

Full User Manual

Network Video Recorder

PoE, H.265, HDMI, VGA, SATA, w/o HDD

> INR-18N040005A INR-28N080005A INR-18N320005A



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ABOUT THIS DOCUMENT

In this document you will find a comprehensive description of a specific series of devices, which we have prepared with great care and accuracy in order to provide you with a deep insight into the general functions and features that characterize this series of devices.

However, you should be aware that the detailed characterization presented in this document is based on the general product line. The individual feature set of specific models or designs within this series may vary depending on their configuration.

The variations may be reflected in an expanded or limited scope of functions and features, thus the actual specifications of individual products may differ in some respects from the designs set forth in this document.

For this reason, we strongly recommend that you thoroughly consult the specific data sheet for the product in question. The data sheet contains specific, detailed information tailored to the particular model. It is the primary reference document that provides the most authentic and accurate information on the individual functionality and features of each specific product in our device series.

We thank you for your understanding and willingness to invest time in acquiring accurate knowledge about the specific product you have selected from our device series. Please do not hesitate to contact us should you have any further questions or require additional information.



SAFETY INSTRUCTIONS

Read the safety instructions and the operating instructions carefully before installing the product.

Depending on the product type, individual points may be omitted.

Mounting & Installation

- Ensure that the intended mounting location is suitable for the respective product (e.g. in terms of weight).
- Securely fasten the products to the locations and surfaces recommended by the manufacturer to ensure stability and safety.
- Ensure that the products are weatherproof when installed outdoors, e.g. protect cameras from direct sunlight or extreme temperatures.
- Make sure that any ventilation slots are not blocked to ensure sufficient air circulation and cooling.
- Make sure that cameras, switches, etc. are installed with sufficient safety distance to flammable materials, power sources, running water, etc.
- Assembly, commissioning and maintenance may only be carried out by authorized specialist personnel in compliance with the relevant standards and guidelines.

Power supply & wiring

- To ensure a safe power supply, use only power supplies and cables recommended by the manufacturer.
- Make sure that the cables are properly routed and protected from tampering and damage (e.g. kinking) to avoid power failures or short circuits (e.g. due to moisture ingress).
- Make sure that the cables are not routed through doors, windows or other moving parts to avoid damage and tripping hazards.
- To disconnect the system from the power supply, pull the cable only by the plug and never directly by the cable.
- When shortening flexible connection cables, use wire end ferrules.

Security

- Use strong passwords for all cameras and devices to prevent unauthorized access.
- Keep device firmware up to date to minimize security vulnerabilities.
- Protect (remote) access to the devices using secure methods such as encrypted connections or VPN.



Operation

- The devices may only be operated within the temperature and humidity ranges specified in the data sheet.
- Sufficient ventilation must be provided to prevent overheating. This applies in particular to devices such as recorders and switches that can generate heat.
- Ensure that no sight lines are blocked and that accessories do not obscure areas used by other equipment or people.
- Ensure cameras are oriented to provide a clear view of the desired area without interfering with people's privacy.

Cleaning & Maintenance

- Clean the lenses and housings of the cameras regularly to ensure a clear view.
- Keep the ventilation slots clean and free of dust to ensure efficient cooling.
- Use a mild detergent for cleaning. Harsh cleaning agents such as thinner or benzine may permanently damage the surface.
- Check the product regularly for damage and signs of wear.
- Only use original spare parts (e.g. connection cable) or accessories from VIDEOR E. Hartig GmbH.
- Any tampering by unauthorized persons will void the warranty.
- Before opening the housing, disconnect the power supply.

Warning, Privacy & Legal Notices

- Draw the attention of visitors to the fact that they are being recorded by means of clearly visible notices.
- If necessary, point out rules of conduct.
- Ensure that cameras are oriented in such a way that privacy is not violated, e.g., by recording neighbours or public areas.
- Comply with local laws and regulations on video surveillance and data protection (GDPR).



OPEN SOURCE SOFTWARE LICENSE INFORMATION

The software components provided with eneo products may contain copyrighted software that is licensed under various open source software licenses. For detailed information about the contained open source software packages, the used package versions, license information and complete license terms, please refer to...

- the open source information included in your products user interface,
- the product detail pages on the eneo website (www.eneo-security.com),
- the eneo download portal (https://datacloud.videor.com/s/eneodownloadportal). In case that
 previous link is broken, the latest link to the eneo download portal can be found on the respective
 eneo product page at www.eneo-security.com.
- the download package of your firmware. The complete open source software license information
 of your product is included in the corresponding software download package that can be found in
 our download portal.

If you are missing any information, please contact **opensource@eneo-security.com**, we will of course be happy to provide you with the missing information and will also make the missing information available to the public.

If you want to get access to the open source components (source codes) used in our products, please contact **opensource@eneo-security.com**.

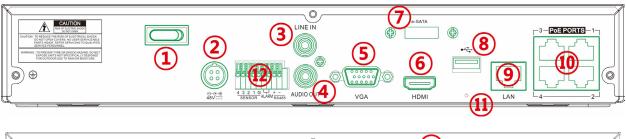


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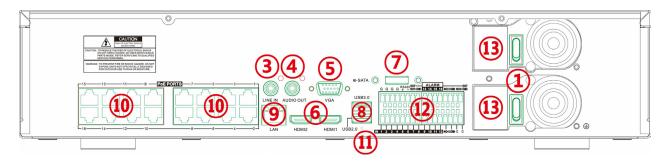


1 - PRODUCT OVERVIEW

1.1 - Rear Panel







No.	Item	Description	
1	Power Switch	o turn on or turn off the power of the NVR	
2	DC Power Input	connect to the attached DC power adapter	
3	LINE IN	Audio line input. Connect to audio input device, such as microphone, sound pick-up.	
4	AUDIO OUT	Audio output. Connect to audio output device, such as loud speaker.	
5	VGA	Connect to a VGA monitor.	
6	HDMI	Connect to HDMI display device	
7	e-SATA	Connect to an external e-SATA storage device for recording or backup	
8	USB	Connect to USB device, such as USB mouse or USB flash drive.	
9	LAN Port	RJ45 network interface. Connect to router or network switch.	
10	PoE Ports	PoE network ports for IP camera connection. *It is strongly recommended that only 1 camera is connected to an individual PoE port.	
11	RESET Button	Press and hold 10 seconds on the button with a small pin to load all settings to default value.	
12	Sensor, Alarm & RS485 Terminals	SENSOR & G: connect to external sensors; ALARM: relay output, connect to external alarm device; RS485: Connect to PTZ device, such as speed dome camera	
13	AC Power Input	Connect to AC power cord	



The terms HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries



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1.2 - Remote Controller



Button	Functions			
0 to 9	Numeric keys; Press number 1 to 9 to display channel 1 to 9 directly. Press combination of numbers quickly to display the channel lager than 9.			
ALL	Press to switch the channel display layout among multiple display modes			
MENU	Press to display the Task Bar while in live view; Exit and back to previous page while in system menu.			
MUTE	Mute or activate the audio output volume			
SUBMENU	First press to display the Taskbar while in live view; Second press to display the Camera Quick Toolbar.			
▲▼	Move upward or downward; Turn up or turn down the audio volume			
•	Move left or right; Decrease or increase the parameter value in system setting menu			
SEL	To confirm the choice or setup			
••	Rewind button. Press to play video fast rewind in different speed			
••	Forward button. Press to play video fast forward in different speed			
	Play button; Enter search menu			
	Manual record button			
	Stop manual record or stop the video playback; Press and hold 3 seconds to reset the VGA/HDMI output resolution to default value.			
II	Press to pause video play			

i NOTE: Your NVR might be packed without remote controller



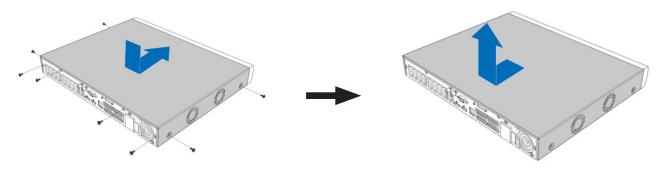
2 - INSTALLATION & CONNECTION

2.1 - HDD Installation

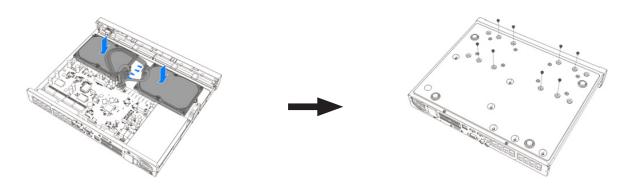
Depending on the NVR you have purchased, the hard disk drive (HDD) may be included in the full package. If it is not pre-installed, follow the installation instructions on this user manual.

Installation

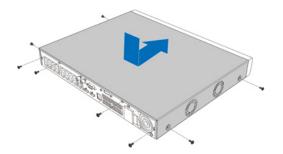
1. Power off the NVR, remove screws on both sides & rear panel and open the upper cover.

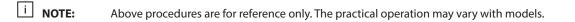


2. Connect the data and power cables to the HDD and place it on the bottom case. Carefully flip the case and secure the HDD to the case with screws.



