168.4.1
DNS2	8.8.8.8
PPPoE	Disable
Port	
Http/Https/RTSP	80/80/Inactive/Disable
Client Port	9000/9000/Inactive/Disable
Total band width:	64Mbps
used band width:	9.125Mbps

3.13 PLAYBACK & BACKUP

The Search function can be used to search and play back previously recorded videos and snapshots stored on the NVR hard disk. You can select to play back videos that match the recording program, manual recordings or motion events only. The Backup function allows you to save important events (both video and snapshots) to a USB flash drive.

















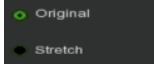
3.13.1 USING THE SEARCH FUNCTION


Click on the  **Search** button in the Start menu to access the search section.



1. **Search Options:** The system offers various search and playback methods: General, Events, Sub-periods, Smart and Pictures.
2. **Search Date:** Search for a playback by date.
3. **Search Type:** The system offers various types to restrict the search.
4. **Channel Selection:** Select the channels to search and play.
5. **Video Playback Controls:** To control the video playback.



-  Enlarge video playback full screen
-  Rewind, x2, x4, x8 and x16 (clicking repeatedly on the button)
-  Slow motion playback, 1/2, 1/4 and 1/8 speed, 1/16 speed (by repeatedly clicking the button)
-  Play
-  Pause
-  Play one frame at a time. Click once to play a frame of the video
-  Stop
-  Fast forward, x2, x4, x8 and x16 (clicking repeatedly on the button)
-  Digital Zoom: Click to zoom out, then click and scroll through a camera image during playback to zoom out on the selected area. Right-click to go back to normal playback.
-  Video Clip. Quickly save part of the video to a USB flash drive. For more information, see 3.13.2.1 Video Clip Backup
-  Save Video Clip.
-  Volume Control: Slide the slider bar to increase or decrease the volume.
-  Snapshot: Capture a snapshot image on the USB flash drive. If video playback is in split-screen mode, move the mouse cursor to the channel to be captured, then click on the icon  to save the snapshot.
-  Default Tag/ Add Customized Tag: for more details, see the section "**Errore. L'origine riferimento non è stata trovata. - Errore. L'origine riferimento non è stata trovata.**"
-  You can choose between the original and the stretched image format 

6. Timeline: Continuous recordings are displayed with coloured bars to represent the different types of recordings (see the key at the bottom right of the screen). Use the Timeframe options () to display a shorter or longer period.

The various types of recordings appear in different colours:

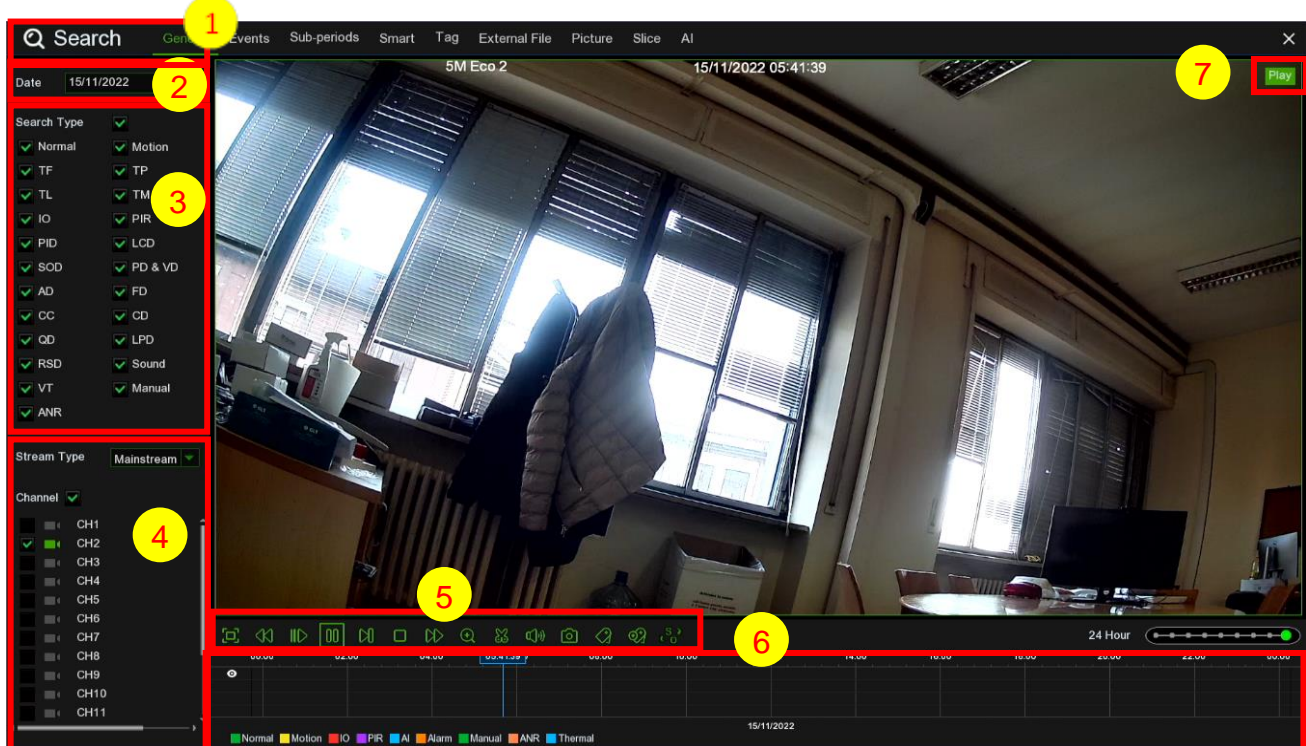





- Continuous recording is **green**.
- Motion recording is **yellow**.
- I/O recording is **red**.
- PIR recording is **purple**.
- Intelligent recording is **blue**.
- Alarm recording is **orange**
- Manual recording is **green**.
- ANR recording is **rose**
- Thermal reconrding is **azure**

7. **Playback Status:** Displays the video playback status.

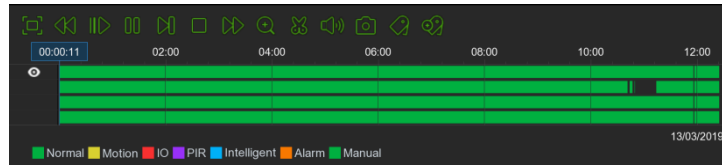
3.13.2 SEARCH & PLAY VIDEO IN GENERAL

This menu can be used to search and play back recordings based on the selected date.

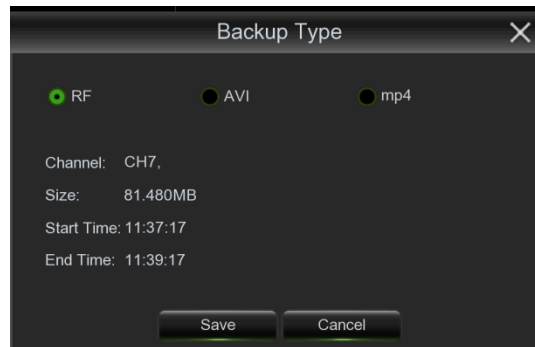


1. Select a date from the calendar to search for video recordings.
2. Select a search type.
3. Check the channels to be searched or check **Channel** to search for all connected channels.
4. The search result will be displayed on the timeline from 00:00 to 24:00.
5. Click on the button  to start playback.
6. Control playback with **Video Playback Controls**.
7. Use the Timeframe options () to display a shorter or longer period.
8. To quickly save a portion of the video to a USB flash drive during playback, use the  **Video Clip** backup function.

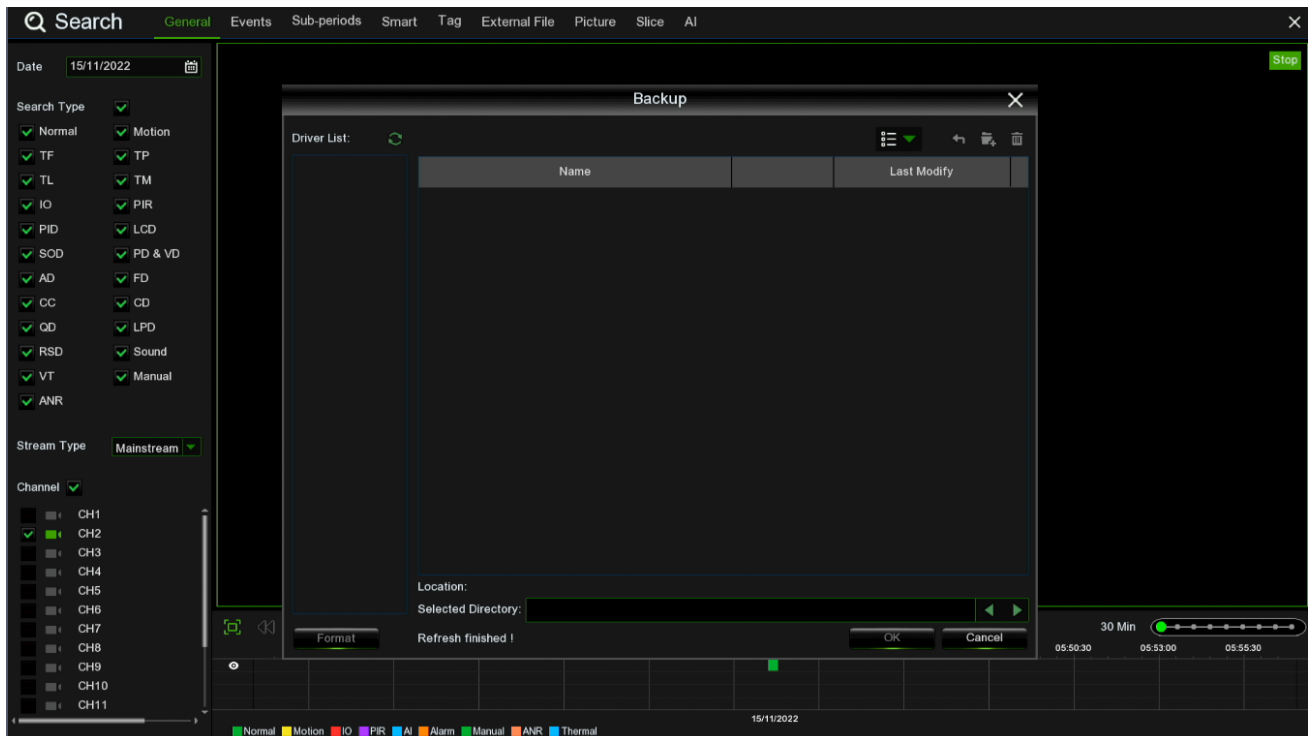
3.13.2.1 Video Clip Backup



1. Insert the USB flash drive or USB DVD Writer USB drive into the NVR.
2. Start playback of a video recording.
3. Click on the icon
4. Check the channel(s) you want to back up video clips.
5. Move the mouse cursor to the timeline at the start point of the video clip.
6. Hold down the left mouse button and drag the cursor over the timeline to the end point of the video clip.
7. The icon turns into the icon , click on to save the video clip.
8. Select a file type for backup and click the Save button to save the video clips. Check that the USB flash drive has enough space to save video clips.

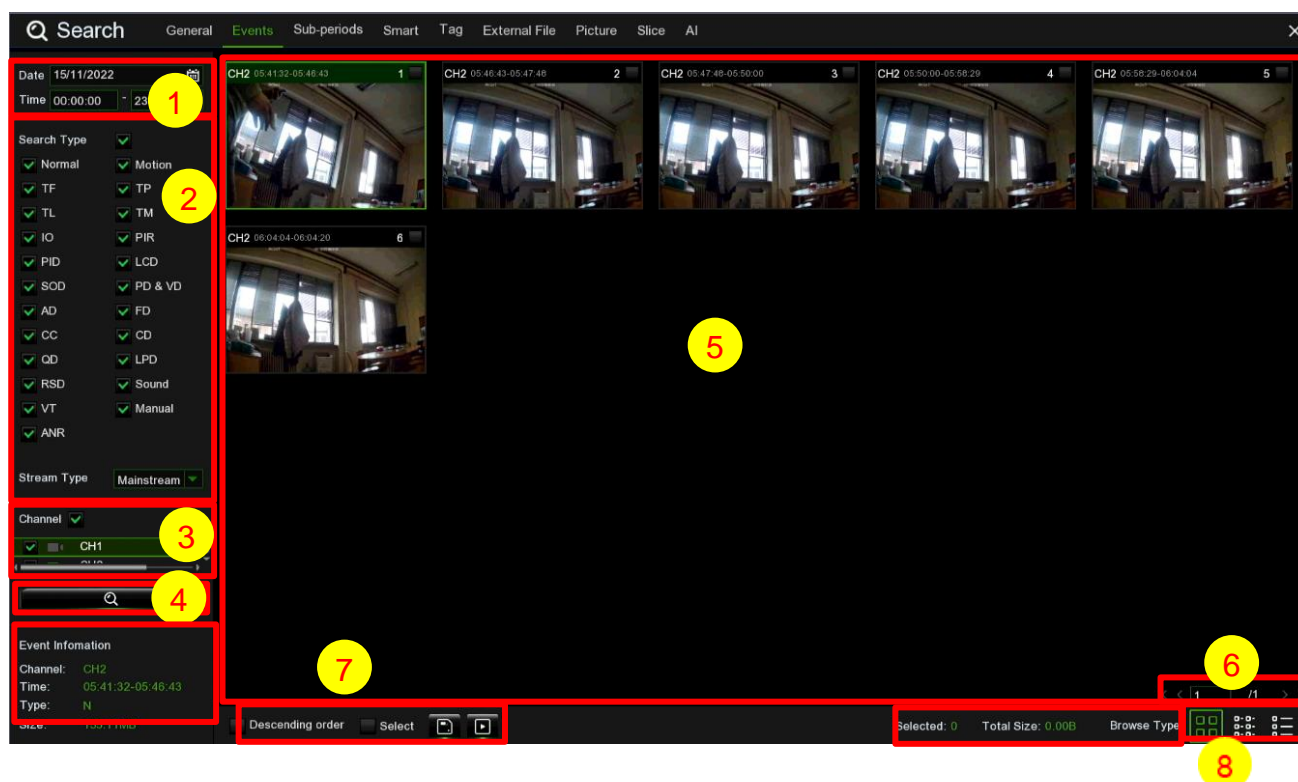


9. The backup drive menu appears. Go to the folder where you want to save the backup files.
10. Click on OK to start. The progress bar on the bottom of the window shows the status of backup operation.



3.13.3 EVENT SEARCH, PLAYBACK & BACKUP

The event search can be used to view a list of video recordings, with the channel, start/end time and type of recording appropriately summarized. You can also quickly save events to a USB flash drive.



Search, playback and backup of events:

1. Select the date and time to search.
2. Check the types of recordings to be searched for or check **Search Type** to select all of them.
3. Select the channels to search or check **Channel** to select all channels.
4. Click on the icon to start the search.
5. The events which match the search criteria are displayed as a list. Double-left-click on one of the events to play the video immediately.
6. Click on the icons at the bottom right of the menu to browse the event pages or
7. to enter the page you wish to consult.
8. You can change the display of the list by clicking the icons below, which are visible at the bottom left of the screen:

Thumbnails view. You can view snapshots of the events.

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

1 CH12 11:37:14	2 IP CH1 11:37:19	3 IP CH2 11:37:19	4 CH7 11:37:22	5 CH12 11:37:22	6 CH7 11:37:27	7 CH10 11:37:27	8 CH10 11:37:27
9 CH12 11:37:27	10 IP CH1 11:37:27	11 IP CH2 11:37:27	12 IP CH2 11:37:29	13 CH10 11:37:50	14 CH7 11:38:32	15 CH7 11:39:19	16 CH7 11:40:01
17 CH7 11:40:33	18 IP CH1 11:41:23	19 CH7 11:42:47	20 CH7 11:42:54	21 CH12 11:43:13	22 CH10 11:43:27	23 CH7 11:43:33	24 CH7 11:44:50
25 CH7 11:45:50	26 IP CH2 11:45:52	27 CH7 11:47:28	28 IP CH1 11:48:06	29 CH7 11:48:07	30 CH7 11:48:38	31 CH12 11:48:50	32 CH7 11:49:00
33 CH10 11:49:04	34 CH7 11:49:28	35 CH7 11:50:04	36 CH7 11:52:33	37 CH7 11:53:04	38 CH7 11:54:08	39 IP CH2 11:54:08	40 CH12 11:54:27
41 CH10 11:54:41	42 IP CH1 11:54:49	43 CH7 11:55:16	44 CH7 11:55:49	45 CH7 11:56:34	46 CH7 11:57:06	47 CH7 11:58:46	48 CH7 11:59:16
49 CH7 11:59:36	50 CH7 12:00:00	51 CH10 12:00:00	52 CH12 12:00:00	53 IP CH2 12:00:00	54 IP CH1 12:00:01	55 CH12 12:00:03	56 CH10 12:00:17
57 IP CH1 12:01:30	58 CH7 12:02:08	59 IP CH2 12:02:24	60 CH7 12:03:05	61 CH7 12:04:04	62 CH7 12:04:28	63 CH7 12:04:58	64 CH7 12:05:27
65 CH12 12:05:40	66 CH10 12:05:54	67 CH7 12:07:02	68 CH7 12:07:33	69 CH7 12:08:09	70 IP CH1 12:08:11	71 CH7 12:08:46	72 CH7 12:09:28
73 CH7 12:10:35	74 IP CH2 12:10:40	75 CH12 12:11:17	76 CH7 12:11:23	77 CH10 12:11:31	78 CH7 12:12:15	79 CH7 12:13:19	80 CH7 12:14:03
81 CH7 12:14:34	82 CH7 12:14:39	83 IP CH1 12:14:54	84 CH7 12:16:19	85 CH12 12:16:54	86 CH10 12:17:08	87 CH7 12:17:51	88 CH7 12:18:43
89 IP CH2 12:18:56	90 CH7 12:19:14	91 CH7 12:19:42	92 CH7 12:20:17	93 CH7 12:20:48	94 IP CH1 12:21:37	95 CH7 12:22:16	96 CH12 12:22:31
97 CH10 12:22:44	98 CH7 12:22:50	99 CH7 12:24:55	100 CH7 12:26:56	101 IP CH2 12:27:13	102 CH7 12:27:27	103 CH7 12:28:08	104 CH12 12:28:08
105 IP CH1 12:28:18	106 CH10 12:28:21	107 CH7 12:30:14	108 CH7 12:31:47	109 CH7 12:32:20	110 CH7 12:33:15	111 CH12 12:33:45	112 CH7 12:33:55
113 CH10 12:33:58	114 CH7 12:34:28	115 IP CH1 12:35:00	116 CH7 12:35:20	117 CH7 12:35:22	118 IP CH2 12:35:29	119 CH7 12:35:52	120 CH7 12:36:54
121 CH7 12:37:24	122 CH7 12:38:18	123 CH12 12:39:22	124 CH10 12:39:35	125 CH7 12:40:29	126 IP CH1 12:41:42	127 CH7 12:43:08	128 CH7 12:43:40
129 IP CH2 12:43:45	130 CH12 12:44:59	131 CH10 12:45:12	132 CH7 12:45:54	133 CH7 12:45:56	134 CH7 12:47:35	135 CH7 12:48:09	136 IP CH1 12:48:24
137 CH7 12:48:56	138 CH12 12:50:36	139 CH10 12:50:49	140 CH7 12:51:08	141 CH7 12:51:29	142 IP CH2 12:52:01	143 CH7 12:52:13	144 IP CH1 12:55:06
145 CH7 12:55:15	146 CH7 12:55:57	147 CH12 12:56:13	148 CH7 12:56:21	149 CH10 12:56:26	150 CH7 12:56:38	151 CH7 12:57:32	152 CH7 12:58:45
153 CH7 12:59:16	154 CH7 12:59:47	155 CH7 13:00:00	156 CH10 13:00:00	157 CH12 13:00:00	158 IP CH1 13:00:01	159 IP CH2 13:00:01	160 IP CH2 13:00:17
161 CH7 13:00:45	162 CH7 13:01:22	163 IP CH1 13:01:47	164 CH12 13:01:48	165 CH10 13:02:02	166 CH7 13:02:45	167 CH7 13:03:17	168 CH7 13:04:11
169 CH7 13:04:49	170 CH7 13:05:46	171 CH7 13:06:27	172 CH7 13:06:35	173 CH12 13:07:25	174 CH7 13:07:30	175 CH10 13:07:39	176 IP CH1 13:08:29
177 IP CH2 13:08:33	178 CH7 13:09:08	179 CH7 13:09:53	180 CH7 13:10:26	181 CH7 13:11:34	182 CH7 13:11:43	183 CH7 13:12:15	184 CH7 13:12:48
185 CH12 13:13:01	186 CH10 13:13:16	187 CH7 13:13:49	188 IP CH1 13:15:10	189 CH7 13:16:47	190 IP CH2 13:16:49	191 CH7 13:17:21	192 CH7 13:18:19
193 CH12 13:18:38	194 CH10 13:18:53	195 CH7 13:19:10	196 CH7 13:20:13	197 CH7 13:20:45	198 CH7 13:21:24	199 CH7 13:21:48	200 IP CH1 13:21:52
201 CH7 13:22:28	202 CH7 13:23:02	203 CH7 13:23:50	204 CH12 13:24:15	205 CH7 13:24:26	206 CH10 13:24:30	207 IP CH2 13:25:05	208 CH7 13:26:39
209 CH7 13:26:56	210 CH7 13:27:49	211 IP CH1 13:28:35	212 CH7 13:29:21	213 CH12 13:29:52	214 CH10 13:30:07	215 CH7 13:30:26	216 CH7 13:31:33
217 CH7 13:32:09	218 IP CH2 13:33:21	219 CH7 13:34:48	220 IP CH1 13:35:16	221 CH7 13:35:26	222 CH12 13:35:29	223 CH10 13:35:44	224 CH7 13:36:14
225 CH7 13:36:56	226 CH7 13:37:22	227 CH7 13:37:28	228 CH7 13:38:21	229 CH7 13:39:28	230 CH7 13:39:59	231 CH12 13:41:06	232 CH10 13:41:21
233 IP CH2 13:41:37	234 CH7 13:41:57	235 IP CH1 13:41:57	236 CH7 13:42:28	237 CH7 13:42:29	238 CH7 13:43:26	239 CH7 13:43:57	240 CH7 13:44:40



Detailed view: This can be used to view the details of the events.

	Channel	Type	Date	Start Time	End Time	Size	Playback	Lock
1	CH12	N	20/03/2019	11:37:14	11:37:28	10MB		
2	IP CH1	N	20/03/2019	11:37:19	11:37:29	7MB		
3	IP CH2	N	20/03/2019	11:37:19	11:37:27	5MB		
4	CH7	SN	20/03/2019	11:37:22	11:37:28	4MB		
5	CH12	N	20/03/2019	11:37:22	11:37:28	4MB		
6	CH7	SN	20/03/2019	11:37:27	11:38:37	44MB		
7	CH10	N	20/03/2019	11:37:27	11:37:50	8MB		
8	CH10	N	20/03/2019	11:37:27	11:37:28	1MB		
9	CH12	N	20/03/2019	11:37:27	11:43:13	248MB		
10	IP CH1	N	20/03/2019	11:37:27	11:41:23	142MB		
11	IP CH2	N	20/03/2019	11:37:27	11:37:29	2MB		
12	IP CH2	N	20/03/2019	11:37:29	11:45:52	251MB		
13	CH10	N	20/03/2019	11:37:50	11:43:27	253MB		
14	CH7	SN	20/03/2019	11:38:32	11:39:23	37MB		
15	CH7	N	20/03/2019	11:39:19	11:40:05	30MB		
16	CH7	SN	20/03/2019	11:40:01	11:40:38	23MB		
17	CH7	N	20/03/2019	11:40:33	11:42:47	76MB		
18	IP CH1	N	20/03/2019	11:41:23	11:48:06	253MB		
19	CH7	N	20/03/2019	11:42:47	11:42:59	7MB		
20	CH7	SN	20/03/2019	11:42:54	11:43:38	26MB		
21	CH12	N	20/03/2019	11:43:13	11:48:50	253MB		
22	CH10	N	20/03/2019	11:43:27	11:49:04	253MB		
23	CH7	SN	20/03/2019	11:43:33	11:44:56	52MB		
24	CH7	SN	20/03/2019	11:44:50	11:45:55	38MB		
25	CH7	SN	20/03/2019	11:45:50	11:47:33	59MB		
26	IP CH2	N	20/03/2019	11:45:52	11:54:08	253MB		
27	CH7	N	20/03/2019	11:47:28	11:48:12	25MB		
28	IP CH1	N	20/03/2019	11:48:06	11:54:49	253MB		
29	CH7	SN	20/03/2019	11:48:07	11:48:43	27MB		
30	CH7	N	20/03/2019	11:48:38	11:49:00	17MB		


In the latter mode, you can block video events so that they are not overwritten on the hard disk. Click on the icon to block events or on the to unblock them.

- Left-click on one of the events to display the respective information in bottom left.
- Check the box next to the event number to select the files or check the box next to **Select** to select all events on the page.
- The number of selected files and their overall size will be displayed at the bottom right.
- After selecting a file, click on the icon to save the video to a USB flash drive or USB DVD Writer. Alternatively, click on the icon in the event playback control window to play the video.

3.13.3.1 Event Playback Control

The screenshot displays the 'Event Playback Control' window. On the left, there is a list of events with columns for Channel, Type, and Start Time. Below this list, the 'Selected' count and 'Total Size' are shown. The main area is a video playback window showing a room with a window and a desk. At the bottom, there are playback controls including a timeline, play/pause buttons, and a volume slider. Numbered callouts are placed over the interface: 1 is over the event list, 2 is over the save icon, 3 is over the playback controls, 4 is over the timeline, and 5 is over the play button.

1. Event list: The events can be selected here.
2. Click on the icon to save the video of the selected events to a USB flash drive or USB DVD Writer. Click on the icon to play the video.
3. Control playback using the Video Playback Controls buttons. Click on the or right-click to exit playback and go back to the event search window.


4. The event being played will now be displayed on the timeline.
5. Use the Timeframe options () to display a shorter or longer period.

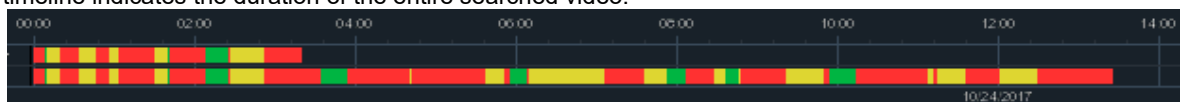
3.13.4 SUB-PERIODS PLAYBACK

Sub-period playback allows you to play back multiple normal and motion event recordings from a single channel simultaneously. With normal and event recordings, the video is split evenly, depending on the split-screen mode selected. For example, if the video lasts one hour and split-screens x 4 mode has been selected, each split-screen will play for 15 minutes.



Search and play video in subperiods:

1. Select the date and time to search.
2. Select the split screens into which you want to split the video playback.
3. Check the types of recordings to be searched for or check **Search Type** to select all of them.
4. Select the channels to search. Note that this function only supports searching and playing one channel at a time.
5. Click on Play button  to start playback. Control playback with **Video Playback Controls**.
6. Videos are displayed in split-screen displays.
7. Left-click on a specific split-screen: the time period of the video split-screen will be displayed on the timeline. The coloured bar above the timeline indicates the duration of the video split-screen you clicked on. The coloured bar below the timeline indicates the duration of the entire searched video.




8. Use the Timeframe options () to display a shorter or longer period.

3.13.5 SMART

Sub-period playback allows you to play back multiple normal and motion event recordings from a single channel simultaneously. With normal and event recordings, the video is split evenly, depending on the split-screen mode selected. For example, if the video lasts one hour and split-screens x 4 mode has been selected, each split-screen will play for 15 minutes.



Search and play video in Smart mode:

1. Select the date and time to search.
2. Select the split screens into which you want to split the video playback.
3. Check the types of recordings to be searched for or check **Search Type** to select all of them.
4. Select the channels to search. Note that this function only supports searching and playing one channel at a time.
5. Click the **Play** button  to start playback. Control playback using the **Video Playback Controls** buttons.
6. Videos are displayed in split-screen displays.
7. Left-click on a specific split-screen: the time period of the video split-screen will be displayed on the timeline. The coloured bar over the timeline indicates the duration of the entire searched video. The coloured bar below the timeline indicates the duration of the entire searched video.



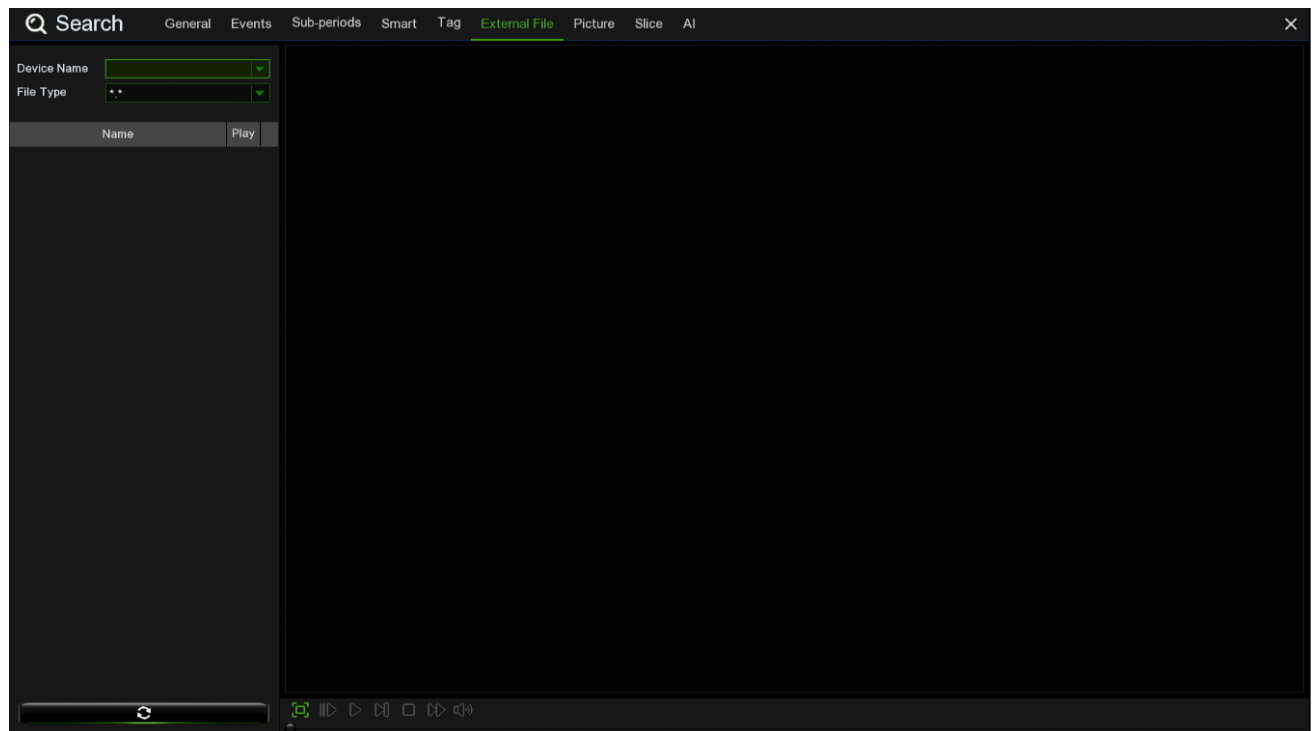
8. Use the Timeframe options () to display a shorter or longer period.

3.13.6 TAG

For more information, see section “Tag Setup”

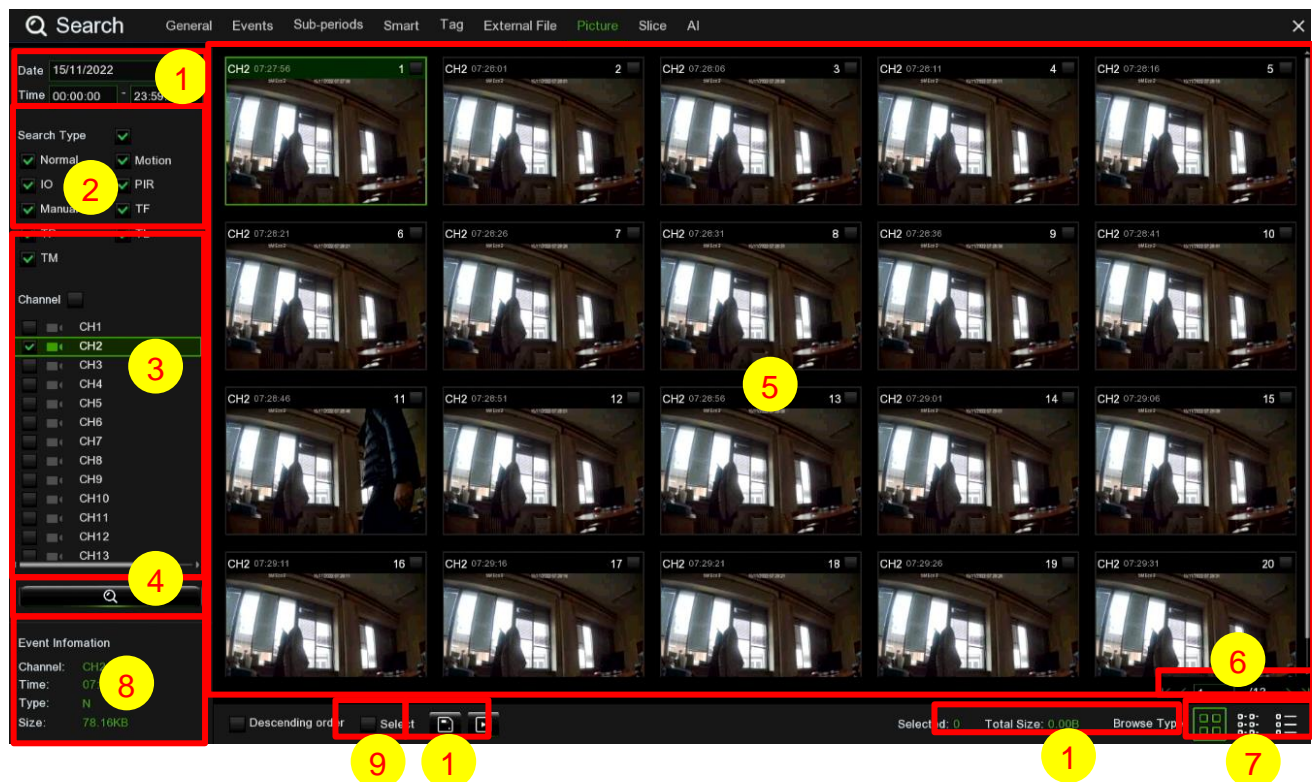
3.13.7 EXTERNAL FILE

This function can be used to search and play back external files on a USB flash drive or USB DVD Writer.







3.13.8 PICTURE SEARCH & VIEW

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


































Search, playback and backup of images:


1. Select the date and time to search.
2. Check the types of images to be searched for or check Search Type to select all of them.
3. Select the channels to search or check **Channel** to select all channels.


- Click on the button  to start the search.
- The images which match the search criteria are displayed as a list. You can click on one of the images to enlarge it.
- Click on the icons  at the bottom right of the menu to browse the image pages or to enter the page you wish to consult.
- You can change the display of the list by clicking the icons below, which are visible at the bottom left of the screen:
 -  Thumbnails view. You can view snapshots of the events.
 -  List view. The events will be displayed in a list.

1	CH7	16:24:03	2	CH7	16:24:03	3	CH7	16:24:23	4	CH7	16:24:23	5	CH7	16:24:23	6	CH7	16:24:23	7	CH7	16:24:23	8	CH12	16:24:50
9	CH12	16:24:50	10	CH12	16:24:50	11	CH12	16:24:50	12	CH12	16:24:50	13	CH12	16:24:50	14	CH12	16:24:50	15	CH12	16:24:50	16	CH12	16:24:50
17	IP CH1	16:24:54	18	IP CH1	16:24:54	19	IP CH1	16:24:54	20	IP CH1	16:24:54	21	IP CH1	16:24:54	22	IP CH1	16:24:54	23	IP CH1	16:24:54	24	IP CH1	16:24:54
25	IP CH1	16:24:54	26	IP CH1	16:24:54	27	IP CH1	16:24:54	28	IP CH1	16:24:54	29	IP CH1	16:24:54	30	IP CH2	16:24:54	31	IP CH2	16:24:54	32	IP CH2	16:24:54
33	IP CH2	16:24:54	34	IP CH2	16:24:54	35	IP CH2	16:24:54	36	IP CH1	16:24:56	37	IP CH2	16:24:57	38	IP CH2	16:24:57	39	IP CH2	16:24:57	40	IP CH2	16:24:57
41	IP CH2	16:24:57	42	IP CH2	16:24:57	43	CH10	16:25:01	44	CH10	16:25:01	45	CH10	16:25:01	46	CH10	16:25:01	47	CH10	16:25:01	48	CH10	16:25:01
49	CH10	16:25:01	50	CH10	16:25:01	51	CH10	16:25:01	52	CH10	16:25:01	53	CH10	16:25:03	54	CH10	16:25:03	55	CH10	16:25:03	56	CH12	16:25:06
57	CH12	16:25:06	58	CH12	16:25:06	59	CH12	16:25:06	60	CH7	16:25:07	61	CH7	16:25:07	62	CH7	16:25:07	63	CH7	16:25:07	64	CH7	16:25:07
65	CH7	16:25:07	66	IP CH1	16:25:10	67	IP CH1	16:25:10	68	IP CH1	16:25:10	69	IP CH1	16:25:10	70	IP CH1	16:25:10	71	IP CH1	16:25:10	72	IP CH1	16:25:12

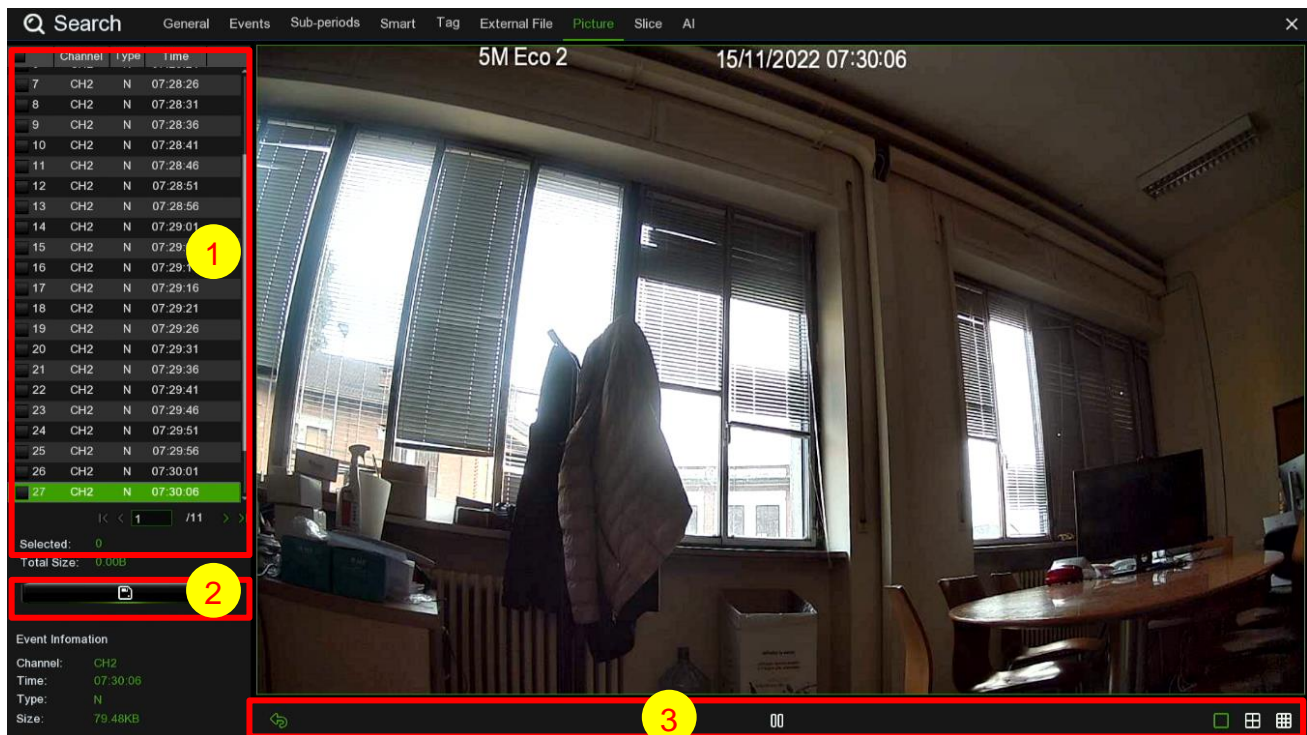
-  Detailed view. You can view the details of the events.










	Channel	Type	Date	Time	Size	Playback
1	CH7	C	20/03/2019	16:24:03	199KB	
2	CH7	C	20/03/2019	16:24:03	199KB	
3	CH7	C	20/03/2019	16:24:23	197KB	
4	CH7	C	20/03/2019	16:24:23	197KB	
5	CH7	C	20/03/2019	16:24:23	197KB	
6	CH7	C	20/03/2019	16:24:23	197KB	
7	CH7	C	20/03/2019	16:24:23	197KB	
8	CH12	C	20/03/2019	16:24:50	102KB	
9	CH12	C	20/03/2019	16:24:50	102KB	
10	CH12	C	20/03/2019	16:24:50	102KB	
11	CH12	C	20/03/2019	16:24:50	102KB	
12	CH12	C	20/03/2019	16:24:50	102KB	
13	CH12	C	20/03/2019	16:24:50	102KB	
14	CH12	C	20/03/2019	16:24:50	102KB	
15	CH12	C	20/03/2019	16:24:50	102KB	
16	CH12	C	20/03/2019	16:24:50	102KB	
17	IP CH1	C	20/03/2019	16:24:54	37KB	
18	IP CH1	C	20/03/2019	16:24:54	37KB	
19	IP CH1	C	20/03/2019	16:24:54	37KB	
20	IP CH1	C	20/03/2019	16:24:54	37KB	
21	IP CH1	C	20/03/2019	16:24:54	37KB	
22	IP CH1	C	20/03/2019	16:24:54	37KB	
23	IP CH1	C	20/03/2019	16:24:54	37KB	
24	IP CH1	C	20/03/2019	16:24:54	37KB	
25	IP CH1	C	20/03/2019	16:24:54	37KB	
26	IP CH1	C	20/03/2019	16:24:54	37KB	
27	IP CH1	C	20/03/2019	16:24:54	37KB	
28	IP CH1	C	20/03/2019	16:24:54	37KB	
29	IP CH1	C	20/03/2019	16:24:54	37KB	
30	IP CH2	C	20/03/2019	16:24:54	64KB	

- Left-click on one of the images to display the respective information at the bottom left.
- Check the box next to the image number to select the files or check the box next to **Select** to select all images on the page.
- The number of selected files and their overall size will be displayed at the bottom right.
- After selecting the file, click on the button  to save the images on the USB flash drive.

Alternatively, click on the button  to access the image preview control window.

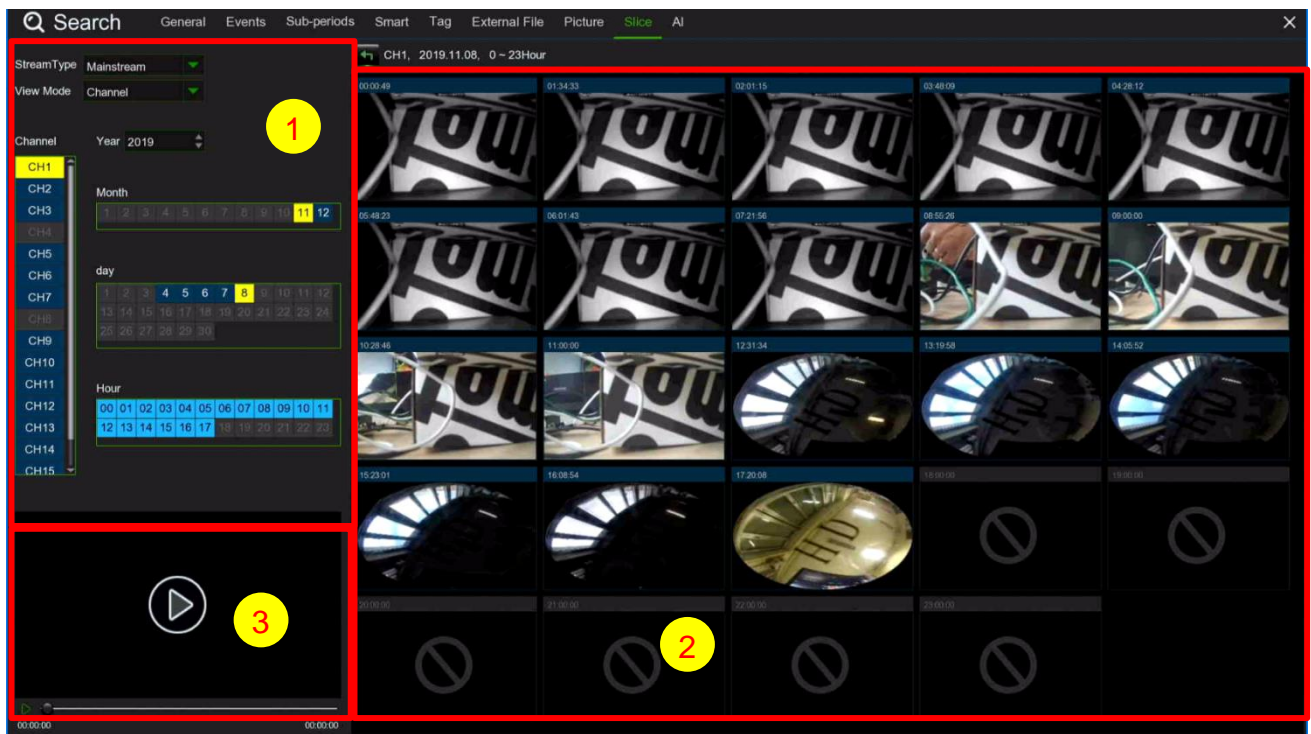
3.13.8.1 Picture Preview Control



1. Image list: The images can be selected here.
2. Click on the button  to save the selected images to a USB flash drive or CD/DVD media. Click on the button  to see the images in a slideshow.
3. Press the button  to exit the preview control window and return to the image search window.
4. Press the button  to pause; press  to resume the slideshow.
5. Press the button  to view a previous snapshot or group of snapshots; press  to view the next snapshot or group of snapshots.
6. Click on the button  to display only one snapshot at a time; click on the button  to display four snapshots at a time.

3.13.9 SLICE

This function can be used to search, play back and copy video by choosing the video duration of the day of shooting, time of shooting.

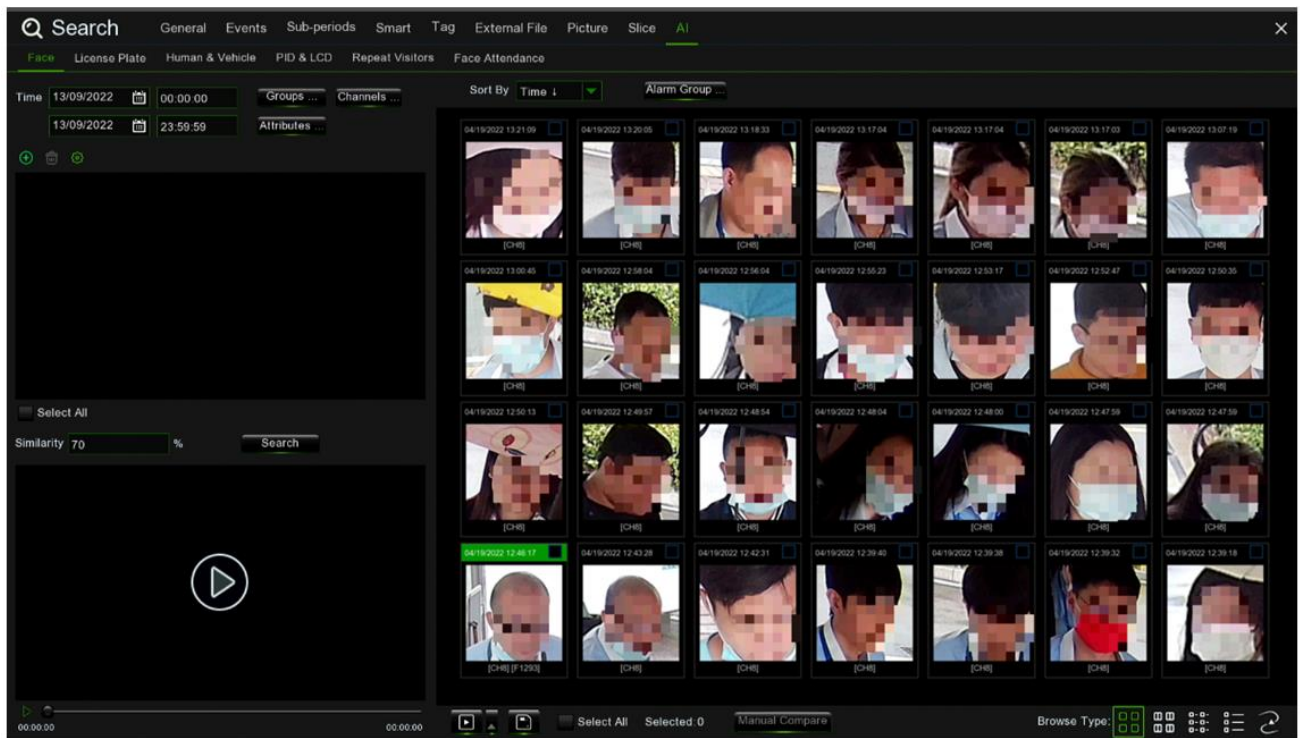


1. Select the channel to search among the active ones, select the Month, Day, Year.
2. The videos which match the search criteria are displayed as a list. You can click on one of the images to enlarge it.
3. Video playback area.