3. Put the upper cover back carefully, and fix the cover with screws.

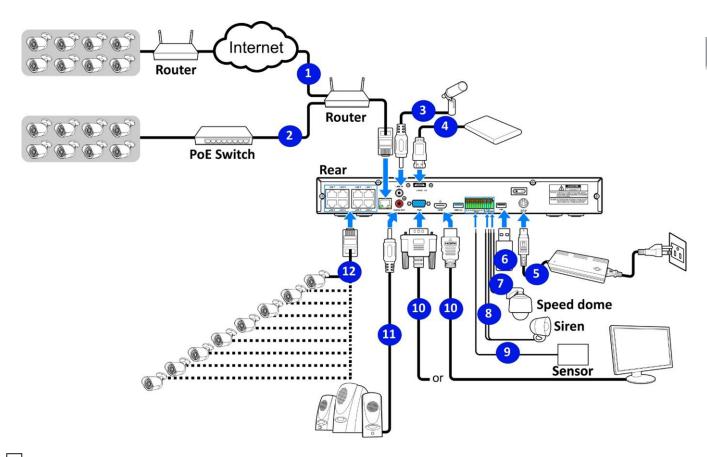






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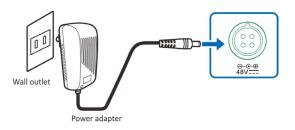
2.2 - Connection Diagram



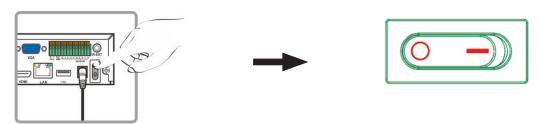
NOTE: Above connection diagram is for illustration purpose only. The interfaces in your actual product may vary with models.

2.3 - Power Supply Connection

CAUTION: Use the power supply attached or specified by the manufacturer only. Contact your local dealer if any problem with the power supply is found.



You may need to press the power switch to turn on the NVR if there is a power switch on the rear panel of your NVR.





Above pictures are for illustration purpose only. The interfaces in your actual product may vary with models.



3 - COMMON OPERATIONS

3.1 - Using the supplied mouse

A - Left Button

- Click to select menu options.
- During live viewing in splitscreen view, double-click on a channel to view it in full-screen. Double-click the channel again to return to split-screen viewing.
- Click upon a channel on Live Viewing screen to open Camera Quick Toolbar.
- Click and hold to drag sliders and scales on menu mode

B - Right Button

- Click once to open the Taskbar on the Live Viewing screen. View Taskbar on 4.2.2 Taskbar.
- In menus, click to go back / close menus.

C - Scroll Wheel

- In menus, scroll to move up / down through the menu content.
- While hovering over the volume control wheel, scroll to turn system volume up / down.

3.2 - Using virtual keyboard

You will see the virtual keyboard automatically on the screen when you need to enter data, such as enter password, camera title, etc.



- 1 Click to toggle the keyboard to upper case and more punctuations
- 2 Move the cursor to left
- 3 Move the cursor to right
- 4 Click to delete a character
- 5 Click to finish



3.3 - Password

Proper configuration of all passwords & other security settings is the responsibility of the installer and/or end-user.

3.3.1 - Password Generation

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.

Language: Choose an available OSD language

Device ID: Input the device ID in the parentheses. Default ID is 000000. View more about Device ID on 5.7.1. General.

New Admin Password: To set your own password. The password must be a combination of 8 to 16 characters, which is combined with at least 2 kinds of different characters from uppercase letters, lowercase letters, digit numbers and special symbols.

Confirm Password: Enter the password again.

Unlock Pattern: Select Enable to draw your pattern lock.

Click **Apply** to confirm your settings. The system will require to set the password recovery questions in case you forget the password.

Language
ENGLISH

Device ID
000000

New Admin Name
admin

Password Strength
Medium

New Admin Password
Image: Confirm Password

Confirm Password
Image: Confirm Password

Unlock Pattern Enable
Enable

Enable
Apply



•
`
•

Tick the box of **Security Question Configuration**, and then choose 3 questions and input your answer to each question.

If you tick the box of **Certificate of Authorization**, you need to click the **Export** button to save a secret key to your USB flash drive. It will help to reset the password with the secret key in future.



3.3.2 - Password Reset

If you forget your password, you will be unable to login the system, reset your password with below methods:

3.3.2.1 - Reset with password recovery questions

If you had enabled the password recovery questions in 3.3.1. Password Generation, you are able to reset your password with security questions.

		Unlock		×
Current User:	admin			
Device ID	000000		(000000)	
Password				
		Forgot Password		

1. Click the **Forgot Password** button on the login window.

Verification Mode	Security Question Verification	
Security Question 1		
Answer		
Security Question 2		
Answer		
Security Question 3		
Answer		
Password		
Password Strength		
Confirm		

2. Choose Security Question Verification. Input the answer to each question and then input new password. Click OK to activate the new password.

3.3.2.1 - Reset with secret key

If you had exported the secret key in 3.3.1. Password Generation, you are able to reset your password

with secret key.

		Unlock		×
Current User:	admin			
Device ID	000000		(000000)	
Password				
		Forgot Password		

1. Click the **Forgot Password** button on the login window.

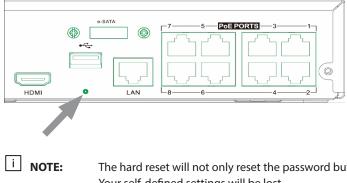


2. Choose **Certificate of Authorization**. Click Import button to load the secret key from your USB flash drive, and then input new password. Click **OK** to activate the new password.



3.3.2.3 - Hard Reset

If you are unable to reset the password with any one of the methods of A, B and C, you can try to hard reset your NVR if there is a Reset button on the rear panel.



Press and hold 10 seconds on the button with a small pin till the NVR beeps.

DTE:The hard reset will not only reset the password but will also load all system settings to default value.
Your self-defined settings will be lost.



4 - NVR STARTING UP

4.1 - Start Wizard

For the first time when your run this NVR, you may need to configure the Startup Wizard which will help

to configure the system and get your NVR works properly and quickly.

Log in the system and click the **Start Wizard** to proceed to the next step.



4.1.1 - Network Configuration

If you connect to a router allows to use DHCP, please tick the DHCP box. The router will assign

automatically all the network parameters for your NVR. Unless the network is manually addressed below parameters:

Network			
Local Connection			
DHCP			
IP Address			
Subnet Mask			
Gateway			
IPv6 Address			
IPv6 Gateway			
DNS			
DNS1			
DNS2			
Port			

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

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

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

IPv6 Address: Input the IPv6 address you got from your ISP.

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



 Port

 Port
 Service
 Protocol
 Internal Port
 External Port
 UPNP Status
 Mapin

 1
 Http/Https/RTSP
 TCP
 00080
 00080
 Inactive
 Auto

 2
 Client
 TCP
 09000
 09000
 Inactive
 Auto

http/https/rtsp: This is the port that you will use to log in remotely to the NVR (e.g. using the Web Client), or the NVR will be allowed to transmit real-time streaming to other device (e.g. using a streaming Media player.). The ONVIF is using the same port also.

If the default port 80 is already taken by another application, please change it.

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

Port							
э	•	Protocol	Internal Port	External Port	UPNP Status	Maping Strategy	UPNP
3	RTSP	тср	00080		Inactive	Auto 🗸	
		ТСР	09000		Inactive	Auto 🗸	

Internal Port: Mainly used for LAN connection.

External Port: Mainly used for WAN / Internet connection.

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

Mapping Strategy: If you want the port randomly distributed by the router UPnP server, choose **Auto**; If you want to manually forwarded the port, choose **Manual**.

PPPoE: This is a protocol that allows the NVR to connect to the network directly via a DSL modem.

Tick the Enable PPPoE box, and then enter the User name & Password of the PPPoE which is provided by

your ISP.

Port

PPPoE	
Enable PPPOE	
User	
Password	



4.1.2 - Date/Time

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

Date/Time

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

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

Time: Edit the system time.

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

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

Time Zone: Choose your time zone.

Date/Time			
Date and Time	NTP	DST	
Date		04/15/2021	ü
Time		11:28:21	
Date Forma	at	MM/DD/YYYY	~
Time Forma	at	24Hour	~
Time Zone		GMT+08:00	~

NTP

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

Date/Time Date and Time NTP DST Enable NTP Server Address Update Now Update Now

DST

DST stands for Daylight Savings Time.

Enable DST: Tick to enable if Daylight Saving Time (DST) is observed in your region

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

DST Mode: Choose to set the daylight-saving time in weeks or in days

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

Date and Time	NTP DST						
Enable DST							
Time Offset	1Hour	× ~					
DST Mode	Week	~					
Start Time	Mar.	~	The 2nd	~	Sun.	~	02:00:00
End Time	Nov.	~	The 1st	~	Sun.	~	02:00:00



4.1.3 - IP Camera

Add IP cameras to the NVR in this section.

4.1.3.1 - Connect IP Camera to NVR PoE Ports

IP cameras will get online automatically if the IP cameras are connected to the PoE ports on the rear panel. The online cameras will be displayed on the right side of the window.

		v	Vizar	d				×
IP Camera								
No.	IP Address/Hostname	Port Manufact			Channel	Edit S	tate IP	Address/Hostname
					CH1		• 1	10.10.25.151
					CH2			10.10.25.152
					СНЗ			10.10.25.153
					CH4		2	10.10.25.154
					CH5			
					CH6			
			-		CH7			
					СН8			
					СН9			
					CH10			
					CH11			
					CH12			
					CH13			
Search								
					Pre	vious	Next	Cancel

- 1 If the camera is failed to connected, the state will be displayed with a grey icon.
- 2 If the camera is successfully connected, the state will be displayed with a green icon.

Click on the grey icon, a message will be pop-up to tell the failure reason. If it shows "User name or password error!", click the edit icon, and then input the correct user name and password of the camera.

	Channel	Edit S	State	IP Address/Hostname
	CH1		Þ	10.10.25.151
POE	CH2	1	D	10.10.25.152
POE	СНЗ	1	Ð	10.10.25.153
	CH4			10.10.25.154
	User na	me or pass	sword	error !

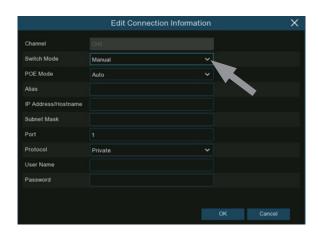
	Edit Connection	Information	×
Channel			
Switch Mode	Auto	~	
POE Mode	Auto	~	
Alias	CH2		
IP Address/Hostname	10.10.25.152		
Subnet Mask	255.255.000.000		
Port	13182		
Protocol	Private	~	
User Name	admin		
Password			



4.1.3.2 - Add IP Camera to PoE NVR from LAN

If you want to add an IP camera to the PoE NVR from LAN, please make sure your NVR is well-connected to the LAN, and the IP camera you want to add is in the same network segment with your NVR.

- Click the edit icon
 ín the channel you
 want to add, and then click the drop-down
 arrow next to Switch Mode to select Manual
 and click OK to save.
- Click the Search button on the left bottom corner of the window, all available cameras in the LAN will be displayed. Select the camera you want to add, then click the add icon
 Or click the Add icon
 in the channel list and then click Search button, all available cameras in the LAN will be displayed. Click on the camera you want to add.
- Input the user name and password of the camera, and then click Add button to complete.



No. P Addre	ss/Hostname	Post	Manufacturer	Active state	Device Type	MAC Address
	68.5.111	9000		None		00-23-63-81-4E-11
IP Address/Hostname	192.168.5					
Alas	CHS					
Port	9000					
Protocol	Private					
	admin					
User Name						
Oser Name Password						

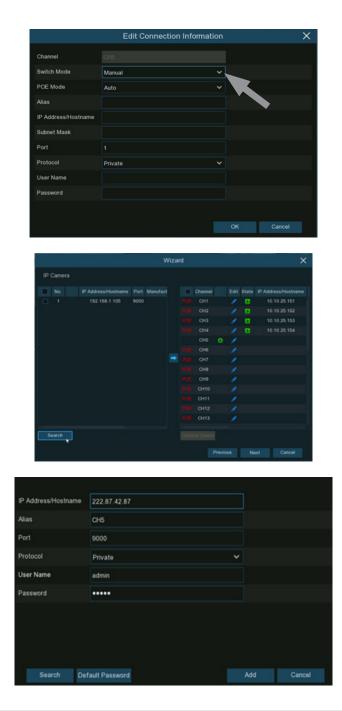
			IP Address/Hostname		Manufact		m	Channel	Edit	State	IP Address/Hostnam
			192.168.1.105	9000			-	CH1			10.10.25.151
			192.108.1.105	9000							10.10.25.151
								10.10.25.153			
								CH11			
								CH13			



4.1.3.3 - Add IP Camera to PoE NVR from Internet

If you want to add an IP camera to the PoE NVR from internet, please make sure your NVR is wellconnected to internet.

- Click the edit icon
 ín the channel you
 want to add, and then click the drop-down
 arrow next to Switch Mode to select Manual
 and click OK to save.
- 2. Click the Add icon 😳 in the channel list.
- Input the IP camera's internet IP address, port, protocol, user name and password.
 Click Add button to complete.



4.1.3.4 - Add IP Camera to Non-PoE NVR

For Non-PoE NVR, you need to add the IP cameras from LAN and/or Internet manually.

Please refer to 4.1.3.2. Add IP Camera to PoE NVR from LAN & 4.1.3.3. Add IP Camera to PoE NVR from Internet.



4.1.4 - Disk

HDD must be formatted If it is installed in the NVR for the first time.

Select the HDD and then click **Format HDD** button to format the HDD.

			w	/izard		×
Disk						
	Slot No.	Serial No.	Edit	Model	Firmware	Туре
	HDD1	WD-WCAV93VZ0RHX		WDC WD5000AVDS-73U7B1	01.00A01	RW
	HDD2	Z52B8EAG		ST2000VX008-2E3164		
Overwrite	Auto					
					Next	

Overwrite: This instructs your NVR to overwrite the oldest video files as the hard drive becomes full. You also have the option of selecting the amount of days for recordings to be kept before they are overwritten. For example, if you choose the option 7 days then only the last 7 days' recordings are kept on the HDD.

To prevent overwriting any old recordings, select OFF. If you have set Off on this feature, please check the HDD status regularly to make sure the HDD is not full. Recording will be stopped if HDD is full. We recommended leaving the **Auto** selection as this prevents your NVR from running out of storage space.

Add NAS HDD: To add your NAS disk.

Record On e-SATA: If your NVR comes with an e-SATA port on the rear panel, you can enable to record the video to e-SATA HDD. This function only available when your e-SATA HDD has been connected to the NVR already.

4.1.5 - Resolution

Choose an output resolution matches to your monitor. The NVR supports to adjust the output resolution

automatically to match the best resolution of your monitor when the system is starting up.

Resolution		
Output Resolution	4K(3840x2160)	~
	Apply	

If you connect to a 4K HDMI monitor, you are able

to choose max. 4K (3840x2160) resolution.

If you connect a VGA monitor, do not choose the

resolution larger than 1080P(1920x1080).



4.1.6 - Mobile

If your NVR come with a P2P ID, you can scan the QR code with your mobile app to view the NVR remotely.

Mobile		
P2P ID		
P2P ID	TR111A	
Local Connection		
IP Address	172.16.3.90	$\langle V \rangle < 0$
Subnet Mask	255.255.255.0	in showing the
Port		
Http/Https/RTSP	13181	
Client	9000	

4.1.7 - Summary

You can tick the system summary information you had set in the start wizard and finish the wizard. Tick **"Don't show the Wizard after start."** if you don't want to display the Start Wizard after the system start. Click **Finish** button to save & exit.

IP Address		
Subnet Mask		
Gateway		
DNS2		



4.2 - Live View Screen Overview

For the first time when your run this NVR, you may need to configure the Startup Wizard which will help to configure the system and get your NVR works properly and quickly.



- 1 Channel No.
- 2 Status Icons
- 3 Camera Quick Toolbar
- 4 Start Menu
- 5 Task Bar
- 6 HDD Error Icon
- 7 Channel Abnormal Message
- 8 Status Bar
- 9 Alarm Notification Panel



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4.2.1 - Definitions of On screen Icons & Messages

Status Icons	
lcon	Meaning
	The camera is being recorded currently
*	A motion alarm is happening
\$	An intelligent or Ai alarm is happening
<	The external I/O alarm device is being triggered
PIR	The PIR alarm is being triggered
HDD Error Ico	ns
lcon	Meaning
8	HDD is uninstalled or in error
Ð	HDD is unformatted
	HDD is full
	HDD is read-only

Channel Abno	ormal Message
Message	Meaning
No Camera	No camera is added to this channel. You can click the add icon 🕂 to add a new camera.
Failed to connect to camera, please check the network connection!	The added camera is off-lined or lost connection. Please check the camera working status or network connection. You can click the edit icon 🖍 to check the camera status.
User name or password error!	Incorrect user name or password of the camera. Click the edit icon 🖍 to modify.
Resource Not Enough	No enough system resource to decode the camera images, please try to change the cameras to sub- stream mode; If there are 2 or more cameras are using MJPEG decoding, only 1 camera can be encoded at the same time.
No enough bandwidth for this camera!	The camera cannot get online because the total bitrate of all connected cameras exceeds the NVR's bandwidth limitation.

4.2.2 - Camera Quick Toolbar

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

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Toolbar.

lcon	Meaning
8	Click to manually record the channel immediately. If the manually recording is in process, the icon will be in red color. Click one more time to stop manual record.
0	Click to save a snapshot of the current camera image. Manual Capture must be enabled to use this feature. For details on enabling Manual Capture, see 5.2.3.1 Capture.
	Click to play the latest 5 minutes recording of this channel
Ģ	Click to enter PTZ control panel; Click to control zoom and focus of motorized varifocal lens
Ð	Click to zoom-in the channel. Scroll the wheel button of your mouse to zoom in and zoom out the image.
\$	Click to adjust the image color of the channel.
HDSD	To switch the live view video stream between HD & SD. HD is mainstream images, SD is substream images.
0	Click this button to enter fisheye mode. To use this button, device support is required and a fisheye camera should be connected first.
Ŷ	Click to start two-way voice communication
Ŷ	If your camera has white light LEDs, click this button to turn on or turn off the LEDs.
¢	If your camera has a built-in speaker, click this button to turn on or turn off the alarm sound.
Ŷ	If your camera has warning light LEDs, click this button to turn on or turn off the LEDs.
ବ୍ ଧ	Tag button. It supports to fast search by adding a tag in live view. See more on 7.5 Tag Search.
AI	Al statistics. Hover the mouse upon the icon to view Al statistics when the Al function is activated in your NVR.