3.13.10 AI

This section allows you to search, play and copy video by making your choice based on the desired intelligent analysis function (Faces/Targets/People&Vehicles/PID&LCD/Repeat Viewers/Face Attendance).

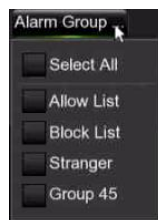
3.13.10.1 Face




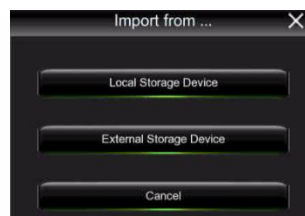
1. Select the channel to search among the active ones




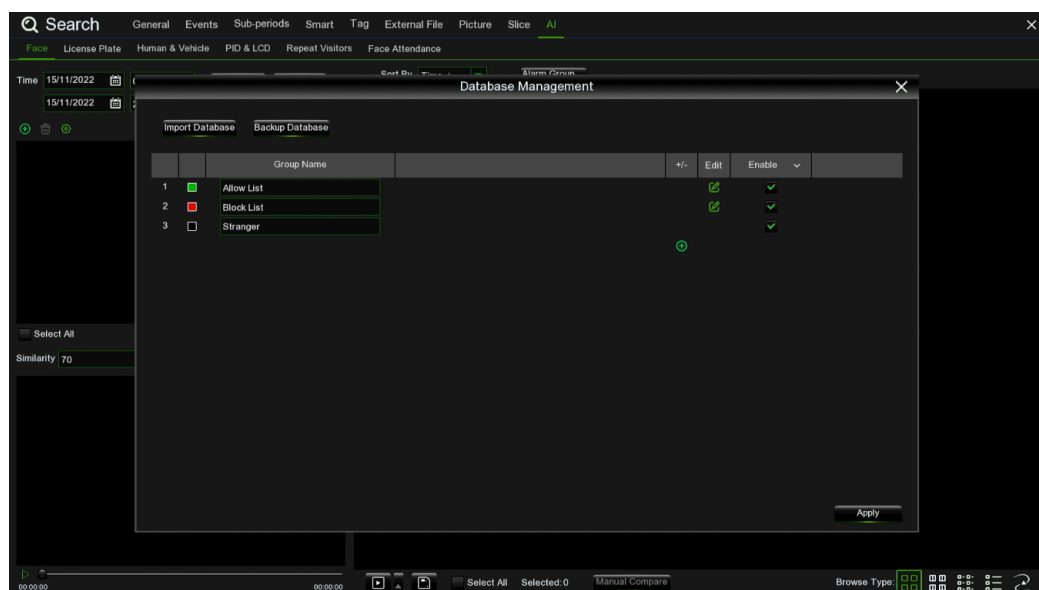
Select the **Alarm Group** lists (**Group Name**) among those defined on the system:



Click on  and select the Local Storage Device or External Storage Device. Click Local Storage Device to select a face image. Then select OK:



Select  to access the menu:




- Area in which the videos which match the search and recognition criteria set are shown.
- Playback area of the selected video.


4. Select one of the pictures in area 2 and select the search criteria in area 1 to obtain the videos of people with a face similar to the one set.

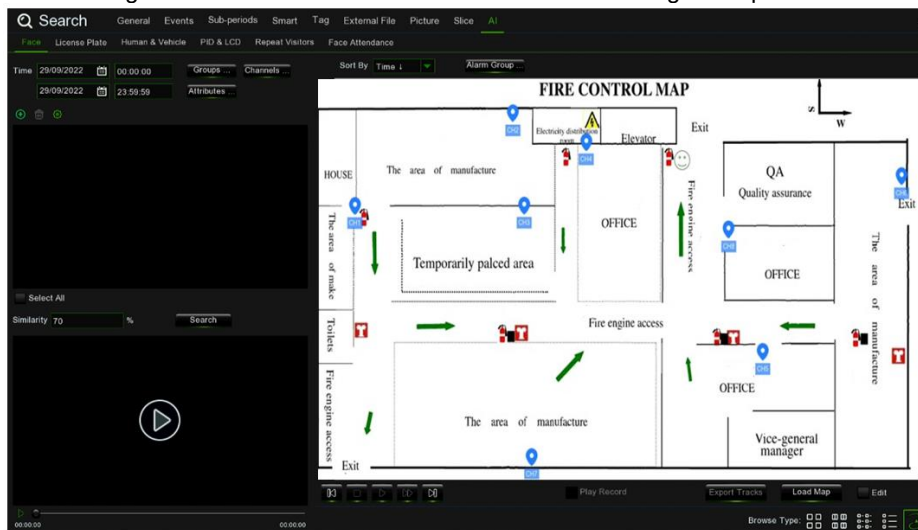
5. Tracking the movements of selected persons

By selecting the image and the channel you can see on the map the movements and videos related to the selection.

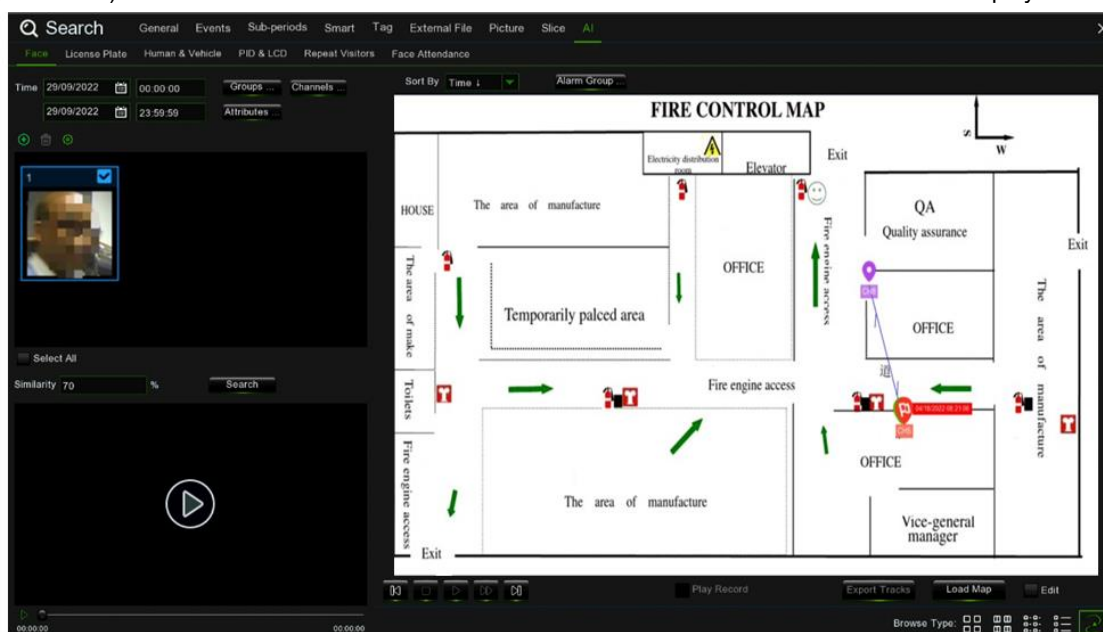
Select  to select one or more channels on the map on which the Face Recognition function is configured and see the movements made relative to the selected image.

Tracks


Press  in the bottom right-hand corner to access the track menu on the digital map.

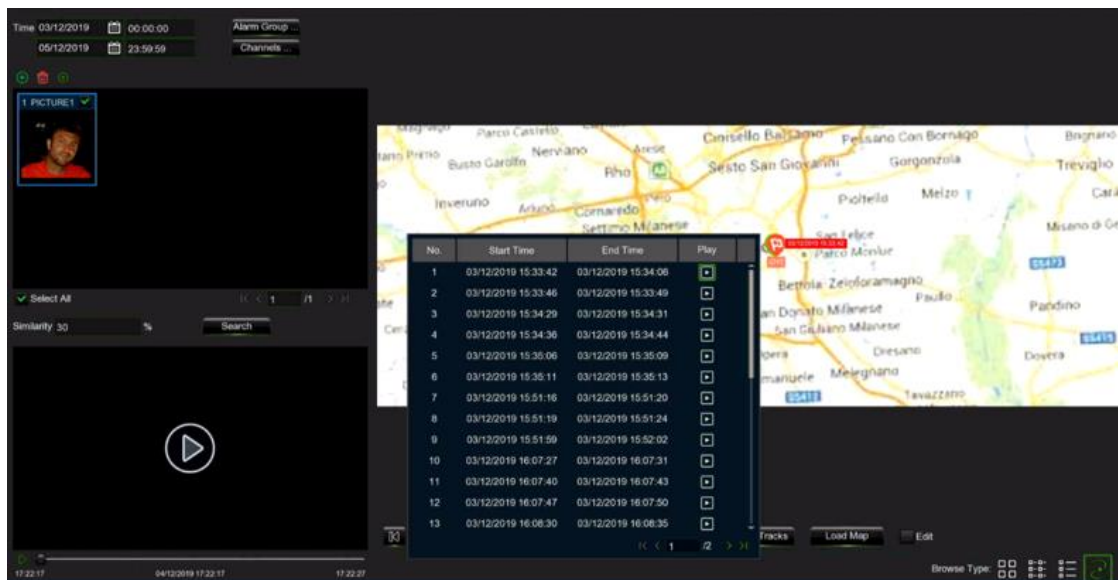
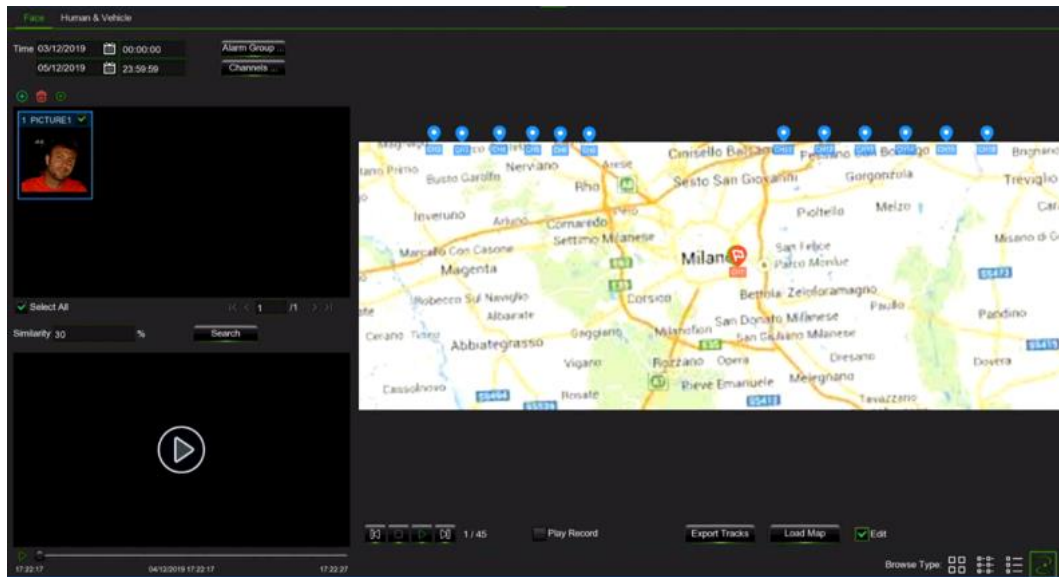


Press on **Load Map** to display the U disk and select the map to be added. Select the **Edit** box to drag the IP camera icon to the desired location. Press on to select the face from the local or U-disk library and press in the search field (only supports searching for a face) to search for the IP camera that has detected the face. A coloured mark will be displayed on the map.



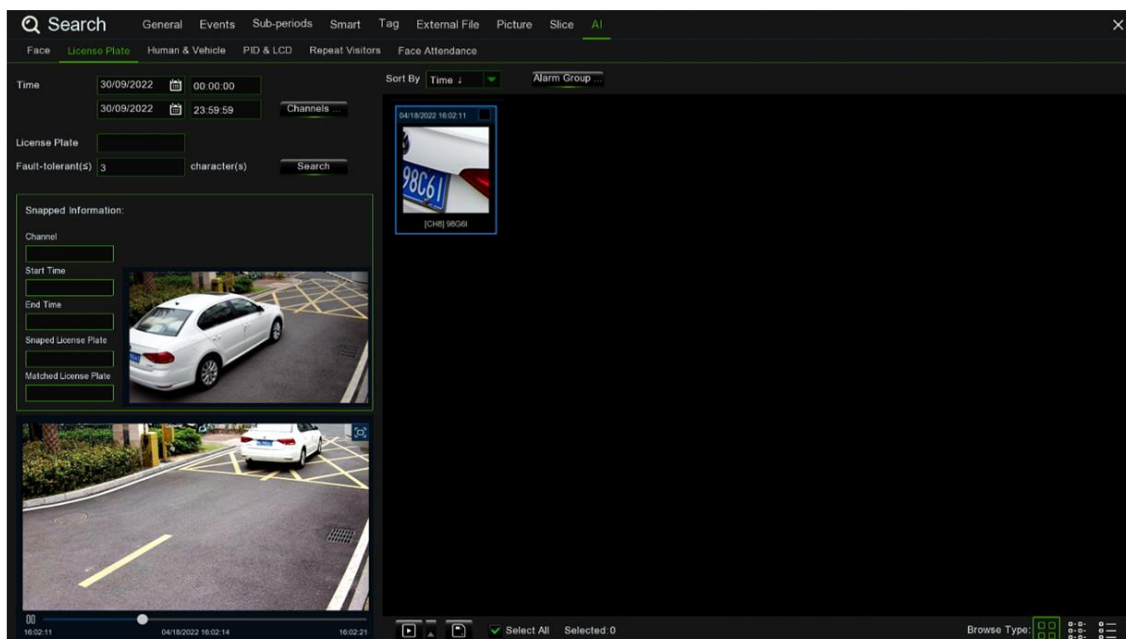
If you press the left button on a camera icon in the bottom right corner, playback will appear. If several cameras detect a face, the playback will automatically follow the movement of the person by introducing an arrow.


By selecting , it is possible to select one or more channels on the map, on which the Face Detection function is configured, and see the movements made relative to the selected image.



3.13.10.2 License Plate

In this section, video details can be viewed and exported once the number plate detection alarm has been activated and the event has been recorded.



Time: Set the time period for querying the number plate detection event. The date can be set by pressing .

License Plate: Filter and query based on licence plate information.

Fault-Tolerant: Set the number of characters sufficient for licence plate detection. The value can be set from 0 to 5.

Info Snapped: Details of the alarm event including the following data:

- **Channel:** Channel selection
- **Start Time:** start time of the event
- **End Time:** End time of the event
- **Snapped License Plate:** The licence plate number captured by the camera through a photo
- **Matched License Plate:** the licence plate number obtained from the database

Sort By: Event videos are sorted by time of day

Channels: licence plate detection events triggered by each channel.

Search: Search based on selected settings.

Alarm Group: Select the different groups in the database to be compared and search the results for display.



This function consists of pressing on the triangle icon in the bottom right corner of the event video when 5s, 10s, 20s, 30s, 1min, 2min, 5min, 10min, custom playback is selected. If 30s is set, the video will be extended by 30 seconds.



Video can be backed up to the U disk, supported video formats are RF, AVI, MP4.



All videos and the selected number of videos are selected.



Press to change pages.



Press to select different types of views.

Choose an event with the right mouse button and two functions can be accessed:

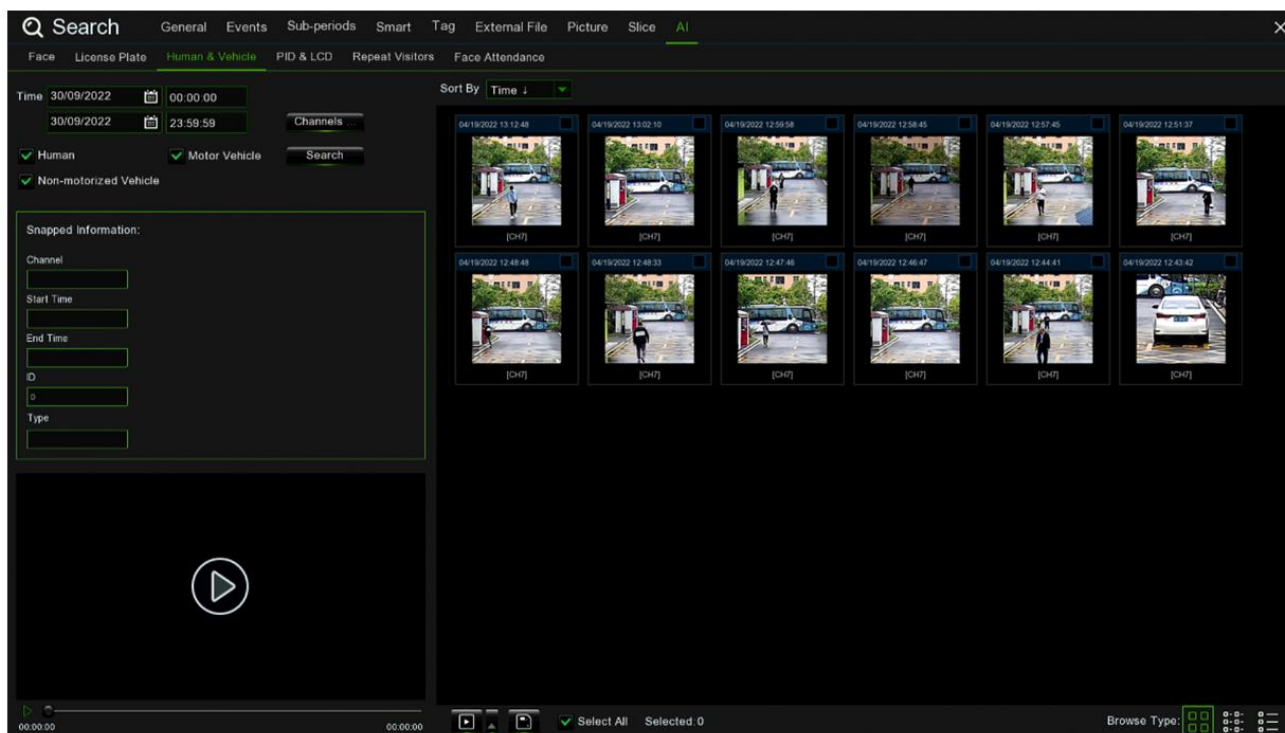
Detail Information: displays the details of the event.



Custom Playback: Press to set the duration of event playback. The maximum limit that can be set is 10 minutes. Press twice or drag in the bottom left corner to play the event video.

3.13.10.3 Human & Vehicle

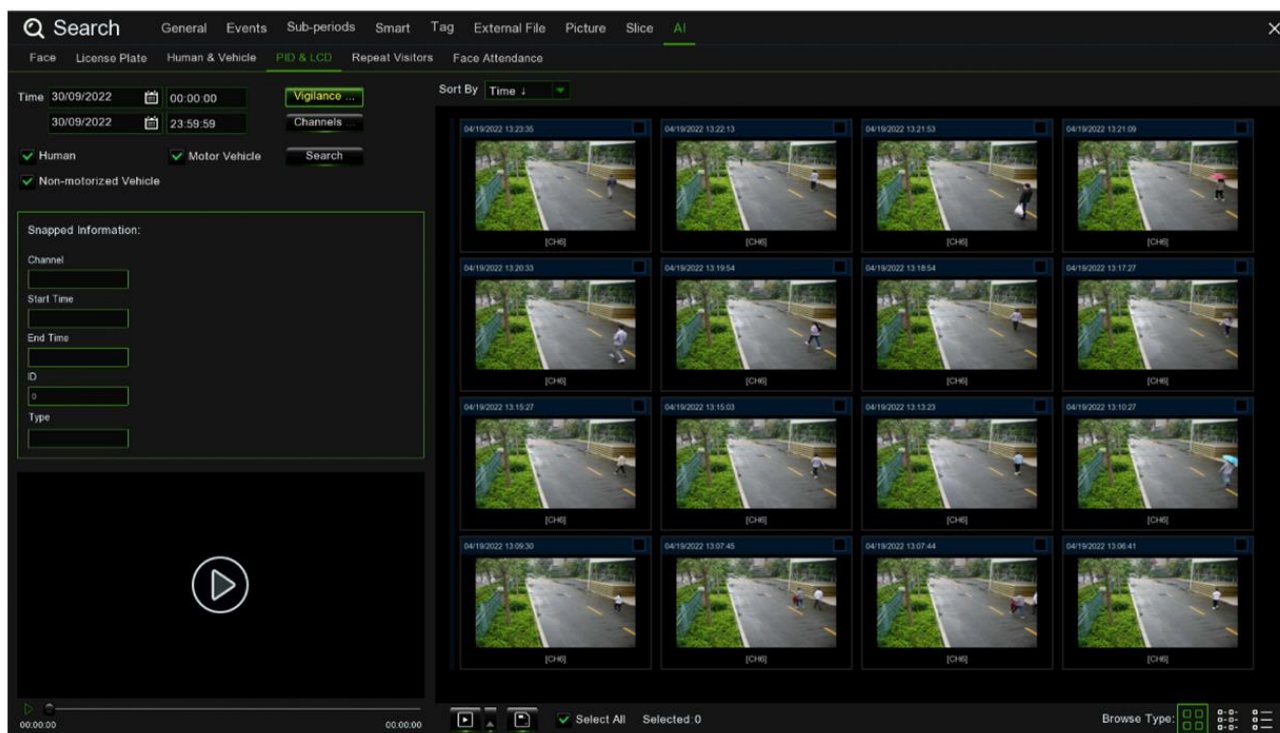
In this section it is possible to search for information on persons and vehicles by setting the date, time, camera and type of detection desired.



Press the left button to get basic information on the left side; press the right button to customise the playback and detail display. Press on the bottom left corner to play; press twice to zoom in and enter normal playback mode.

3.13.10.4 PID & LCD

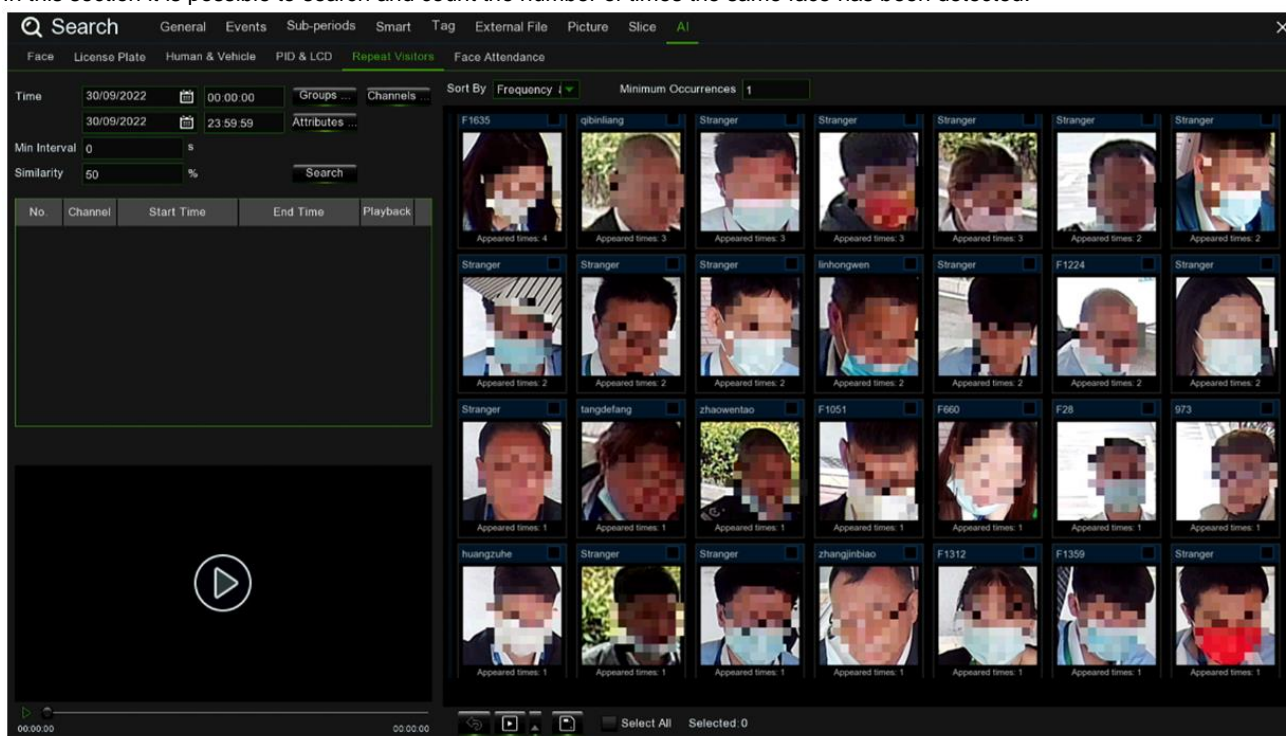
In this section it is possible to search for information on persons and vehicles that have crossed lines or a perimeter by setting the date, time, camera and type of alarm desired.





Pressing with the left button provides basic information on the left side, while pressing with the right button customises the playback and detail display. Press on the bottom left corner to play; press twice to zoom in and enter normal playback mode.

3.13.10.5 Repeat Visitors

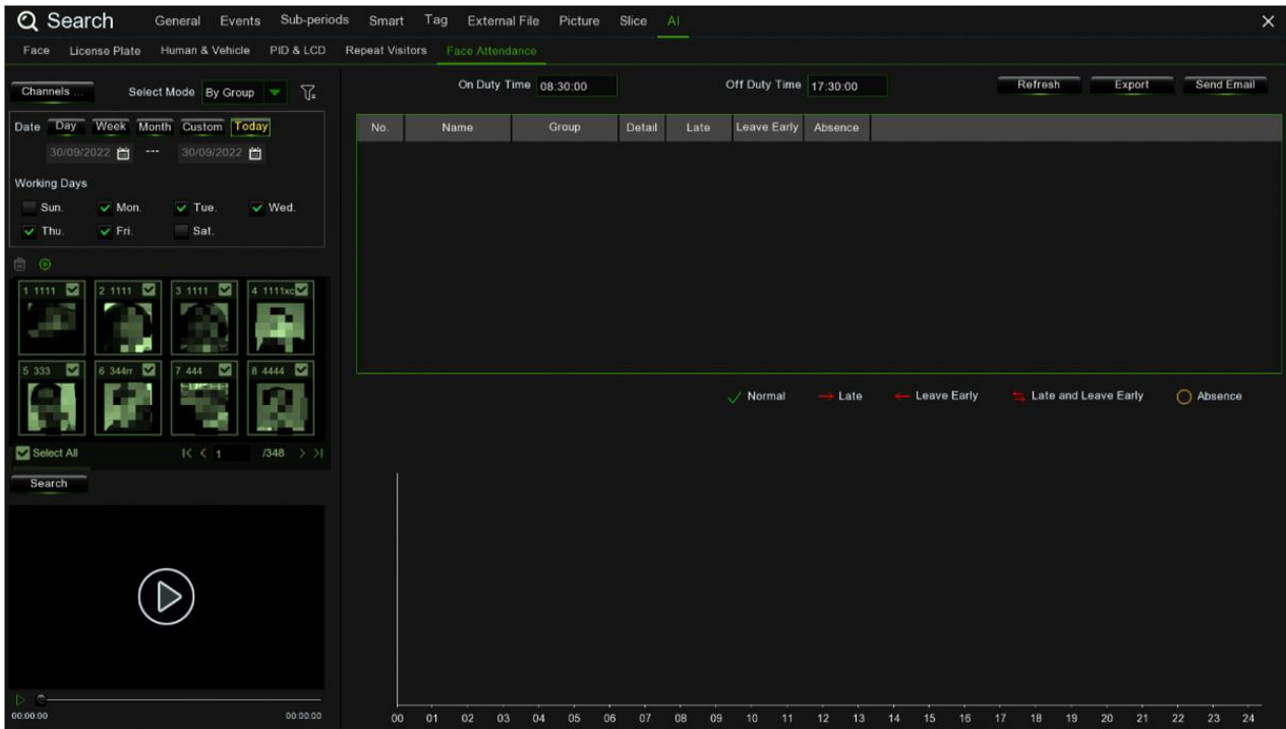
In this section it is possible to search and count the number of times the same face has been detected.



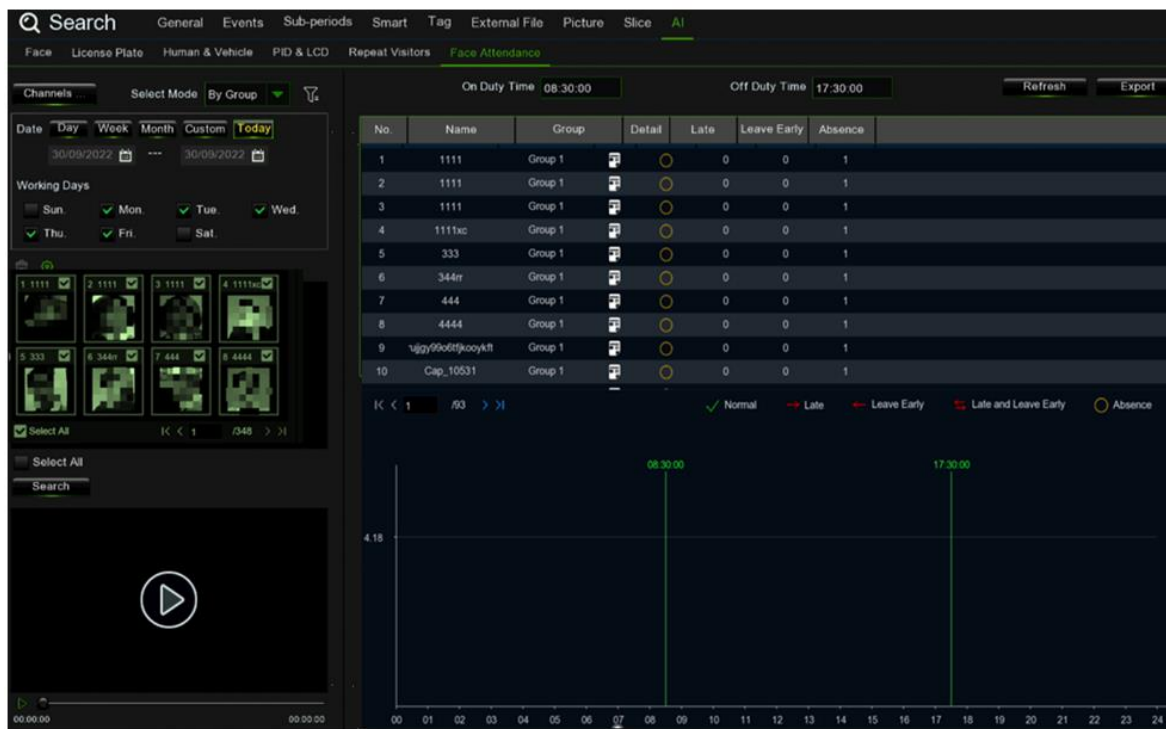
1. Select the desired date and time.
2. Select the group in the face lists to be compared.
3. Select camera.
4. Select the attribute of the face you wish to search for.
5. Enter the minimum number of seconds of the interval.
6. Press the left mouse button on the search results. The reproduction and information details are displayed on the left.
7. Press the right mouse button to import the face library and display the details.
8. Enter the minimum number of face appearances in **Minimum Occurrences**.
9. Press on **Sort By** to sort ascending or descending by time or quantity.
10. Check search results or press on All to select all search results. Press on the icon  to customise playback or press  to back up images and videos to the external USB drive.

3.13.10.6 Face Attendance

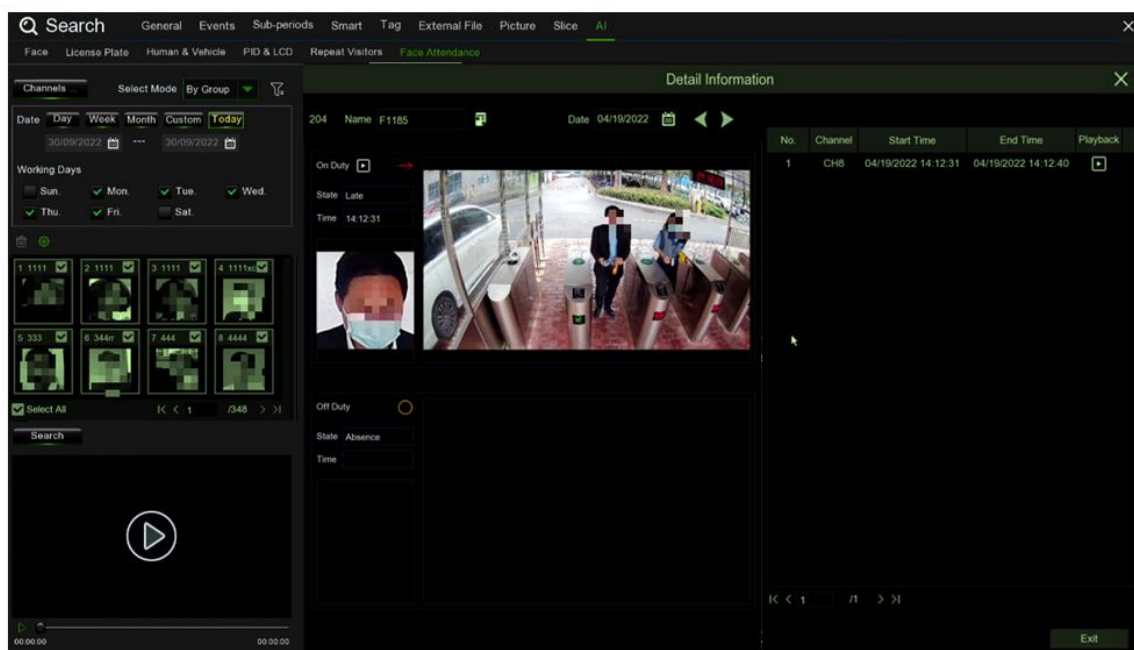
In this section, it is possible to check if a person has turned up at the appointed time and thus determine if they are late or leaving early.




1. **Channels:** Select the camera for face presence.
2. **Select Mode:** Select the face image of presence, By Group or By Person:
 - **By Group:** Select face images through the face group.
 - **By Person:** select face map. Press on the right button to open the face search interface in the selected face library.
3. **Date:** Select the search date. By default Day is set but you can choose from five selection modes: Day, Week, Month, Custom and Today.
4. **Working Days:** Select working days.
5. **On Duty Time:** Set the working time.
6. **Off Duty Time:** Set the closing time.
7. Press on **Search** to search for results.



Pressing on the result displays all survey data. Press on the icon  to access the details interface.



Here are the attendance details, including the first and last appearance. Press on  to perform playback in the bottom left corner. Press on **Export** to save the record file of the searched attendance information to the U-disk. Press on **Send Email** to send the searched attendance information file to the mail address set in the device menu.

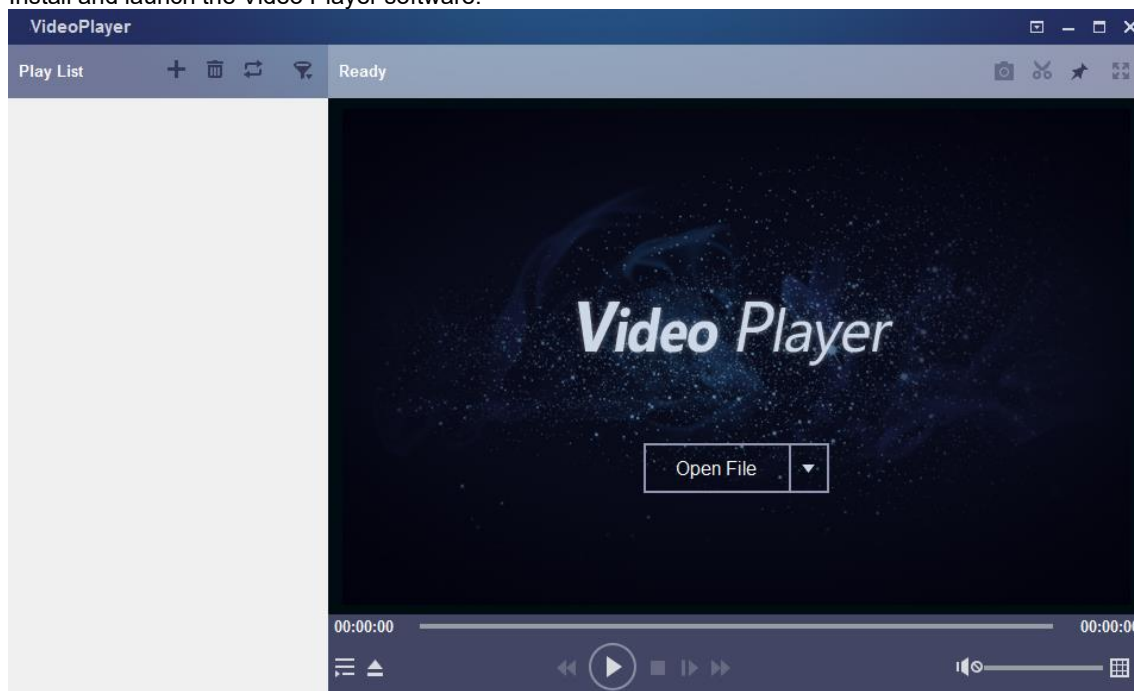
4 VIDEO PLAYER TO VIEW BACKUP VIDEOS ON PC

This section allows you to play the backup files using to a powerful video player (to download from Urmet website). PC users must install the software "VideoPlayer_x.x.xx_xx_xx_xx.exe".

Minimum system requirements:

- Intel Pentium 4 or higher
- Microsoft Windows XP / Vista / 7 / 8 / 10
- 256MB RAM
- 16MB of video memory

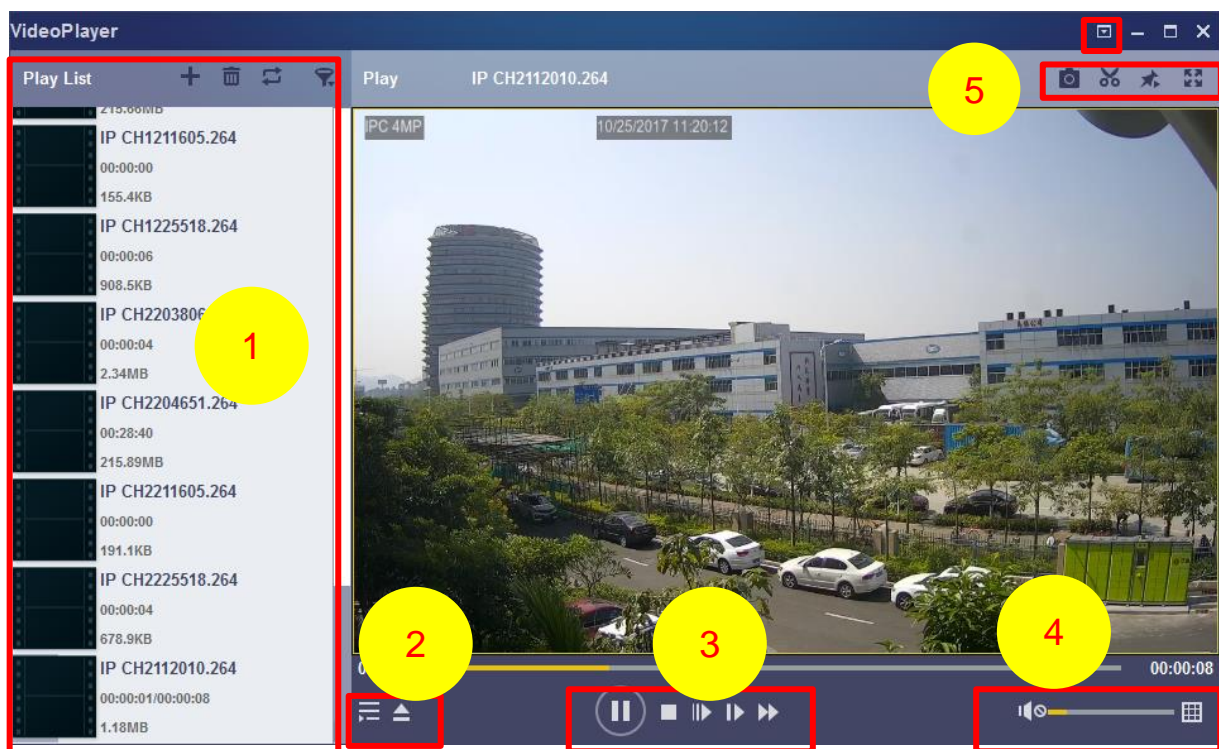
Install and launch the Video Player software.



1. Copy a backup file to the computer.
2. Click on the **Open File** button or click the Play List + button to upload one or more video files. This function supports the addition and playback of ".rf", ".avi", ".mp4", ".264" and ".265" files. Click on ▼ to load a folder containing backup video.

4.1 VIDEO PLAYER CONTROL

6



1. Play List



Add file



Delete file



Select the playback mode: play a single file and stop playback; play all listed files in sequence; repeat one file; repeat multiple files.



Filter by file name

2. Hide/Show Play List



Click to open the files or load a folder.

3. Play Controls



Play



Pause



Stop



Play back one frame at a time. Click once to play a frame of the video



Slow motion playback, 1/2, 1/4 and 1/8, 1/16 speed



Fast forward x2, x4, x8 and x16

4. Multi-screen playback volume control



Volume control



Multi-screen playback. This can be used to play multiple videos simultaneously. By selecting multi-screen mode, you can drag the video from the Play List to the playback screen.



Take a snapshot



Save a video clip on your computer. Press once to start and press again to end the video clip.

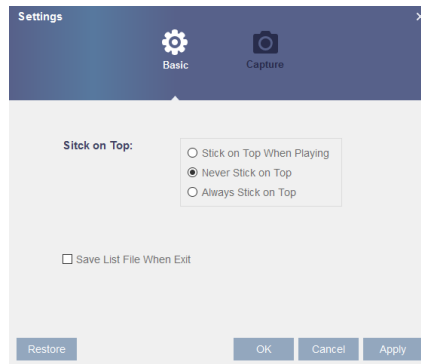


Keep the Video Player on top

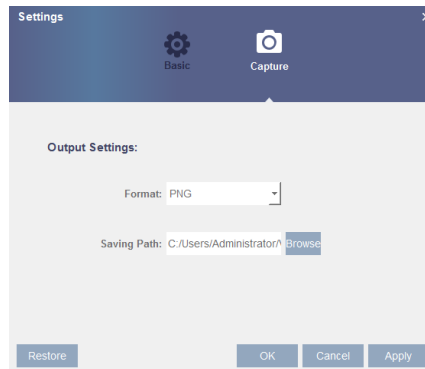



Enlarge video playback full screen

5. Basic Settings: Set to on-top mode.



Capture Settings: Set the format and save path of the snapshots.



6.  The **Advanced Setup** menu can be used to select the OSD language of the video player and configure its parameters.

5 REMOTE ACCESS VIA WEB CLIENT

The Web Client can be used to remotely access the NVR via PC at any time. Before accessing the Web Client, ensure that the NVR Internet settings are configured correctly.

5.1 BASIC SYSTEM ENVIRONMENT REQUIREMENTS

The minimum hardware and OS requirements for the Web Client are as follows.

Component	Minimum	Recommended
CPU	Intel® Core™ i5 CPU	Intel® Core™ i5 CPU or higher
RAM	4G or higher	8G or higher
Hard Drive	500G or higher	1000G or higher
RAM Display	2G or higher	4G or higher
Display resolution	1280*1024	1920*1080
OS	Windows 7 or higher version Mac OS X® 10.9 or higher version	
DirectX	DirectX 11	
Direct3D	Acceleration function	
Ethernet adapter	Ethernet adapter 10/100/1000M	
Web browser for Device Parameters Setting and Video Display	Microsoft Edge	
Web browser for Device Parameters Setting	Any	

5.2 DOWNLOAD AND INSTALL WEB PLUG-INS

To access the Web Client, proceed as follows:

For IE/Chrome/Firefox:

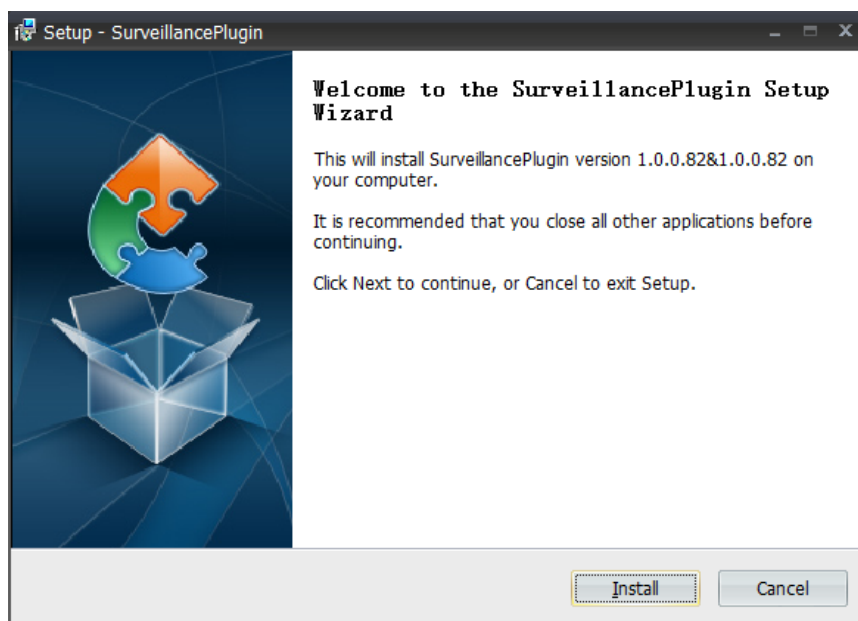
Launch the browser on the PC and enter the IP address of the NVR or the DDNS (Host Name) domain name set on the NVR in the URL bar.

The first time you use the Web Client, the system will prompt you to install the respective plug-in. Click on **download** to download the plug-in and install it on your computer.

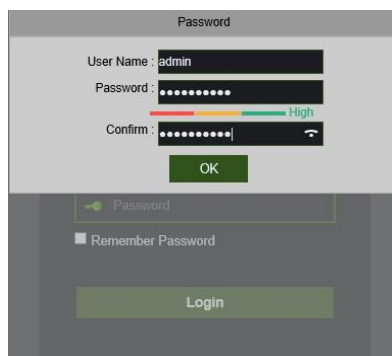
You haven't installed the plugin or it is not the latest version.

Please click [download](#) to download the latest plugin.

Please close browser before plugin installation!!!

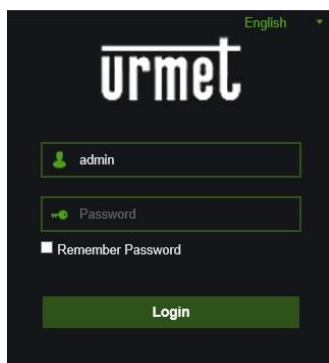


After the first login of the NVR from the Web interface, enter your custom Password and confirm.



The screenshot shows a 'Password' setup window. It contains three input fields: 'User Name' with 'admin' entered, 'Password' with masked characters, and 'Confirm' with masked characters. A strength indicator bar is visible between the Password and Confirm fields, showing a green bar and the word 'High'. Below the fields is an 'OK' button. At the bottom of the window, there is a 'Remember Password' checkbox and a 'Login' button.

After installing the plug-in, close and launch the browser again, then repeat step 1 to open the login page. Enter your username and password to access the Web Client.

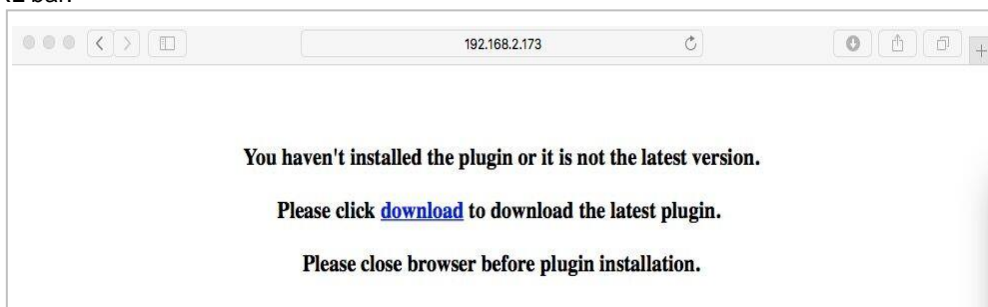


The screenshot shows the 'urmet' login page. It has a dark background with the 'urmet' logo at the top. Below the logo are three input fields: a username field with 'admin' entered, a password field with masked characters, and a 'Remember Password' checkbox. At the bottom is a green 'Login' button.

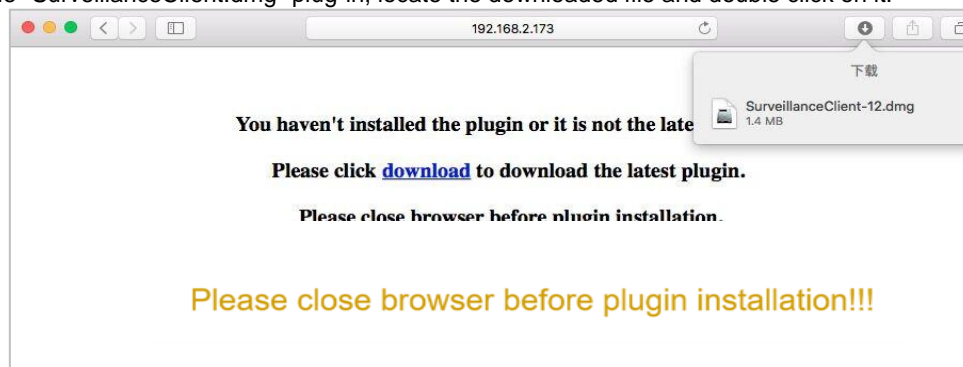
Note: For Google Chrome, use version V41 or lower. If you are using versions V42 to V44, you must enable NPAPI plug-ins. Enter `chrome://flags/#enable-npapi` on the URL bar to find and enable NPAPI. For now, V45 or higher is not supported.

For Mac Safari:

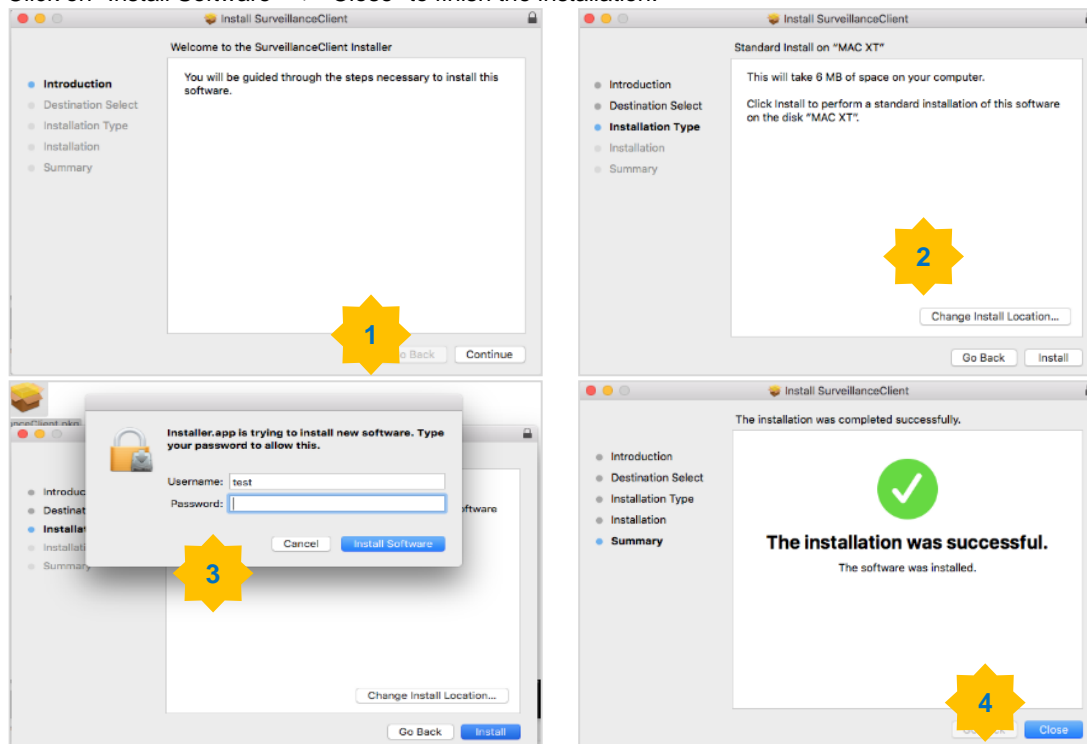
1. Launch the Safari on the Mac and enter the IP address of the NVR or the DDNS (Host Name) domain name set on the NVR in the URL bar.



2. Download the "SurveillanceClient.dmg" plug-in, locate the downloaded file and double click on it.



3. Click on "Continue" --> "Install". Enter the user name and the password for the Mac. Click on "Install Software" --> "Close" to finish the installation.



4. Close and re-open Safari, then repeat step 1 to open the Web Client login page.

5.3 WEB CLIENT MANAGER

The Web Client supports full control of the NVR with the administrator account. Protect your username and password against any illegal access.

5.4 ACCESS TO THE NVR WEB INTERFACE VIA IP ADDRESS, URL OR URMET DDNS ACCOUNT

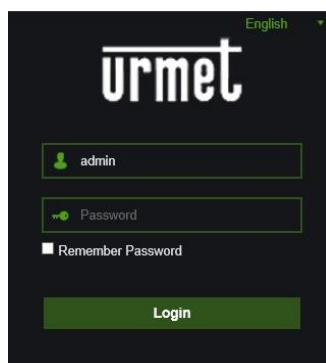
Follow the instructions for configuring and accessing the web pages of the device on Edge in Internet Explorer mode. The web can be accessed in three ways:

Direct access via LAN: start Edge in Internet Explorer mode and type the IP address and the HTTP port of the NVR on the address bar, as follows: <http://IP Address: HTTP Port> (e.g. <http://192.168.36.40:85>). If the HTTP port of the NVR is 80, simply enter the IP address of the NVR, as follows: <http://IP Address> (e.g. <http://192.168.36.40>).

Direct access via the Internet with URL of other DDNS account: start Edge in Internet Explorer mode and type the URL and the HTTP port associated to the NVR on the address bar (e.g. <http://urmetvcc.no-ip.org:81>). If the HTTP port of the NVR is 80, it is sufficient to enter the URL of the NVR, as follows: <http://IP Address> (e.g. <http://urmetvcc.no-ip.org>).

See the appendix for how to install Active X.

One of the two pages will appear below after having installed Active X according to the type of access:



Fill in the required fields: User Name, Password and Client Port. Then select the language.

Remember that the default access parameters are:

- User Name: **admin**
- Password: **the password chosen during the first access**

Enter the correct access credentials if other users were created in the NVR user menu or if the default password was modified.

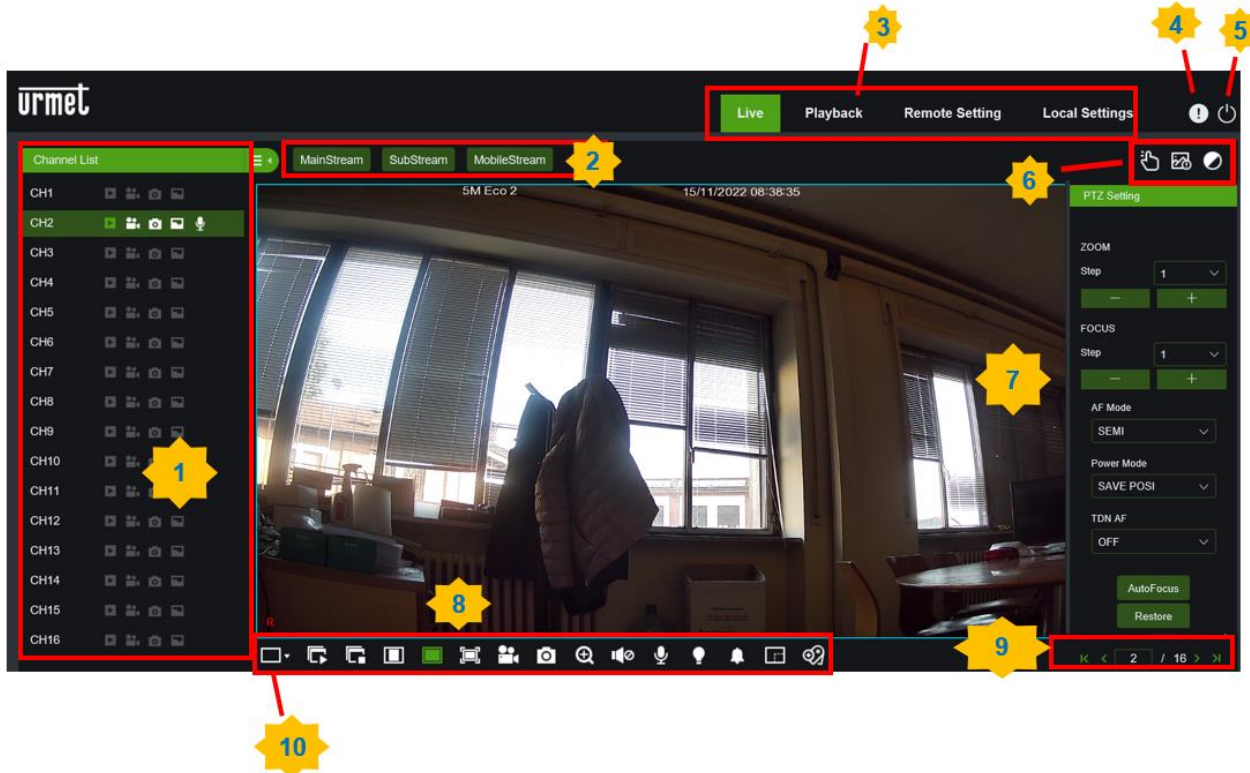
Select [Login] to access the Web interface of the device, as shown in the lower left screen.

Note:

The default password is empty if the NVR password is not enabled. The system can be used by the administrator to enable and set a new password; for instructions, see section 3.4.8.4 - [Main Menu→ System→Users].

5.5 LIVE INTERFACE

This is the first screen that opens after the Web Client access procedure. Here you can open/close the live preview, manually record video on the local computer, take screen snapshots, perform PTZ control, adjust the colours, etc.



1. **Channel List:** This can be used to open the channel list for the quick camera function.

Click on to see the list of channels.

Click on to hide the list of channels.

Activate/deactivate the Live video stream. If the Live video stream is activated, the button is blue.

Manual Recording buttons. Click to start recording the Live video stream manually. Click again to stop recording. Manual recordings are saved on the computer.

Manual snapshot button. Click to save a snapshot of the current Live view on your computer.

Stream button. Set the camera to use Mainstream, Substream or Mobile Stream settings. Mobile Stream is only available for IP channels.

2. **Live Video Stream options:**

- **Mainstream:** This can be used to view all live video using high quality mainstream video settings.
- **Substream:** This can be used to view all live video using medium quality video substream settings.
- **Mobile Stream:** This can be used to view all live video using lower quality video settings to save bandwidth. Available only for IP channels.

3. **Main Menus**

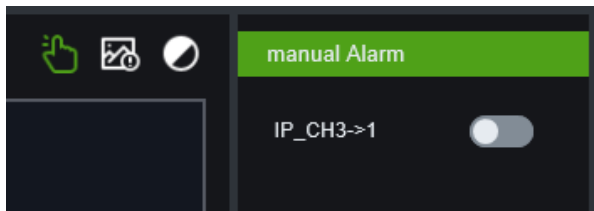
- **Live:** This can be used to view live video from the cameras.
- **Playback:** This can be used to view videos recorded and saved on the NVR hard disk.
- **Remote Setting:** This can be used to access the NVR setup menu functions.
- **Local Settings:** Set the download destinations of the recordings and snapshots obtained through the Web Client and select the type of video file.

4. **Information:** Hover over it with the cursor to view the system data.

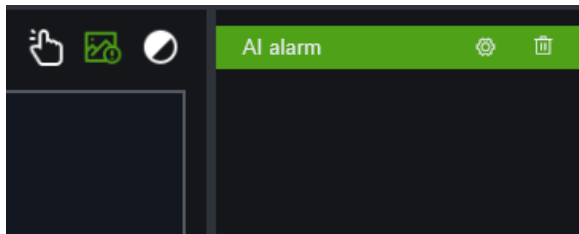
5. **Exit.**

6. **Controls:** Click to show or hide controls for

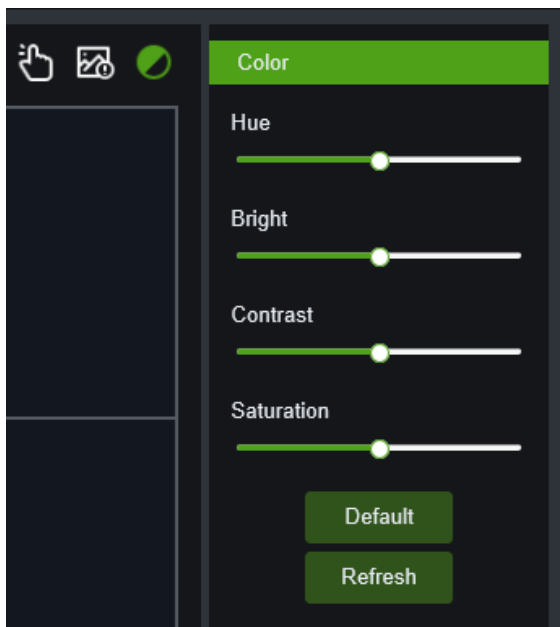
- **Manual Alarm**



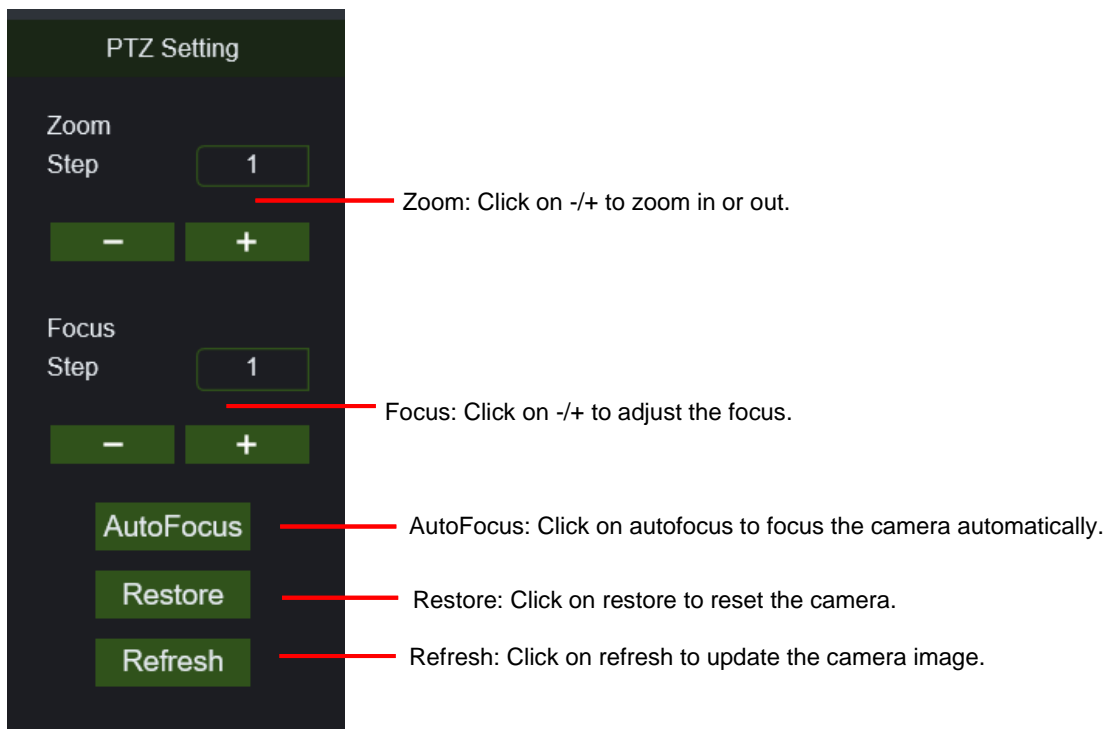
- **AI Alarm**



- **Color**



7. PTZ Interface:



8. **Live display control buttons:**

- To view the Layout page.
- To open the images in the Live window.
- To close all Live channels.
- Original Proportions: To show the Live video playing in its original proportions.
- Stretch: To stretch the Live video feed to fit the full area of each channel on the screen.
- To enlarge the Web Client full screen.
- Manual Recording: Click to start manual recording for all displayed channels. Click again to stop recording. Manual recordings are saved on the computer.
- Snapshot: Click to save snapshots of all channels currently displayed on your computer.
- Digital Zoom: Click on a live image, then click and scroll through an area of the live image to enlarge it. Right-click to go back to normal view.
- Volume control.
- Volume level. (Slider value: 44)
- Two-way audio.
- Light: it is possible to set the light intensity (Slider value: 50)
- Siren: it is possible to set the sound intensity (Slider value: 5)
- Pixel counter: you can count the number of pixels in the selected area (W:605px H:556px)
- Tag: it is possible to set a tag

9. **Navigation:** To display the current page number for the channels displayed on the screen. Use the arrow keys to switch between pages.

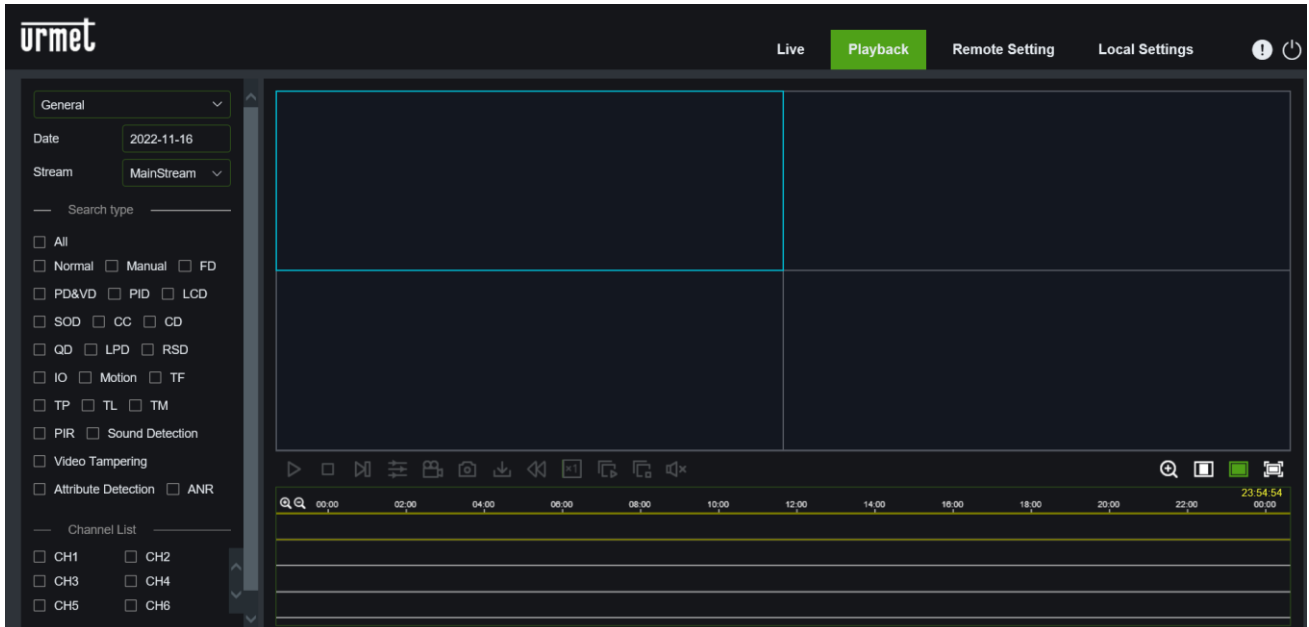
10. **Page View:** Click to select the number of channels to be displayed on the screen at the same time.

Note:

Use 95 to enter the OSD menu of the Speedome. Run the SET95 control if CALL95 does not work. See the Speedome manual for the Speedome OSD.

5.6 PLAYBACK

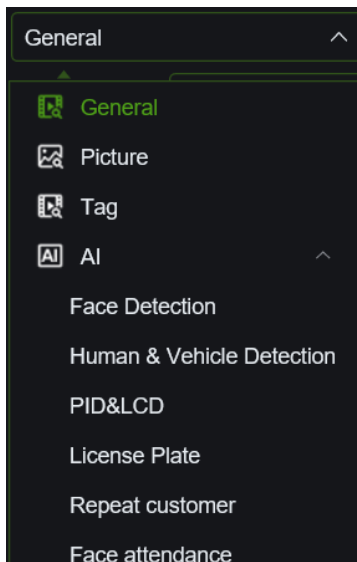
You can search and play back videos recorded and stored on the hard disk in the NVR and download them to your computer.



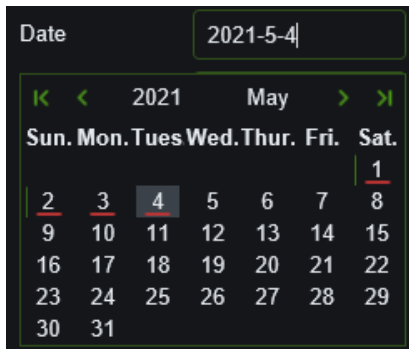
To search the recordings:

Click on **Playback** at the top right of the window.

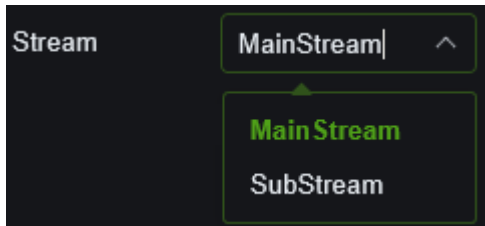
Select the search mode for video recordings or images, default is **General**:



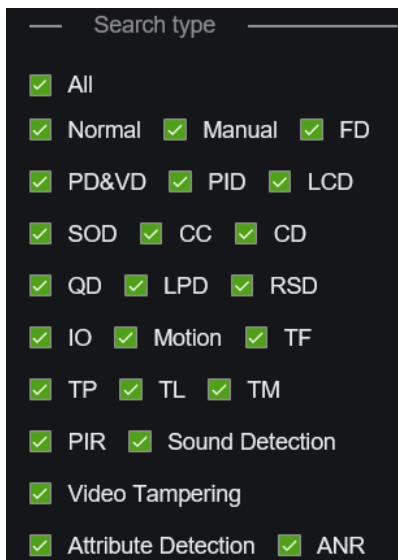
Select the day on which to search for recordings on the calendar. The days with the recordings will be underlined in red.



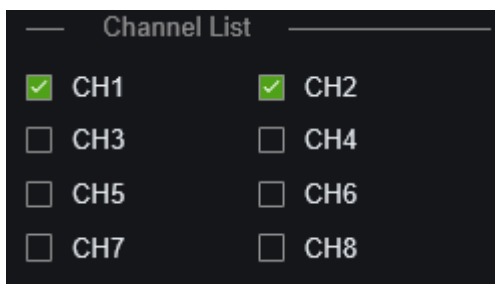
Choose the video stream you want to search and play. In case of playback of Substream recordings, check that you have set the NVR for recording with Dualstream, as shown in section **"Record Settings"**



Select the recording type to be searched for or select **All** to search all the recordings.



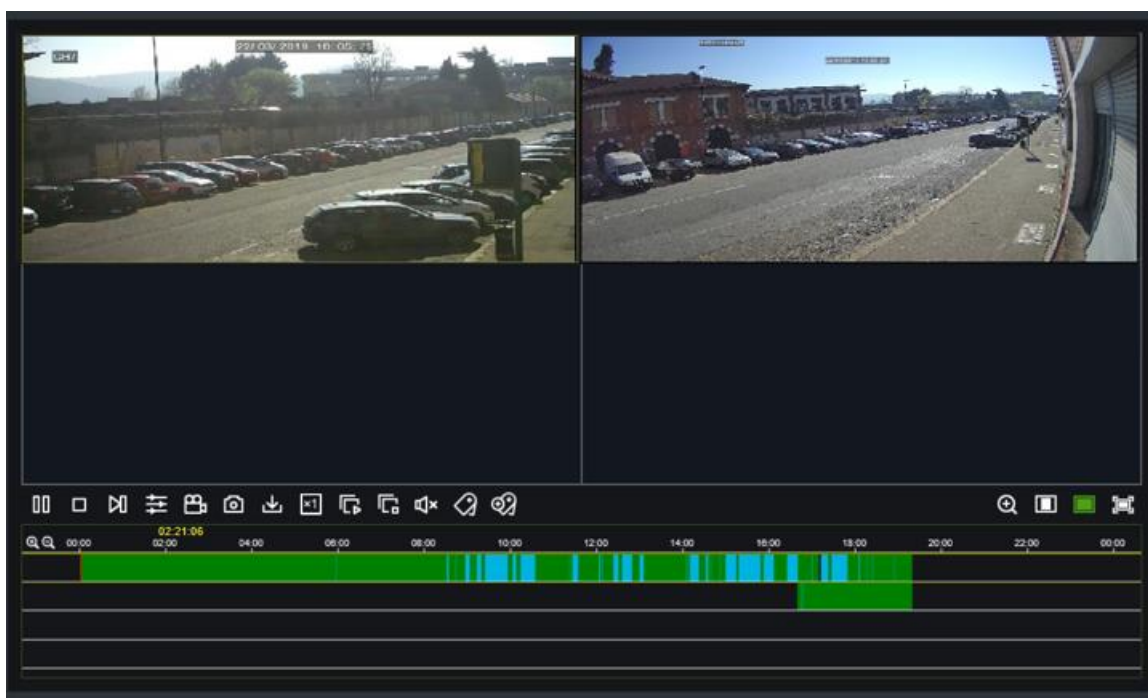
Check the channels to search for recordings.



Click on **Search**.

The records that match the search criteria will be displayed in the timeline. Click on the ► play button.


5.6.1 PLAYBACK CONTROL BUTTONS





 **Play the recordings**

 **Pause**


 **Stop**

 **Go Forward One Frame:** Move one frame at a time through playback. Only available if **Synchronous playback** has not been checked.

 Click on one of the channels playing, then click the Record button to record the current video on your computer. Click again to stop recording.

 **Synchronous playback**

 Click on one of the channels playing, then click on the Capture button to take a snapshot and save it to your computer.


 Open the Download menu, which allows you to download multiple video recordings simultaneously.


	<input type="checkbox"/>	Start Time	End Time	Status	File Size
1	<input checked="" type="checkbox"/>	2019-03-22 00:00:00	2019-03-22 00:06:14	Not Downloaded	94.01M
2	<input checked="" type="checkbox"/>	2019-03-22 00:06:14	2019-03-22 00:07:48	Not Downloaded	23.79M
3	<input checked="" type="checkbox"/>	2019-03-22 00:07:45	2019-03-22 00:07:50	Not Downloaded	1.42M
4	<input checked="" type="checkbox"/>	2019-03-22 00:07:49	2019-03-22 00:23:02	Not Downloaded	228.69M
5	<input checked="" type="checkbox"/>	2019-03-22 00:23:02	2019-03-22 00:39:54	Not Downloaded	253.87M
6	<input checked="" type="checkbox"/>	2019-03-22 00:39:54	2019-03-22 00:56:46	Not Downloaded	253.94M
7	<input checked="" type="checkbox"/>	2019-03-22 00:56:46	2019-03-22 00:59:59	Not Downloaded	49.05M
8	<input checked="" type="checkbox"/>	2019-03-22 01:00:00	2019-03-22 01:13:36	Not Downloaded	204.74M
9	<input checked="" type="checkbox"/>	2019-03-22 01:13:36	2019-03-22 01:30:28	Not Downloaded	253.95M
10	<input checked="" type="checkbox"/>	2019-03-22 01:30:28	2019-03-22 01:47:20	Not Downloaded	253.85M


10 / 6 Show from 1 to 10, total 58. Per page : 10


Start Download Stop Download





Select the files to download and press the Start Download button to begin; the download progress will appear. Press the Stop Download button to stop downloading.

 **Playback Speed:** Click to select the playback speed.

 **Play All Channels:** Click to play all channels selected for the search. Only available if Synchronous playback has not been checked.

 **Stop All Channels:** Click to stop all channels. Only available if Synchronous playback has not been checked.

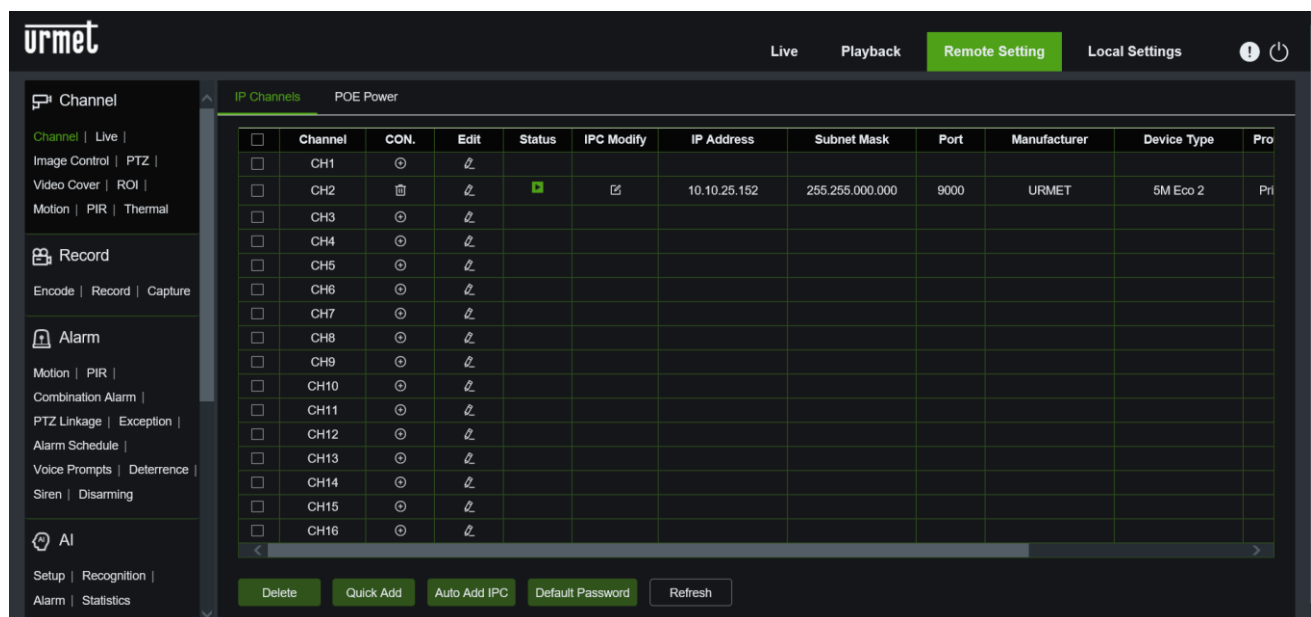
 **Open/close the speaker and adjust the sound volume.**

-  **Digital Zoom:** Click on a video that is playing, then click and scroll through an area of the video to enlarge it. Right-click to go back to normal view.
-  **Original Proportions:** This shows the video being played back in its original proportions.
-  **Stretch:** To stretch the video being played to fit the full area of each channel on the screen.
-  To enlarge the Web Client full screen.

5.6.2 CHANNEL CONFIGURATION

5.6.2.1 Channel and the respective sub-options: IP Channels and POE Power.

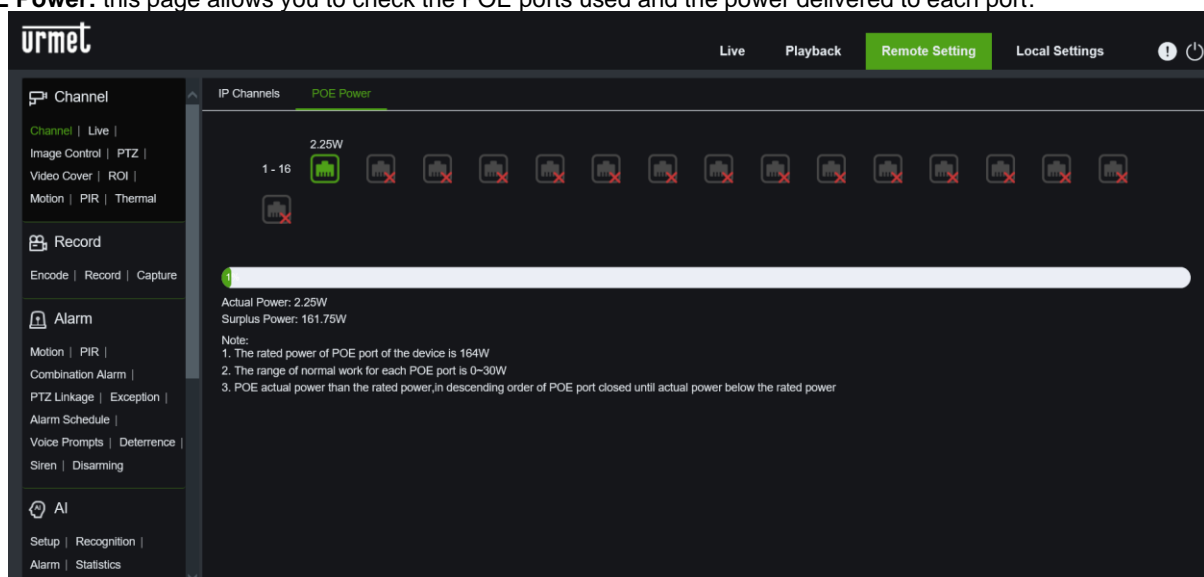
IP Channels: This displays the information on added IPCs. It can be used to add the IPC rapidly online and to eliminate the added one, as shown in the figure below. It can also be used to add the Cloud camera connected to the LAN rapidly using the [Auto Assign Channels] button.



The screenshot shows the URMET Web Client interface with the 'Remote Setting' tab selected. The 'IP Channels' sub-tab is active, displaying a table of 16 channels. The first channel, CH1, is configured with IP Address 10.10.25.152, Subnet Mask 255.255.0.0, and Port 9000. The table includes columns for Channel, CON., Edit, Status, IPC Modify, IP Address, Subnet Mask, Port, Manufacturer, Device Type, and Pro. Below the table are buttons for Delete, Quick Add, Auto Add IPC, Default Password, and Refresh.

Channel	CON.	Edit	Status	IPC Modify	IP Address	Subnet Mask	Port	Manufacturer	Device Type	Pro
<input type="checkbox"/> CH1					10.10.25.152	255.255.0.0	9000	URMET	5M Eco 2	Pri
<input type="checkbox"/> CH2										
<input type="checkbox"/> CH3										
<input type="checkbox"/> CH4										
<input type="checkbox"/> CH5										
<input type="checkbox"/> CH6										
<input type="checkbox"/> CH7										
<input type="checkbox"/> CH8										
<input type="checkbox"/> CH9										
<input type="checkbox"/> CH10										
<input type="checkbox"/> CH11										
<input type="checkbox"/> CH12										
<input type="checkbox"/> CH13										
<input type="checkbox"/> CH14										
<input type="checkbox"/> CH15										
<input type="checkbox"/> CH16										

POE Power: this page allows you to check the POE ports used and the power delivered to each port.

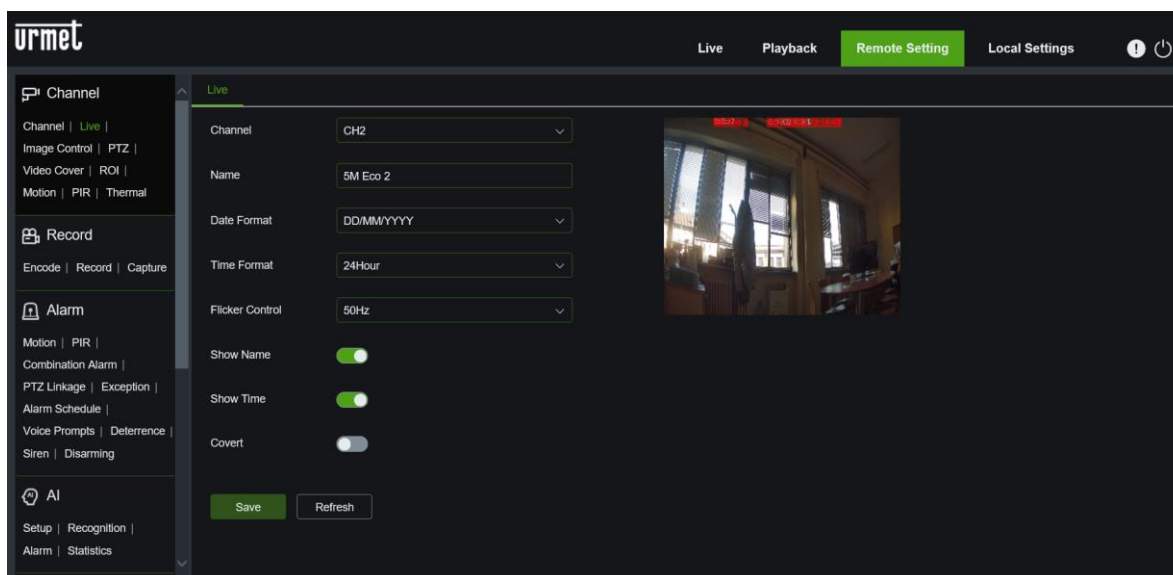


The screenshot shows the URMET Web Client interface with the 'Remote Setting' tab selected. The 'POE Power' sub-tab is active, displaying a bar chart showing power usage for 16 ports. The first port is highlighted with a green bar, indicating it is active. Below the chart, the actual power is 2.25W and the surplus power is 161.75W. A note indicates the rated power of the POE port is 164W and the range of normal work is 0-30W.

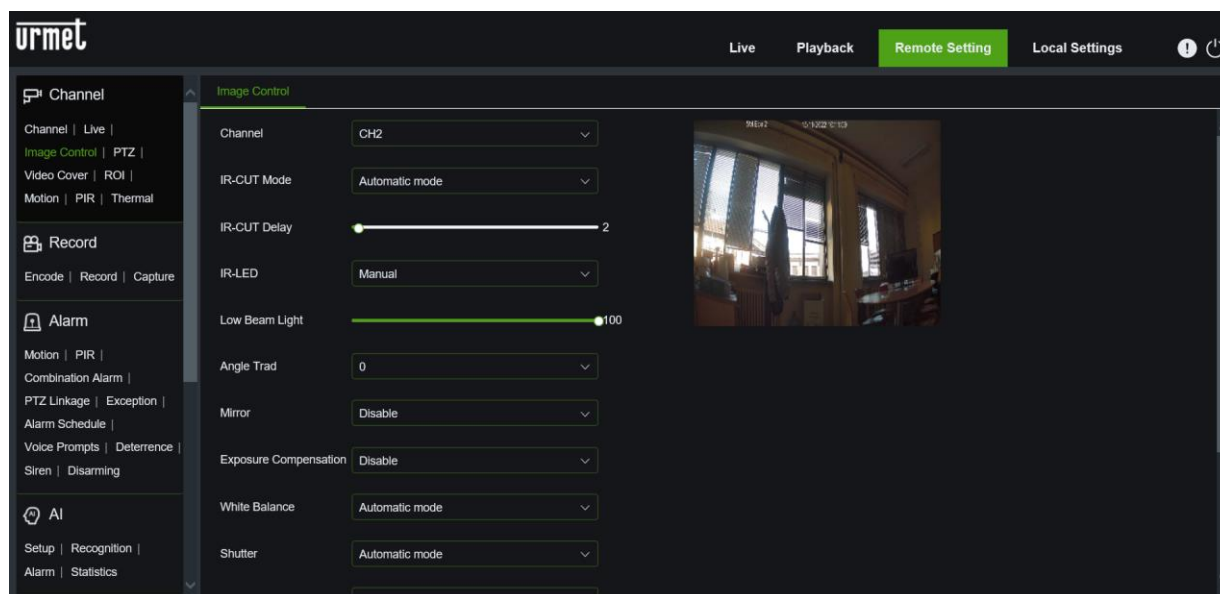
Actual Power: 2.25W
Surplus Power: 161.75W

Note:
1. The rated power of POE port of the device is 164W
2. The range of normal work for each POE port is 0-30W
3. POE actual power than the rated power, in descending order of POE port closed until actual power below the rated power

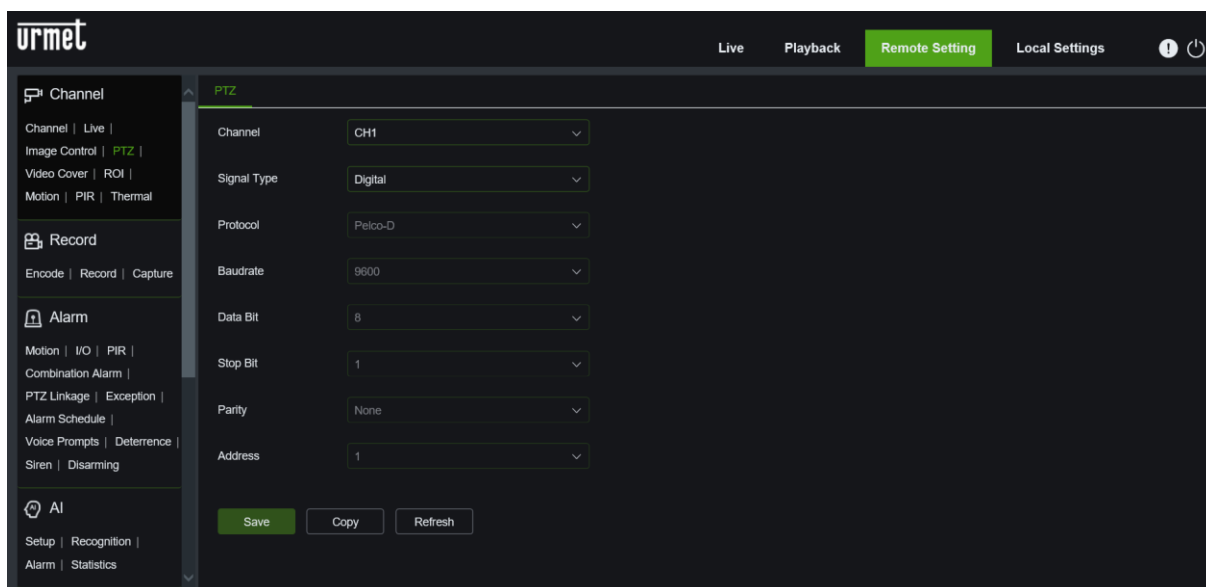
5.6.2.2 Live: the name, position, channel preview and the respective parameters can be modified. If the **Show Time** parameter is set to **<disable>**, the current time of the NVR system will not be shown in **Live** mode.



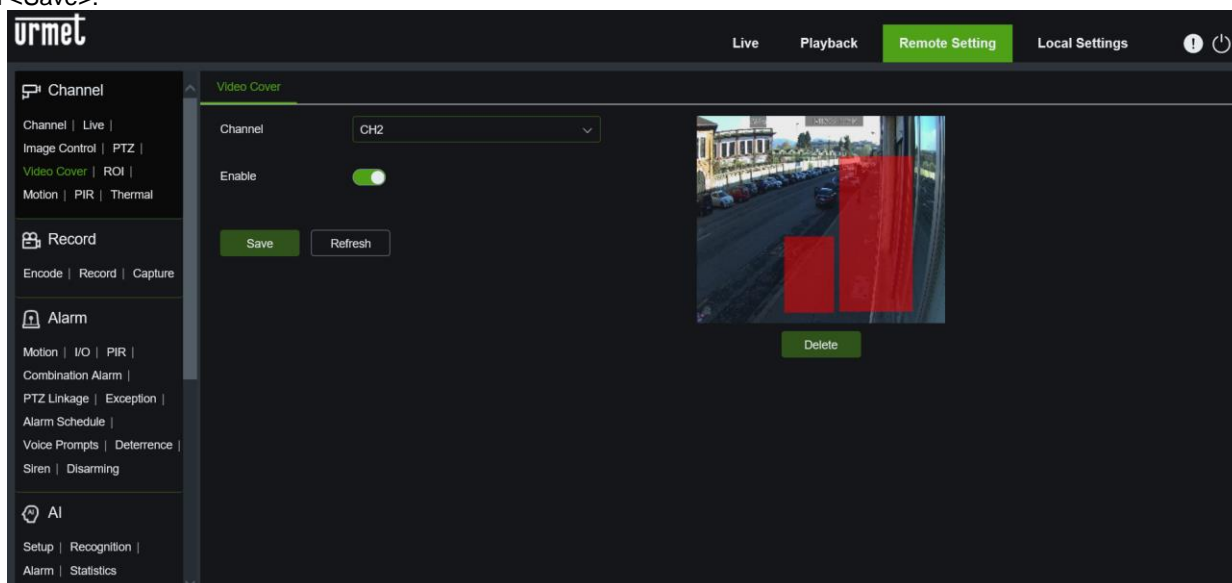
5.6.2.3 Image Control (if supported by IP camera model): It is possible to set the parameters of the IP camera.



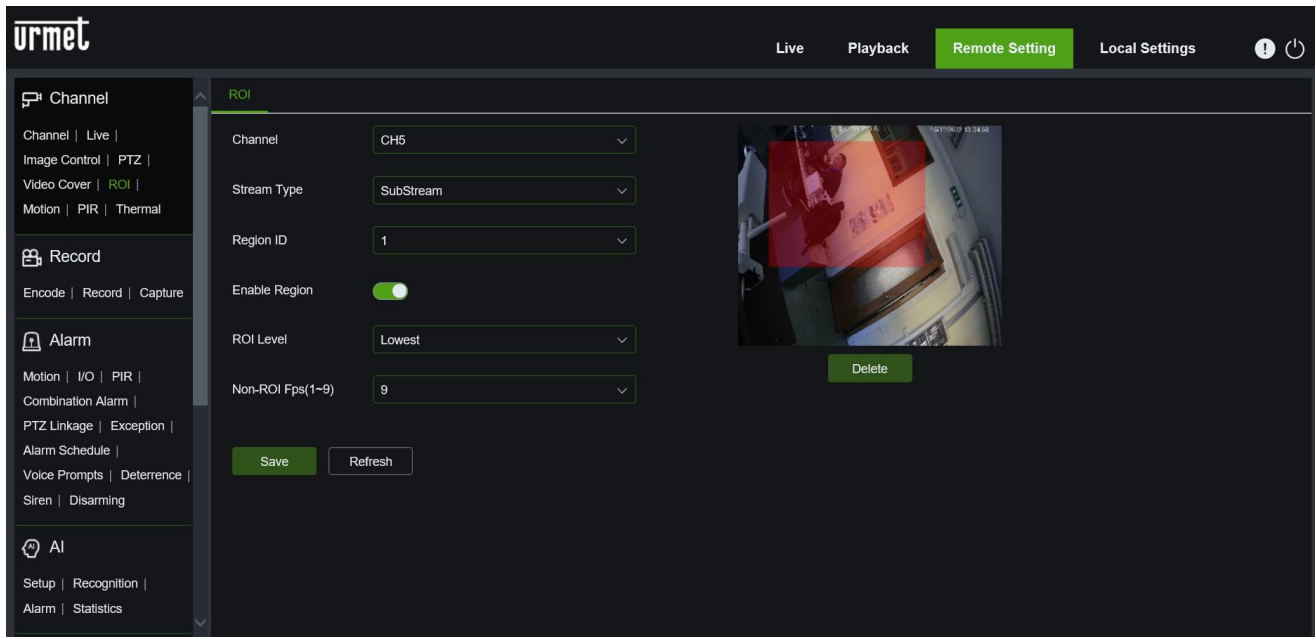
5.6.2.4 PTZ: allows the PTZ parameters of the camera to be set. This function is only supported for cameras with PTZ control.