4.2.3 - Taskbar

In the Taskbar, you are able to enter the system menu, start playback and change the live view display, etc.

〓. 田 囲 囲 囲 図 図 函 日 母 ⊡▲ 00 않 ぷ 図 うっ

lcon	Meaning
₽≣↓	Click to pop up the Start Menu
	Click to display 4/9/12/16 channels in live view screen
20 25 36	Click to display 20/25/36 channels in live view screen
E C	Click to choose more display layouts in live view screen
Ð	Click to start viewing channels in a sequence. You're able to set the sequence display mode on 5.8.1.4 Output Configuration.
	Quick playback. You can choose to play the recording for all channels from the beginning of the day, or you can choose the play the latest 5 seconds, 10 seconds, 30 seconds, 1 minute or 5 minutes by clicking the triangular button .
c]»	Click to adjust audio output volume
HD 7 L SD	Click to switch the live view image resolution for all channels between mainstream and substream.
s,	Click to switch the image scale for all channels between original and stretch.
De la	Click to switch among real-time, balanced, or smooth view. It affects the live view video quality by changing the bitrate and frame rate.
57	Click this button to restore the scrambled channel positions.

4.2.4 - Status Bar

In the Status Bar, you are able to check the network connection status, turn on/off white light LEDs and alarm sound, start and stop manual record, check the system information, disable mouse and system

time.

🖳 🜍 Ѽ 🎲 🕄 🧿 🗂 🖓

lcon	Meaning
X	Network is disconnected.
 	Network is connected but offline.
•••	Network is well connected.
\odot	The device is in arming status.
۲	The device is in disarming status.
\$ }	To turn on or turn off all the white light LEDs and alarm sound for available cameras.
Ğ	To operate manual record and manual relay alarm output
í	To view system information, channel information, record info and network state.
8	The device is connected through USB_WIFI and is recognized successfully. It can access the Internet through WiFi. For more information, see Section 5.5.1.4.
Ţ	Click this button to switch the mouse between the primary screen and the secondary screen. To use this button, device support is required.



4.2.5 - Start Menu

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

கி admin	Item	Description
	& admin	To switch user. To enable multi-user, please view on 5.7.2. Multi-user.
Q Search	Q Search	Search & Playback. View more on Chapter 7. Search, Playback & Backup.
Setup	🔅 Setup	NVR System Setup. View more on Chapter 5. System Setup
Lock Screen	🔓 Lock	
	🔒 Unlock	Lock & unlock screen.
😃 Shutdown	🕛 Shutdown	Shutdown, reboot & logout the system.

Unlock and Lock Screen

The screen will be locked automatically to protect unauthorized OSD operation while the NVR is not in menu operation if you have set a Menu Timeouts in 5.7.1.1 System General Setting.

If necessary, you can also lock the screen operation manually. Go to Start Menu, and then click the Lock

Screen icon 🛅 to lock the system immediately.

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

Shutdown

Click the **Shutdown** button from Start Menu, you're able to shut down, reboot or logout the NVR.

Click OK button, system will require to input the user password to authenticate.



4.2.6 - Fisheye Camera

After a fisheye camera is added to the device and the device goes online, the fisheye operation icon is displayed in the shortcut menu of the preview channel area and the playback menu.

You can click the o button to open the fisheye-mode operation page.





On the fisheye-mode operation page, click the button on the toolbar at the bottom to open the menu for setting the fisheye camera installation mode.

Then, select the mode in accordance with the actual installation mode, and save the setting to make it take effect.

After the corresponding fisheye installation mode is set, the viewing modes supported in the selected installation mode are displayed on the toolbar at the bottom. You can switch the modes as needed and you can also drag and zoom the screen.





4.2.7 - Alarm Notification Panel

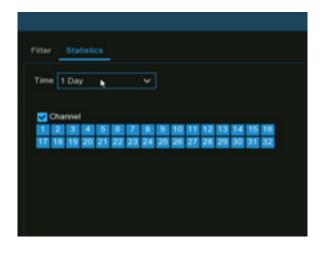


The Alarm Notification Panel displays thumbnails of alarm events that have occurred. Events are color-coded according to the event type. Use the mouse scroll wheel to scroll up and down (place the mouse cursor over the notification panel first). Click the play button next to or over the thumbnail to play the event.

- 1. Click to display the notification panel at all times.
- 2. Click to hide the notification panel.
- 3. Click to reveal AI statistics information.
- 4. Click to reveal the Filter and Statistics functions (shown below).

Use the Filter function to customize which alerts and which camera will appear in the notification panel. You can also customize the time duration and channels you want to display in Al statistics.

		×	5
Filter Statistics			
Show All Alarm			
PID [Haman-Al]	PID [Motor Vehicle-Al]	PID [Non-motorized Vetecle-Al]	
LCD (Human-Al)	LCD [Motor Vehicle-Al]	LCD [Non-motorized Vehicle-Al]	
🗖 😴 FR [AI]	Human (AI)	Motor Vehicle [AI]	
Non-motorized Vehicle Al	🔤 😴 License Plate [Al]	Motion	
🔲 🔽 KO	🔜 🕶 हल	PID 20	
LCD	🔲 🗹 SOD	PD & VD	
PD	🔲 💟 OC	Sound	
🔲 🖾 VT		00	
🗖 🔽 LPO	🔲 🐷 RSD		
Channel			
	10 11 12 13 14 15 14		
12 18 19 20 21 22 23 24 25	26 27 26 28 29 20 21 22		
		Apply Exit	





5 - SYSTEM SETUP

You are able to configure the NVR for Channel, Record, Alarm, Network, Device, System, AI, AI Scenario from Start Menu \rightarrow Setup.



5.1 - Channel

In this section, you are able to manage the camera connection, live view display, camera's image, PTZ setup, video cover, motion setup, and more.

		Channel		DE Power													
Live		No.	Edit	IP Address/H	lostname 🔺	Port	Channe	I Count	Manufa	cturer Active state	Device Type	MAC A	Address	Soft	tware Ver	sion	
mage Control			1	172.20	.53.22	80				Inactivated	30KQ	00-23-6	63-90-8D-5A	V31.3	5.8.2.3_2	21019	
				172.20	.53.23	80				Activated	IP CAMERA	00-23-6	63-8B-A4-94	V31.3	5.8.2.3_2	21019	
Video Cover				172.20	.53.24	80				Activated	IP CAMERA	00-23-6	63-8B-A4-E0	V31.3	5.8.2.3_2	21019	
Motion				172.20	.53.26	80				Activated	IP CAMERA	00-23-6	63-94-06-C0	V35.4	5.8.2.3_2	20827	
NOLION				172.20	.53.27	80				Activated	IP CAMERA	00-23-6	63-90-11-7C	V31.3	5.8.2.3_2	21019	
PIR				172.20	.53.28	9000				None	IP CAMERA	00-23-6	63-8F-44-E2	V12.4	\$5.7.1_21	0729	
ROI				172.20	.53.29	80				Activated	IP CAMERA	00-23-6	63-99-F2-2C	V1.0.0.B000	1701020	104_220719	
				172.20	.53.33	80				Activated	IP CAMERA	00-23-6	3-91-EC-CE	V31.3	5.8.2.3_2	21019	
				172.20	.53.37	9988				None	IP CAMERA	BC-51-F	FE-09-E1-05	V4.4	1.5.2_200	0301	
				172.20	.53.43	80				Activated	IP CAMERA	00-23-6	63-94-7D-E9	V27.4	5.8.2.2_2	20608	
	5	Search		Add	Add All												
		Chan		vitch Mode 🗸	POE Mode		Edit	State		P Address/Hostname	Subnet Mask	Port	Manufacturer	Device Type	Protocol	MAC Address	Softwa
		СН		Auto	Auto												
		CH		Auto	Auto												
		CH1	0	Auto	Auto												
		CH1		Auto	Auto												
		CH1	2	Auto	Auto												
		CH1		Auto	Auto												
		CH1	4	Manual	Auto				1	72.20.53.30	255.255.255.0	0 80		30KQ-Alarm	Private	00-23-63-9E-7B-D4	V31.35.
		CH1	5	Manual	Auto				1	72.20.53.34	255.255.255.0	0 80		IP CAMERA	Private	00-23-63-8B-E1-5D	V21.45.
		CH1	6	Manual	Auto		1	Þ	1	72.20.53.66	255.255.0.0	80		IP CAMERA	Private	00-23-63-97-17-46	V30.85.8



5.1.1 - Channel

You're able to add and delete IP cameras in this menu. If your NVR comes with PoE ports, you're able to check the PoE power consumption here.

5.1.1.1 - IP Channels

To add or delete IP cameras here.

If your NVR comes with PoE ports, please go to 5.1.1.1.1 PoE NVR Connection.