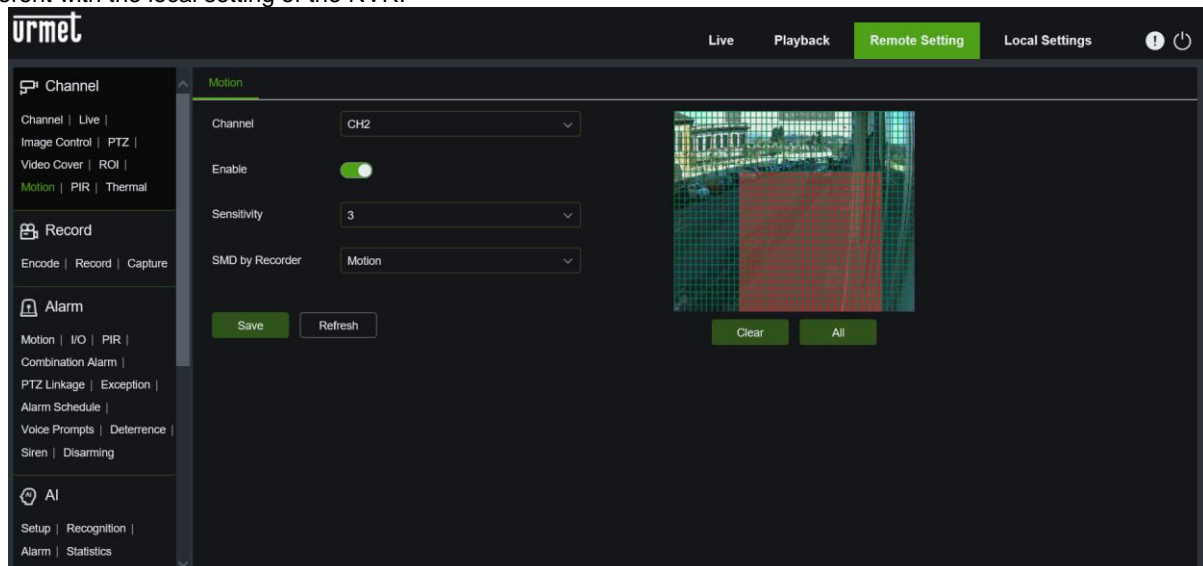
5.6.2.5 Video Cover: Up to four privacy zones can be selected for each channel, as shown below. For detailed parameters, see the OSD Menu section of the NVR. To eliminate a privacy zone, select it and then click on the <Delete> button and then on <Save>.



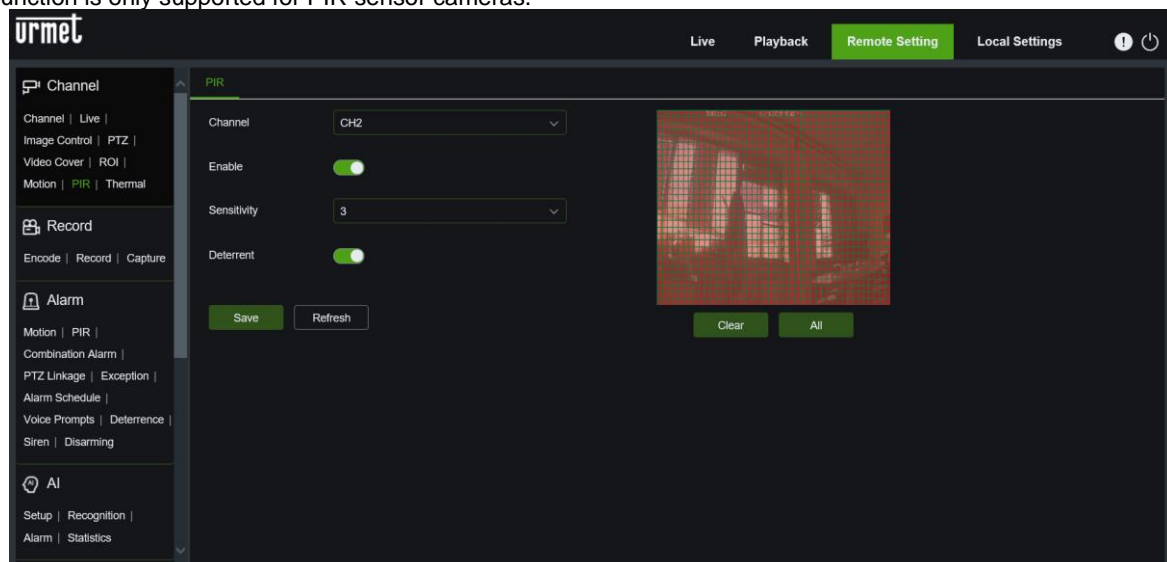
5.6.2.6 ROI (Region Of Interest): allows specific parameters to be set for a defined area within the image frame.



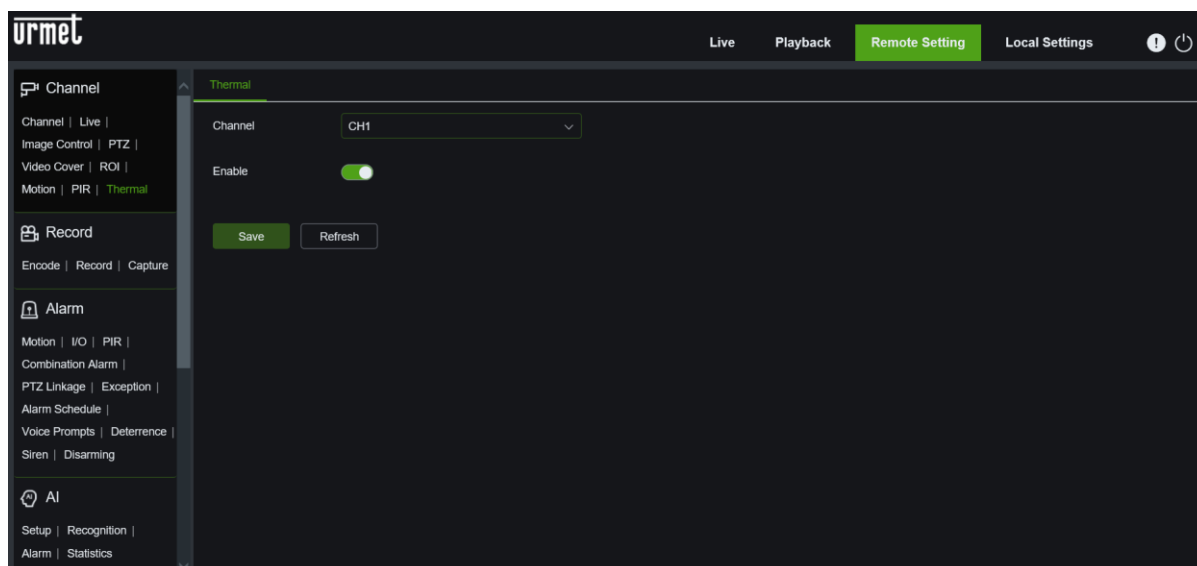
5.6.2.7 Motion detection: This can be used to configure the sensitivity and set the area. The detailed parameters must be coherent with the local setting of the NVR.



5.6.2.8 PIR Detection: this can be used to configure the sensitivity and set the area for PIR detection. The detailed parameters must be coherent with the local setting of the NVR
This function is only supported for PIR sensor cameras.



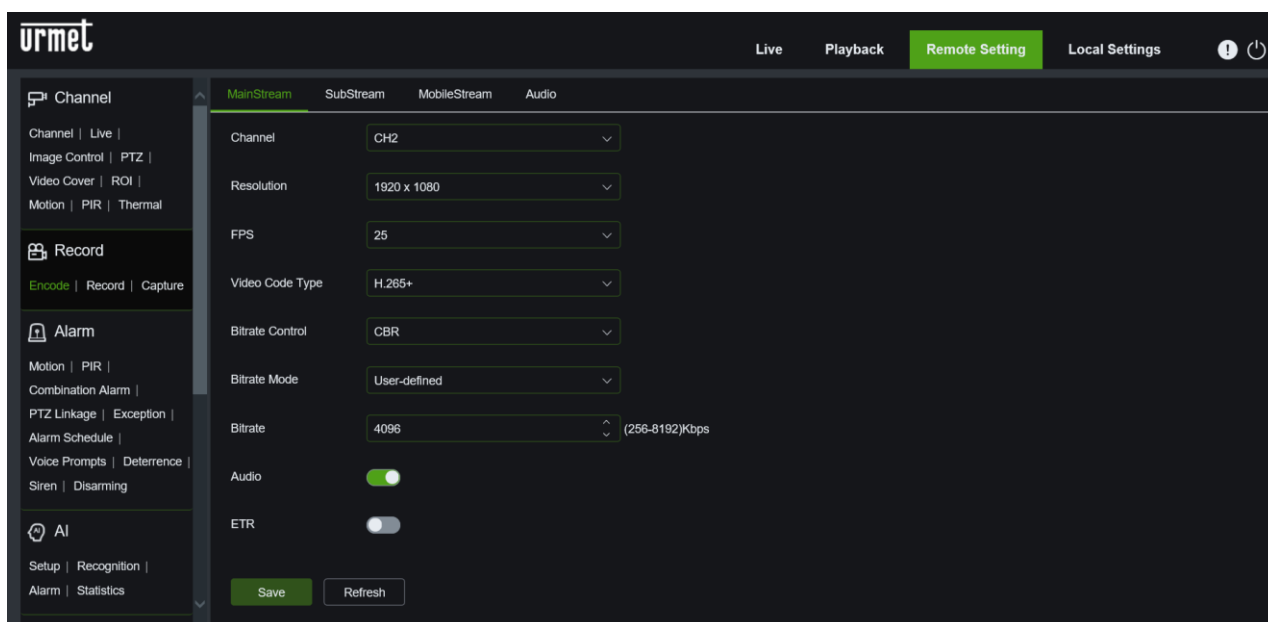
5.6.2.9 Thermal: The thermal function can be used to configure some actions to report abnormal behaviour detected by the Thermal camera. This function is only supported by Thermal Cameras.



5.6.3 RECORD

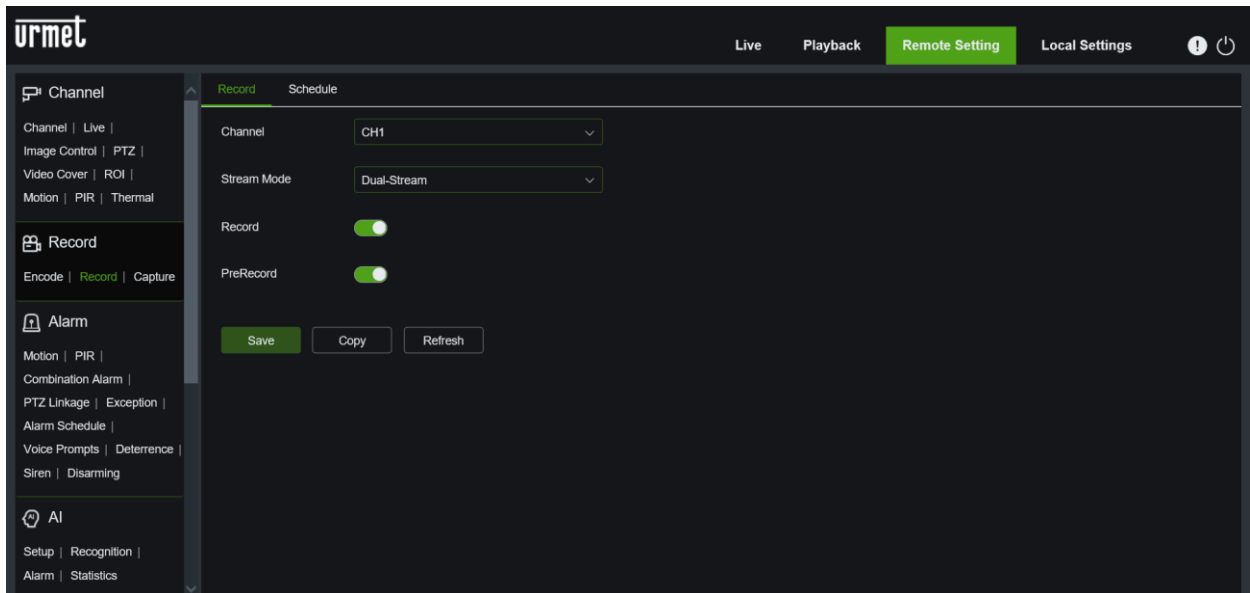
Click on the <Record> option to access its sub-options: Encode, Record, Capture.

5.6.3.1 Encode: user can set **Mainstream (Main Stream)**, **Substream (Sub Stream)**, **Mobile Stream (Stream mobile)** and **Audio** parameters, as shown in the following figure:



5.6.3.2 Record

Record: You can set **Channel**, **Record**, **Stream** mode and **Pre-record**.

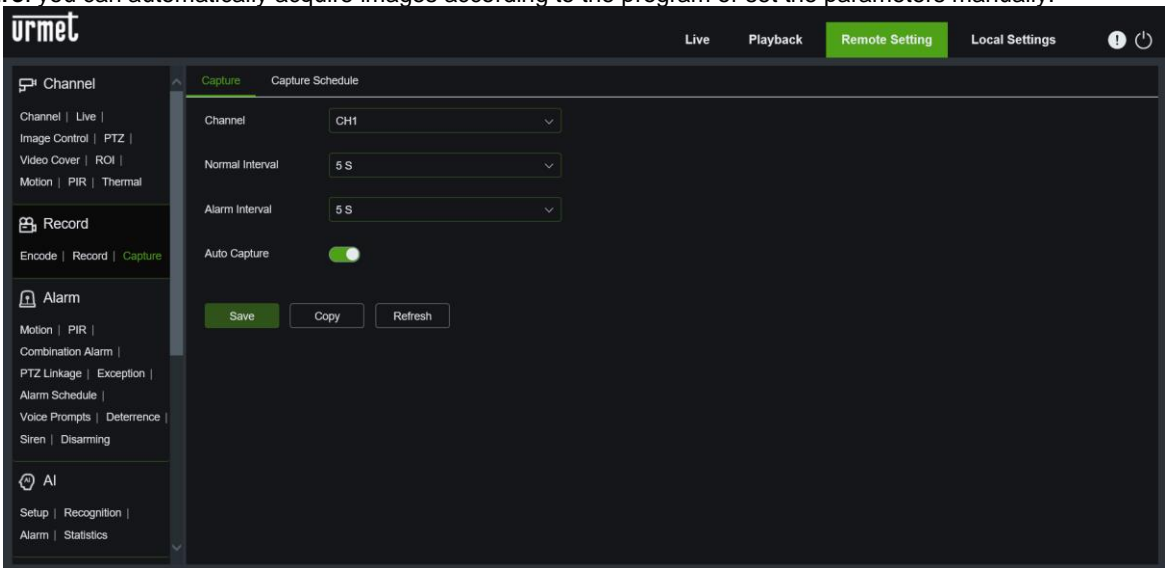


Schedule: recordings can be scheduled: green color indicates **Normal record**; yellow indicates **Motion detection**, blue indicates **Thermal record** and purple indicates **PIR Detection**.



5.6.3.3 Capture: sub-menu

Capture: you can automatically acquire images according to the program or set the parameters manually.



Capture Schedule: recordings can be scheduled: green color indicates **Normal record**; yellow indicates **Motion detection**, blue indicates **Thermal record** and purple indicates **PIR Detection**.



5.6.4 AI

This section can be used to set up intelligent analysis, i.e. systems which generate descriptions of what is happening in the video stream.

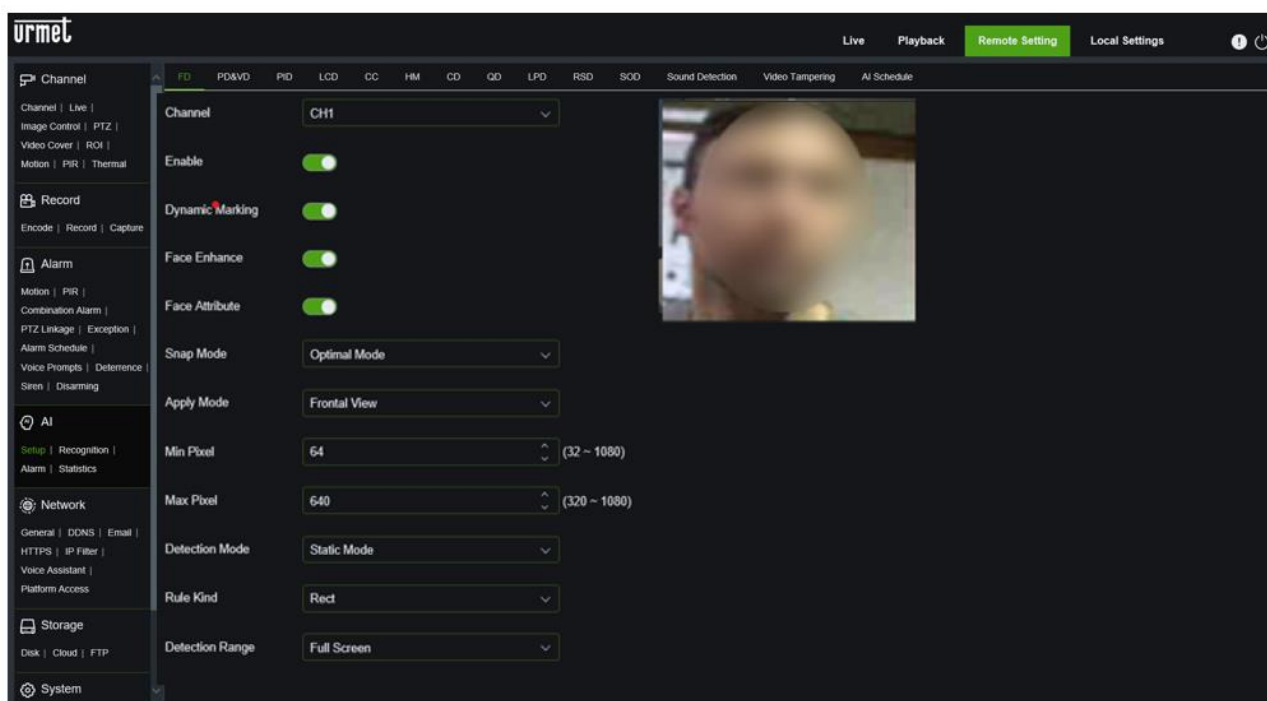
IMPORTANT: AI functionality must be supported by the camera.

5.6.4.1 Setup

This section describes the features of the devices which are performing the intelligent analysis and can be used to enable:

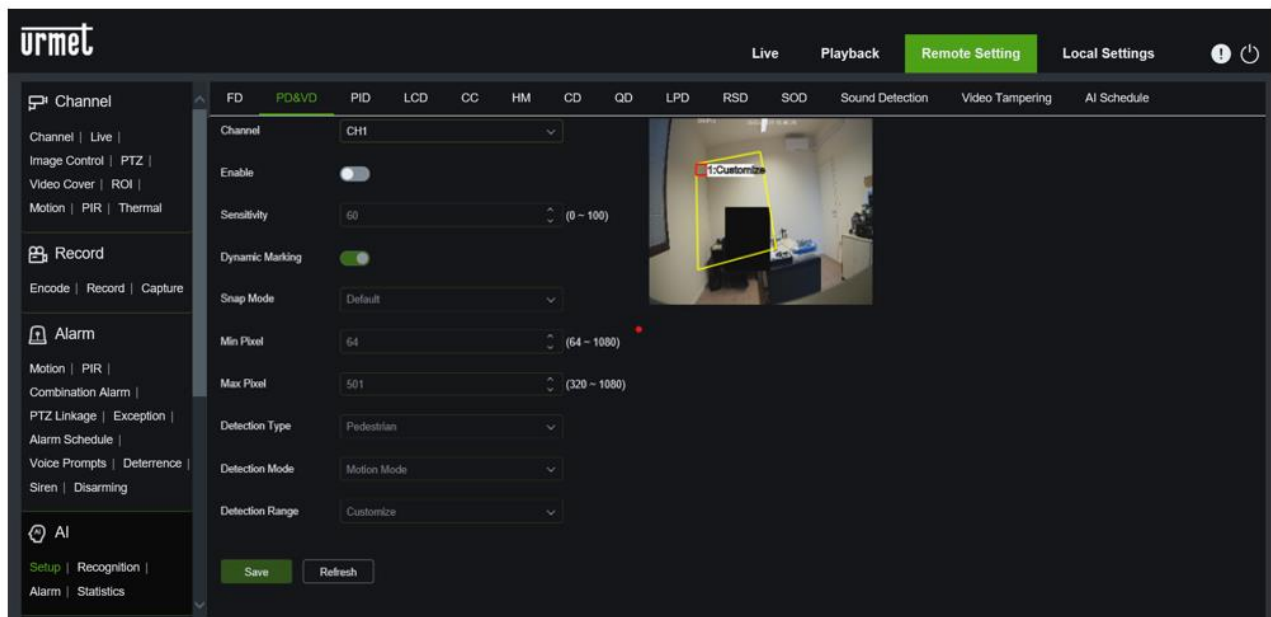
Face Detection: The detection of faces of people moving within a predefined area.

For a detailed description of the parameters refer to FD section of this manual.

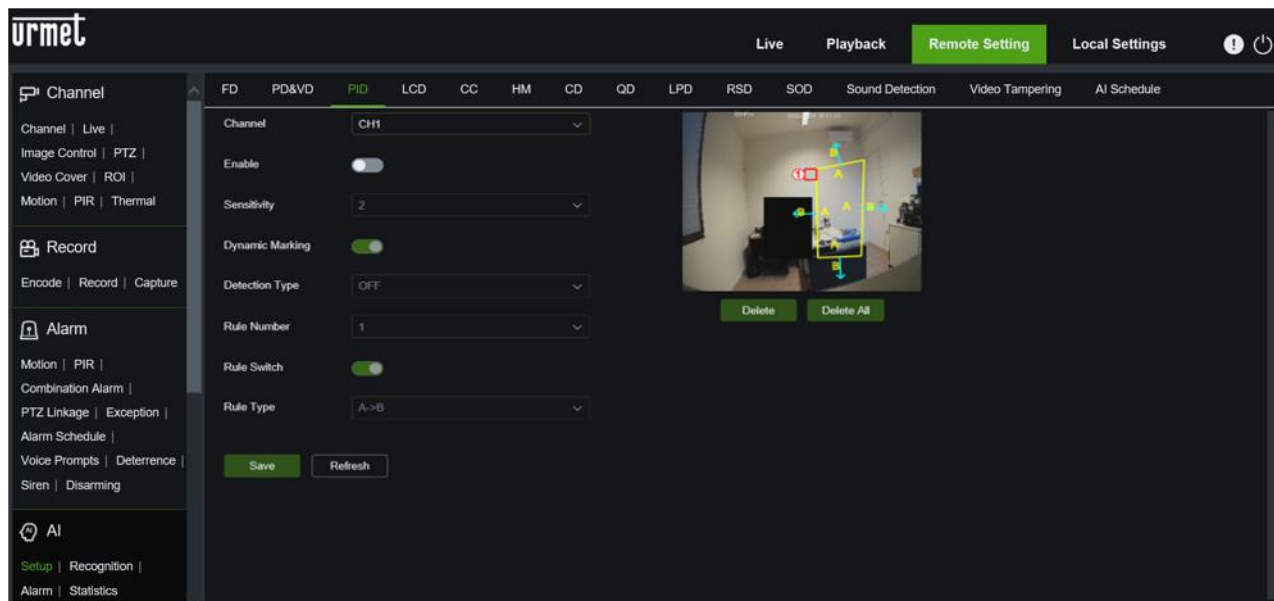


Pedestrian & Vehicle Detection: configurations for recognizing vehicles and people.

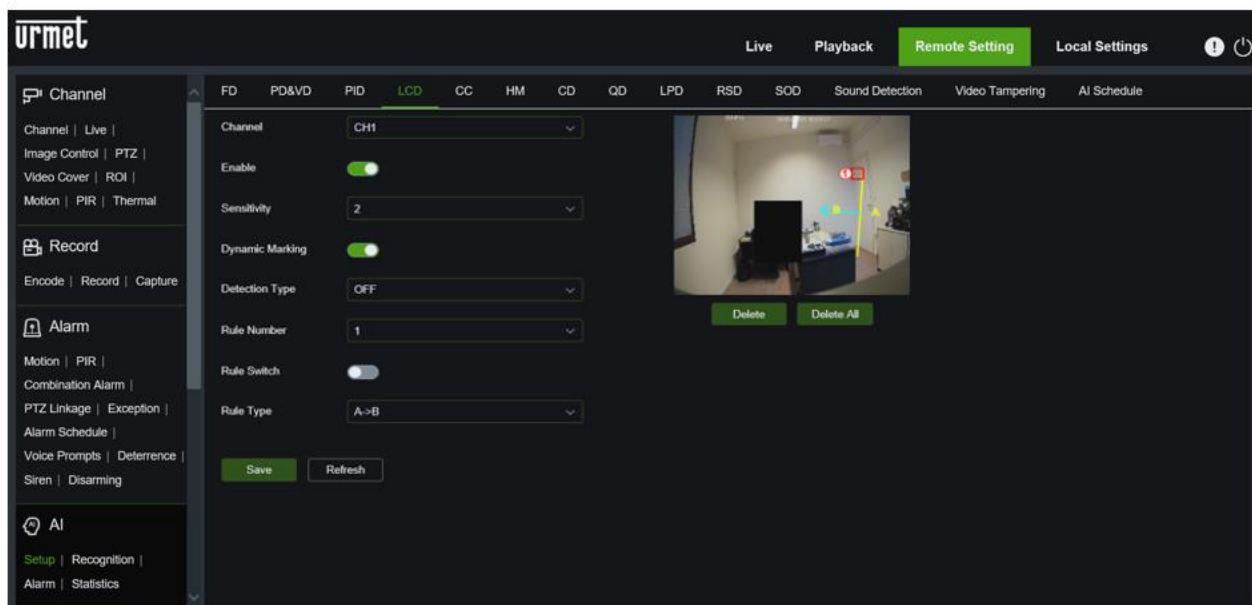
For a detailed description of the parameters refer to PD & VD section of this manual.



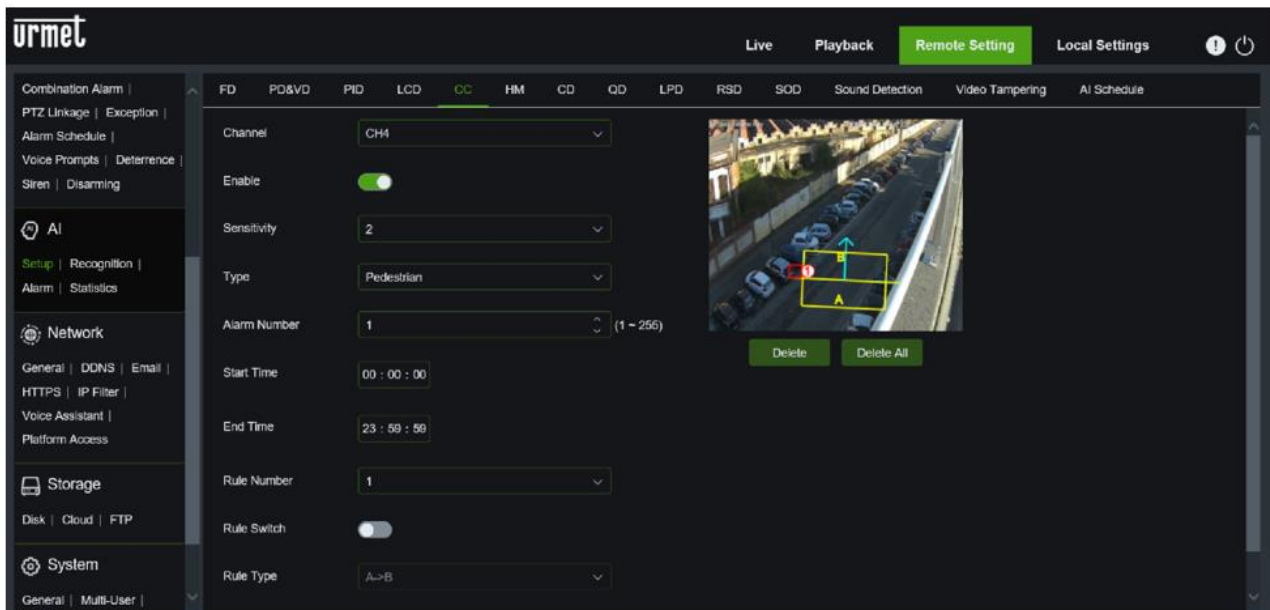
Perimeter Intrusion Detection: For a detailed description of the parameters refer to PID section of this manual.



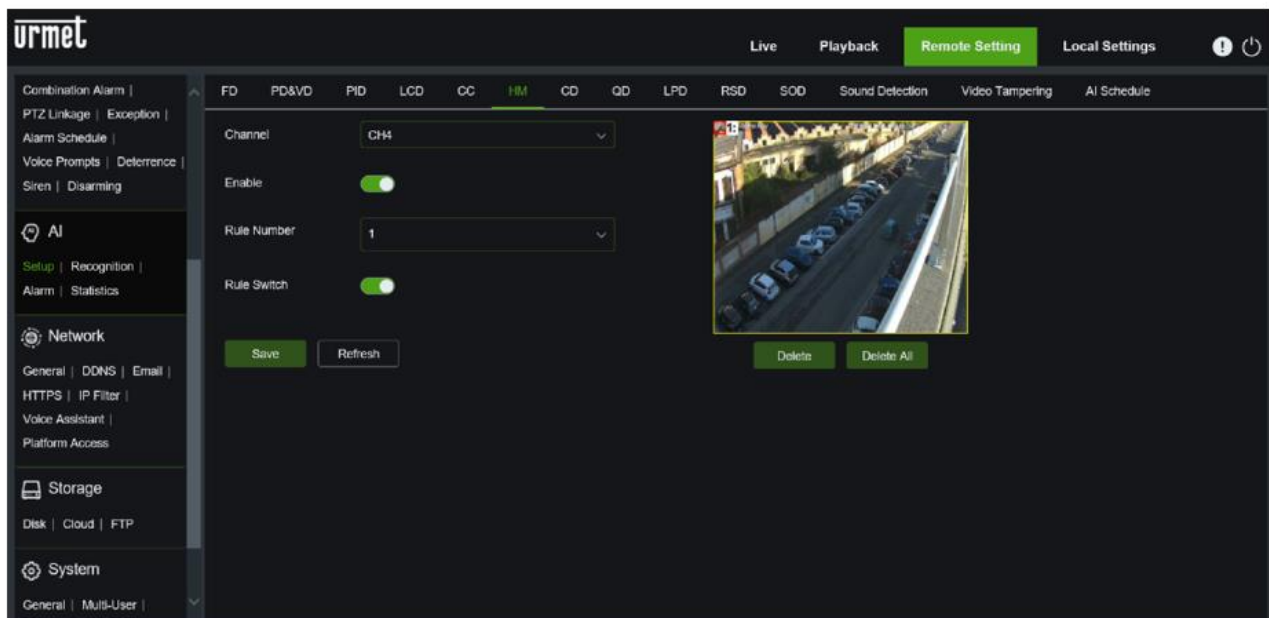
Line Crossing Detection: For a detailed description of the parameters refer to LCD section of this manual.



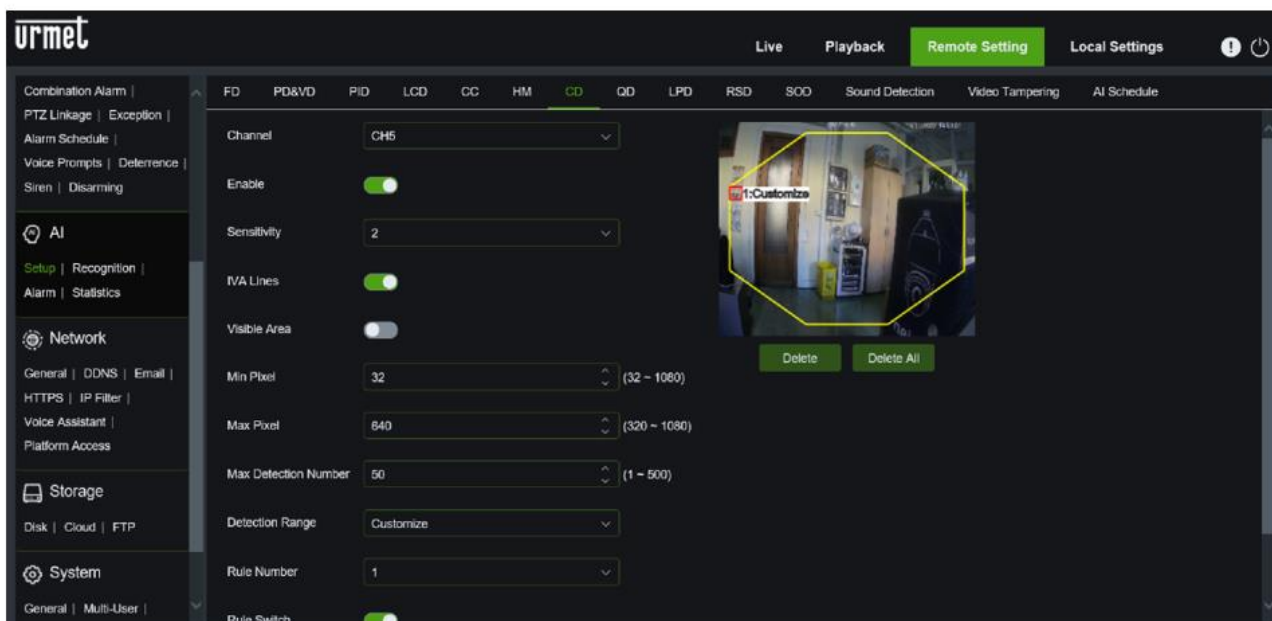
Cross Counting: For a detailed description of the parameters refer to CC section of this manual.



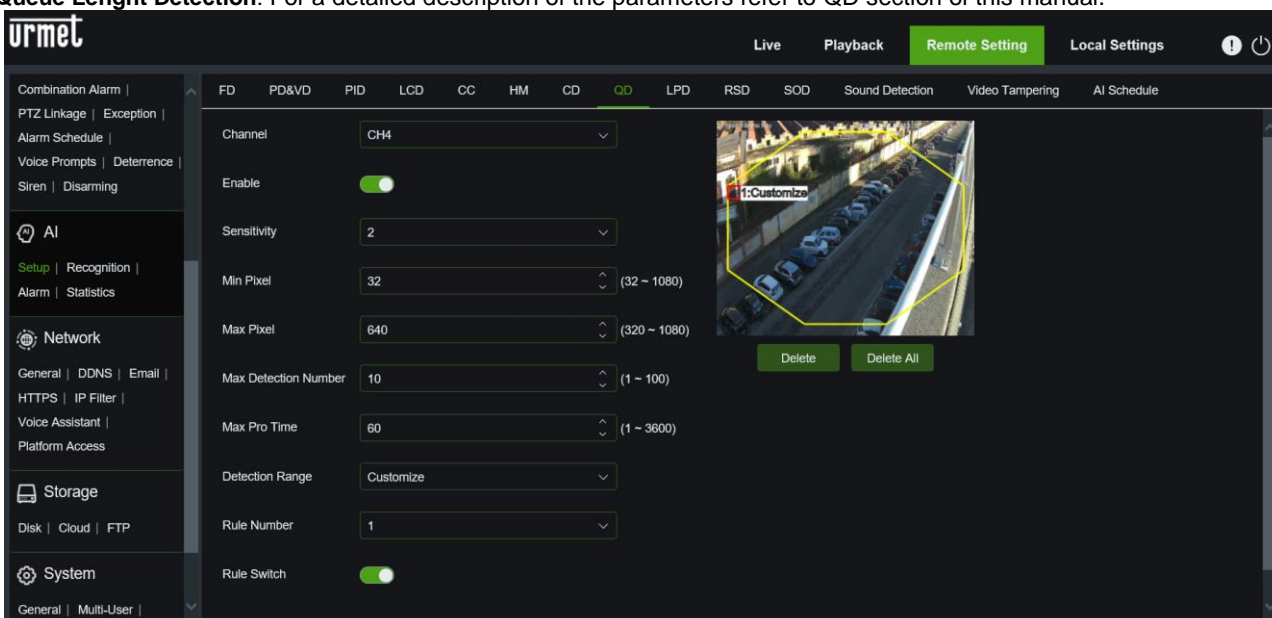
Heat Map: For a detailed description of the parameters refer to HM section of this manual.



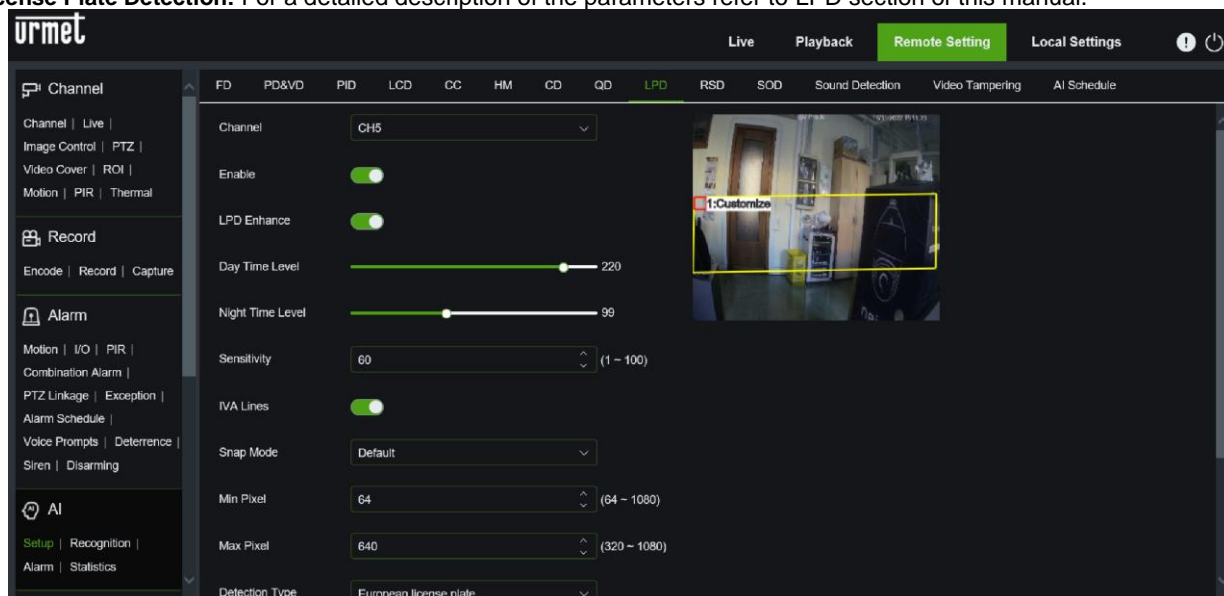
Crowd Density Detection: For a detailed description of the parameters refer to CD section of this manual.



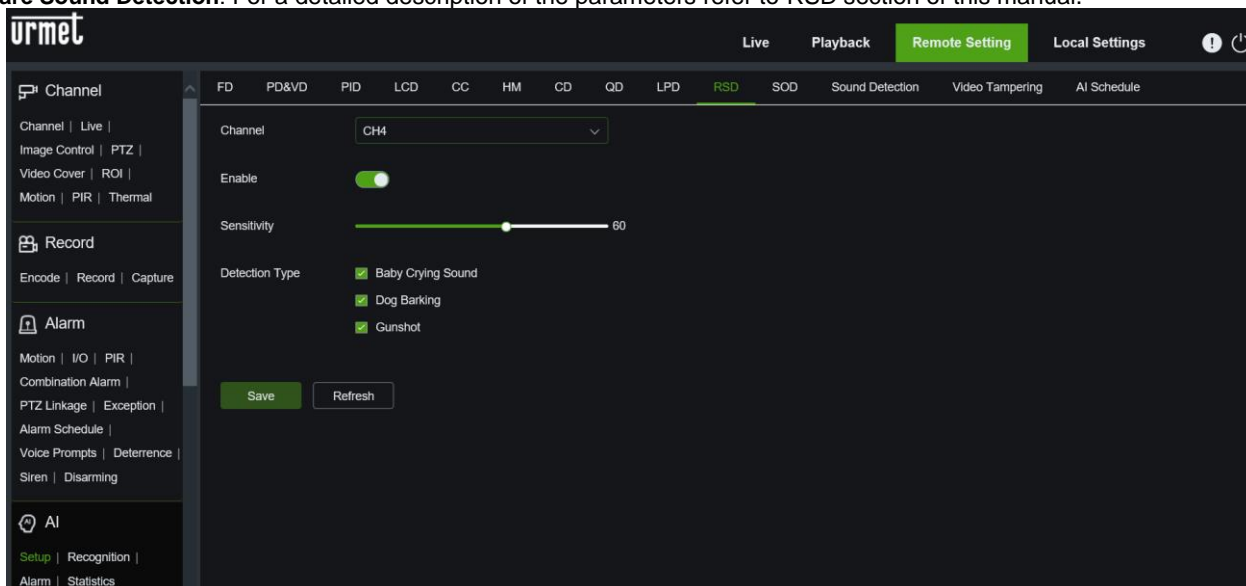
Queue Length Detection: For a detailed description of the parameters refer to QD section of this manual.



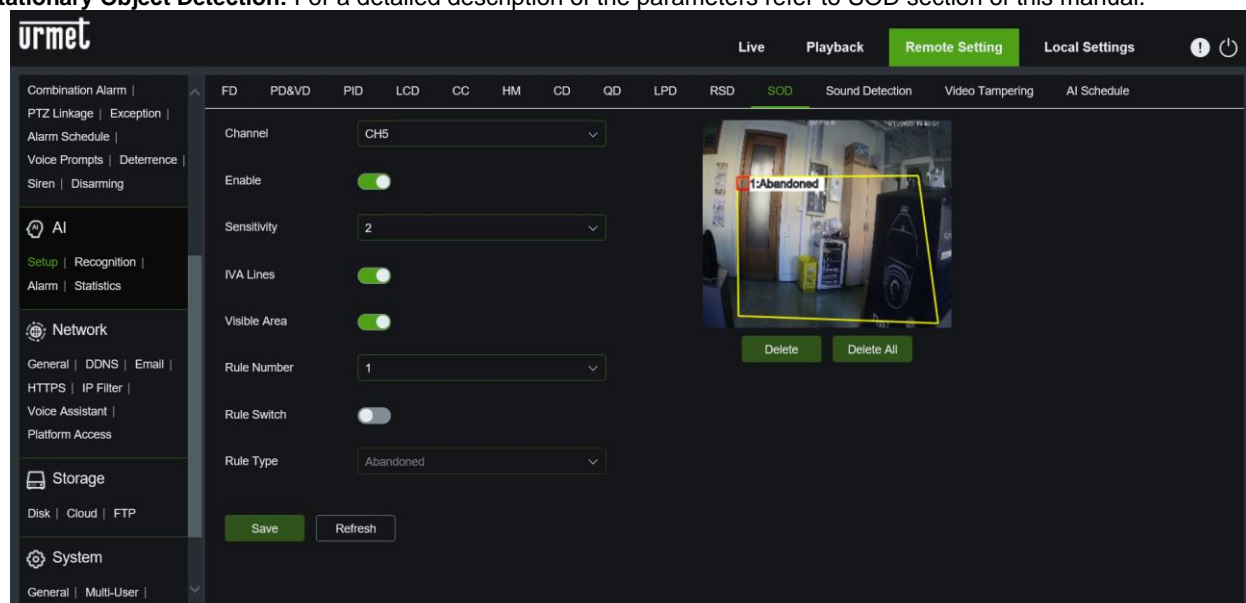
License Plate Detection: For a detailed description of the parameters refer to LPD section of this manual.



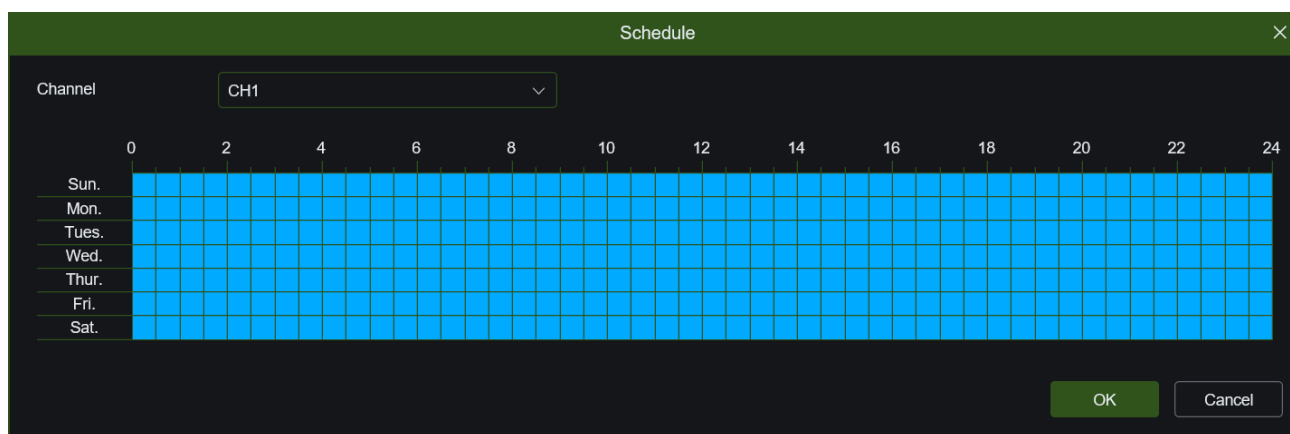
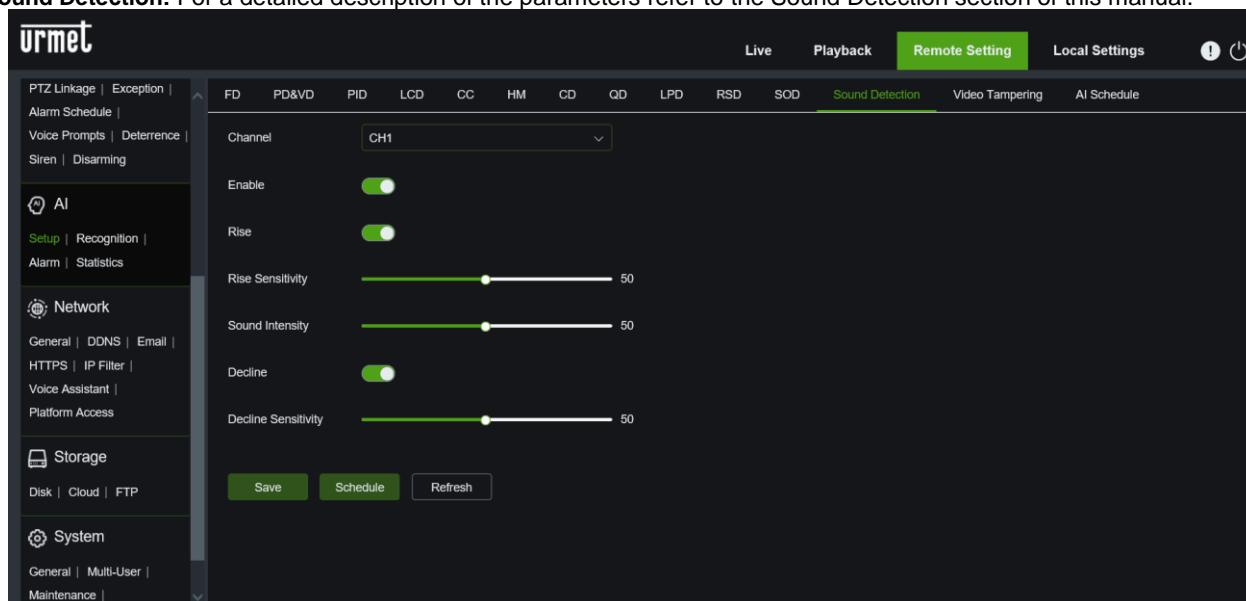
Rare Sound Detection: For a detailed description of the parameters refer to RSD section of this manual.