If your NVR comes without PoE port, please go to 5.1.1.1.1.2. Connect External Cameras from LAN or Internet.

5.1.1.1.1 - PoE NVR Connection

For the PoE NVR, it is allowed to connect the IP cameras via the internal PoE ports and/or external

LAN(WAN) port. PoE not only provides power over ethernet but only supports plug & play connection for

IP cameras.

I NOTE: It is not recommended to connect more than 1 camera via switch or router to the PoE port. One PoE port is allowed to connect one IP camera only.

Channel	Switch Mode 🛩	POE Mode 🗸	Edit	State	IP Address/Hostname	Subnet Mask	Port	Manufacturer	Device Type	Protocol	MAC Address	Software \
CH1	Auto	Auto	1	D.	10.10.25.151	255 255 0.0	80		IPCAMERA	Private	00-23-63-97-0D-F6	V21.45.8.2
CH2	Auto	Auto			10.10.25.152	255.255.0.0	13182		OPD3	Private	00-23-63-8A-25-E5	V21.45.7.0
CH3	Auto	Auto	1	Ð	10.10.25.153	255.255.0.0	80		IP CAMERA	Private	00-23-63-92-CF-98	V31.35.8.2
CH4	Auto	Auto			10.10.25.154	255.255.0.0	9000		GW85371P	Private	00-23-63-84-4E-B7	V14.45.5.0
CHS	Auto	Auto	1									
CH6	Auto	Auto										
CH7	Auto	Auto	1									
CH8	Auto	Auto										
CH9	Auto	Auto	1									
CHIO	Anto	Artin										

Switch Mode: Auto mode supports Plug & Play connection via PoE port. If you want to add camera(s) manually, click the edit icon \checkmark and then change the mode to be Manual, or you can click the drop-down arrow to change all channels to be Auto or Manual mode.

PoE Mode: with Auto mode, the maximum bandwidth is limited to 100Mbps. With ePoE mode, the maximum bandwidth is limited to 10Mbps and PoE transmission distance will be extended up to 200 meters with RJ45 cable at CAT 5E or above standard. If you have a connection problem with Auto mode when the IP camera is powered by PoE via a RJ45 cable longer than 100 meters, then change to ePOE mode for a stable connection. If the video is stuck while in ePoE mode, try to reduce the encoding bitrate.



Edit: To edit the Switch mode, PoE mode, network parameters, user name and password for individual camera.

... . .

State: Show the	connection status of	of the comora			
State. Show the	connection status (Ji the Camera.	Alias		
			IP Address/Hostname		
14.1			Subnet Mask		
If the came			Port		
successfully con			Protocol		
the state will be o	displayed		User Name		
with a green	icon	IP Address/Ho	Password		
Auto	1	10.10.25.151			Cancel
Auto	🔹 🧨 🛛 🔸	10.10.25.152			
Auto	× D	If the came connect, the sta		s-	
Auto	1	played with			

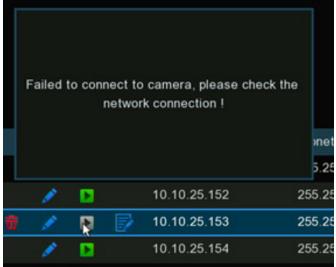
tch Mode

Click on the icon, a message will be pop-up to tell the failure reason.

If the failure reason is "User name or password error", it means the camera user name and password is different from the default user name and password. Click the edit 🖍 icon and then change to its correct user name and password.

If the failure reason is "Failed to connect to camera, please check the network connection", it means the network parameter might be incorrect or incompatible ONVIF protocol. Click the edit icon 🖍 and then change to correct network parameter.

	Channel	Edit	State	IP Address/Hostname	3				
	CH1	1	Þ	10.10.25.151	1				
	CH2	1	Þ	10.10.25.152					
POE	СНЗ	1	Þ	10.10.25.153		F	ailed 1	to con	nect to
	CH4	1		10.10.25.154					networ
	User na	me or pa	ssword	error !			1		
						ū	1	N	
							1	D	
-									



Edit Connection Information

Auto Assign IP to Camera(s): If the camera you want to add manually is not in the same network segment, it might be failed to add the camera. You can use this function to change the IP address of the camera(s).



Default Password

To configure the default user name and password of Private, ONVIF and RTSP protocol connection. Default password is "admin". Please note, if the user name and password of the camera you added is not same with the default values, you may need to input the user name and password each time after the NVR restarting.

Set T	he Protocol Default I	Password	
Protocol	User Name	Passwo	
Private	admin	•••••	Ø
Onvif	admin	•••••	ø
RTSP	admin		ø

Show Password

Tick to show the password of connected IP camera on the channel list.

Edit	State	Password	IP Address/Hostname	Subne
1		admin123.	10.10.25.151	255.2
1		admin@123	10.10.25.152	255.2
1		admin123.	10.10.25.153	255.2
1		admin	10.10.25.154	255.2
1				

5.1.1.1.1.1 - Steps to Connect Plug & Play PoE Cameras

- 1. Keep the default settings.
- 2. Change the default user name and password to be same with the camera's.
- Make sure your IP camera is set to DHCP IP address already. If your camera is set to static IP address which is different from the IP address segment inside the PoE router, your IP camera will be unable to get online. Check more in 5.5.1.1 Network → General.
- 4. Connect your IP camera into the PoE port on the rear panel.
- 5. Camera will be online and displayed in the camera list after its startup.

	Edit Connection Information
Channel	
Switch Mode	Auto 🗸
POE Mode	Auto 🗸
Alias	СНЗ
IP Address/Hostname	10.10.25.153
Subnet Mask	255.255.000.000
Port	80
Protocol	Private 🗸
User Name	admin
Password	••••••• k
	1 2 3 4 5 6 7 8 9 0 q w e r t y u i o p [] \ a s d f g h j k i : · · · ncel



5.1.1.1.1.2 - Connect External Cameras from LAN or Internet

If you want to connect to an IP camera from LAN or internet, please make sure your NVR is well-connected to the LAN and or internet.

If your NVR come with PoE ports, you need to change the PoE Switch Mode to be manual firstly.

If you want to all channels manually, click the dropdown arrow next to Switch Mode, and then select "Manual".

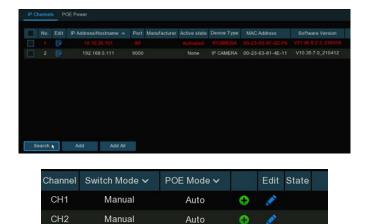
Switch Mode	✓ POF Mode ✓
Auto	Auto
Auto	Manual
Auto	Auto

If you want to add an individual channel manually, click the edit icon \checkmark in the channel list, and then click the drop-down arrow next to Switch Mode to select "**Manual**" and click **OK** to save.

Channel		
Switch Mode	Auto	~
POE Mode	Auto	
	Manual 🗼	

5.1.1.1.1.2.1 - Add Individual Camera in the LAN

- 1. Change the PoE mode to be Manual.
- 2. Click **Search** button, all available cameras in the LAN will be displayed.
- Or click the Add icon ^O in the channel list to add a camera to an individual channel. Click **Search** button, all available cameras in the LAN will be displayed.
- Click on the camera you want to connect, and then complete below parameters, and the input the user name and password of the camera and then click Add button.





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Alias: To define the camera ID title you want to display in the live view screen.

Port: Camera communication port.

Protocol: To select the connection protocol.

Bind channel: To determine which channel you want to add the camera.

Click Add button.

5. The added camera will be displayed in the channel list.

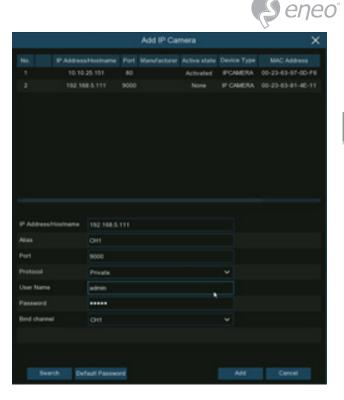
1	Channel	Switch Mode 🗸	POE Mode ✓		Edit	State		Password	IP Address/Hostname	Subnet Mask	Port	Manufac
]	CH1	Manual	Auto	ŵ	1	Þ	P	admin	192.168.5.111	255.255.255.0	9000	
	CH2	Manual	Auto	•	1							

5.1.1.1.1.2.2 - Add Multiplex Camera in the LAN

- 1. Click Search button, all available cameras in the LAN will be displayed. Or click Add All button, the NVR will search & add all available cameras in the LAN.
- Select the cameras from the search result, and then click "Add". You would need to input the user name and password of the cameras. Please make sure all the cameras you want to add use the same user name and password. Otherwise, the cameras with different user name and password will be unable to get connected.
- 3. The added cameras will be displayed in the channel list.

Υ.								
ž		1	10.10.25.151	80	Activated	IPCAMERA	00-23-63-97-0D-F6	V21.45.8.2.2_2204
~					None	OPD3	00-23-63-8A-25-E5	V21.45.7.0_21030
×			192.168.5.111	9000	None	IP CAMERA	00-23-63-81-4E-11	V10.35.7.0_21041
8	earch		Add All					

		Add IP Camera	a	
Port			🛃 Auto	
Protocol	Private	~	🖌 Auto	
User Name				
Password				





5.1.1.1.2.3 - Add Cameras from Other NVR in the LAN

The NVR allows to add cameras from other NVRs in

the local network.

1. Click Search button, all available devices in the LAN will be displayed. There is an edit icon + displayed if the device is an NVR.



IP Address/Hostn

₹

192.168.5.112

Port Manufacturer Active state

None

IP Address/Hostname

192.168.5.112-1

192.168.5.112-2

192.168.5.112-3

192.168.5.112-4

.

.

- 2. Click the edit icon + and select the camera channel one by one or tick the box 🔳 to select all cameras. Click icon to go back to search list.
- 3. Select the NVR in the search list, and then click Add button.



4. Input the user name and password of the NVR and then click **Add** button.

Port			🗹 Auto	
Protocol			🖌 Auto	
User Name	admin			
Password	******	Ø		
Password	•••••	Ø		
Password	•••••	Ø		
Password		Ø		
Password		Ø		
Password		Ø		

Add All

POE Mode V Channel Switch Mode V Edit State Manual Auto CH4 Manual Auto Manual Auto CH6 Manual Auto

~

5. The added cameras will be displayed in the channel list.



5.1.1.1.2.4 - Add Cameras from Internet

If your NVR is connected to internet, you're able to add cameras from internet with WAN IP address.

1. Click **Add** button in the search page.



 Input the IP address or domain name, port, protocol, user name & password of the IP camera.
 Click Add button to add the camera.

	188	
Protocol Pr		
	ivate 🗸 🗸	
User Name ad	lmin	
Password .		
Bind channel CI	47 🗸	

5.1.1.1.2 - Non-PoE NVR Connection

For Non-PoE NVR connection, please refer to 5.1.1.1.1.2 Connect External Cameras from LAN or Internet

5.1.1.2 - PoE Power

In this page, you will find the real-time power consumption of each PoE port, total actual power & rated power.

IP Channels	POE Po	wer										
4 71	W 3.8W	3 64W	2 81W									
1 - 8 🚺												
9 - 16 📊												
									3%			
Actual power	: 14.96W											
surplus powe	r: 445.04W	V										
Note:												
1. The rated												
 The range POE actual 					er of POE	port clos	sed until	l actua	l power b	below the	rated pow	/er.



5.1.2 - Live

Setup Channel	Record A	Varm Al	Network Sto	rage System					Θ	28 17 26 38
Channel	Live									
	Channel	Setup		Channel Name	Show Name 🗸	Date Format		Show Time 🗸	Refresh R	OSD Self-adaptiv
Image Control	CH1	۲		98525	~	YYYY-MM-00	24 Hour	¥	60Hz	×
				Cemera		1111-100 MM-00	12 Hour	N	60Hz	
PTZ	CHO	۲		Camera	5	1111-100-100-100	24 Hour	2	60Hz	×
Video Cover	CH4	G		holiday		MMCDAYAY	24 Hour	2	60Hz	2

To configure camera parameters, including channel name, color, date & time format, refresh rate, etc.

Convert: To hide the camera images in live view. If the covert is enabled, only live view images will be hidden. Recording images won't be affected. Enable this if your NVR and TV is in a public area (shop, warehouse, etc.), but you don't want others to see an image from the camera.

Channel Name: Give a name to the camera

Show Name: Leave this enabled to display the camera name in Live View mode, otherwise click the checkbox to disable it. It affects both live view & recording images.

Date Format: To choose a date format.

Time Format: To choose a time format.

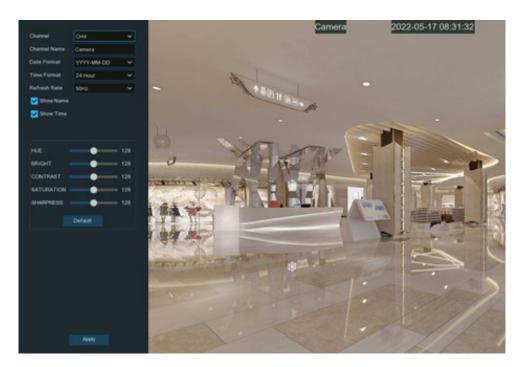
Show Time: Leave this enabled, as a timestamp will be embedded on all video recordings. Click the checkbox if you wish to disable it. It affects both live view & recording images.

OSD Self-adaptive: Used to set whether to change the font color of OSD in accordance with the screen background to ensure clear display.

Refresh Rate: Choose the right value according to the frequency of alternating current in your region.

Setup: Click 🔅 icon for more settings.





Channel: Select a channel to edit

Channel Name: Give a name to the camera

Date Format: To choose a date format

Time Format: To choose a time format

Refresh Rate: Choose the correct refresh rate

Show Name: To show or hide camera name

Show Time: To show or hide date and time

Alpha: Adjust the text transparency

This allows you to adjust how visible the OSD (camera name, date & time) will be in Live View mode. By increasing the value (move the slider to the right), you will see a surrounding rectangle underneath the OSD. This is beneficial for cameras that are pointing towards bright areas that make it hard to see the OSD.

HUE: Adjust the hue value which changes the color mix of the image.

BRIGHT: Adjust the brightness which changes how light the image appears to be.

CONTRAST: Adjust the difference in luminance that makes an object distinguishable.

SATURATION: Adjust the values to alters how much color is displayed in the image.

SHARPNESS: Used to adjust the image sharpness.

Click **Apply** to save settings. Click **Default** to load default settings. Click right button of your mouse to exit.



5.1.3 - Image Control

This menu allows you to control image settings for supported IP cameras. If the camera is connected to the NVR with ONVIF protocol, it might be not supported to configure.

Setup Char	nel Record	Alarm	Al Network	Storage Sys	tem							O 2023-02	26 14.32.51 🗲
Channel	Image C	Control											
	Channel	Setup	Image Setting	IR-CUT Mode	R-CUT Delay		Angle Flip	Angle Trad		3D Noise Reduction	DWDR	White Balance	Time Exposure C
	CH1	۲	Day/Night Mode	Automatic mode		OFF	OFF	180	OFF	Auto	OFF	Auto	Auto
	CH2		DayNight Mode	Image		OFF	OFF		OFF	Auto	OFF	Auto	
• PTZ	CH3	0	DayNight Mode	Automatic mode		OFF	OFF	180	OFF	Auto	OFF	Auto	Auto
Video Cover			DayNight Mode	Automatic mode			OFF			Auto	OFF	Auto	Auto
Motion	016	۲	Day/Night Mode	Image		OFF	OFF	180	OFF	Auto	OFF	Auto	Auto
	CH6		DayNight Mode	Automatic mode			OFF		OFF	Auto	OFF	Auto	Auto

Setup: Click 🧔 icon into the setup page.

Channel: Choose a channel to configure.

IR-CUT Mode: Lets you choose how the camera handles color and how it manages the transition from daytime to night-time and vice versa:

• GPIO AUTO will instruct the camera to switch automatically from "Color Mode" to "Black White mode" and vice versa. It is accomplished through the light sensor.



- Color Mode will instruct the camera to operate in color mode only. In low light conditions, the color will be quite faint. Image clarity will also be reduced in low-light conditions.
- Black White Mode will instruct the camera to operate in black & white mode only.
- Image Mode will instruct the camera to switch automatically from "Color Mode" to "Black White mode" and vice versa. It is accomplished through the software.
- Schedule allows to set the images as black & white color in a certain duration.

IR-CUT Delay: Controls the delay of the IR cut filter when transitioning from daytime to night-time. The default setting will be suitable for most camera locations but can be adjusted if needed. Click and hold the slider left or right to change. The higher the number, the greater the delay.

IR-LED: To configure the IR LRD lighting method.

- Smart IR: If you want the LED lighting to be managed by the system, then select this.
- **Manual:** You're able to configure the brightness of the LED lights including low-beam lights and highbeam lights individually.
- OFF: Turn off the LED light always

Lens Flip & Angle Flip: Turn the image upside down and/or horizontally reverse the orientation of the image.

Corridor Mode: This allows you to make better use of the camera's vertical angle for an optimized view of long, narrow scenes. Enable this if your camera is viewing a narrow corridor.

Angle Rotation: Rotate the image 180°.



Back Light: When the surrounding illumination and the object have large differences in brightness, you can enable the exposure compensation to get a better image.

- WDR/DWDR: Images produced by wide dynamic range (WDR) function sensors can have proper exposure on both the darker and lighter parts of the image, giving more detail across a wider dynamic range between the shadows and highlights by brightening dark areas and darkening bright areas. If it is enabled, click and hold the slider left or right to change the WDR Level.
- HLC: High Light Compensation (HLC) allows your camera to compensate for brighter parts of your image, maintaining detail in brighter parts of the image that would otherwise be blown out. When you enable HLC, the camera will take bright spotlight-like areas into consideration and adjust the exposure accordingly. With HLC, your camera will try to properly expose your entire scene while reducing the brightness of the highlights. If it is enabled, click and hold the slider left or right to change the HLC Level.
- **Back Light:** Back Light Compensation (BLC) allows you to choose which areas of your scene should be properly exposed instead of letting the camera choose for you. By enabling BLC, the camera over-exposes the brighter parts of your image in order to properly expose the darker parts. If it is enabled, click and hold the slider left or right to change the BLC Level.
- Disable: Disable exposure compensation.