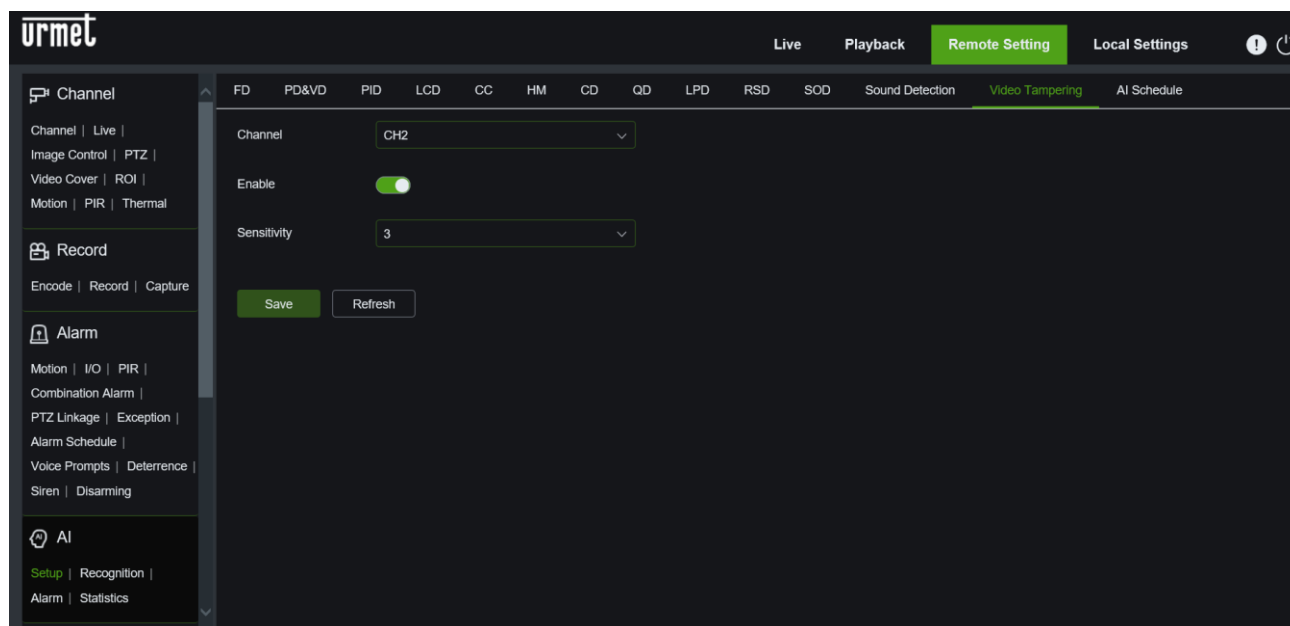
Stationary Object Detection: For a detailed description of the parameters refer to SOD section of this manual.



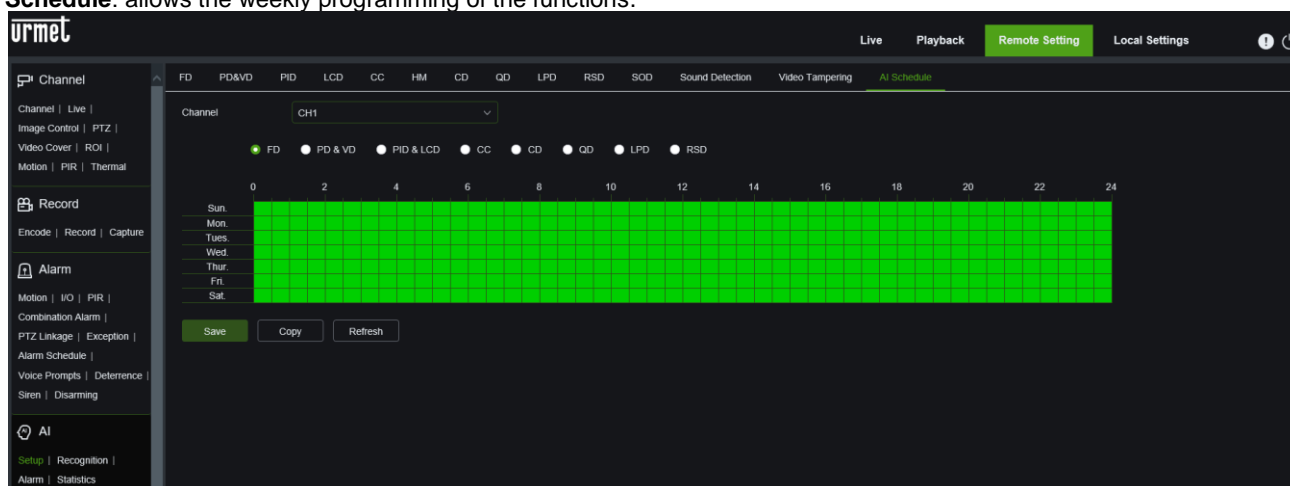
Sound Detection: For a detailed description of the parameters refer to the Sound Detection section of this manual.



Video Tampering: For a detailed description of the parameters refer to the Video Tampering section of this manual.

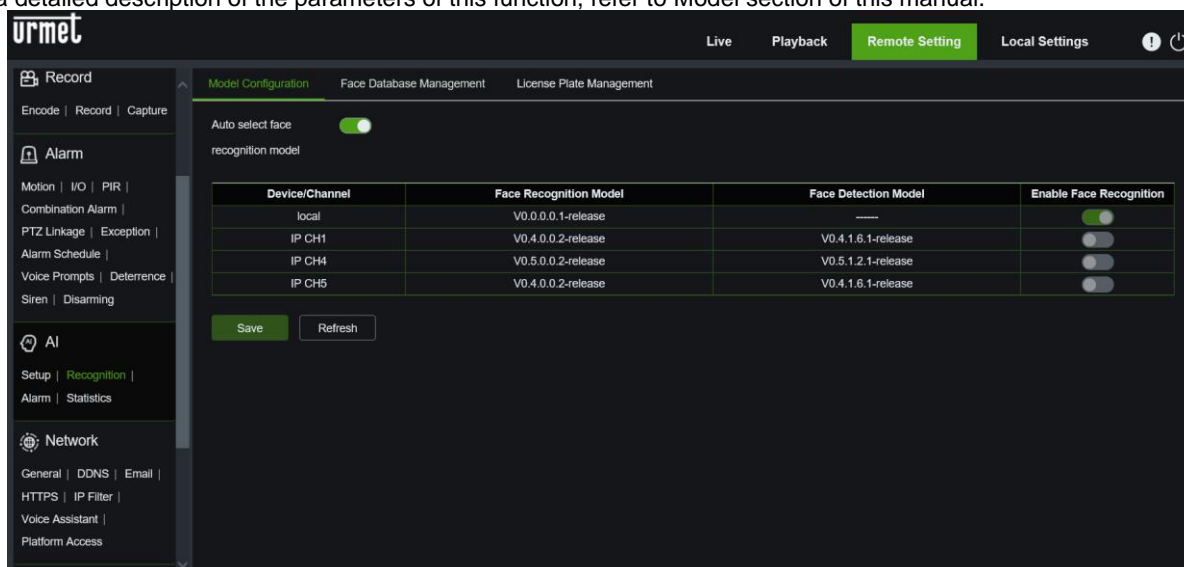


Schedule: allows the weekly programming of the functions.

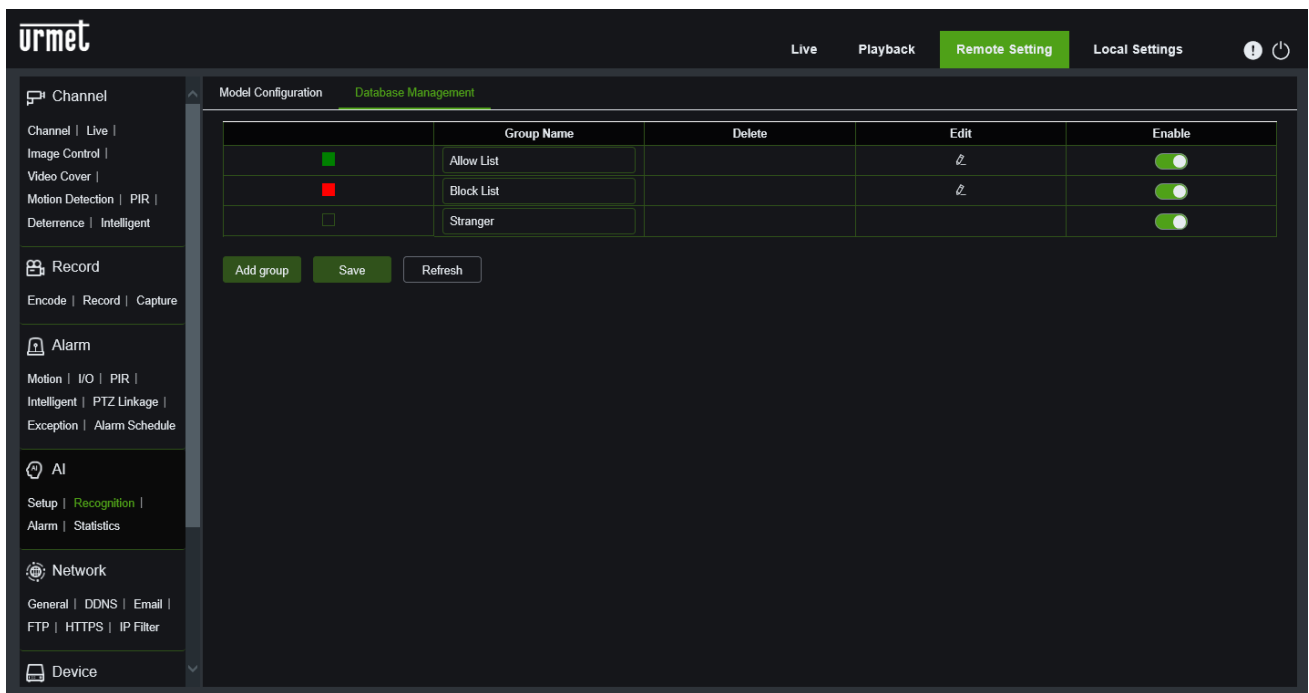


5.6.4.2 Recognition

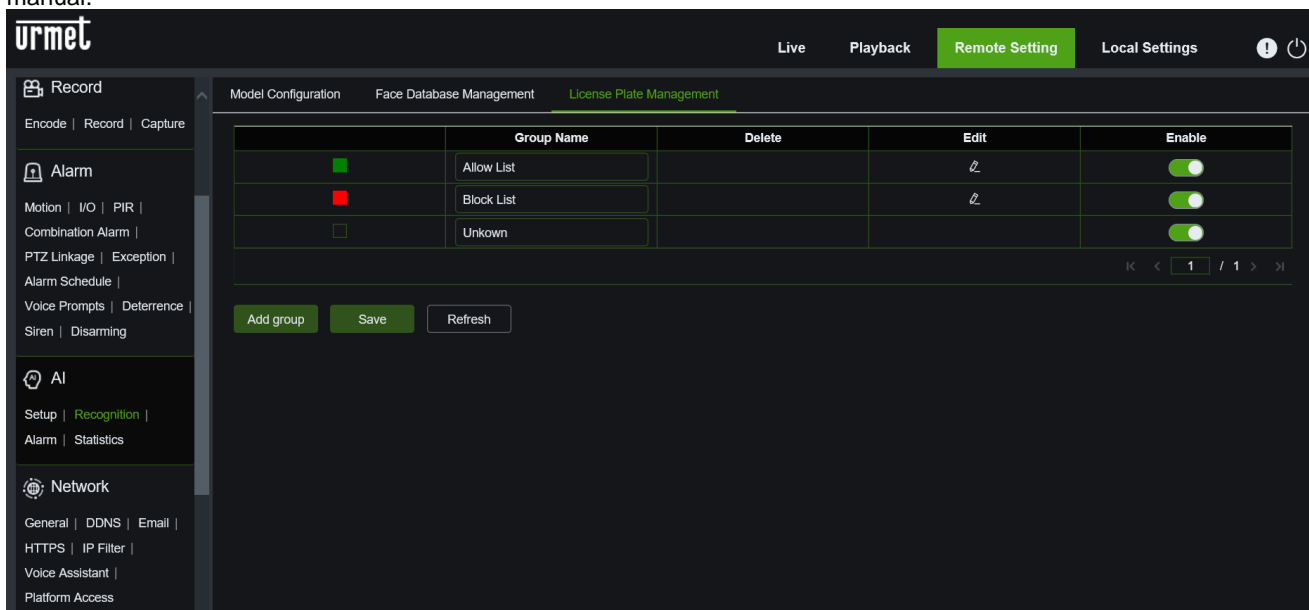
Model Configuration: This section describes the features of the devices which are performing the intelligent analysis. For a detailed description of the parameters of this function, refer to Model section of this manual.



Database Management: This section describes the features of the devices which are performing the intelligent analysis. For a detailed description of the parameters of this function, refer to Data management section of this manual.



License Plate Management: This section describes the features of devices that perform licence plate reading. For a detailed description of the parameters of this functionality please refer to the License Plate Management section of this manual.



5.6.4.3 Alarm: This section defines the parameters for **Alarms** (Buzzer, Latch Time, Post Recoding etc.) for AI functions. For a detailed description of the parameters of this function, refer to **Alarm** section this manual.

Face Detection: this section describes the possible actions related to facial recognition. For a detailed description of the parameters of this function, refer to Alarm section of this manual.

Channel

Channel | Live |
Image Control | PTZ |
Video Cover | ROI |
Motion | PIR | Thermal

Record

Encode | Record | Capture

Alarm

Motion | I/O | PIR |
Combination Alarm |
PTZ Linkage | Exception |
Alarm Schedule |
Voice Prompts | Deterrence |
Siren | Disarming

AI

Setup | Recognition |
Alarm | Statistics

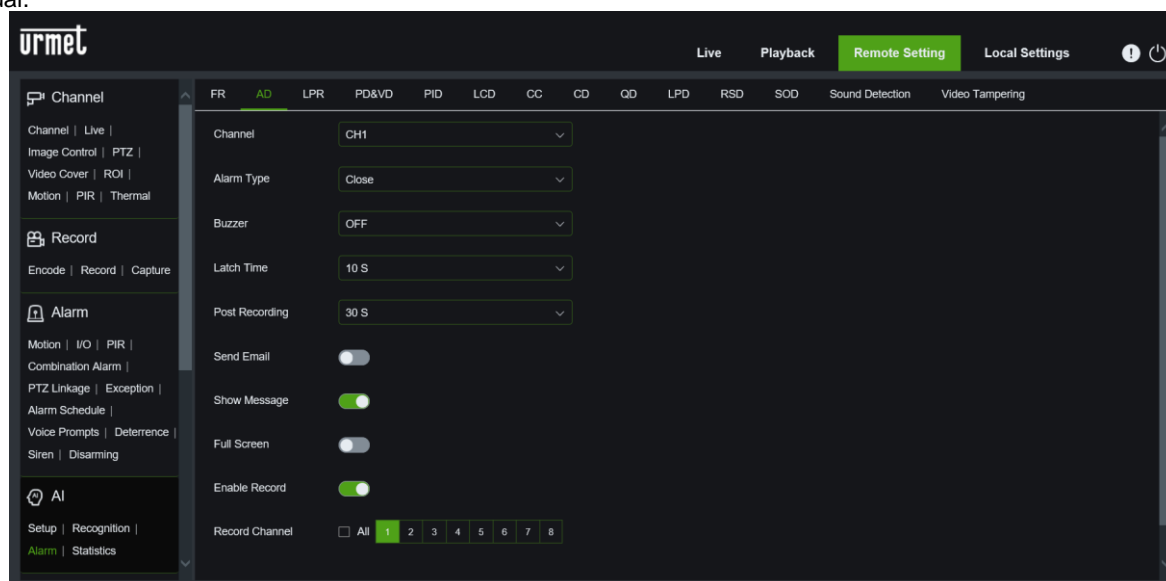
FR AD LPR PD&VD PID LCD CC CD QD LPD RSD SOD Sound Detection Video Tampering

	Group Name	Enable	Policy	Similarity		Alarm	Alarm Schedule	Alarm Channel
	Lista Consenti		Allow	≥	70 %			
	Lista Vietati		Deny	≥	70 %			
	Sconosciuto		Stranger	<	70 %			

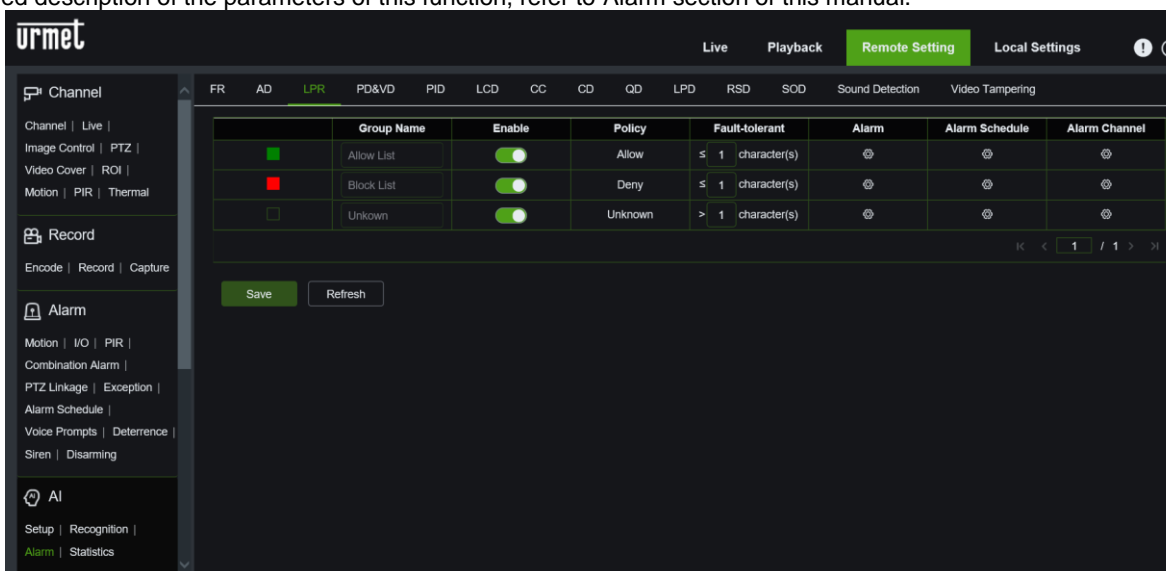
1 / 1

Save Refresh

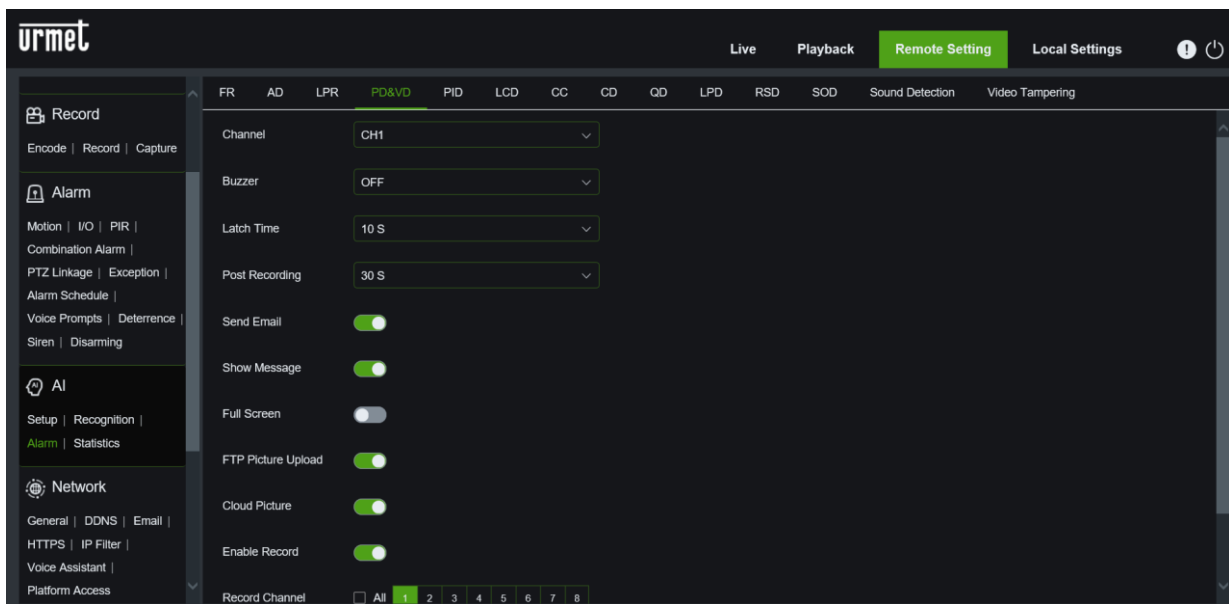
Attribute Detection: this section describes the possible actions related to the recognition of some facial features (eg presence or absence of the mask). For a detailed description of the parameters of this function, refer to Alarm section of this manual.



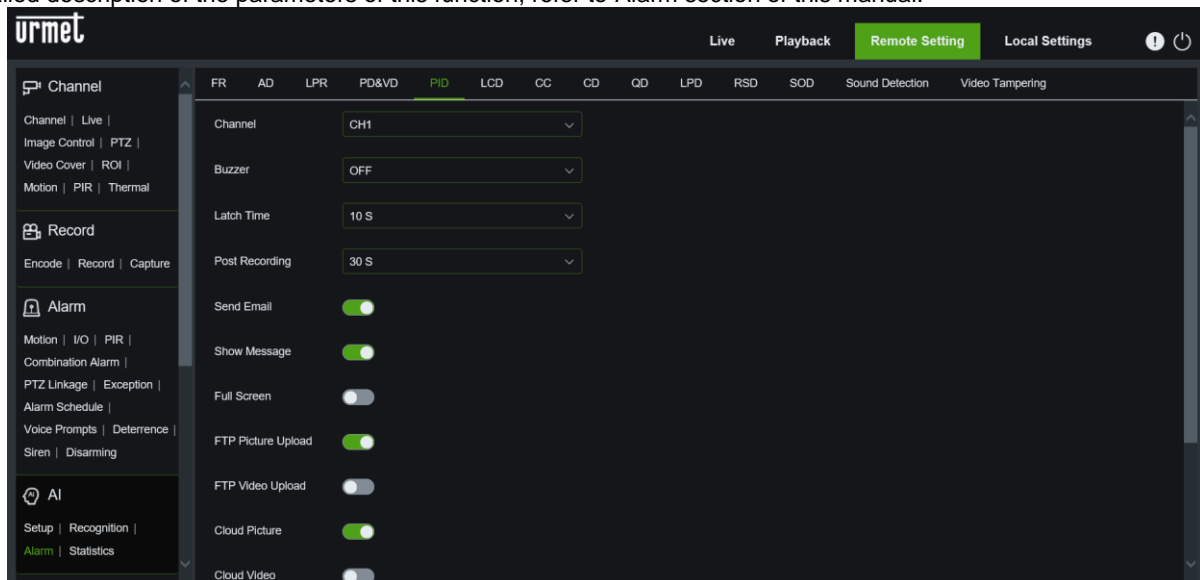
License Plate Recognition: this section describes the possible actions related to the recognition of license plate. For a detailed description of the parameters of this function, refer to Alarm section of this manual.



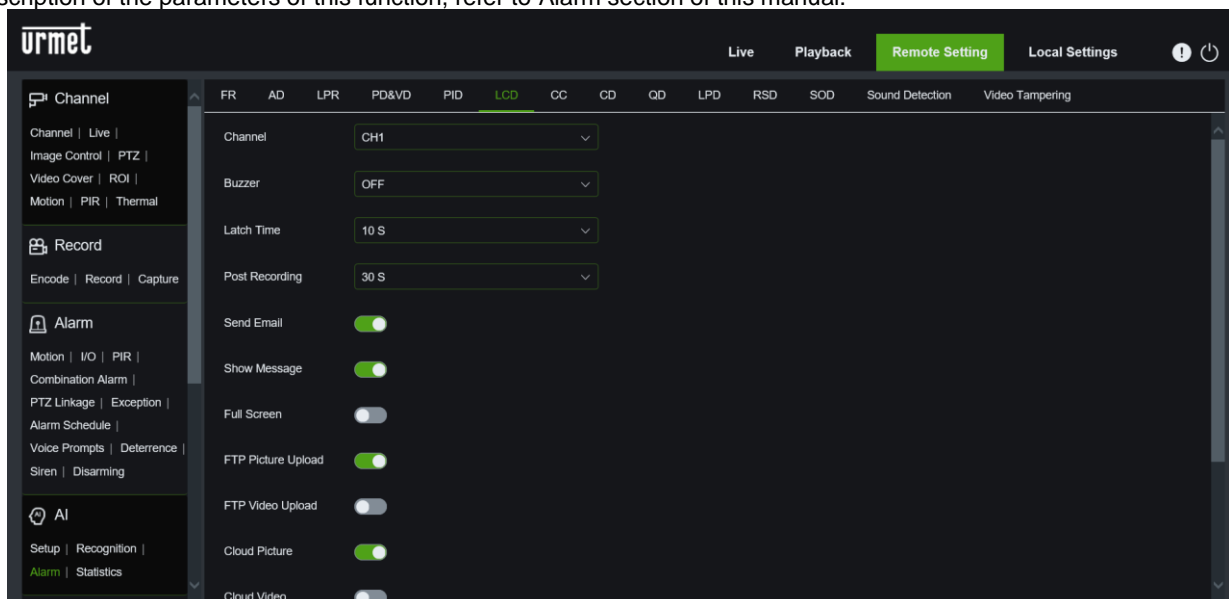
Pedestrian and Vehicle Detection: this section describes the possible actions related to human or vehicle recognition. For a detailed description of the parameters of this function, refer to Alarm section of this manual.



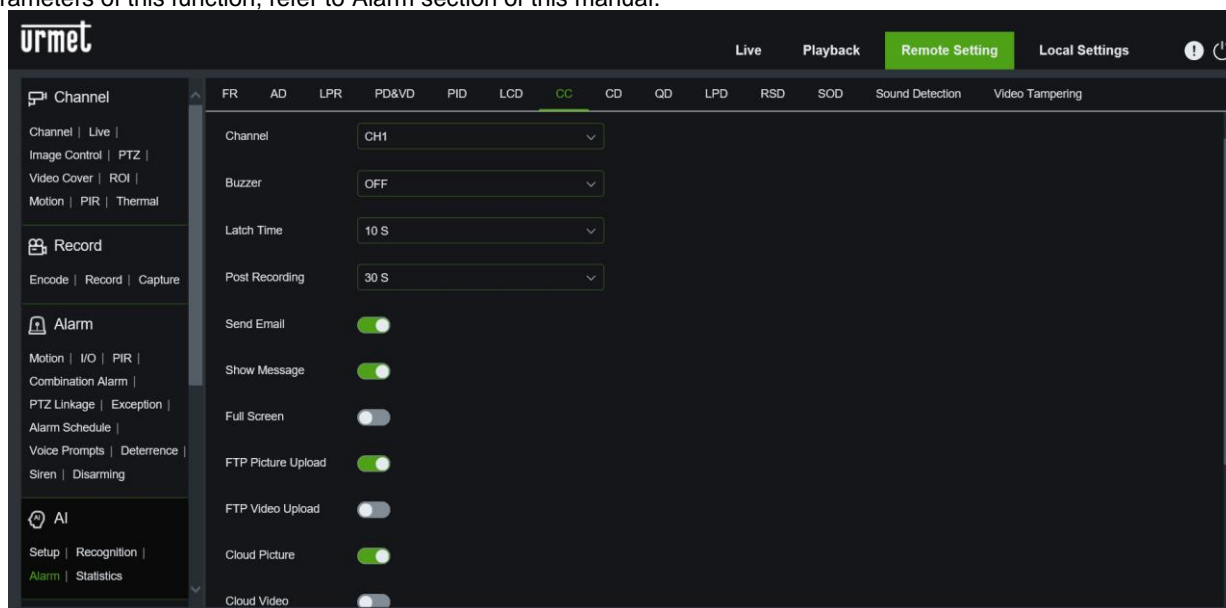
Perimeter Intrusion Detection: this section describes the possible actions related to perimeter intrusion events. For a detailed description of the parameters of this function, refer to Alarm section of this manual.



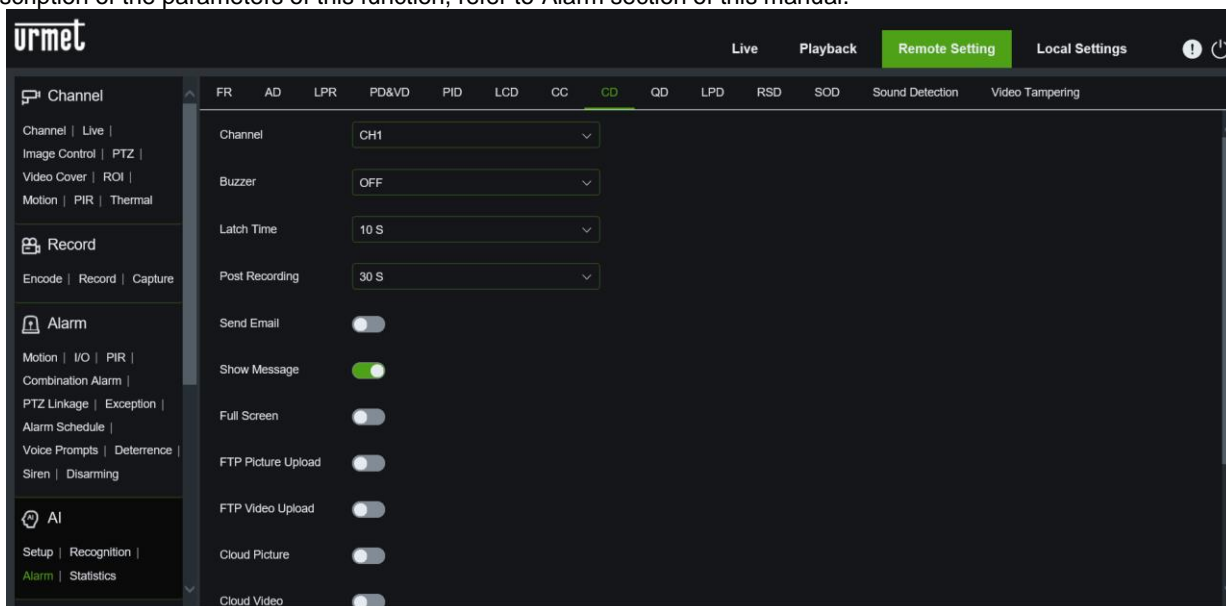
Line Crossing Detection: this section describes the possible actions related to line crossing events. For a detailed description of the parameters of this function, refer to Alarm section of this manual.



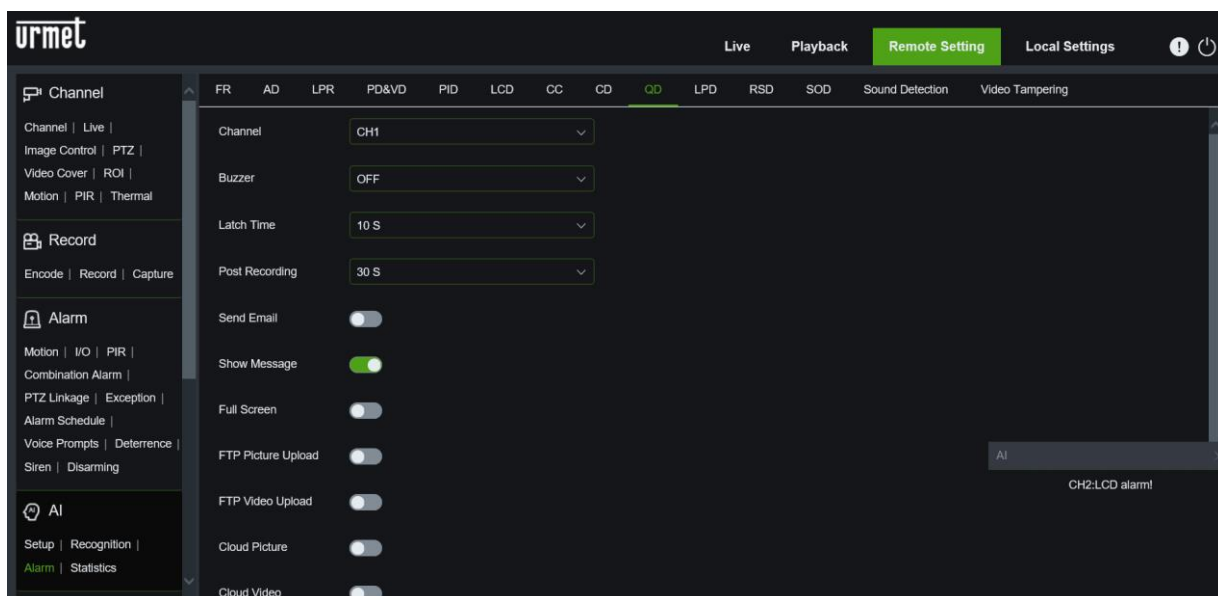
Cross Counting: this section describes the possible actions related to line crossing events. For a detailed description of the parameters of this function, refer to Alarm section of this manual.



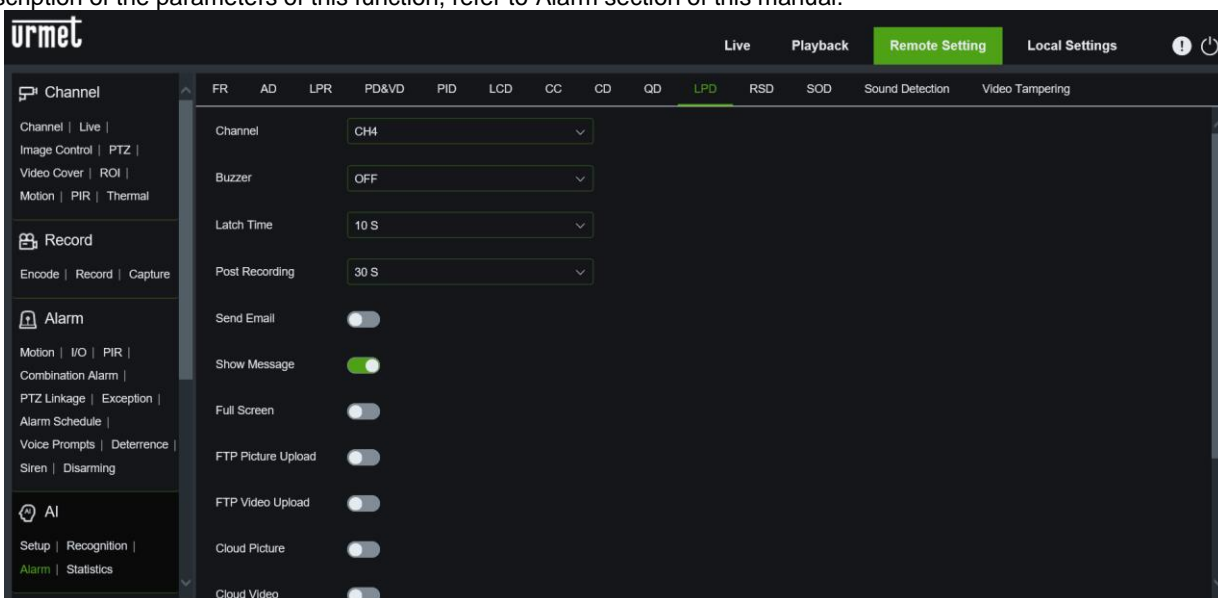
Crowd Density Detection: this section describes the possible actions related to crowd detection events. For a detailed description of the parameters of this function, refer to Alarm section of this manual.



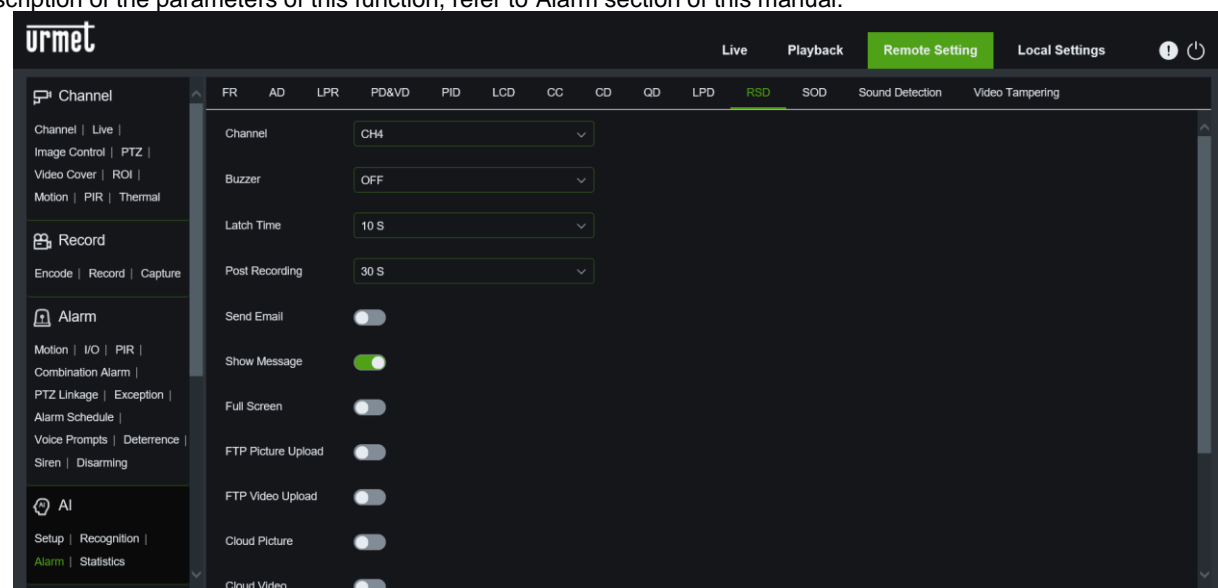
Queue Length Detection: this section describes the possible actions related to queue detection events. For a detailed description of the parameters of this function, refer to Alarm section of this manual.



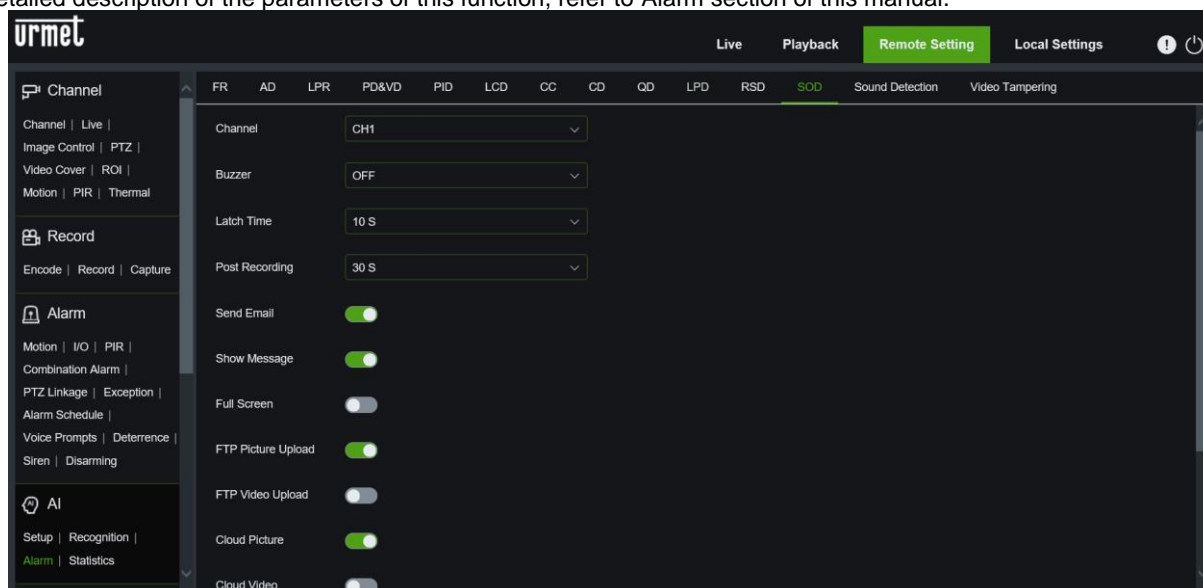
License Plate Detection: this section describes the possible actions related to license plate detection events. For a detailed description of the parameters of this function, refer to Alarm section of this manual.



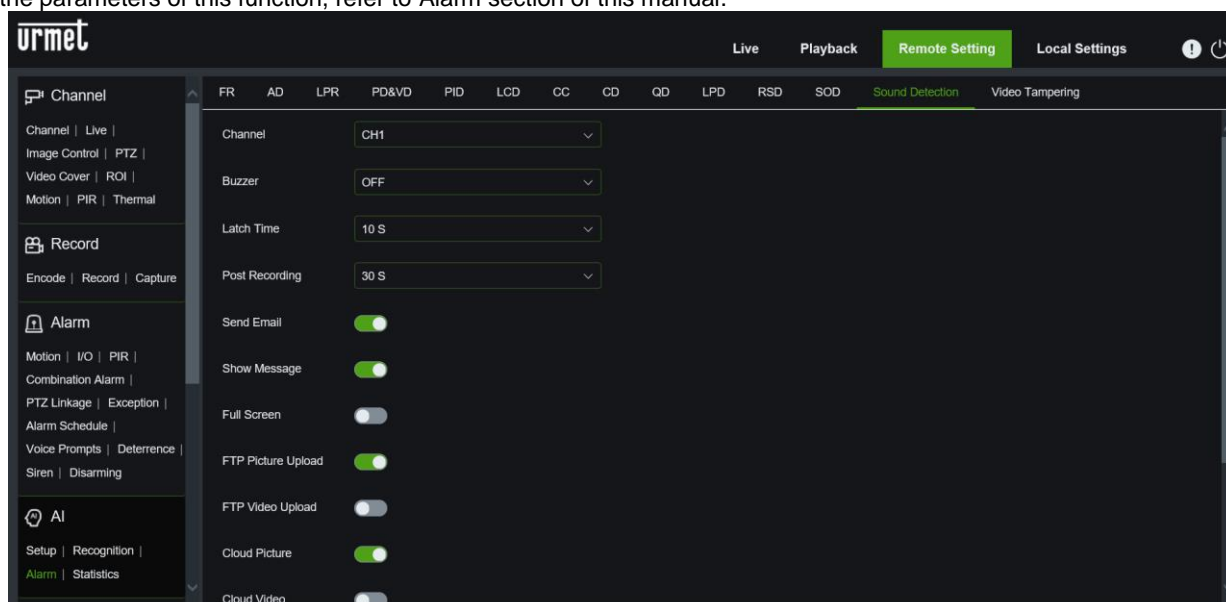
Rare Sound Detection: this section describes the possible actions related to rare sound detection events. For a detailed description of the parameters of this function, refer to Alarm section of this manual.



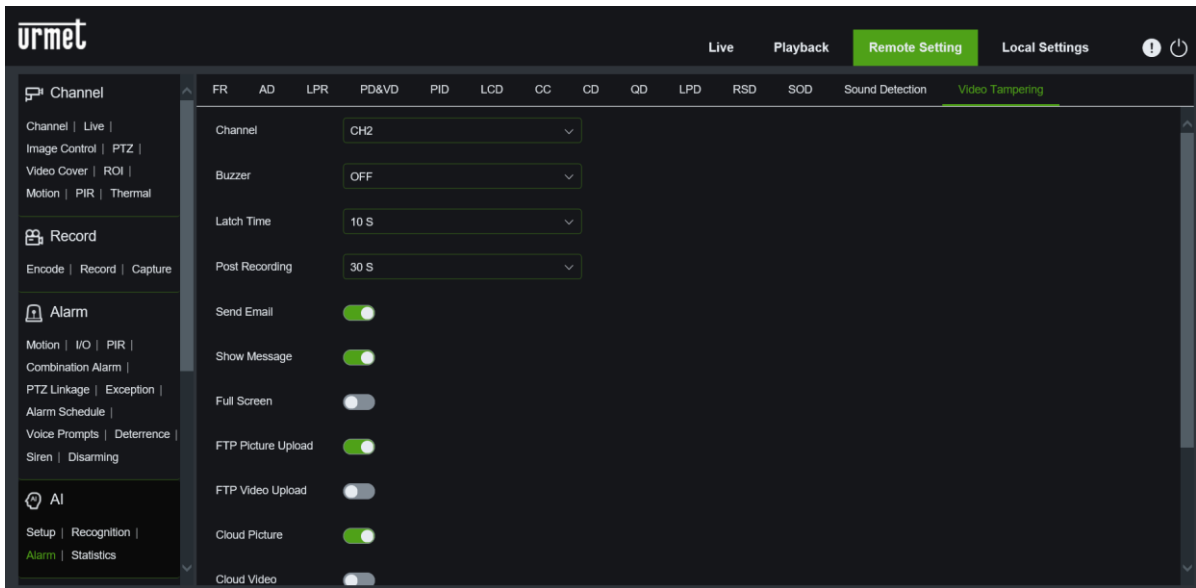
Stationary Object Detection: this section describes the possible actions related to stationary object detection events. For a detailed description of the parameters of this function, refer to Alarm section of this manual.



Sound Detection: this section describes the possible actions related to sound detection events. For a detailed description of the parameters of this function, refer to Alarm section of this manual.



Video Tampering: this section describes the possible actions related to video tampering events. For a detailed description of the parameters of this function, refer to Alarm section of this manual.

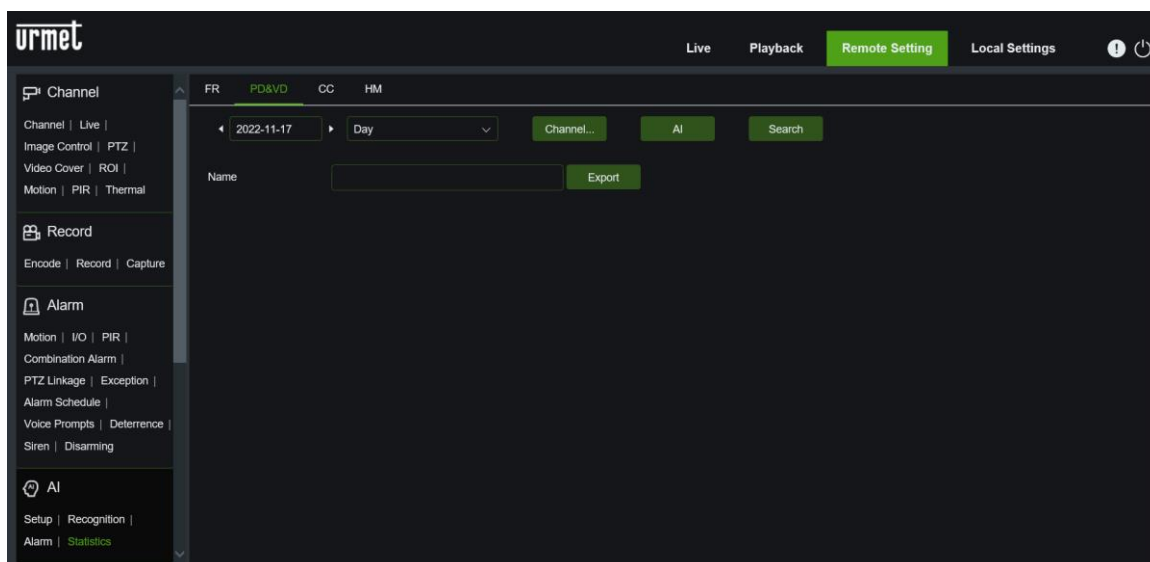


5.6.4.4 Statistics: in this section the statistics of various functionalities are implemented. For a detailed description of the parameters of this function, refer to statistics section of this manual.

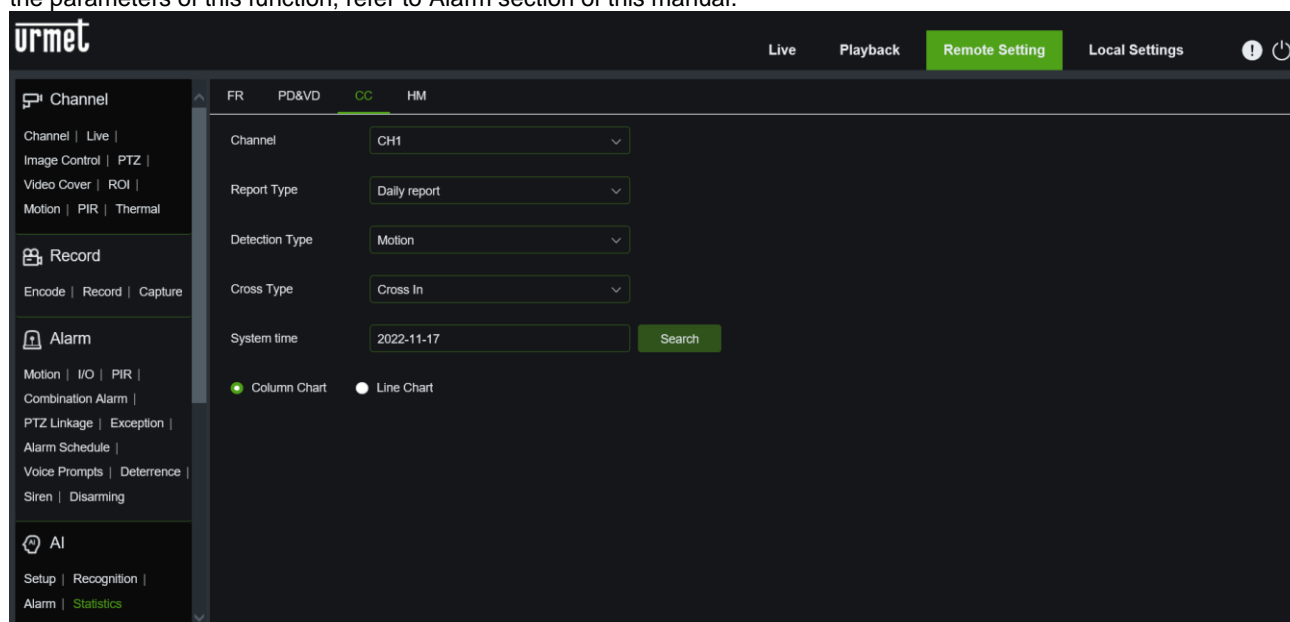
Face Detection: this section describes the statistics related to facial recognition. For a detailed description of the parameters of this function, refer to statistics section of this manual.



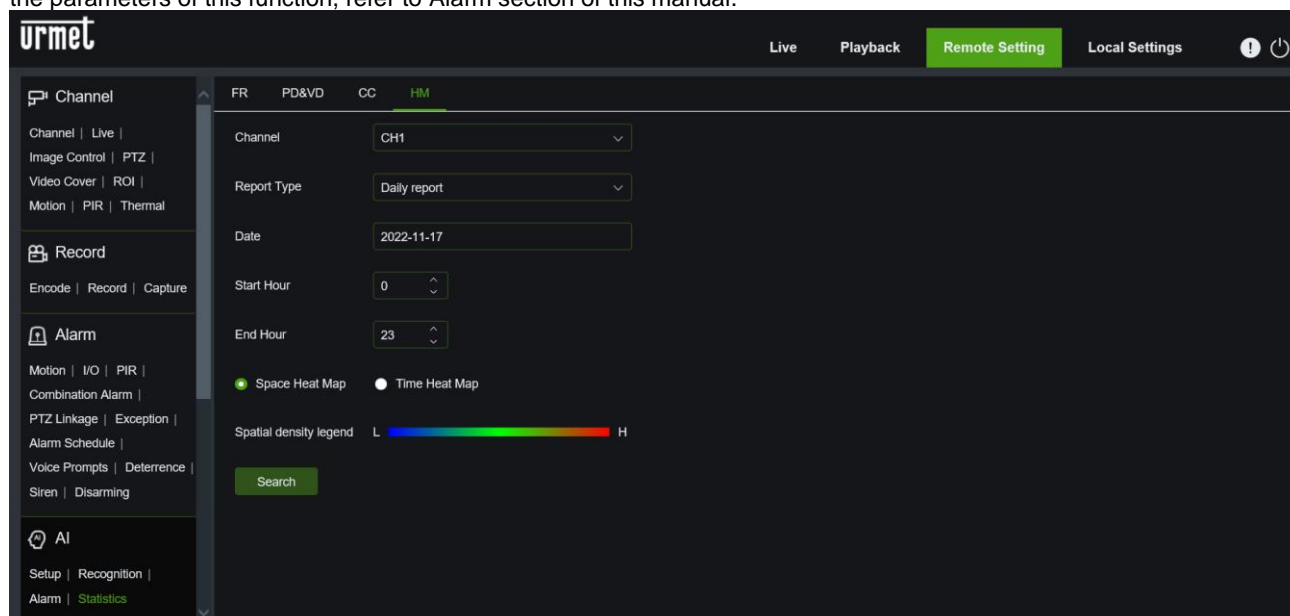
Pedestrian & Vehicle Detection: this section describes the statistics related to human or vehicle recognition. For a detailed description of the parameters of this function, refer to Alarm section of this manual.



Cross Counting Statistics: this section describes the statistics related to line crossing events. For a detailed description of the parameters of this function, refer to Alarm section of this manual.



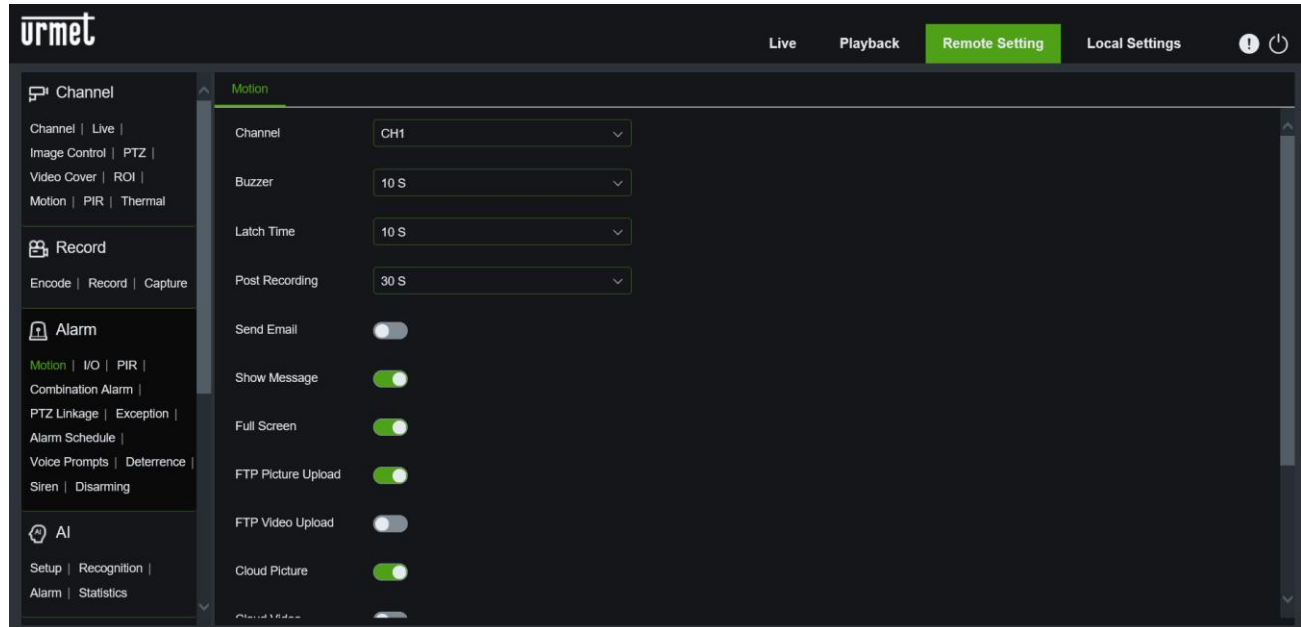
Heat Map Statistics: this section describes the statistics related to the heat map functionality. For a detailed description of the parameters of this function, refer to Alarm section of this manual.



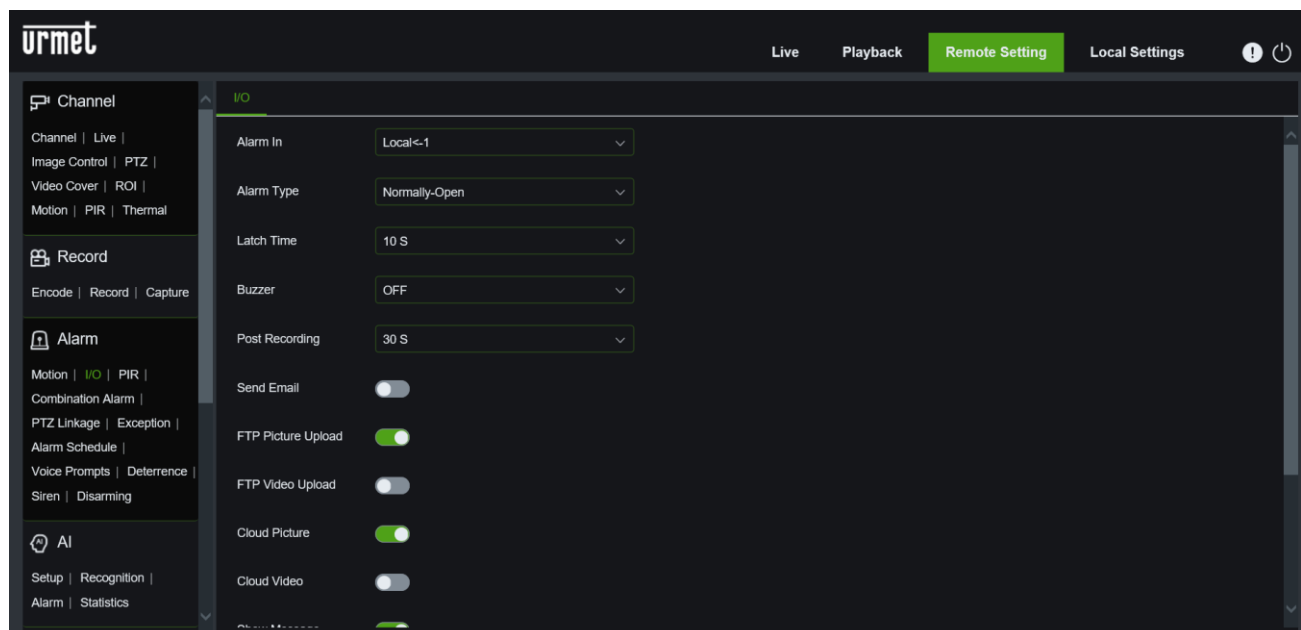
5.6.5 ALARM SET (ALLARME)

The notifications can be set (e.g. Buzzer, Latch Time, Post Recording, Send Email, Show Message, Full Screen, FTP Picture/Video Upload, Cloud Picture/Video Upload, Record Channel) for events such as Motion, PIR, IO Alarm, Intelligent Analysis Events, PTZ Linkage, Exception, Alarm Schedule. The detailed parameters must be coherent with the local setting of the NVR.

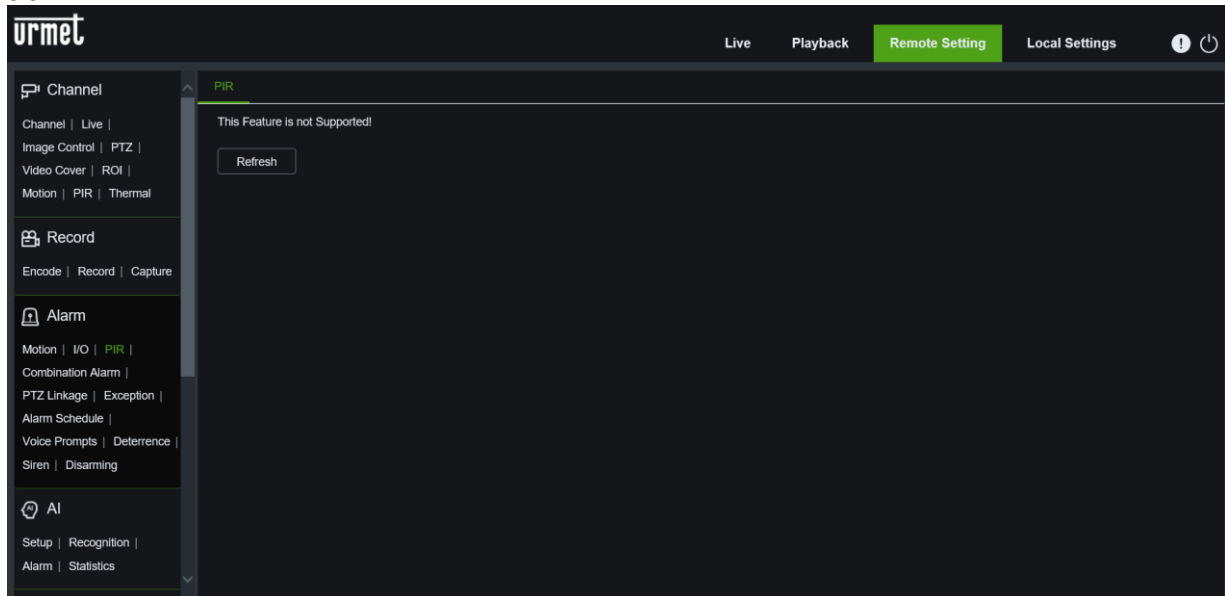
5.6.5.1 Motion



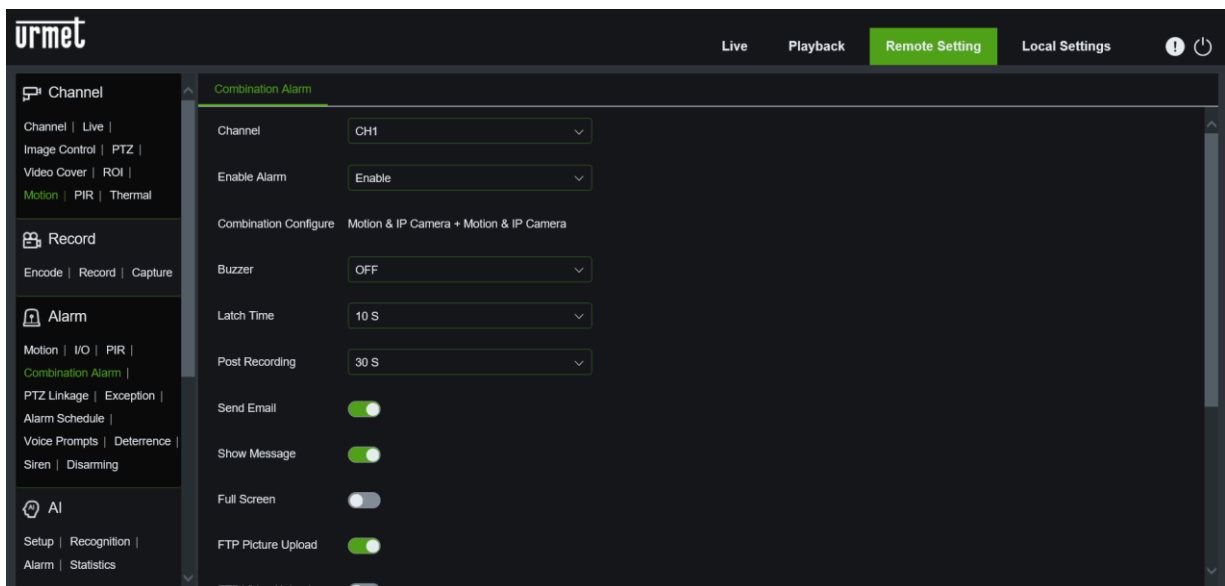
5.6.5.2 I/O



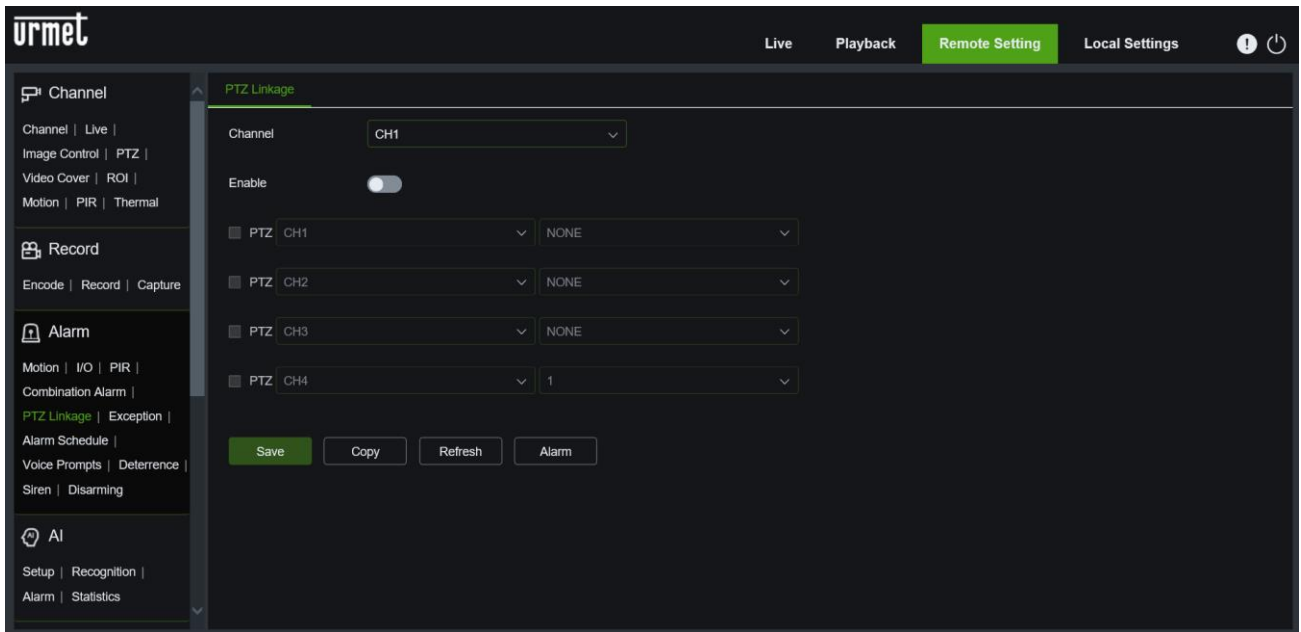
5.6.5.3 PIR



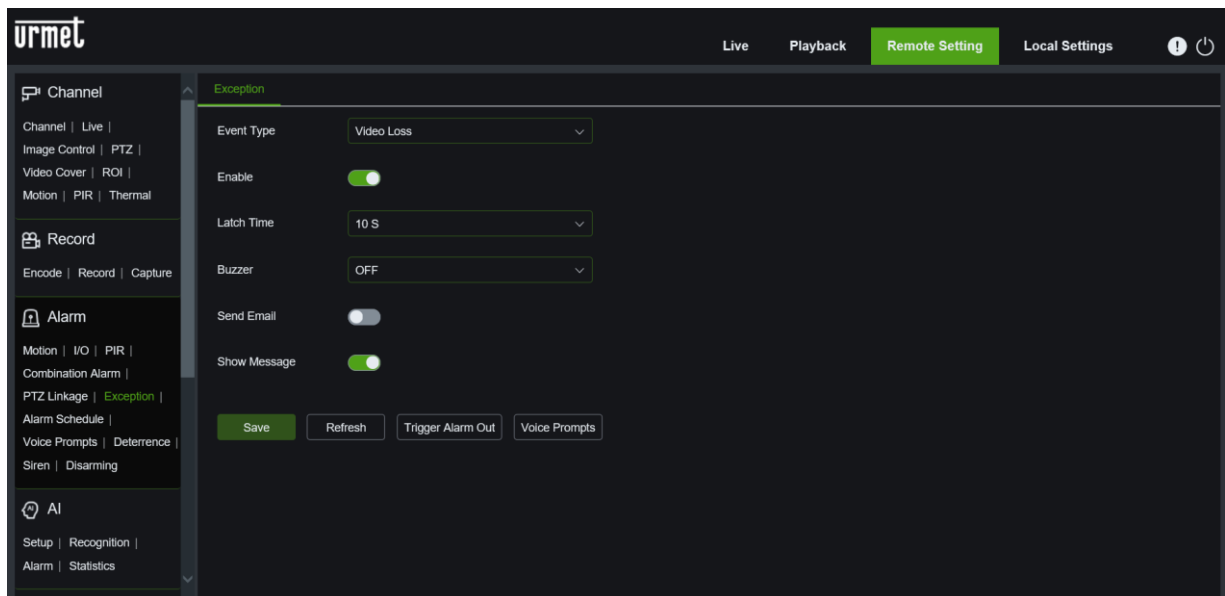
5.6.5.4 Combination Alarm



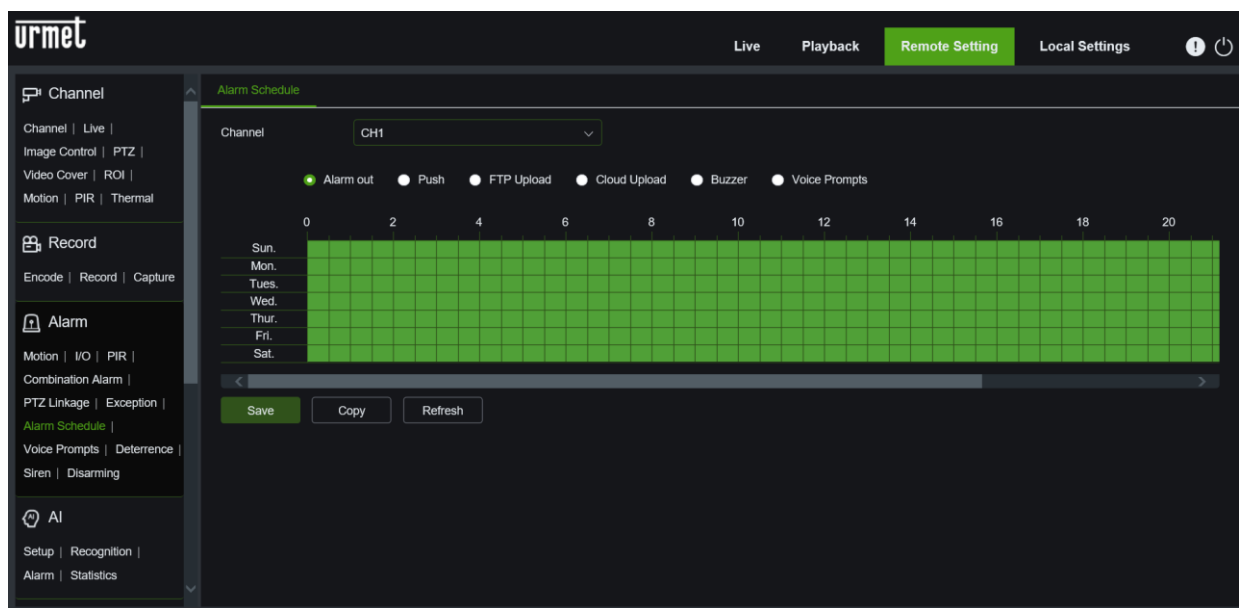
5.6.5.5 PTZ Linkage



5.6.5.6 Exception

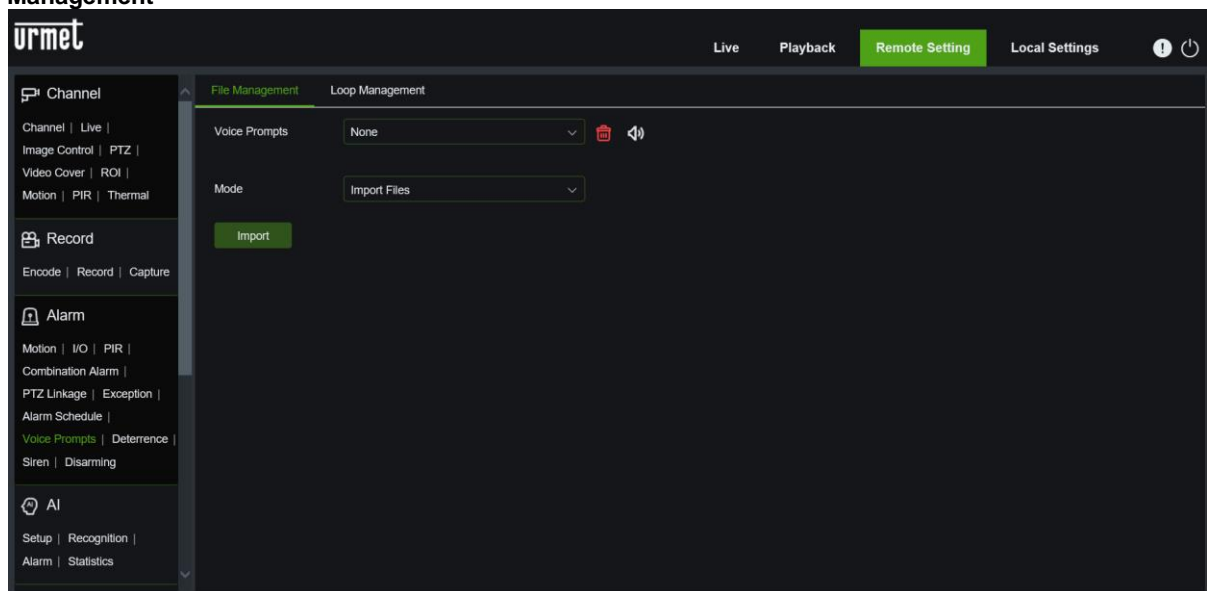


5.6.5.7 Alarm Schedule

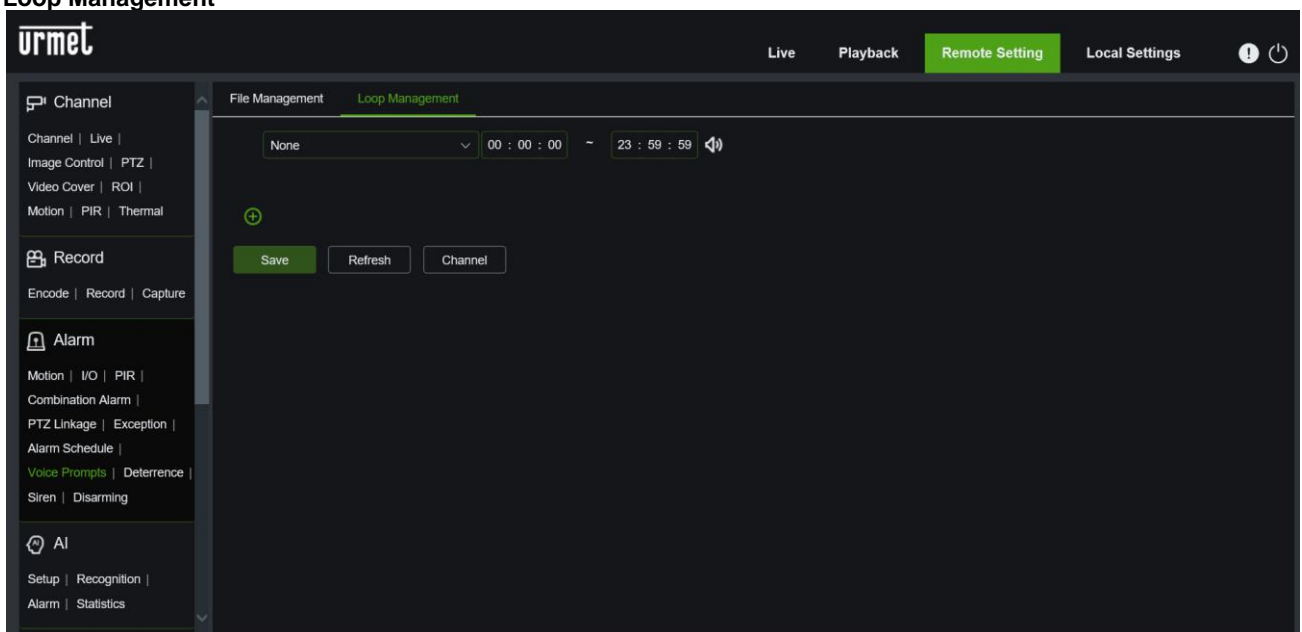


5.6.5.8 Voice Prompts

File Management



Loop Management



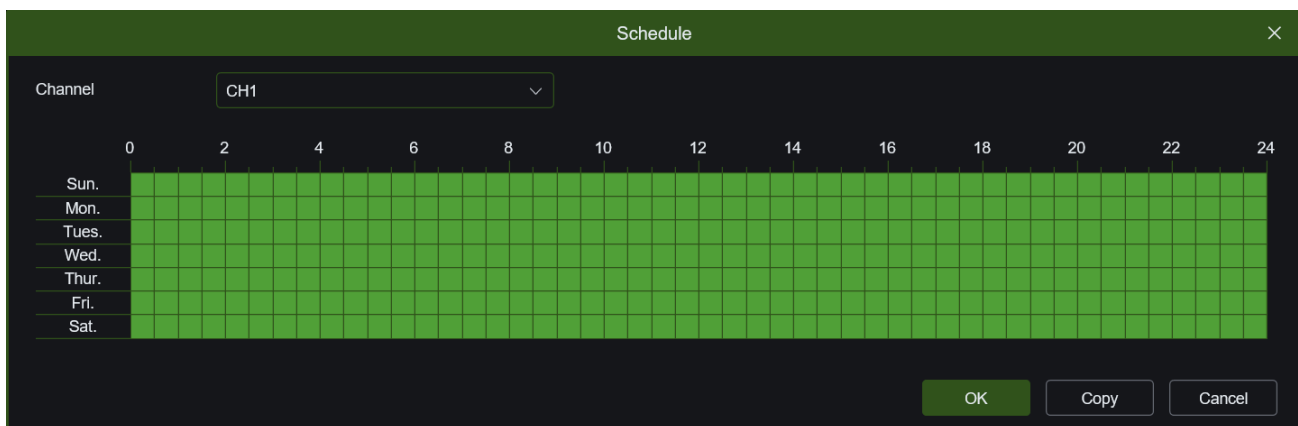
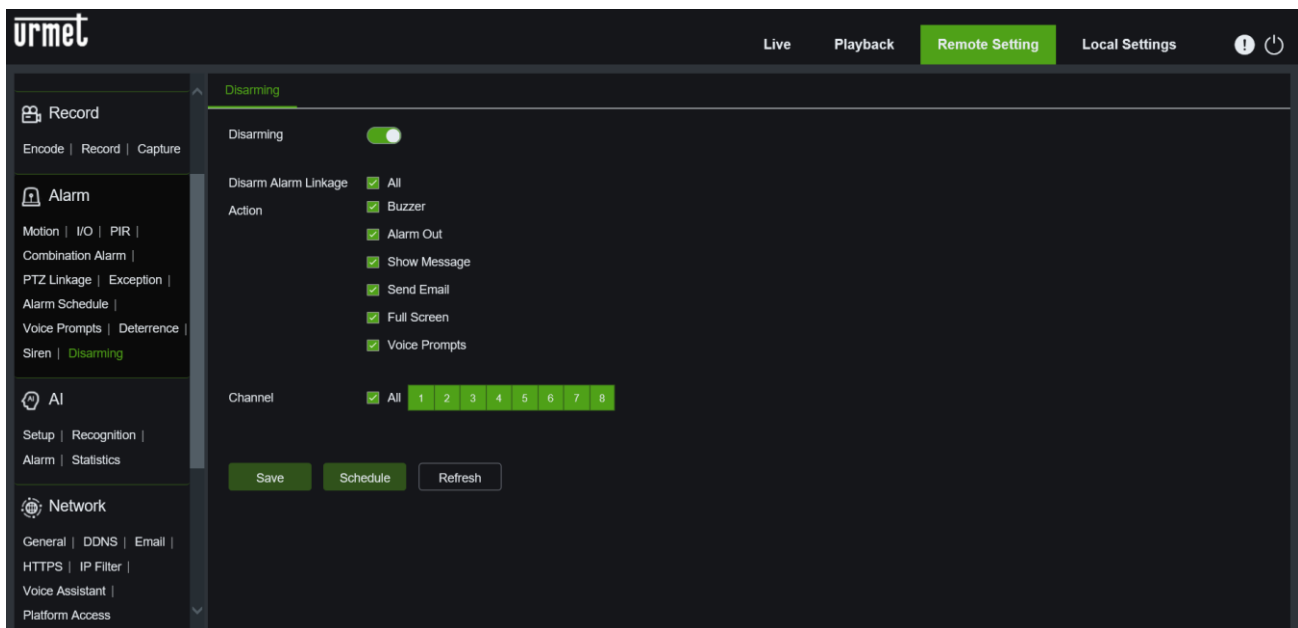
5.6.5.9 Deterrence

The screenshot shows the 'urmet' web interface with the 'Remote Setting' tab selected. The left sidebar contains a menu with 'Record', 'Alarm', 'AI', and 'Network' sections. The 'Alarm' section is expanded, showing 'Deterrence' as the active sub-tab. The main content area is titled 'Deterrence' and includes a 'Channel' dropdown set to 'CH4', a 'Warning Light' toggle switch that is turned on, and a 'Warning Light Duration' dropdown set to '60' with a range of '(5 ~ 180)'. There are 'Save' and 'Refresh' buttons. On the right, there is a live video feed of a street scene with a red grid overlay, and 'Clear' and 'All' buttons below it.

5.6.5.10 Siren

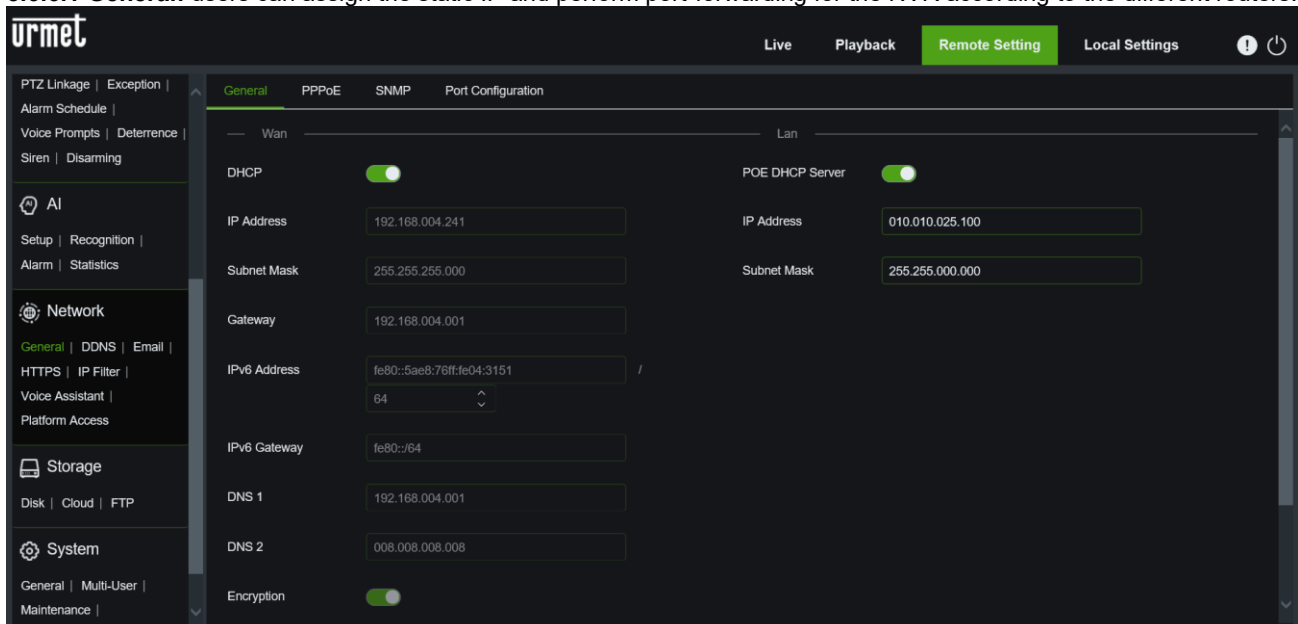
The screenshot shows the 'urmet' web interface with the 'Remote Setting' tab selected. The left sidebar is the same as the previous screenshot, but the 'Siren' sub-tab is selected under the 'Alarm' section. The main content area is titled 'Siren' and includes a 'Channel' dropdown set to 'CH4', a 'Siren' toggle switch that is turned on, a 'Siren Level' slider set to 5, and a 'Siren Duration' dropdown set to '10' with a range of '(5 ~ 180)'. There are 'Save', 'Siren Schedule', and 'Refresh' buttons.

5.6.5.11 Disarming



5.6.6 NETWORK

5.6.6.1 General: users can assign the static IP and perform port-forwarding for the NVR according to the different routers.



PPPoE: the user can enable the relevant network protocol by setting its parameters. This is an advanced protocol that allows the NVR to connect to the network more directly, via a DSL modem; the user name and password must be consistent with the NVR's local setting.

The screenshot shows the 'urmet' NVR web interface. The top navigation bar includes 'Live', 'Playback', 'Remote Setting' (highlighted), and 'Local Settings'. The left sidebar lists various settings categories: Alarm, AI, Network, and Storage. The main content area is titled 'General', 'PPPoE', 'SNMP', and 'Port Configuration'. The 'PPPoE' tab is selected, displaying the following configuration options:

- Enable PPPOE: ☐ (disabled)
- Username:
- Password:
- IP Address:
- Subnet Mask:
- Gateway:
- DNS 1:
- DNS 2:

At the bottom of the configuration area are 'Save' and 'Refresh' buttons.

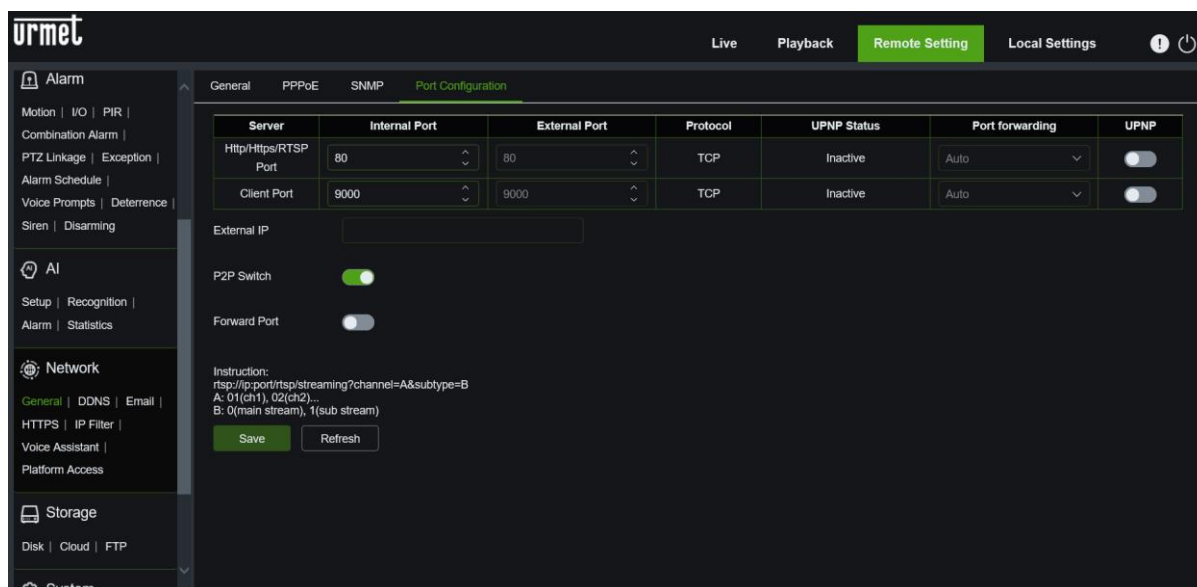
SNMP (SNMP): the user can enable the relevant network protocol by setting its parameters.

The screenshot shows the 'urmet' NVR web interface with the 'SNMP' tab selected. The configuration options are as follows:

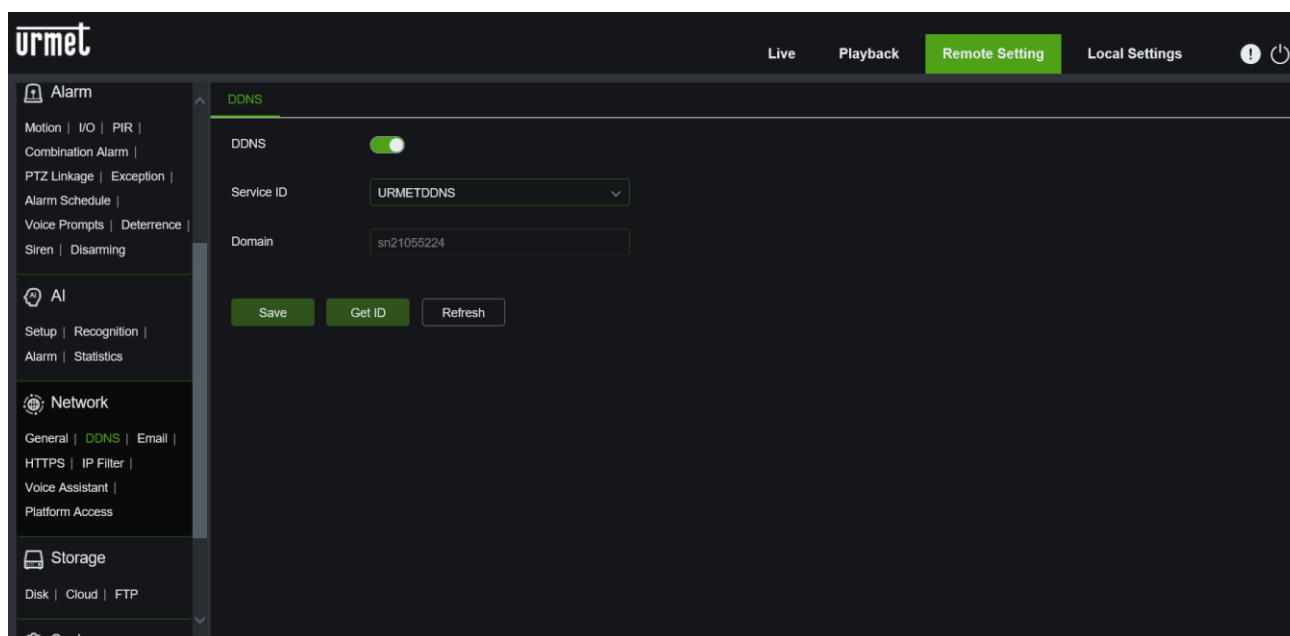
- Enable: ☒ (enabled)
- SNMP Version: (dropdown)
- SNMP Port: (range: 1 ~ 65535)
- Read Community:
- Write Community:
- Trap IP Address:
- Trap Port: (range: 1 ~ 65535)

'Save' and 'Refresh' buttons are located at the bottom of the configuration area.

Port Configuration:

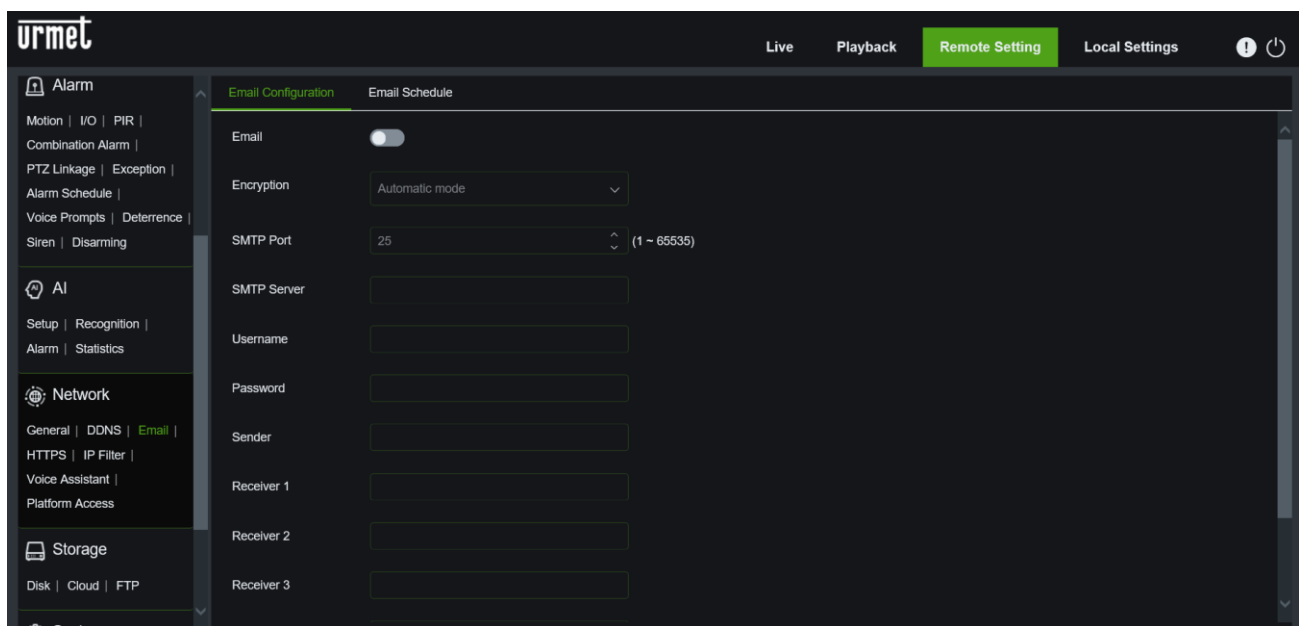


5.6.6.2 DDNS (DDNS): After having the DDNS service (see below), it is possible to enable the <DDNS> function in any network type (Static, DHCP and PPPoE). At this point it is possible to access the NVR via the domain name (http://domain:port No). The detailed parameters must be coherent with the local setting of the NVR.



5.6.6.3 EMAIL

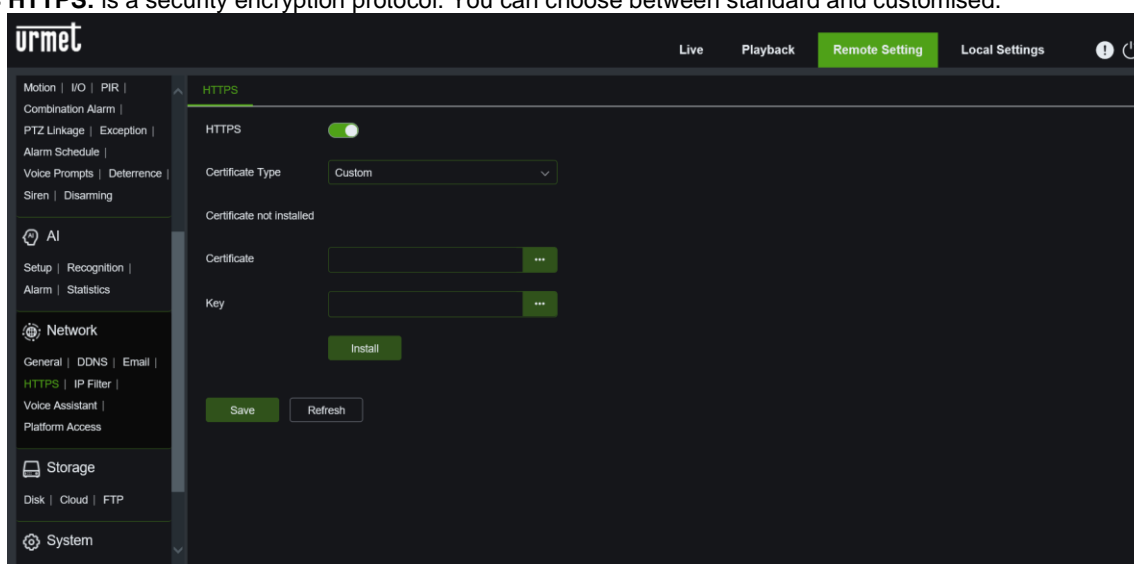
Email Configuration: enter the parameters of your e-mail account to which you will receive alarm notifications and other information. Please refer to your e-mail provider for the data to be entered.