3D Noise Reduction: Used to reduce the noise in the image so as to make the image clearer. There are three mode options.

- Auto: In this mode, the camera automatically selects the noise reduction effect in accordance with algorithms.
- OFF: The noise reduction function is disabled.
- **Manual:** In this mode, image noise is reduced in accordance with the noise reduction coefficient manually configured.

White Balance: Used to set white balance. There are two mode options.

- Auto: In this mode, the white light is adjusted by the default parameters.
- Manual: In this mode, you can manually set the synthetic gained white light of red, green, and blue.

Shutter: Used to set the shutter exposure time. There are two mode options.

- Auto: In this mode, a proper exposure time is automatically selected in accordance with the configured Time Exposure value.
- Manual: In this mode, the configured Time Exposure value is used.

Time Exposure: Used to set the exposure time of the camera. This parameter is used together with the Shutter parameter.

AGC: Used to set Automatic Gain Control (AGC). (It is supported by some models.)

Defog Mode: Used to set defog mode to optimize the display effect in foggy days. There are three mode options.

- **OFF:** The defog function is disabled.
- Auto: In this mode, the camera automatically judges the defog effect.
- Manual: In this mode, defogging is performed in accordance with the manually configured value.

Default: Click this button to restore the default image parameter setting.



5.1.3.1 - Full Color Camera Settings

If there is a full color camera connected to the NVR, an Image Setting option is displayed under the

Image Control setting page.

Full color camera includes not only IR LEDs, but also white light LEDs. You're able to determine the operating mode of the lights:

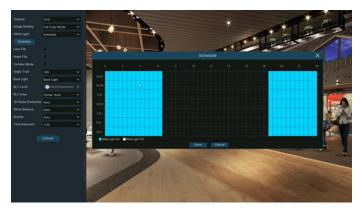
- Day/Night Mode: the camera will be working as a normal IR LED camera.
- Full Color Mode: the camera will be working as a full color camera. You're able to configure the brightness of white lights:
 - Auto: The brightness of the lights will be controlled by the system automatically according to the brightness of images.
 - Manual: The brightness of the lights will be controlled manual. You're able to set a fixed

Channel	CH4	~
Image Setting	Full Color Mode	~
White Light	Automatic mode	~
Sensitivity	0	~
Lens Flip		
Angle Flip		
Corridor Mode		
Angle Trad	180	~

value in the **Light Brightness** bar. The higher the number is, the brighter the lights are. Lights will be turned off if the value is set to 0.

Schedule: You're able to set the white lights turned on or turned off in certain durations. Each square represents 30 minutes. Using the mouse, click on a particular square to change or click and drag the mouse over the squares corresponding to your desired period. The white lights will be turned on if the time table is in blue color, oppositely the lights will be turned off if the time table is in black color.

- OFF: Turn off the white lights.
- Sensitivity: The higher the number is, the more sensitive the system will be to light up the white lights and vice versa.
- Schedule: the lights will be working according to the schedule. Camera works in full color mode if the time table is in blue color, oppositely the camera works in day & night mode if the time table is in black color.





ΕN

5.1.4 - PTZ

Setup	Channel	Record	Alarm	AI	Network	s	torage Sy	stem									
Channel		PTZ															
♦ Live		Ch	annel	Sign	al Type		Protocol		Baudrate		DataBit		StopBit		Parity		Address
Image Control			CH1	Anal	log	~	Pelco-D	*	9600	~		~		*	None	×	
			CH9	Digi	tal	×											
		c	H10	Digi	tal	¥											
Video Cover																	

This menu allows to configure the PTZ (Pan/Tilt/Zoom) settings for the speed dome cameras.

Channel: Channel name

Signal Type: If your PTZ camera is connected to the RS485 port, then choose "Analog",

otherwise choose "Digital".

Following items are available only for Analog PTZ only:

Protocol: Choose the communication protocol between the PTZ capable camera and NVR.

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

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

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

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

5.1.4.1 - MFZ & PTZ Control

In live viewing, click the left button of your mouse on a connected camera to pop up the Camera Quick

Toolbar.

Click the PTZ icon $\buildrel \buildrel \buil$





5.1.4.1.1 - Controlling Your MFZ Camera

You're able to adjust the optical lens to zoom in or zoom out if a MFZ (Motorized Focus & Zoom) camera is connected.

In live viewing, click the left button of your mouse on the MFZ camera to pop up the Camera Quick Toolbar. Click the PTZ button O to enter MFZ control panel.



Step: To set the steps of each movement of the MFZ lens

Zoom: To control the zoom in and zoom out:

- Single click on the button, the lens will perform one movement to zoom out the image and auto focus. Click and hold on the button to perform continuous movements till you release the mouse button.
- + Single click on the button, the lens will perform one movement to zoom in the image and auto focus. Click and hold on the button to perform continuous movements till you release the mouse button.

Focus: To fine turn the focus by manual:

- A single click on the button, the lens will perform one movement to focus out the image. Click and hold on the button to perform continuous movements till you release the mouse button.
- + A single click on the button, the lens will perform one movement to focus in the image. Click and hold on the button to perform continuous movements till you release the mouse button.

Auto Focus: Auto focus on the objects.

Restore: Restore the camera to default status.



5.1.4.1.2 - Controlling Your PTZ Camera

In live viewing, click the left button of your mouse on the PTZ camera to pop up the Camera Quick Toolbar. Click the PTZ button 🖨 to enter PTZ control panel.



Mode: To control the PTZ camera by PTZ, Preset, Line Scan, Watch Mode, Tour and Pattern Scan.

Directional Buttons: Click and hold the directional buttons to move the camera in the direction selected. Click the middle button **O** to continually rotate the camera towards the left (click the any directional button to stop). If you want to change the rotation speed, you need to stop the rotation firstly, and then start again after changing the speed.



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Speed: Adjust the speed control to alter how fast or slow the camera will pan or tilt. Move the slider to decrease or increase the speed.

Lens Control Buttons: To control the optical zoom, focus length and iris of the lens.

- Q Single click on the button, the lens will perform one movement to zoom out the image and auto focus. Click and hold on the button to perform continuous movements till you release the mouse button.
- General Single click on the button, the lens will perform one movement to zoom in the image and auto focus. Click and hold on the button to perform continuous movements till you release the mouse button.
- Click and hold the button to decrease the focal length.
- Click and hold the button to increase the focal length.
- Government Click to reduce the iris value, image will get darker.
- O Click to increase the iris value, image will get brighter.



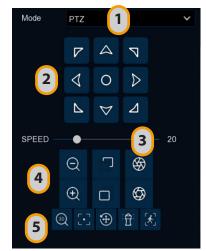
5.1.4.1.2.1 - Controlling PTZ

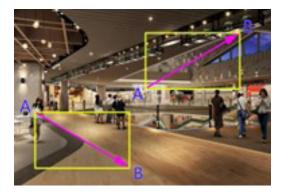
In this section, you're able to control the Pan/Tilt/Zoom and more.

- 1 Select PTZ mode.
- 2 Click the directional buttons to move the camera
- 3 To adjust the speed to pan or tilt.
- 4 To control the optical zoom, focus and iris of the lens.
- 5 Using functional buttons

③ 3D PTZ control. After clicking on this button, you're able to control the pan/tilt/zoom directly on the live view screen.

- Click on any point in the image, and then the image will be centered on the clicked point.
- Drag: You can zoom in or zoom out the image by dragging your mouse on the image:
- Click on the image and hold the mouse to drag a rectangle from point A to point B, the camera will zoom in to get the objects closer.
- Click on the image and hold the mouse to drag a rectangle from point B to point A, the camera will zoom out to get the objects farther.





[·] Auto focus.

🔁 Load default values. All the parameters you set will be lost and restored to default values.

1. Start or stop Watch Mode. See more on 5.1.4.1.2.3 Watch Mode.

If your PTZ camera supports auto tracking on the movement of human beings, you're able to control the tacking by manual if there are several detected targets to let the camera focused on a certain target. Before using this function, please make sure you have already activated the human detection function and enable the PTZ auto tracking function, view in 5.4.1.2. PD & VD (Human & Vehicle Detection).



Click the 🔀 button, and then click and hold your mouse on the live view screen, drag a rectangle with yellow line to frame the targeted person. The camera will focus on the select person till he/she disappears from view.



5.1.4.1.2.2 - Preset Position

In this section, you're able to configure the preset positions. A preset position is a particular position within the image that you would like the camera to focus on. Up to 255 different preset positions can be created.



- 1 Select **PRESET** mode.
- 2 Adjust the speed control to alter how fast or slow the camera will pan or tilt.
- Click and hold the directional buttons to move the camera in the direction selected.
- 4 Change the optical zoom, focus and iris of the lens if needed.
- 5 When the position is fixed, change the length of time (in seconds) the camera will stay at this position, before moving to the next position.
- 6 Click the add button to create the preset point.
- 7 Repeat step 1 to 6 to add more preset positions. The saved preset positions will be displayed with blue background.
- 8 − Click the **GO TO** button → , the camera will then move to that selected position.
- 9 Click Start Cruise, the camera will move to the preset positions in sequence. Click Stop Cruise to stop.
- 10 You can give a name to the preset position.
- 12 Click the visual icon o, you will see the thumbnail of preset position is displayed on the bottom of the live view image. You can go to, delete or add a preset position in the visual interface.