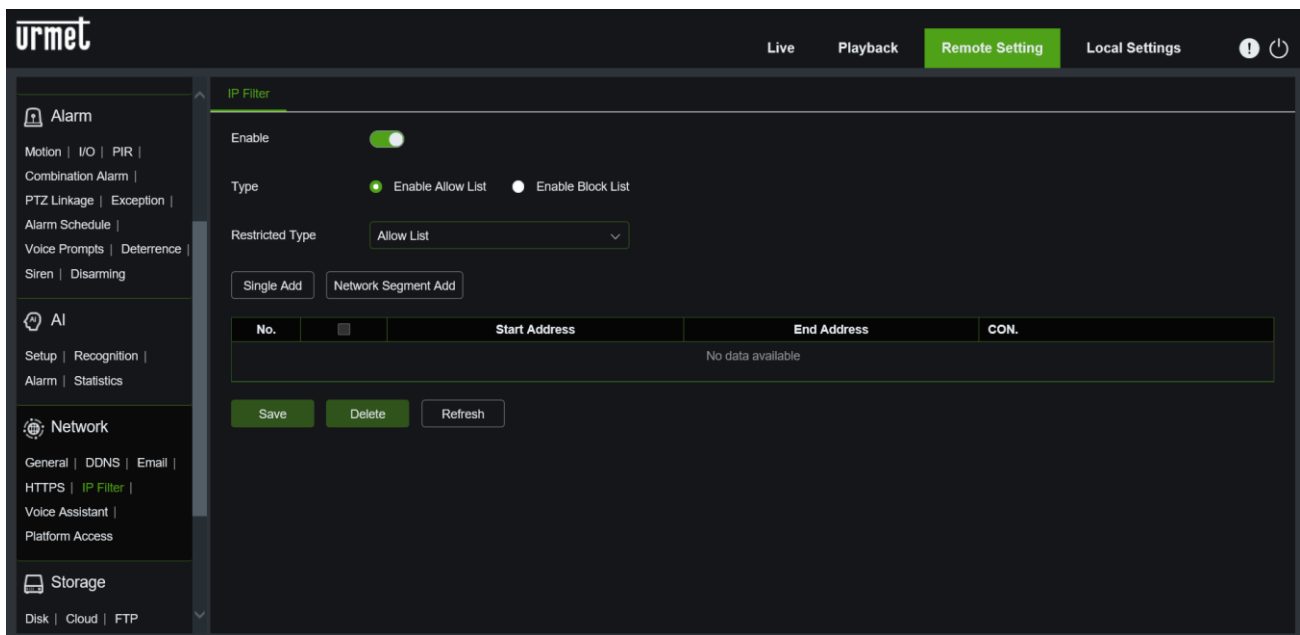
Email Schedule: you can plan on time slots and on the basis of the type of event detected to send the e-mail.



5.6.6.4 HTTPS: is a security encryption protocol. You can choose between standard and customised.

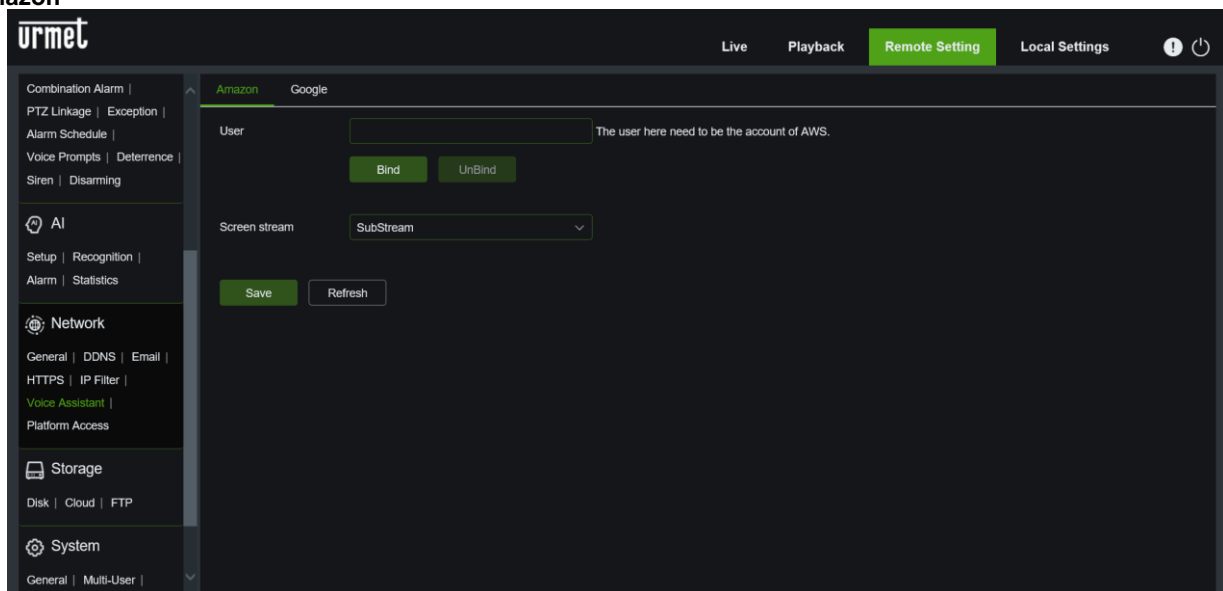


5.6.6.5 IP Filter: the IP filter function can be set. The detailed parameters must be consistent with the NVR's local setting.

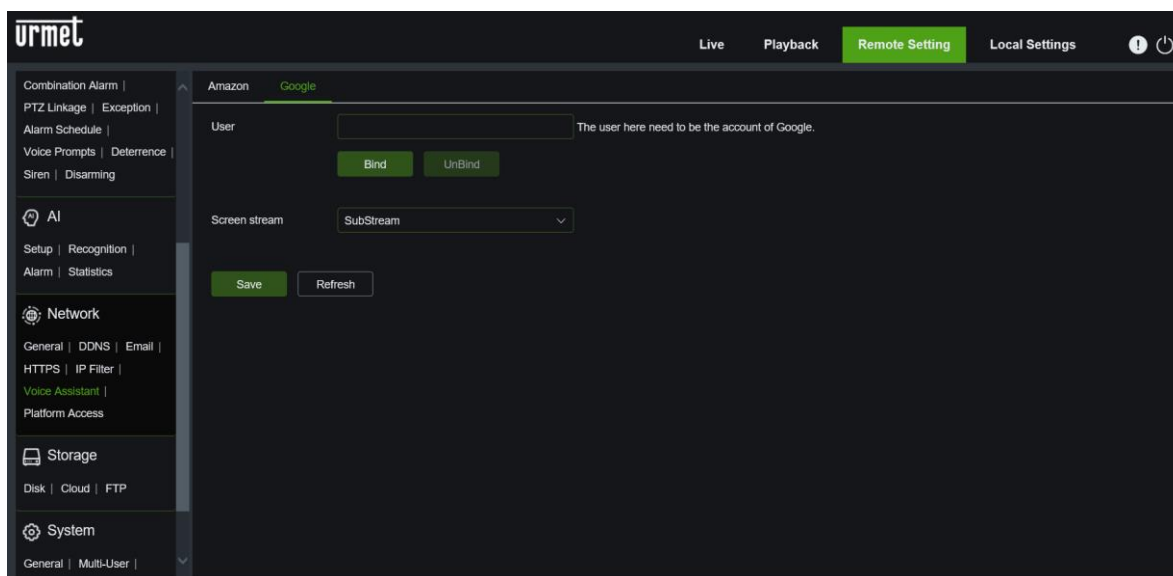


5.6.6.6 Voice Assistant: the Amazon and Google voice assistant can be set up.

Amazon

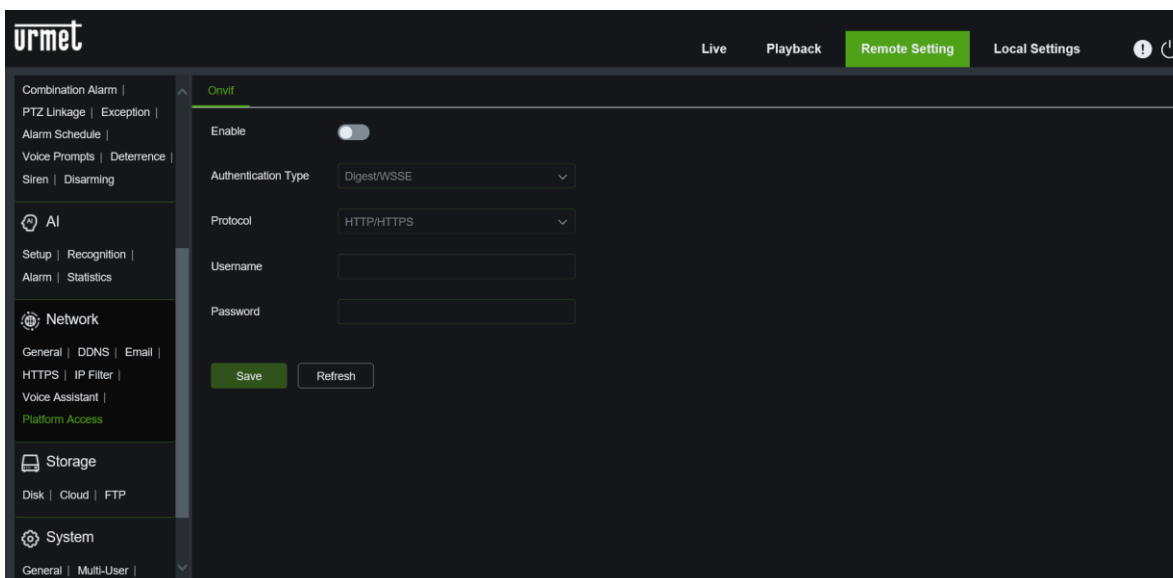


Google



5.6.6.7 Platform Access

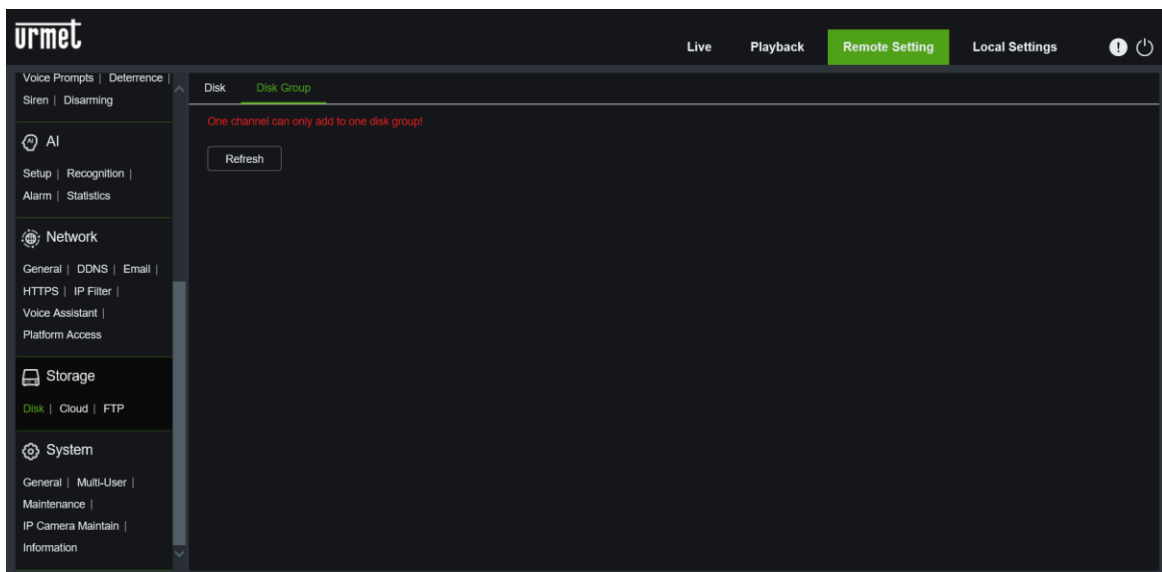
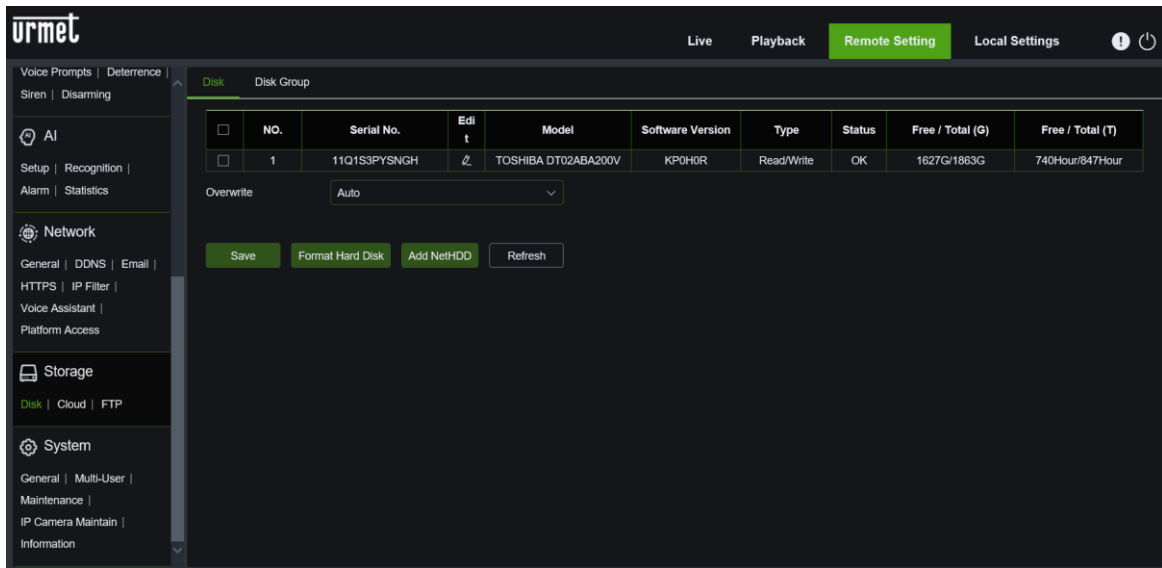
Onvif: this function is mainly used to connect third-party platforms, such as ECMS/NVMS, via the Onvif protocol.



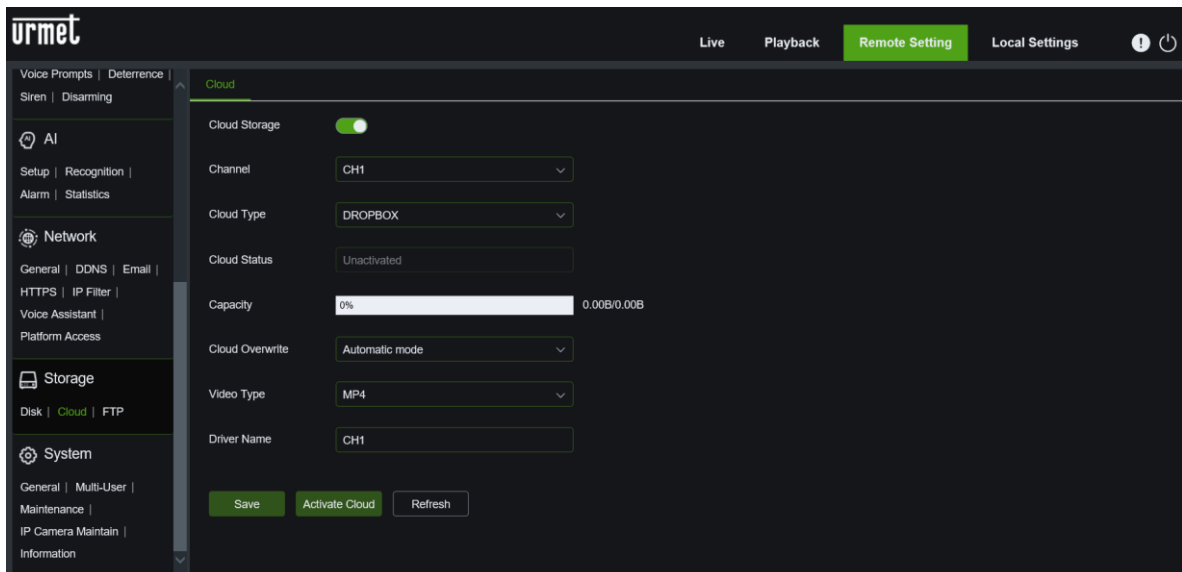
5.6.7 DEVICE

Click on the <Device> option to access its sub-options: Disk, Cloud and FTP.

5.6.7.1 Disk: This can be used to check HDD status, overwrite time and enable recording on the ESATA interface, as shown below. The detailed parameters must be coherent with the local setting of the NVR.



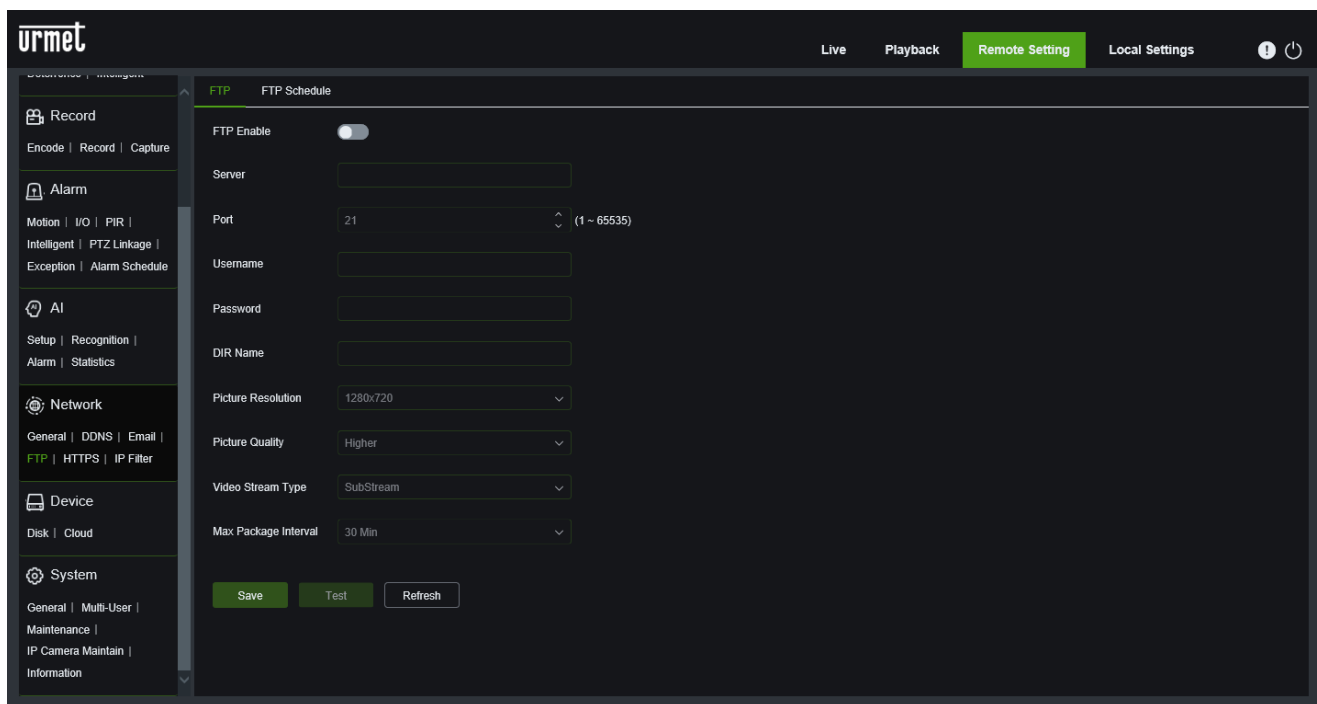
5.6.7.2 Cloud: This can be used to set the Cloud Storage parameters for your Dropbox and Google Drive account. The detailed parameters must be coherent with the local setting of the NVR.



5.6.7.3 FTP: This function is used together with the alarm function. The captured images or alarm recording can be uploaded to the FTP server via the network.

- **FTP:** This can be used to enable or disable the function.

- **Server IP:** This can be used to enter the address of the FTP server name.
- **Port:** FTP service port. Default value: 21.
- **Username:** User name to access the FTP.
- **Password:** Password for accessing the FTP server.
- **Dir name:** Directory name to transfer recorded images or alarms.



FTP Schedule: it is possible to set up sending to the FTP server on time slots and on the basis of the event detected.



5.6.8 SYSTEM

Click on the <System> option to access its sub-options: General, Multi-Users, Maintenance, IP Camera Maintain and Information.

5.6.8.1 General

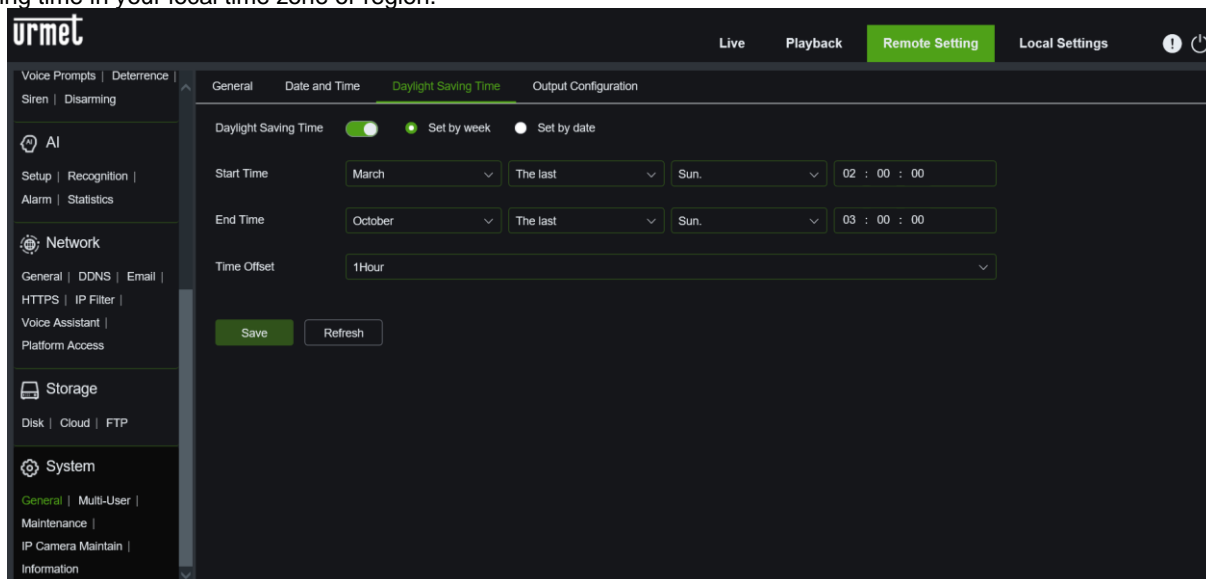
General: This page can be used to check the NVR device name and Time Out for Menu, Web session, Preview and Playback.

The screenshot shows the 'urmet' NVR web interface. The top navigation bar includes 'Live', 'Playback', 'Remote Setting' (highlighted in green), and 'Local Settings'. The left sidebar contains various configuration categories: 'Voice Prompts' (Deterrence, Siren, Disarming), 'AI' (Setup, Recognition, Alarm, Statistics), 'Network' (General, DDNS, Email, HTTPS, IP Filter, Voice Assistant, Platform Access), 'Storage' (Disk, Cloud, FTP), and 'System' (General, Multi-User, Maintenance, IP Camera Maintain, Information). The main content area is titled 'General' and includes sub-tabs for 'Date and Time', 'Daylight Saving Time', and 'Output Configuration'. The 'General' sub-tab is active, showing fields for 'Device Name' (1098/328P), 'Menu Time Out' (OFF), 'Web Session Timeout' (240 minutes), and 'Preview Session Timeout' (a toggle switch). 'Save' and 'Refresh' buttons are at the bottom.

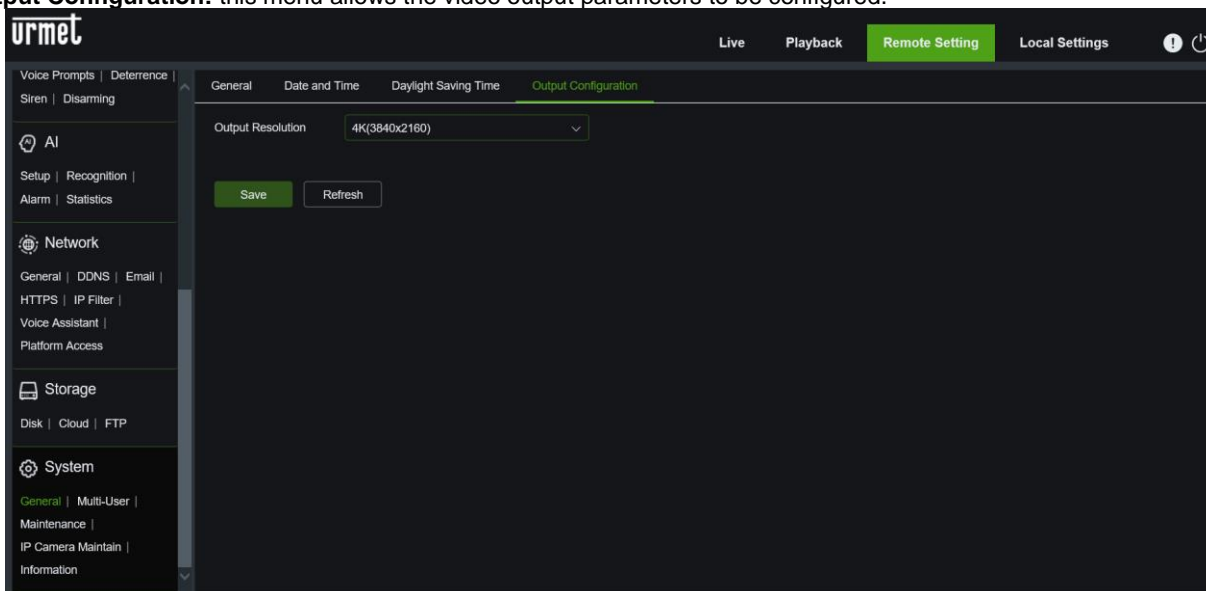
Date and Time: you can choose to set the date and time in manual or synchronised mode. The NTP (Network Time Protocol) function allows the NVR to automatically synchronise its clock with a time reference server. This allows for always accurate time setting (the NVR will periodically synchronise automatically).

The screenshot shows the 'urmet' NVR web interface with the 'Date and Time' sub-tab selected. The 'Time setting mode' is set to 'NTP server synchronization' (indicated by a green dot). The 'Date Format' is 'Day/Month/Year', 'Time Zone' is 'GMT+1:00', and 'Time Format' is '24Hour'. The 'System time' is displayed as '17/11/2022 10 : 47 : 35'. The 'Server Address' is 'pool.ntp.org'. 'Save' and 'Refresh' buttons are at the bottom.

DST Daylight Saving Time: The Daylight Saving Time (DST) function allows you to select the time difference due to daylight saving time in your local time zone or region.



Output Configuration: this menu allows the video output parameters to be configured.



5.6.8.2 Multi-users: This is used to configure username and password, as shown below. The detailed parameters must be coherent with the local setting of the NVR.

NO.	Username	Level	Status	Password	Policy
1	admin	admin	Enable	ℓ	
2	user1	user1	Disable	ℓ	🔒
3	user2	user2	Disable	ℓ	🔒
4	user3	user3	Disable	ℓ	🔒
5	user4	user4	Disable	ℓ	🔒
6	user5	user5	Disable	ℓ	🔒
7	user6	user6	Disable	ℓ	🔒
8	user7	user7	Disable	ℓ	🔒
9	user8	user8	Disable	ℓ	🔒
10	user9	user9	Disable	ℓ	🔒
11	user10	user10	Disable	ℓ	🔒
12	user11	user11	Disable	ℓ	🔒
13	user12	user12	Disable	ℓ	🔒
14	user13	user13	Disable	ℓ	🔒
15	user14	user14	Disable	ℓ	🔒
16	user15	user15	Disable	ℓ	🔒
17	user16	user16	Disable	ℓ	🔒

5.6.8.3 Maintenance: This can be used to set the Log, Load Default, Firmware Update, Import/Export Parameters and Auto Reboot functions of the NVR. The detailed parameters must be coherent with the local setting of the NVR.

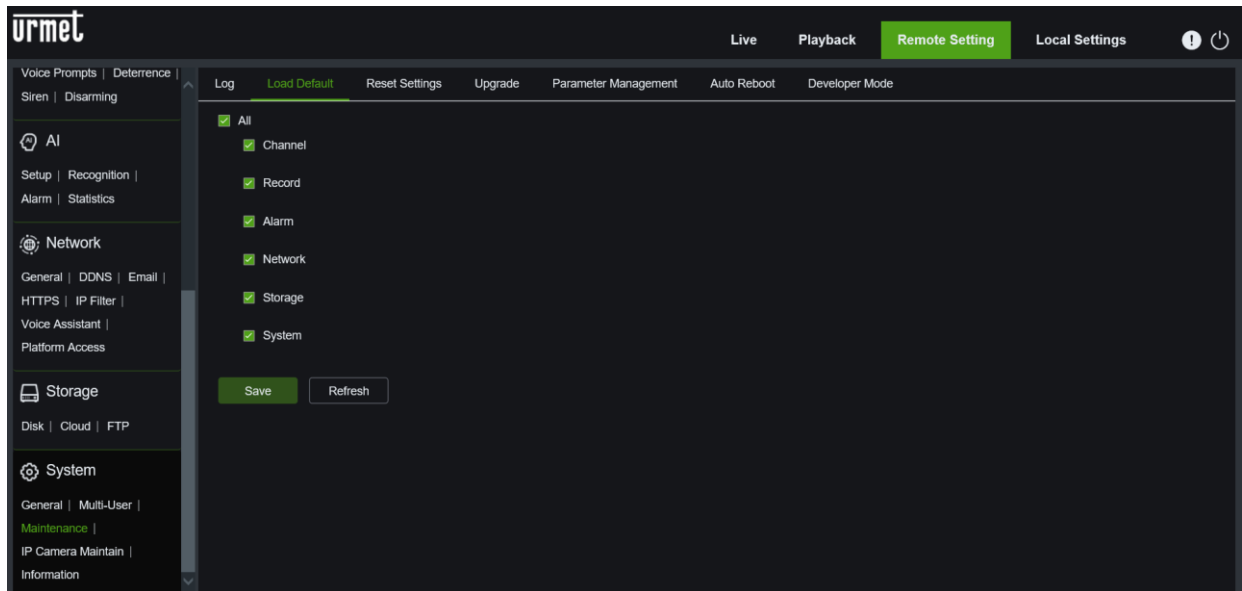
Log

Log Type:

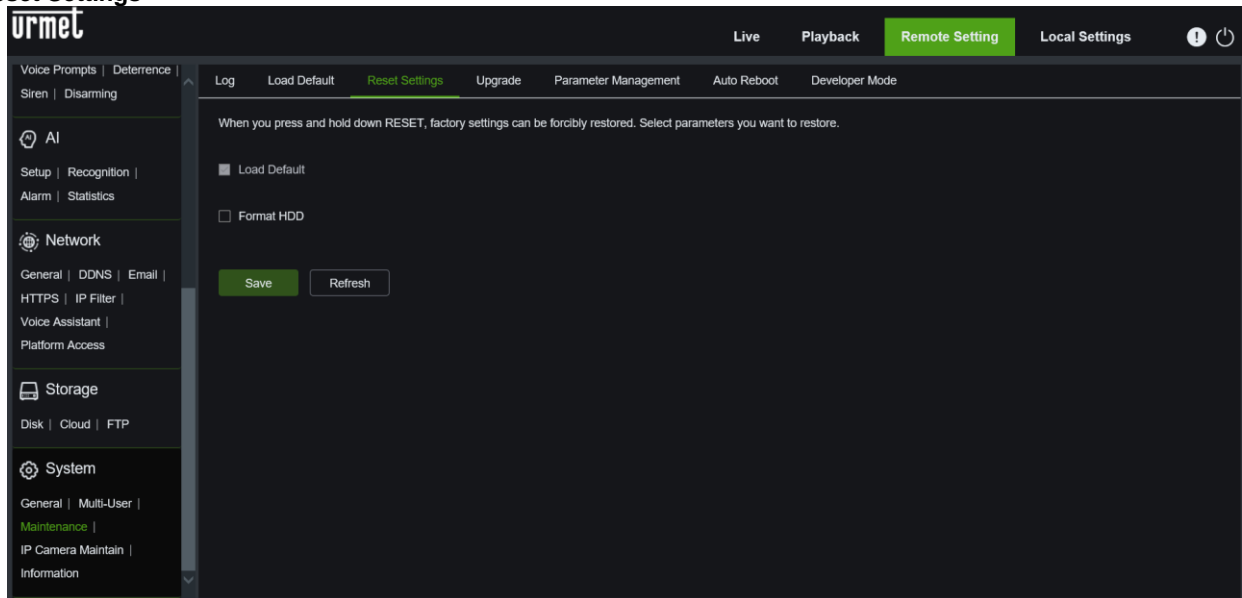
Start Time:

End Time:

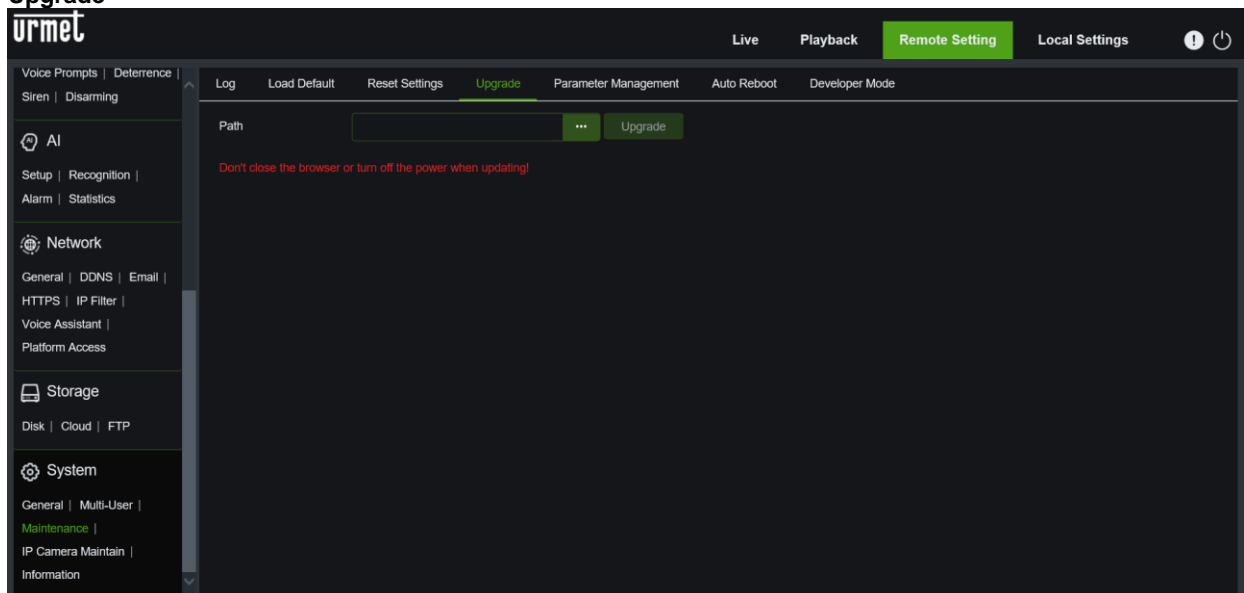
Load Default



Reset Settings

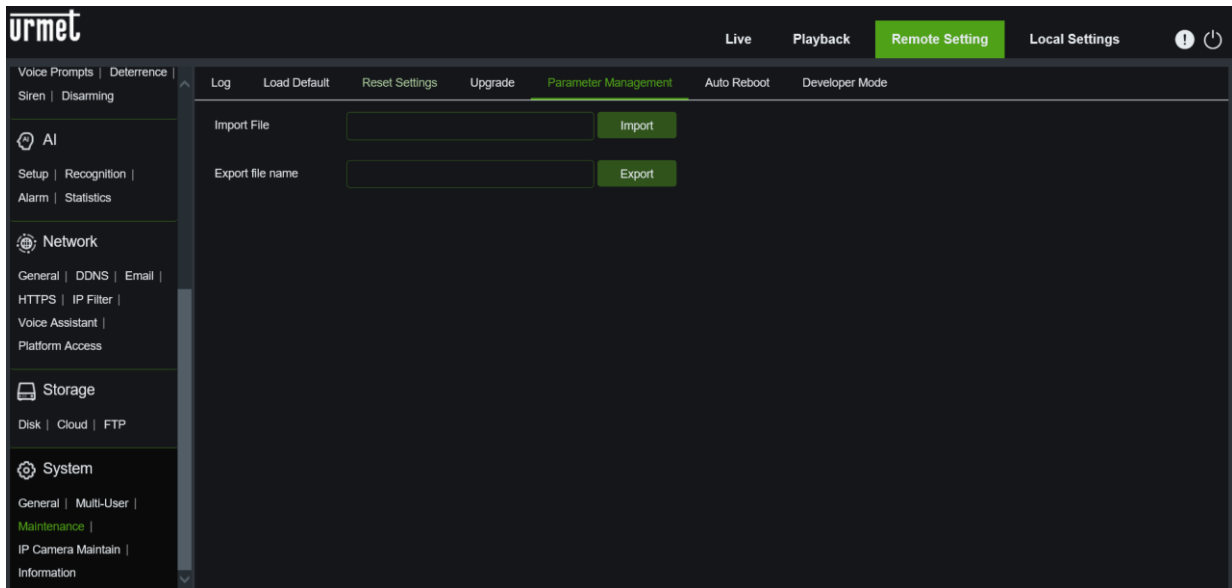


Upgrade

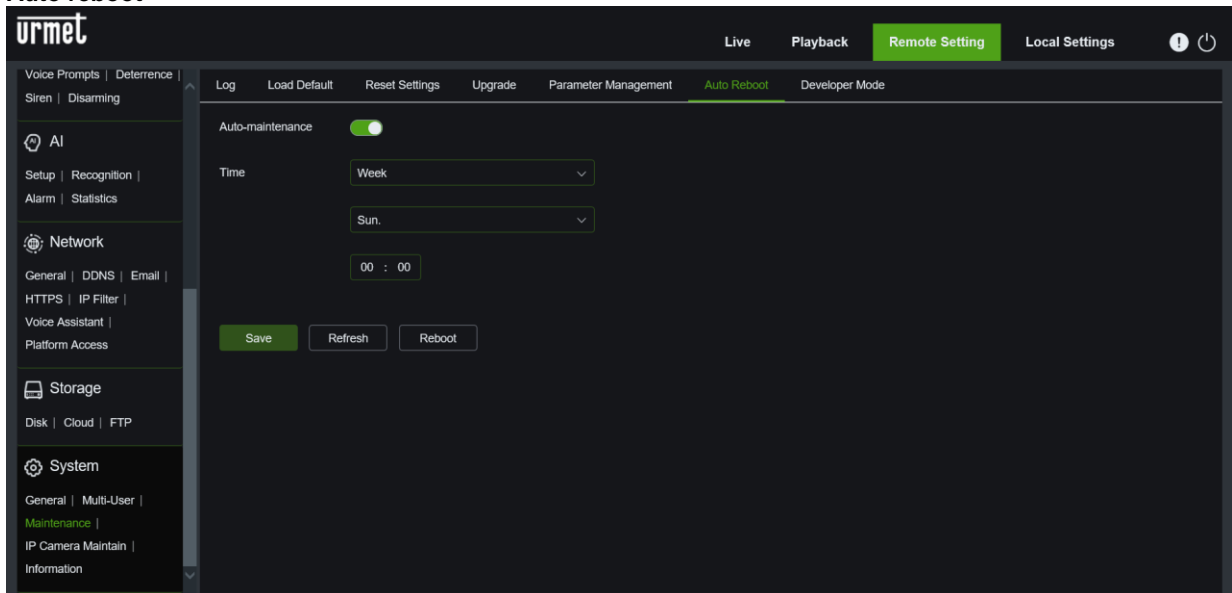


Parameter Management

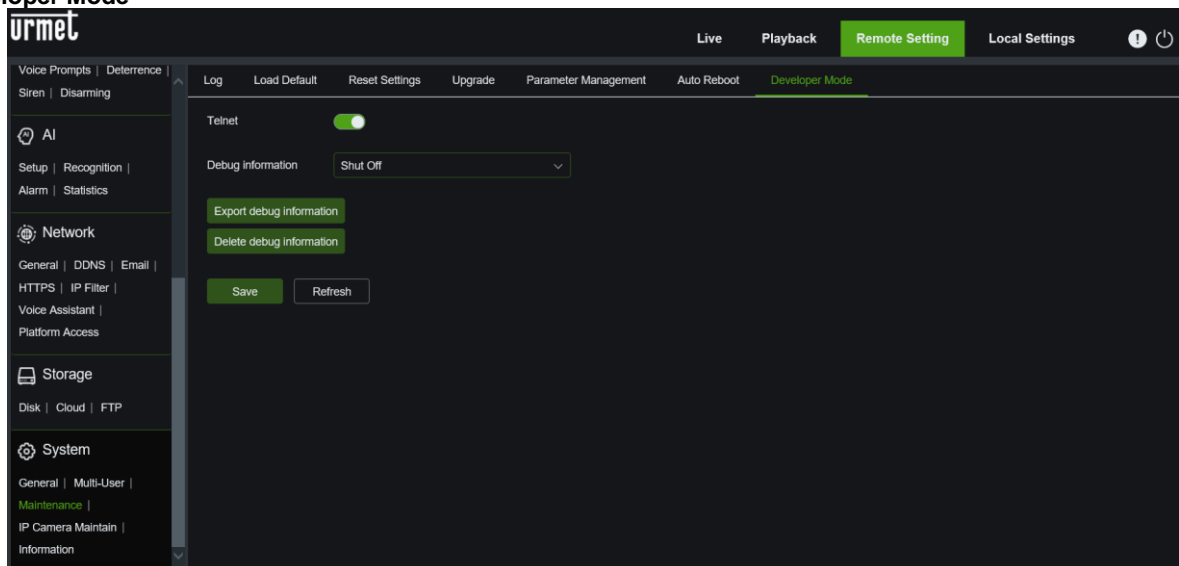
DS1098-038C



Auto reboot



Developer Mode



5.6.8.4 IP Camera Maintain: This can be used to set the Firmware Update, Load Default, Auto Reboot and Import/Export parameters functions of the IP camera (Firmware update not available for IP camera with ONVIF protocol). The detailed parameters must be coherent with the local setting of the NVR.

Upgrade

The screenshot shows the 'urmet' NVR web interface. The left sidebar contains navigation menus for 'Voice Prompts', 'AI', 'Network', 'Storage', and 'System'. The main area is titled 'Remote Setting' and includes tabs for 'Upgrade', 'Load Default', 'IPC Reboot', 'IPC Parameter Management', and 'Format IPC'. The 'Upgrade' tab is active, displaying a table of IPC channels and their software versions. Below the table is an 'IPC Upgrade File Path' field with a 'Scan' button. Further down, there is an 'IPC Upgrade' section with an 'Online Upgrade' toggle and an 'Automatic Detection' toggle. At the bottom are 'Save', 'Detect', 'Upgrade', and 'Refresh' buttons.

<input type="checkbox"/>	Channel	IP Address	Status	Software Version	Upgrade
<input type="checkbox"/>	CH1	192.168.4.33	On-line	V21.45.7.1_220218	
<input type="checkbox"/>	CH2	192.168.4.34	On-line	V4.43.5.2_210508	
<input type="checkbox"/>	CH4	192.168.4.74	On-line	V40.45.8.2.2_220628	
<input type="checkbox"/>	CH5	192.168.4.46	On-line	V21.45.8.2.3_221026	

Load Default

The screenshot shows the 'urmet' NVR web interface with the 'Load Default' tab selected. The left sidebar is the same as in the previous screenshot. The main area shows the 'Load Default' tab active, displaying a table of IPC channels and their software versions. Below the table are 'Default' and 'Refresh' buttons.

<input type="checkbox"/>	Channel	IP Address	Status	Software Version
<input type="checkbox"/>	CH1	192.168.4.33	On-line	V21.45.7.1_220218
<input type="checkbox"/>	CH2	192.168.4.34	On-line	V4.43.5.2_210508
<input type="checkbox"/>	CH4	192.168.4.74	On-line	V40.45.8.2.2_220628
<input type="checkbox"/>	CH5	192.168.4.46	On-line	V21.45.8.2.3_221026

IPC Reboot

urmet

LivePlaybackRemote SettingLocal Settings

Voice Prompts | Deterrence | Siren | Disarming

AI

Setup | Recognition | Alarm | Statistics

Network

General | DDNS | Email | HTTPS | IP Filter | Voice Assistant | Platform Access

Storage

Disk | Cloud | FTP

System

General | Multi-User | Maintenance | IP Camera Maintain | Information

UpgradeLoad DefaultIPC RebootIPC Parameter ManagementFormat IPC

	Channel	IP Address	Status	Software Version
<input type="checkbox"/>	CH1	192.168.4.33	On-line	V21.45.7.1_220218
<input type="checkbox"/>	CH2	192.168.4.34	On-line	V4.43.5.2_210508
<input type="checkbox"/>	CH4	192.168.4.74	On-line	V40.45.8.2.2_220628
<input type="checkbox"/>	CH5	192.168.4.46	On-line	V21.45.8.2.3_221026

RefreshReboot

IPC Parameter Management

urmet

LivePlaybackRemote SettingLocal Settings

Voice Prompts | Deterrence | Siren | Disarming

AI

Setup | Recognition | Alarm | Statistics

Network

General | DDNS | Email | HTTPS | IP Filter | Voice Assistant | Platform Access

Storage

Disk | Cloud | FTP

System

General | Multi-User | Maintenance | IP Camera Maintain | Information

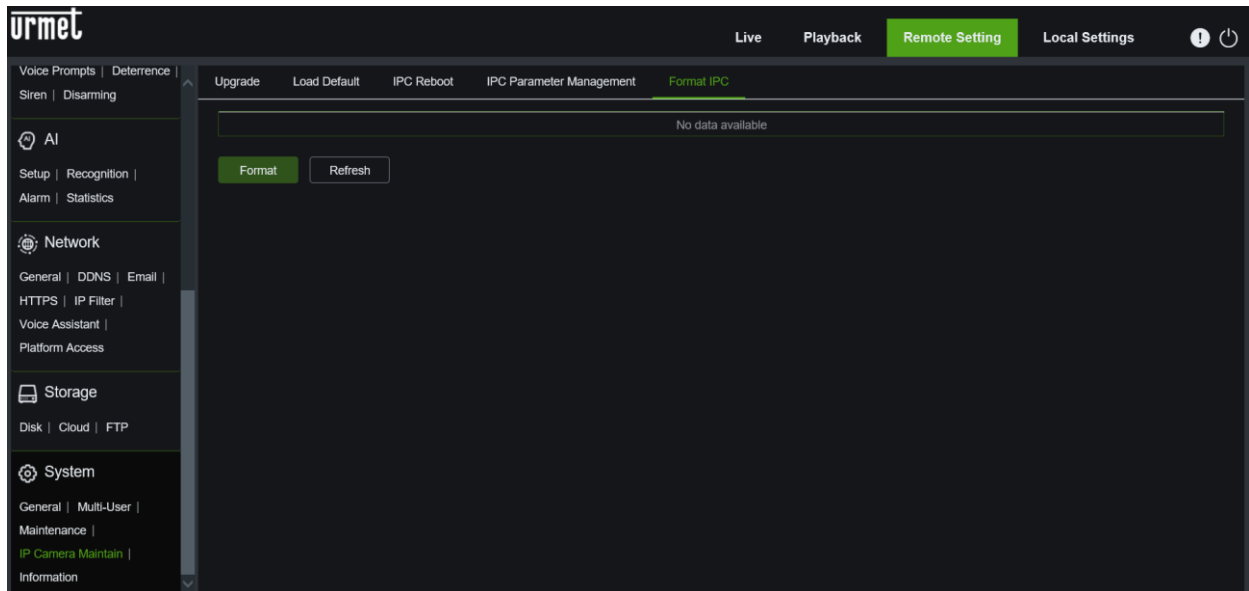
UpgradeLoad DefaultIPC RebootIPC Parameter ManagementFormat IPC

	Channel	IP Address	Status	Firmware Version
<input type="checkbox"/>	CH1	192.168.4.33	On-line	V21.45.7.1_220218
<input type="checkbox"/>	CH2	192.168.4.34	On-line	V4.43.5.2_210508
<input type="checkbox"/>	CH4	192.168.4.74	On-line	V40.45.8.2.2_220628
<input type="checkbox"/>	CH5	192.168.4.46	On-line	V21.45.8.2.3_221026

Import FileImport

Export file nameExport

Format IPC (Formatta IPC)



5.6.8.5 Information: This is used to check the device name, number and type, the MAC address, the software version, the IE version and the hardware version, as shown below. You can also read all channel information: Set Stream, Enable or Disable Status, Motion Supported, etc.

Information

Device ID	000000
Device Name	1098/328P
Device Type	1098/328P
Hardware Version	DM-443
Software Version	V8.2.3-20221031
Web Version	V1.3.1.45
Video Format	PAL
HDD Capacity	1863G
IP Address	192.168.4.241
IPv6 Address	fe80::5ae8:76ff:fe04:3151 / 64
Http/Https/RTSP Port	80,80
Client Port	9000,9000
MAC Address	58-E8-76-04-31-51

Channel Information

Channel	Alias	Status	MainStream	SubStream	MobileStream	Motion	Privacy Zone
CH1	CH1	■	2592x1520, 25Fps, 5Mbps	1920x1080, 10Fps, 1024 Kbps	640x480, 3Fps, 256Kbps	Support	Support
CH2	CH2	■	1280x720, 23Fps, 1.5Mbps	1920x1080, 10Fps, 1024 Kbps	640x480, 3Fps, 256Kbps	Support	Support
CH3	CH3	■					
CH4	CH4	■	3840x2160, 25Fps, 6Mbps	1280x720, 25Fps, 1024Kbps	640x480, 25Fps, 512Kbps	Support	Support
CH5	CH5	■	2592x1520, 25Fps, 5Mbps	1920x1080, 10Fps, 1024 Kbps	640x480, 3Fps, 256Kbps	Support	Support

Record Info

urmet

Live Playback Remote Setting Local Settings

Information Channel Information Record Info Network status

Channel	Record State	Record Switch	Stream type	Resolution	FPS	Bitrate
CH1	OFF	Enable				
CH2	OFF	Enable				
CH3	OFF	Enable				
CH4	OFF	Enable				
CH5	OFF	Enable				

Refresh

Network Status

urmet

Live Playback Remote Setting Local Settings

Information Channel Information Record Info Network status

Wan

DHCP Enable

IP Address 192.168.4.241

Subnet Mask 255.255.255.0

Gateway 192.168.4.1

MAC Address 58-E8-76-04-31-51

IPv6 Address fe80::5ae8:76ff:fe04:3151 / 64

IPv6 Gateway fe80::64

DNS 1 192.168.4.1

DNS 2 8.8.8.8

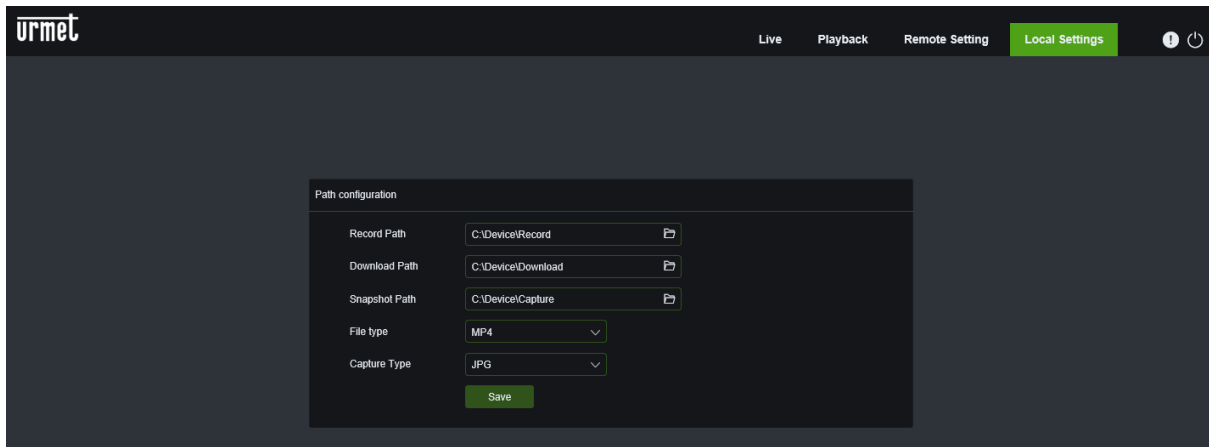
PPPoE OFF




Lan

IP Address 10.10.25.100


5.7 LOCAL SETTING

Set the download destinations of the recordings and snapshots obtained through the Web Client and select the type of video file.



- **Record Path:** Click on  to scroll through and select the folder where you want to save your manual video recordings on your computer.
- **Download Path:** Click on  to scroll through and select the folder where you want to save the download of your video recordings to your computer.
- **Snapshot Path:** Click on  to scroll through and select the folder where you want to save the manual snapshots on your computer.
- **File Type:** Select your preferred file type for manual recording.
- **Capture Type:** Select your preferred file type for manual picture capture.
- **Save:** Click to save the changes.

5.8 LOGOUT

Click on icon  to go back to the login interface.

6 NVR SPECIFICATIONS REF. 1098/324P-1098/328P-1098/326P (PAL FORMAT)

Functions	Features		
	1098/324P	1098/328P	1098/326P
Compression format	Video: H.265+, H.265, H.264+, H.264, MJPEG / Audio: 8kHz*16bit ADPCM		
Video Inputs	4CH	8CH	16CH
Video Outputs	1 CH Video Output VGA (up to 1080p), 1 CH Video Output HDMI (up to 4K)		
Audio Inputs/Outputs	1-CH Line In RCA / 1-CH RCA Audio Out		
Display Resolution / Frame Rate	1024*768, 1280*720, 1280*1024, 1440*900, 1920*1080, 1680*1050, 1600*1200, 1900*1200, 2560*1440, 3840*2160@25fps per single IP channel.		
Recording resolution	8MP(4K), 5MP, 3MP, 2MP (1080P), 1.3MP (960P),1.0MP (720P)		
Live & Playback performance	4K:45fps 4MP:90fps 2MP:180fps		
Max. Local Playback Channels	4ch	8ch	16ch
Recording modes	Always / Timed / Manual / Motion Detection and lens occlusion / Sensor / External alarm / Video Analysis		
Bandwidth (IN / OUT)	50/65 Mbps	128/128 Mbps	112/96 Mbps
ONVIF cameras connection	YES		
Sub stream	YES (according to the connected cameras)		
Max internal Hard Disk supported	1 HD Sata (max. 6TB)	1 HD Sata (max. 10TB)	
Equipped with	1000 GB Hard Disk	2000 GB Hard Disk	
Video Backup	External USB drive / e-SATA / Network (NAS) (DROPBOX ,GOOGLE DRIVE ,FTP, only images and videos generated in the event of an alarm)		
Playback modes	PLAY / SLOW / FWD / Frame by frame		
Web Interface / Software	For device setting and video display: IE 10/11, Edge, Chrome, Firefox, Safari Client software UVS pro		
Intelligent Video Analysis (* only if supported by the camera)	*Perimeter Intrusion Detection (PID), *Line Crossing Detection (LCD), *Stationary Object Detection (SOD), *Pedestrian Detection (PD), *Face Detection (FD), *Cross Counting (CC), *Sound Detection, *Occlusion Detection, *Face recognition, *Human & Vehicle detection, *Perimeter Intrusion Detection (AI PID), *Line crossing Detection (AI LCD), *Cross Counting, *Heat Map, *Attribute Detection, *Face attendance		
Max. registered faces total / per group	1500 / 1000	5000 / 2000	
Max. captured faces	10000	60000	
Fish Eye Camera support	NO from the NVR local menu, YES from NVR Webpage and Client software		
I/O Alarm	4-CH Inputs 1-CH Output	8-CH Inputs 1-CH Output	
Alarms	Motion/ Alarm In / Video Loss / HD space / HD issue / IP cameras' alarms		
Max. N. PC connected	Depending on the max. output bandwidth		
PDA Software Mobile	Urmnet iUVS PRO (iOS, Android)		
PTZ control	RS485, IP protocol / AF lens control		
USB ports	2 x USB 2.0		
eSATA port	YES (for recording and backup) *		
Ethernet	1 RJ45 10/100 Base-T	1 RJ45 100/1000 Base-T	
Network protocols	TCP/IP, DHCP, UDP, Urmnet DDNS / UrmnetDDNS2, P2P, PPPOE, Private Cloud, SMTP, HTTPS, PPPPoE, FTP, RTSP, UPNP, SNMP		
PoE ports	4	8	16
Total PoE power (Watt)	Max. Total 45W (802.3 af/at)	Max. Total 83W (802.3 af/at)	Max. Total 164W (802.3 af/at)
PSU	DC48V / 1.2A PoE Switch: 48V	DC48V / 2A PoE Switch: 48V	DC48V / 3.75A PoE Switch: 48V
Operating temperature / Humidity	0°C~+40°C / less than 90%RH		
Cooling fan	NO		YES

Dimensions (LxHxP)	300X53X227 mm	300X54X302mm
Weight	~ 2 kg	~ 2.1 kg

×**IMPORTANT NOTES**

- Product specifications may be subject to change without prior notice.
- After replacing/adding a HDD, the operations must be performed by qualified personnel or by contacting the closest technical centre.
- Contact the closest technical centre to see the complete list of compatible HDDs.
- (*) If an external eSATA HDD is connected to the PC, dedicated software must be used to play the recordings present on the eSATA HDD. The video player (downloadable from Urmet website) can be used for the backup files on the eSATA HDD.

7 NVR SPECIFICATIONS REF. 1098/334 (PAL FORMAT)

Functions	Features
	1098/334
Compression format	Video: H.265+, H.265, H.264+, H.264, MJPEG / Audio: 8kHz*16bit ADPCM
Video Inputs	32CH
Video Outputs	2 CH Video Output HDMI (up to 4K)
Audio Inputs/Outputs	1-CH Line In RCA / 1-CH RCA Audio Out
Display Resolution / Frame Rate	1024*768, 1280*720, 1280*1024, 1440*900, 1920*1080, 1600*1200, 1920*1200, 3840*2160@25fps for single IP channel
Recording resolution	8MP(4K), 5MP, 3MP, 2MP (1080P), 1.3MP (960P), 1.0MP (720P)
Bandwidth (IN / OUT)	640 Mbps
Live & Playback performance	4K:240fps 4MP:480fps 2MP:960fps
Max. Local Playback Channels	16ch
Recording modes	Always / Timed / Manual / Motion Detection and lens occlusion / Sensor / External alarm / Video Analysis
ONVIF cameras connection	YES
Sub stream	YES (according to the connected cameras)
Max internal Hard Disk supported	4 HD Sata (max. 12TB)
Equipped with	2000 GB Hard Disk
Video Backup	External USB drive / e-SATA / Network (NAS) (DROPBOX, GOOGLE DRIVE, FTP, only images and videos generated in the event of an alarm)
Playback modes	PLAY / SLOW / FWD / Frame by frame
Web Interface / Software	For device setting and video display: IE 10/11, Edge, Chrome, Firefox, Safari Client software UVS pro
Intelligent Video Analysis (* only if supported by the camera)	*Perimeter Intrusion Detection (PID), *Line Crossing Detection (LCD), *Stationary Object Detection (SOD), *Pedestrian Detection (PD), *Face Detection (FD), *Cross Counting (CC), *Occlusion Detection, *Face recognition, *Human & Vehicle detection, *Heat Map, *Attribute Detection, *Face attendance, *Crowd Detection (CD), *Queue length Detection (QD), Rare Sound Detection (RSD), License Plate Detection (LPD)
Fish Eye Camera support	YES
I/O Alarm	16-CH Inputs 1-CH Output
Alarms	Motion/ Alarm In / Video Loss / HD space / HD issue / IP cameras' alarms
Max. N. PC connected	Depending on the max. output bandwidth
PDA Software Mobile	Urmet iUVS PRO (iOS, Android)
PTZ control	RS485, IP protocol / AF lens control
USB ports	1 x USB 2.0 on front panel / 2 x USB 3.0 on rear panel
eSATA port	YES (for recording and backup) *
Ethernet	2 RJ45 100/1000 Base-T

Network protocols	TCP/IP, DHCP, UDP, Urmec DDNS / UrmecDDNS2, P2P, PPPOE, Private Cloud, SMTP, HTTPS, PPPoE, FTP, RTSP, UPNP, SNMP
PoE ports	NO
PSU	DC12V / 5A
Operating temperature / Humidity	0°C~+40°C / less than 90%RH
Cooling fan	YES
Dimensions (LxPxH)	378X325.8X66 mm
Weight	~ 3 kg

×**IMPORTANT NOTES**

- Product specifications may be subject to change without prior notice.
- After replacing/adding a HDD, the operations must be performed by qualified personnel or by contacting the closest technical centre.
- Contact the closest technical centre to see the complete list of compatible HDDs.
- (*) If an external eSATA HDD is connected to the PC, dedicated software must be used to play the recordings present on the eSATA HDD. The video player (downloadable from Urmec website) can be used for the backup files on the eSATA HDD.

8 MAXIMUM RECORDING TIME WITH 2000GB HARD DISK

8.1 REF. 1098/324P - 1098/328P - 1098/326P – 1098/334

The following resolution options can be set on the URMET NVR PRO series:

- “4K”, “5Mpx”, “4Mpx”, “3.5Mpx”, “3Mpx”, “1080P”, “960P/720P” on 1/4/8/16/ IP channels in H.264 and H.265 Codec

※IMPORTANT NOTES

The bandwidth and HDD time may vary considerably according to the recorded scene.

The following tables indicate the approximately time needed to fill the HDD with the 1/4/8/16 channel NVR recording only video (no audio) with the selected resolution and frame frequency.

To estimate the HDD time (before overwriting) in case of 2 or 3 channels, the user may divide the values of the table related to one channel (hours and days) by the actual number of recorded channels. More recorded channels means that a shorter interval must elapse before the HDD starts overwriting.

IP channels with Private and ONVIF protocol:

1 recording channel with 4K resolution (3840x2160 or 3000x3000)							4 recording channels with 4K resolution (3840x2160 or 3000x3000)						
Variables to be set			H.264 Codec		H.265 Codec		Variables to be set			H.264 Codec		H.265 Codec	
H.264 Bitrate (in Kbps)	H.265 Bitrate (in Kbps)	Frame rate (in fps)	Time HD (hours)	Time HD (days)	Time HD (hours)	Time HD (days)	H.264 Bitrate (in Kbps)	H.265 Bitrate (in Kbps)	Frame rate (in fps)	Time HD (hours)	Time HD (days)	Time HD (hours)	Time HD (days)
12288	8192	24-30	351.70	14.65	527.54	21.98	12288	8192	24-30	87.92	3.66	131.89	5.50
10240	7168	20-23	422.03	17.58	602.91	25.12	10240	7168	20-23	105.51	4.40	150.73	6.28
8192	6144	16-19	527.54	21.98	703.39	29.31	8192	6144	16-19	131.89	5.50	175.85	7.33
7168	5120	12-15	602.91	25.12	844.07	35.17	7168	5120	12-15	150.73	6.28	211.02	8.79
6144	4096	9-11	703.39	29.31	1055.09	43.96	6144	4096	9-11	175.85	7.33	263.77	10.99
5120	3328	6-8	844.07	35.17	1298.57	54.11	5120	3328	6-8	211.02	8.79	324.64	13.53
4096	2560	4-5	1055.09	43.96	1688.14	70.34	4096	2560	4-5	263.77	10.99	422.03	17.58
3072	2048	1-3	1406.78	58.62	2110.17	87.92	3072	2048	1-3	351.70	14.65	527.54	21.98

8 recording channels with 4K resolution (3840x2160 or 3000x3000)							16 recording channels with 4K resolution (3840x2160 or 3000x3000)						
Variables to be set			H.264 Codec		H.265 Codec		Variables to be set			H.264 Codec		H.265 Codec	
H.264 Bitrate (in Kbps)	H.265 Bitrate (in Kbps)	Frame rate (in fps)	Time HD (hours)	Time HD (days)	Time HD (hours)	Time HD (days)	H.264 Bitrate (in Kbps)	H.265 Bitrate (in Kbps)	Frame rate (in fps)	Time HD (hours)	Time HD (days)	Time HD (hours)	Time HD (days)
12288	8192	24-30	43.96	1.83	65.94	2.75	12288	8192	24-30	21.98	0.92	32.97	1.37
10240	7168	20-23	52.75	2.20	75.36	3.14	10240	7168	20-23	26.38	1.10	37.68	1.57
8192	6144	16-19	65.94	2.75	87.92	3.66	8192	6144	16-19	32.97	1.37	43.96	1.83
7168	5120	12-15	75.36	3.14	105.51	4.40	7168	5120	12-15	37.68	1.57	52.75	2.20
6144	4096	9-11	87.92	3.66	131.89	5.50	6144	4096	9-11	43.96	1.83	65.94	2.75
5120	3328	6-8	105.51	4.40	162.32	6.76	5120	3328	6-8	52.75	2.20	81.16	3.38
4096	2560	4-5	131.89	5.50	211.02	8.79	4096	2560	4-5	65.94	2.75	105.51	4.40
3072	2048	1-3	175.85	7.33	263.77	10.99	3072	2048	1-3	87.92	3.66	131.89	5.50

1 recording channel with 5Mpx resolution (3072x1728, 2592x1944 and 2160x2160)							4 recording channel with 5Mpx resolution (3072x1728, 2592x1944 and 2160x2160)						
Variables to be set			H.264 Codec		H.265 Codec		Variables to be set			H.264 Codec		H.265 Codec	
H.264 Bitrate (in Kbps)	H.265 Bitrate (in Kbps)	Frame rate (in fps)	Time HD (hours)	Time HD (days)	Time HD (hours)	Time HD (days)	H.264 Bitrate (in Kbps)	H.265 Bitrate (in Kbps)	Frame rate (in fps)	Time HD (hours)	Time HD (days)	Time HD (hours)	Time HD (days)
10240	7168	24-25	422.03	17.58	602.91	25.12	10240	7168	24-25	105.51	4.40	150.73	6.28
8192	6144	20-23	527.54	21.98	703.39	29.31	8192	6144	20-23	131.89	5.50	175.85	7.33
7168	5120	16-19	602.91	25.12	844.07	35.17	7168	5120	16-19	150.73	6.28	211.02	8.79
6144	4096	12-15	703.39	29.31	1055.09	43.96	6144	4096	12-15	175.85	7.33	263.77	10.99
5120	3328	9-11	844.07	35.17	1298.57	54.11	5120	3328	9-11	211.02	8.79	324.64	13.53
4096	2560	6-8	1055.09	43.96	1688.14	70.34	4096	2560	6-8	263.77	10.99	422.03	17.58
3072	2048	4-5	1406.78	58.62	2110.17	87.92	3072	2048	4-5	351.70	14.65	527.54	21.98
2048	1536	1-3	2110.17	87.92	2813.57	117.23	2048	1536	1-3	527.54	21.98	703.39	29.31
8 recording channel with 5Mpx resolution (3072x1728, 2592x1944 and 2160x2160)							16 recording channel with 5Mpx resolution (3072x1728, 2592x1944 and 2160x2160)						
Variables to be set			H.264 Codec		H.265 Codec		Variables to be set			H.264 Codec		H.265 Codec	
H.264 Bitrate (in Kbps)	H.265 Bitrate (in Kbps)	Frame rate (in fps)	Time HD (hours)	Time HD (days)	Time HD (hours)	Time HD (days)	H.264 Bitrate (in Kbps)	H.265 Bitrate (in Kbps)	Frame rate (in fps)	Time HD (hours)	Time HD (days)	Time HD (hours)	Time HD (days)
10240	7168	24-25	52.75	2.20	75.36	3.14	10240	7168	24-25	26.38	1.10	37.68	1.57
8192	6144	20-23	65.94	2.75	87.92	3.66	8192	6144	20-23	32.97	1.37	43.96	1.83
7168	5120	16-19	75.36	3.14	105.51	4.40	7168	5120	16-19	37.68	1.57	52.75	2.20
6144	4096	12-15	87.92	3.66	131.89	5.50	6144	4096	12-15	43.96	1.83	65.94	2.75
5120	3328	9-11	105.51	4.40	162.32	6.76	5120	3328	9-11	52.75	2.20	81.16	3.38
4096	2560	6-8	131.89	5.50	211.02	8.79	4096	2560	6-8	65.94	2.75	105.51	4.40
3072	2048	4-5	175.85	7.33	263.77	10.99	3072	2048	4-5	87.92	3.66	131.89	5.50
2048	1536	1-3	263.77	10.99	351.70	14.65	2048	1536	1-3	131.89	5.50	175.85	7.33

1 recording channel with 4Mpx resolution (2592x1520)						
Variables to be set			H.264 Codec		H.265 Codec	
H.264 Bitrate (in Kbps)	H.265 Bitrate (in Kbps)	Frame rate (in fps)	Time HD (hours)	Time HD (days)	Time HD (hours)	Time HD (days)
8192	5120	24-25	527.54	21.98	844.07	35.17
7168	4096	20-23	602.91	25.12	1055.09	43.96
6144	3328	16-19	703.39	29.31	1298.57	54.11
5120	2560	12-15	844.07	35.17	1688.14	70.34
4096	2048	9-11	1055.09	43.96	2110.17	87.92
3072	1536	6-8	1406.78	58.62	2813.57	117.23
2048	1024	4-5	2110.17	87.92	4220.35	175.85
1024	768	1-3	4220.35	175.85	5627.13	234.46

4 recording channels with 4Mpx resolution (2592x1520)						
Variables to be set			H.264 Codec		H.265 Codec	
H.264 Bitrate (in Kbps)	H.265 Bitrate (in Kbps)	Frame rate (in fps)	Time HD (hours)	Time HD (days)	Time HD (hours)	Time HD (days)
8192	5120	24-25	131.89	5.50	211.02	8.79
7168	4096	20-23	150.73	6.28	263.77	10.99
6144	3328	16-19	175.85	7.33	324.64	13.53
5120	2560	12-15	211.02	8.79	422.03	17.58
4096	2048	9-11	263.77	10.99	527.54	21.98
3072	1536	6-8	351.70	14.65	703.39	29.31
2048	1024	4-5	527.54	21.98	1055.09	43.96
1024	768	1-3	1055.09	43.96	1406.78	58.62

8 recording channels with 4Mpx resolution (2592x1520)						
Variables to be set			H.264 Codec		H.265 Codec	
H.264 Bitrate (in Kbps)	H.265 Bitrate (in Kbps)	Frame rate (in fps)	Time HD (hours)	Time HD (days)	Time HD (hours)	Time HD (days)
8192	5120	24-25	65.94	2.75	105.51	4.40
7168	4096	20-23	75.36	3.14	131.89	5.50
6144	3328	16-19	87.92	3.66	162.32	6.76
5120	2560	12-15	105.51	4.40	211.02	8.79
4096	2048	9-11	131.89	5.50	263.77	10.99
3072	1536	6-8	175.85	7.33	351.70	14.65
2048	1024	4-5	263.77	10.99	527.54	21.98
1024	768	1-3	527.54	21.98	703.39	29.31

16 recording channels with 4Mpx resolution (2592x1520)						
Variables to be set			H.264 Codec		H.265 Codec	
H.264 Bitrate (in Kbps)	H.265 Bitrate (in Kbps)	Frame rate (in fps)	Time HD (hours)	Time HD (days)	Time HD (hours)	Time HD (days)
8192	5120	24-25	32.97	1.37	52.75	2.20
7168	4096	20-23	37.68	1.57	65.94	2.75
6144	3328	16-19	43.96	1.83	81.16	3.38
5120	2560	12-15	52.75	2.20	105.51	4.40
4096	2048	9-11	65.94	2.75	131.89	5.50
3072	1536	6-8	87.92	3.66	175.85	7.33
2048	1024	4-5	131.89	5.50	263.77	10.99
1024	768	1-3	263.77	10.99	351.70	14.65

1 recording channel with 3.5Mpx resolution(2304×1296)						
Variables to be set			H.264 Codec		H.265 Codec	
H.264 Bitrate (in Kbps)	H.265 Bitrate (in Kbps)	Frame rate (in fps)	Time HD (hours)	Time HD (days)	Time HD (hours)	Time HD (days)
6144	3584	24-30	703.39	29.31	1862.65	50.24
5376	3072	20-23	803.88	33.49	1406.78	58.62
4608	2560	16-19	937.86	39.08	1688.14	70.34
3840	1792	12-15	1125.43	46.89	2411.63	100.48
3072	1536	9-11	1406.78	58.62	2813.57	117.23
2304	1280	6-8	1875.71	78.15	3376.28	140.68
1536	768	4-5	2813.57	117.23	5627.13	234.46
768	512	1-3	5627.13	234.46	8440.70	351.70

4 recording channels with 3.5Mpx resolution(2304×1296)						
Variables to be set			H.264 Codec		H.265 Codec	
H.264 Bitrate (in Kbps)	H.265 Bitrate (in Kbps)	Frame rate (in fps)	Time HD (hours)	Time HD (days)	Time HD (hours)	Time HD (days)
6144	3584	24-30	175.85	7.33	301.45	12.56
5376	3072	20-23	200.97	8.37	351.70	14.65
4608	2560	16-19	234.46	9.77	422.03	17.58
3840	1792	12-15	281.36	11.72	602.91	25.12
3072	1536	9-11	351.70	14.65	703.39	29.31
2304	1280	6-8	468.93	19.54	844.07	35.17
1536	768	4-5	703.39	29.31	1406.78	58.62
768	512	1-3	1406.78	58.62	2110.17	87.92

8 recording channels with 3.5Mpx resolution(2304×1296)						
Variables to be set			H.264 Codec		H.265 Codec	
H.264 Bitrate (in Kbps)	H.265 Bitrate (in Kbps)	Frame rate (in fps)	Time HD (hours)	Time HD (days)	Time HD (hours)	Time HD (days)
6144	3584	24-30	87.92	3.66	150.73	6.28
5376	3072	20-23	100.48	4.19	175.85	7.33
4608	2560	16-19	117.23	4.88	211.02	8.79
3840	1792	12-15	140.68	5.86	301.45	12.56
3072	1536	9-11	175.85	7.33	351.70	14.65
2304	1280	6-8	234.46	9.77	422.03	17.58
1536	768	4-5	351.70	14.65	703.39	29.31
768	512	1-3	703.39	29.31	1055.09	43.96

16 recording channels with 3.5Mpx resolution(2304×1296)						
Variables to be set			H.264 Codec		H.265 Codec	
H.264 Bitrate (in Kbps)	H.265 Bitrate (in Kbps)	Frame rate (in fps)	Time HD (hours)	Time HD (days)	Time HD (hours)	Time HD (days)
6144	3584	24-30	43.96	1.83	75.36	3.14
5376	3072	20-23	50.24	2.09	87.92	3.66
4608	2560	16-19	58.62	2.44	105.51	4.40
3840	1792	12-15	70.34	2.93	150.73	6.28
3072	1536	9-11	87.92	3.66	175.85	7.33
2304	1280	6-8	117.23	4.88	211.02	8.79
1536	768	4-5	175.85	7.33	351.70	14.65
768	512	1-3	351.70	14.65	527.54	21.98

1 recording channel with 3Mpx resolution (2048×1520)						
Variables to be set			H.264 Codec		H.265 Codec	
H.264 Bitrate (in Kbps)	H.265 Bitrate (in Kbps)	Frame rate (in fps)	Time HD (hours)	Time HD (days)	Time HD (hours)	Time HD (days)
6144	3584	24-25	703.39	29.31	1862.65	50.24
5376	3072	20-23	803.88	33.49	1406.78	58.62
4608	2560	16-19	937.86	39.08	1688.14	70.34
3840	1792	12-15	1125.43	46.89	2411.63	100.48
3072	1536	9-11	1406.78	58.62	2813.57	117.23
2304	1280	6-8	1875.71	78.15	3376.28	140.68
1536	768	4-5	2813.57	117.23	5627.13	234.46
768	512	1-3	5627.13	234.46	8440.70	351.70

4 recording channels with 3Mpx resolution (2048×1520)						
Variables to be set			H.264 Codec		H.265 Codec	
H.264 Bitrate (in Kbps)	H.265 Bitrate (in Kbps)	Frame rate (in fps)	Time HD (hours)	Time HD (days)	Time HD (hours)	Time HD (days)
6144	3584	24-25	175.85	7.33	301.45	12.56
5376	3072	20-23	200.97	8.37	351.70	14.65
4608	2560	16-19	234.46	9.77	422.03	17.58
3840	1792	12-15	281.36	11.72	602.91	25.12
3072	1536	9-11	351.70	14.65	703.39	29.31
2304	1280	6-8	468.93	19.54	844.07	35.17
1536	768	4-5	703.39	29.31	1406.78	58.62
768	512	1-3	1406.78	58.62	2110.17	87.92

8 recording channels with 3Mpx resolution (2048×1520)						
Variables to be set			H.264 Codec		H.265 Codec	
H.264 Bitrate (in Kbps)	H.265 Bitrate (in Kbps)	Frame rate (in fps)	Time HD (hours)	Time HD (days)	Time HD (hours)	Time HD (days)
6144	3584	24-25	87.92	3.66	150.73	6.28
5376	3072	20-23	100.48	4.19	175.85	7.33
4608	2560	16-19	117.23	4.88	211.02	8.79
3840	1792	12-15	140.68	5.86	301.45	12.56
3072	1536	9-11	175.85	7.33	351.70	14.65
2304	1280	6-8	234.46	9.77	422.03	17.58
1536	768	4-5	351.70	14.65	703.39	29.31
768	512	1-3	703.39	29.31	1055.09	43.96

1 recording channel with 1080P resolution (1920×1080)						
Variables to be set			H.264 Codec		H.265 Codec	
H.264 Bitrate (in Kbps)	H.265 Bitrate (in Kbps)	Frame rate (in fps)	Time HD (hours)	Time HD (days)	Time HD (hours)	Time HD (days)
4096	2560	24-25	1055.09	43.96	1688.14	70.34
3072	2048	20-23	1406.78	58.62	2110.17	87.92
2560	1664	16-19	1688.14	70.34	2110.17	87.92
2048	1280	12-15	2110.17	87.92	2411.63	100.48
1536	1024	9-11	2813.57	117.23	2813.57	117.23
1280	768	6-8	3376.28	140.68	5627.13	234.46
1024	512	4-5	4220.35	175.85	8440.70	351.70
768	384	1-3	5627.13	234.46	11254.26	468.93

8 recording channels with 1080P resolution (1920×1080)						
Variables to be set			H.264 Codec		H.265 Codec	
H.264 Bitrate (in Kbps)	H.265 Bitrate (in Kbps)	Frame rate (in fps)	Time HD (hours)	Time HD (days)	Time HD (hours)	Time HD (days)
4096	2560	24-25	131.89	5.50	211.02	8.79
3072	2048	20-23	175.85	7.33	263.77	10.99
2560	1664	16-19	211.02	8.79	324.64	13.53
2048	1280	12-15	263.77	10.99	422.03	17.58
1536	1024	9-11	351.70	14.65	527.54	21.98
1280	768	6-8	422.03	17.58	703.39	29.31
1024	512	4-5	527.54	21.98	1055.09	43.96
768	384	1-3	703.39	29.31	1406.78	58.62

1 recording channel with 960P (1280×960) and 720P resolution(1280×720)						
Variables to be set			H.264 Codec		H.265 Codec	
H.264 Bitrate (in Kbps)	H.265 Bitrate (in Kbps)	Frame rate (in fps)	Time HD (hours)	Time HD (days)	Time HD (hours)	Time HD (days)
1792	2048	24-25	2411.63	100.48	2110.17	87.92
1536	1792	20-23	2813.57	117.23	2411.63	100.48
1280	1536	16-19	3376.28	140.68	2813.57	117.23
1024	1280	12-15	4220.35	175.85	3376.28	140.68
768	1024	9-11	5627.13	234.46	4220.35	175.85
512	768	6-8	8440.70	351.70	5627.13	234.46
384	512	4-5	11254.26	468.93	8440.70	351.70
256	256	1-3	16881.39	703.39	16881.39	703.39

16 recording channels with 3Mpx resolution (2048×1520)						
Variables to be set			H.264 Codec		H.265 Codec	
H.264 Bitrate (in Kbps)	H.265 Bitrate (in Kbps)	Frame rate (in fps)	Time HD (hours)	Time HD (days)	Time HD (hours)	Time HD (days)
6144	3584	24-25	43.96	1.83	75.36	3.14
5376	3072	20-23	50.24	2.09	87.92	3.66
4608	2560	16-19	58.62	2.44	105.51	4.40
3840	1792	12-15	70.34	2.93	150.73	6.28
3072	1536	9-11	87.92	3.66	175.85	7.33
2304	1280	6-8	117.23	4.88	211.02	8.79
1536	768	4-5	175.85	7.33	351.70	14.65
768	512	1-3	351.70	14.65	527.54	21.98

4 recording channels with 1080P resolution (1920×1080)						
Variables to be set			H.264 Codec		H.265 Codec	
H.264 Bitrate (in Kbps)	H.265 Bitrate (in Kbps)	Frame rate (in fps)	Time HD (hours)	Time HD (days)	Time HD (hours)	Time HD (days)
4096	2560	24-25	263.77	10.99	422.03	17.58
3072	2048	20-23	351.70	14.65	527.54	21.98
2560	1664	16-19	422.03	17.58	649.28	27.05
2048	1280	12-15	527.54	21.98	844.07	35.17
1536	1024	9-11	703.39	29.31	1055.09	43.96
1280	768	6-8	844.07	35.17	1406.78	58.62
1024	512	4-5	1055.09	43.96	2110.17	87.92
768	384	1-3	1406.78	58.62	2813.57	117.23

16 recording channels with 1080P resolution (1920×1080)						
Variables to be set			H.264 Codec		H.265 Codec	
H.264 Bitrate (in Kbps)	H.265 Bitrate (in Kbps)	Frame rate (in fps)	Time HD (hours)	Time HD (days)	Time HD (hours)	Time HD (days)
4096	2560	24-25	65.94	2.75	105.51	4.40
3072	2048	20-23	87.92	3.66	131.89	5.50
2560	1664	16-19	105.51	4.40	162.32	6.76
2048	1280	12-15	131.89	5.50	211.02	8.79
1536	1024	9-11	175.85	7.33	263.77	10.99
1280	768	6-8	211.02	8.79	351.70	14.65
1024	512	4-5	263.77	10.99	527.54	21.98
768	384	1-3	351.70	14.65	703.39	29.31




4 recording channels with 960P (1280×960) and 720P resolution (1280×720)						
Variables to be set			H.264 Codec		H.265 Codec	
H.264 Bitrate (in Kbps)	H.265 Bitrate (in Kbps)	Frame rate (in fps)	Time HD (hours)	Time HD (days)	Time HD (hours)	Time HD (days)
1792	2048	24-25	602.91	25.12	527.54	21.98
1536	1792	20-23	703.39	29.31	602.91	25.12
1280	1536	16-19	844.07	35.17	703.39	29.31
1024	1280	12-15	1055.09	43.96	844.07	35.17
768	1024	9-11	1406.78	58.62	1055.09	43.96
512	768	6-8	2110.17	87.92	1406.78	58.62
384	512	4-5	2813.57	117.23	2110.17	87.92
256	256	1-3	4220.35	175.85	4220.35	175.85





8 recording channels with 960P (1280×960) and 720P resolution (1280×720)						
Variables to be set			H.264 Codec		H.265 Codec	
H.264 Bitrate (in Kbps)	H.265 Bitrate (in Kbps)	Frame rate (in fps)	Time HD (hours)	Time HD (days)	Time HD (hours)	Time HD (days)
1792	2048	24-25	301.45	12.56	263.77	10.99
1536	1792	20-23	351.70	14.65	301.45	12.56
1280	1536	16-19	422.03	17.58	351.70	14.65
1024	1280	12-15	527.54	21.98	422.03	17.58
768	1024	9-11	703.39	29.31	527.54	21.98
512	768	6-8	1055.09	43.96	703.39	29.31
384	512	4-5	1406.78	58.62	1055.09	43.96
256	256	1-3	2110.17	87.92	2110.17	87.92

16 recording channels with 960P (1280×960) and 720P resolution (1280×720)						
Variables to be set			H.264 Codec		H.265 Codec	
H.264 Bitrate (in Kbps)	H.265 Bitrate (in Kbps)	Frame rate (in fps)	Time HD (hours)	Time HD (days)	Time HD (hours)	Time HD (days)
1792	2048	24-25	150.73	6.28	131.89	5.50
1536	1792	20-23	175.85	7.33	150.73	6.28
1280	1536	16-19	211.02	8.79	175.85	7.33
1024	1280	12-15	263.77	10.99	211.02	8.79
768	1024	9-11	351.70	14.65	263.77	10.99
512	768	6-8	527.54	21.98	351.70	14.65
384	512	4-5	703.39	29.31	527.54	21.98
256	256	1-3	1055.09	43.96	1055.09	43.96

9 RECORDING ALARM SETTING

Refer to the following table: “⊥” means “alarm only, no recording”; “AMR” means “alarm recording”; “NLR” means “normal recording”; “NOR” means “no recording”. The respective icon appears once the alarm has tripped; the following indications will appear in presence of multiple alarms.

Recording alarm setting		Alarm icon	Recording modes				
			Recording at switch-on	Scheduled recording			Manual recording
				AMR	NLR	NOR	
Alarm mode	MD Alarm		NLR	AMR	NLR	⊥	NLR
	Alarm activated by I/O		NLR	AMR	NLR	⊥	NLR
	HDD loss, HDD full		⊥	⊥	⊥	⊥	⊥
	Video loss	Video loss	⊥	⊥	⊥	⊥	⊥

In recording mode, the  icon appears. When the red icons  and  appear on the screen, it means that a sensor and/or motion alarm has tripped and that the NVR is recording the alarm events; if the icons are green, instead, it means that a sensor and/or motion alarm has tripped but that the NVR is recording the alarm events. When the  icon appears on the screen, it means that a HDD alarm has tripped.

10 TROUBLESHOOTING

Q: What can I do if the system does not detect the HDD?

A: Check that the power supply is connected correctly, that the data and electric cables and wires are appropriately connected and that everything is in order on the HDD interface. Alternatively, check that the HDD is compatible referring to the specifications or descriptions.

Q: I have changed the password and forgotten the new one. How can I access the system?

A: Contact our technical personnel to recover the system password. You are strongly advised to set passwords which are easy to remember and relatively secure. In case of particular security requirements, avoid excessively obvious passwords, like 000000.

Q: Can I add an IP camera with different protocols?

A: Yes, you can. The NVR can automatically recognize the right protocol.

Q: When I connect the NVR and the IP camera the video signal is abnormal or missing all together. Both devices are powered correctly. What is wrong?

A: Check that the network cable on NVR side is connected firmly, is not worn and does not need to be replaced. Check that NTSC or PAL is selected on both devices.

Q: How can I prevent the NVR from overheating?

A: The NVR must cool down during operation. Arrange the NVR in a well-ventilated place away from sources of heat to guarantee stability and long-lasting operation of the device.

Q: The remote control of the NVR is not working but the screen and control panel buttons are all working properly. Why?

A: Try again pointing the remote control towards the IR receiver on the front panel. Check that the batteries are not flat if it still does not work. Otherwise, the remote control may be faulty.

Q: I want to remove the HDD from my PC and install it on the NVR. Can I do this?

A: All the HDDs supported by the system can be used. However, it is important to remember that all data stored on the HDD will be lost when the NVR is started.

Q: Can I playback while recording?

A: Yes. The system supports the playback function while recording.

Q: Can I delete some records from the NVR HDD?

A: It may not be possible to delete part of the recordings for file security reasons. The HDD can be formatted to delete all recordings.

Q: I cannot access the NVR Client. Why?

A: Check that the network connection settings are correct and that the RJ-45 port contact is efficient. Check that the account and the password have been entered correctly.

Q: I cannot find any recordings during playback. Why?

A: Check that the HDD data line is connected correctly and that the system time is correctly set. Try a few times and reboot it. Check whether the HDD is faulty if the problem persists.

Q: The NVR is not controlling the PTZ function. Why?

A: Check that:

the front PTZ is working correctly

the PTZ settings and configurations are correct on the IP camera

the PTZ of the NVR is correct

the PTZ protocol of the IP camera corresponds to that of the NVR

the PTZ address of the IP camera corresponds to that of the NVR

If multiple decoders are connected, a 120Ω resistor must be installed on the most distant side of the AB line of the PTZ decoder to suppress reflection and impedance correspondence. Otherwise, the PTZ control will be unstable.

Q: Dynamic detection is not working. Why?

A: Check that the motion detection time and the local motion detection settings are correct and that sensitivity is not set to an excessive low value.

Q: The alarm is not working. Why?

A: Check that the alarm setting, the alarm connection and the alarm input signals are correct.

Q: Why is the buzzer still sounding the alarm?

A: Check the alarm setting and check that the motion detection function is enabled, that object motion is always detected and that the I/O alarm is set to Always Off. Furthermore, refer to the respective setting of the HDD alarm.

Q: I cannot stop the recording by pressing the "STOP" button or clicking on "Stop Recording" in the shortcut menu. Why?

A: Only manual recordings can be stopped by pressing Stop or Stop Recording. To stop a Scheduled recording after a certain time, change the setting to No Record. To stop a Startup recording, change the recording mode to scheduled or manual. In this way, you should be able to stop the recording in the illustrated manners. Another way to stop the recording consists in configuring the channel to Off in the recording settings.

11 MAINTENANCE

1. To switch off the NVR, firstly switch off the system and then disconnect the electric power supply. To do not disconnect the electric power supply directly, because this could cause loss of date or damage to the HDD data.
2. Keep the NVR away from sources of heat or hot places.
3. Periodically eliminate the dust which accumulates inside. Provide good ventilation of the NVR to ensure adequate heat dispersion.
4. Do not connect/disconnect the audio or video cable or the cables connected to the RS-232 or RS-485 while the device is working. The devices could be damaged.
5. Periodically check that the HDD cable and the data cable are not worn.
6. Take action to prevent the audio and video signals of the NVR from being subject to interference from other electronic devices and prevent the HDD from being damaged by static electricity and induced voltage.


If the network cable is plugged in often, it is advisable to replace the connection line periodically to prevent signal instability.


7. This is a class A product which could cause wireless interference. Take the necessary actions in this case.

APPENDIX: ACTIVEX INSTALLATION

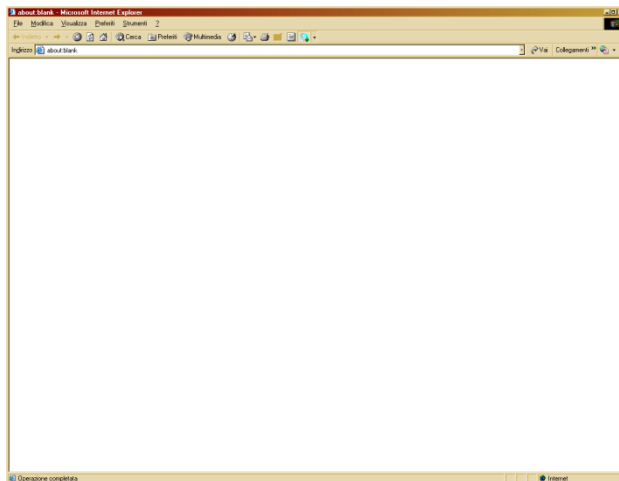
Proceed as shown below to install an ActiveX component.

Enable the IE protection configuration as shown below before activating the connection to the PC:

Double-click on the  icon to open Internet Explorer.

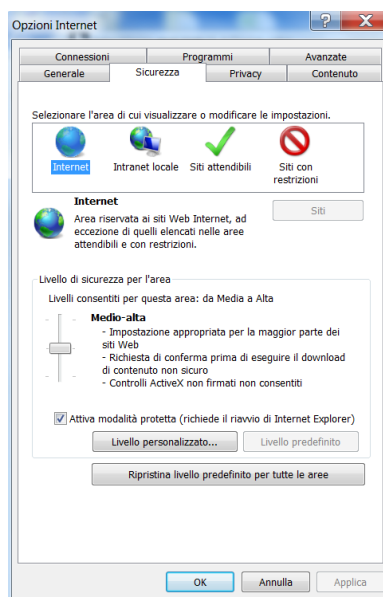
Open Internet Explorer by double clicking on the  icon.

The following page (or the home page) will appear.

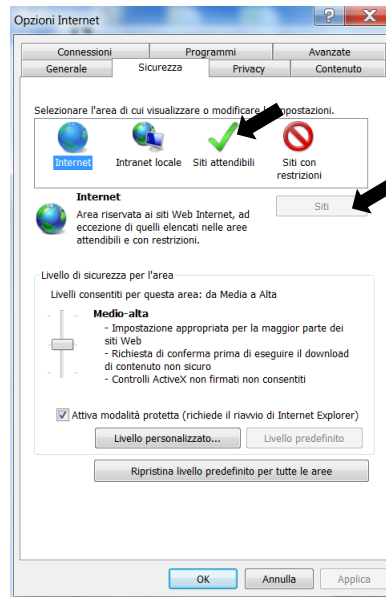


Select **Tools → Internet Options** in the menu in the Internet Explorer window.

The **Internet Options** window will appear. Select **Security**.

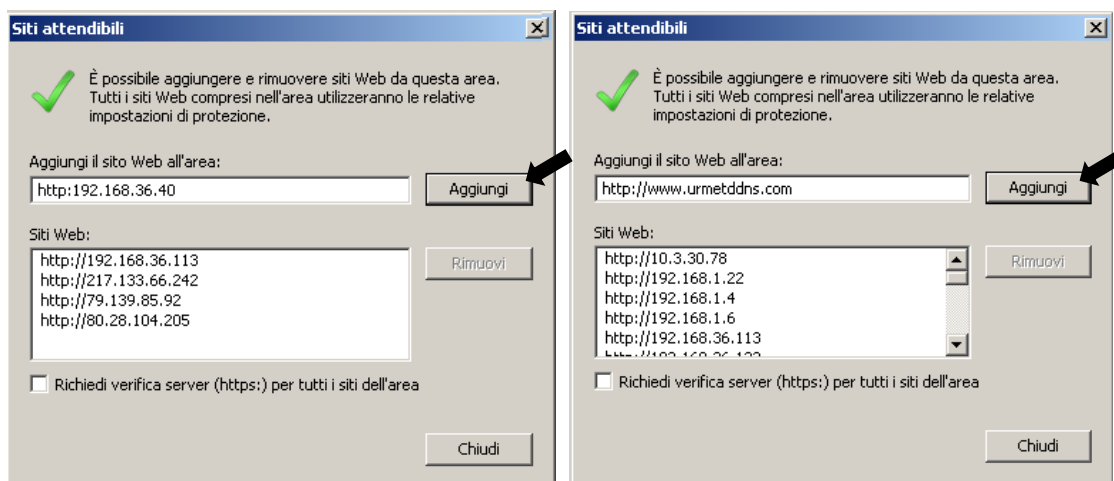


Select the “**Trusted Sites**” area.



Click on “**Sites**”.

The following screen will appear. At this point, add the address of the device (e.g. <http://192.168.36.40> or the address of the URMET DDNS portal <http://www.urmetddns.com> or other URL, such as for example <http://urmetvcc.no-ip.org>) in the “*Add this website to the zone*” field.



Click on “**Add**”.

※IMPORTANT NOTE

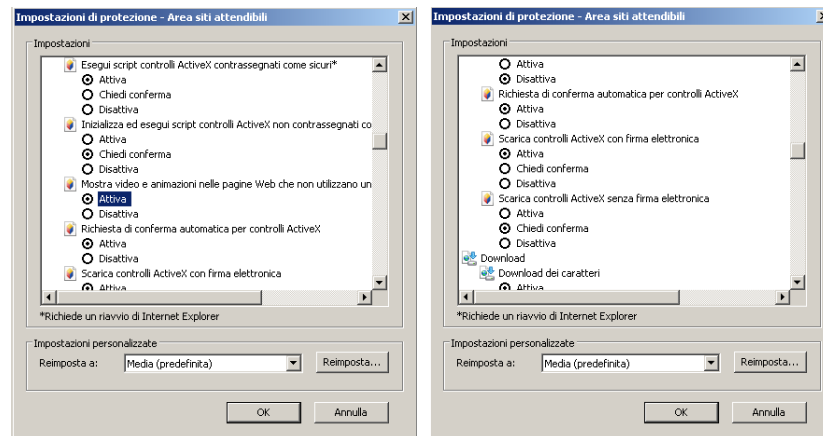
Do not check “Require server verification (https:) for all sites in the zone”.

Then click on “**Close**” to close the window.

Select “**Custom Level**” and check that:

“**Initialize and script ActiveX controls not marked as safe**” is set to “**Enable**” or “**Prompt**”

“**Download signed ActiveX controls**” is set to “**Enable**” or “**Prompt**”



Press “OK” repeated to confirm and quit Internet Options mode.

Proceed by installing Active X on Internet Explorer.

DS1098-038C

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