5.1.4.1.2.3 - Watch Mode

Watch mode allows the camera to perform a preset action when there is no any operation to the camera,

such as moving to a preset position, starting cruise, etc.

- 1 Select the Watch Mode.
- 2 Set the time interval. It means the length of time that must elapse before the watch mode is taken action. For example, the watch mode is activated and the interval is set to 15, the camera will perform the watching action if there is no operation to the camera in 15 seconds.
- 3 Choose the action when the watch mode is activated:

Mode	Watch Mode 1	~
Time Interval	15 2	~
Mode	Watch Point Set	3
PRESET	point 1	~
	4 ▷	

- Default Cruise: The camera will be continually rotated towards the left
- Preset Position: The camera will be moved to a selected preset position and stay.
- Line Scan: The camera will be implemented the Line Scan. See more on 5.1.4.1.2.4 Line Scan.
- Tour: The camera will be implemented the Tour. See more on 5.1.4.1.2.5 Tour.
- Pattern Scan: The camera will be implemented the Pattern Scan. See more on 5.1.4.1.2.6 Pattern Scan.
- 4 Click ▷ button to start the Watch Mode.
 Press □ button to stop.

5.1.4.1.2.4 - Line Scan

Line Scan allows the camera to automatically cruise between position A to position B horizontally.

- 1 Select Line Scan mode.
- 2 Adjust the speed control to alter how fast or slow the camera will pan or tilt.
- 3 Click and hold the directional buttons to move the camera in the direction selected.
- 4 Change the optical zoom, focus and iris of the lens if needed.
- 5 When the first position is fixed, click et button to record this position A. Repeat step 3 & 4 to move the camera to another position. Click to record the position B.
- 6 Adjust the cruise speed.
- 7 Click ▷ button to start Line Scan.
 Press □ button to stop.





5.1.4.1.2.5 - Tour

With the Tour function, you're able to configure maximum 4 tracks of auto cruise by choosing different

preset positions.

- 1 Select Tour mode.
- 2 Select a track. Maximum 4 tracks available.
- 3 Set the time interval. It means the length of time that the camera will stay in each preset position.
- 4 Click add button + , position box will be added and displayed in the position list. Click the box to choose a preset position. Maximum 32 positions can be added to a track.
- 6 Click ▷ button to save and start the tour. Press □ button to stop.

Track	+	ô	*	•
Gate	~			
Door	~			



Frack	+	Ô .	× ¥
Gate	~		
Door	~		
point 3	~		



5.1.4.1.2.6 - Pattern Scan

With the Tour function, you're able to configure maximum 4 tracks of auto cruise by choosing different

preset positions.

- 1 Select **Pattern Scan** mode.
- 2 Select a track. Maximum 4 tracks available.
- 3 Adjust the speed control to alter how fast or slow the camera will pan or tilt.
- 4 Click and hold the directional buttons to move the camera in the direction selected.
- 5 Change the optical zoom, focus and iris of the lens if needed.
- 6 When the start position is fixed, click ▷ button to start recording. Repeat step 4 & 5 to adjust the position. Press □ to finish the recording of route.
- 7 Click ▷ button, the camera will be moved exactly same as the route which was recorded in step 6, including zoom, focus, direction.
 Press □ to stop.





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5.1.5 - Pricavy Zone

This function can obscure all or part of your image for privacy (you can create up to 4 privacy masks per

camera). Areas obscured by a mask won't be shown live or recorded.

Channel: Select a camera that you would like to edit.

Enable Privacy Zone: Tick to enable this function.

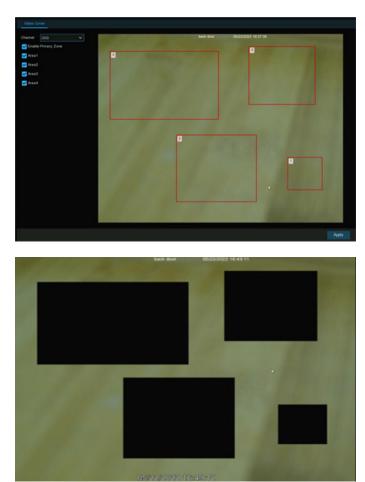
Area 1 to 4: Click the checkbox on the number of privacy masks that you want to enable. Up to 4 privacy masks can be enabled per camera. Depending on the number of privacy masks enabled, one or more masks will appear in the Live View windows.

Depending on the number of masks that you want to enable, each mask will be numbered. To reposition the mask, click and hold inside the mask then move the mask to the desired location.

To resize the mask, click and hold the bottom right corner of the mask then resize to the desired size. You can reposition and resize each mask to overlap each other.

When finished, click **Apply** to save. Areas obscured by a mask won't be shown live or recorded.

To remove a mask, uncheck the checkbox next to the relevant area, then click **Apply** to save.



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5.1.6 - Motion Detection

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

Setup Characteristics	Record Alarm Al Network	Storage System					O 2022-10-29 15:44:02
Channel	Motion						
• Live	Setup	Switch 🗸	Sensitivity		Deterrence v	SMD by Recorder	✓ SMD by Camera
Image Control						Motion	
♦ PTZ	0	8		> >		Motion Motion	> >
Video Cover		8		*		Motion	
Motion		8				Motion	
♦ PIR	0	8		> >		Pedestrian	> >
ROI		8		* *		Motion	>
						Motion	

Switch: Enable or disable motion detection.

Sensitivity: This option allows you to change the sensitivity level. The higher the number, the more sensitive your NVR will be when detecting motion.

SMD by Recorder: Used for the cameras that do not support intelligent motion detection.

SMD by Camera: Used for the IP cameras that support intelligent motion detection.

There are four detection types available: Motion, Human, Vehicle, and Vehicle&Human.

• Motion: The camera will detect all motion events, including movements of human beings, vehicles, animals, trees, etc.

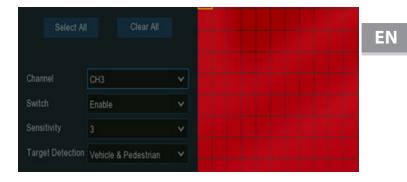
If your camera or NVR supports smart motion detection (SMD), you'll be able to choose below advanced motion detection targets:

- Human: The camera only alert when the movements of human beings are detected.
- Vehicle: The camera only alert when the movements of vehicles are detected.
- Vehicle & Human: The camera only alert when the movements of human beings and/or vehicles are detected.



Motion Detection Area Setup: Click 🔅 icon into the setup page.

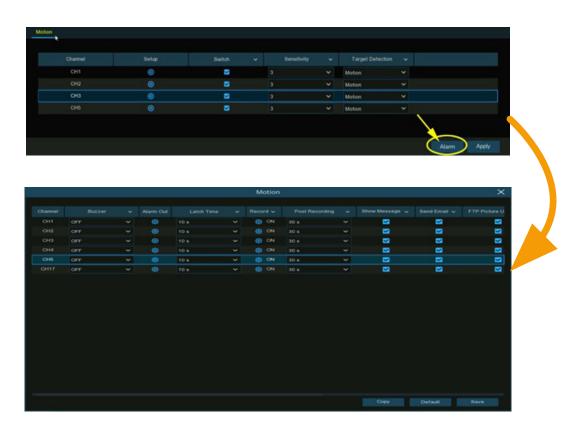
- The whole screen is marked for motion detection (red blocks) as default. Click Clear All to delete all the default detection area.
- 2. To create a new detection area, press and hold the left mouse button to select the cell or square that you want to start at, then click and drag to select the area that you want to create. Release the mouse to finish.
- 3. Multiple areas can be created. Each cell or square can be enabled to detect motion. The same action also applies when deleting an area.
- 4. Movement outside of the motion detection areas won't be detected therefore will not trigger recordings or event notifications.
- 5. Adjust the sensitivity if required, then rightclick the mouse to exit.
- 6. Click **Apply** to save changes made.





5.1.6.1 - Motion Alarm Settings

Click the Alarm button to change options for alarm notifications and more.





Buzzer: When motion is detected, you can enable the NVR's buzzer to alert you for a predetermined amount of time. Click the drop-down menu to select a time.

Alarm Out: If your NVR or IP camera supports to connect external replay output devices, the system can send an alert message to the external alarm devices. Click 🔅 button, to choose the external alarm devices:

Local: External alarm devices connected to the NVR.

CHx->1: External alarm devices connected to IP cameras.

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

Record: This option instructs your NVR to trigger additional cameras to start recording when motion is detected. Click the drop-down arrow to choose all channels to be recorded or not.

Record Channel

Click icon, click the **Record Channel** checkbox to enable recording. Click the checkbox in front of the channel number to select all channels or click on the individual camera number that you want to trigger for recording.

Post Recording: This option instructs your NVR to record for a set time after an event has occurred. For most instances, the default selection will be suitable, however, you can change this if you wish.

Show Message: When the detection is triggered, the alarm icon ***** will appear on screen.

Send Email: An email alert will be sent when alarm event is detected. Tick the checkbox if you want to disable this.

Show Message 🖌	Send Email 🗸	FTP Picture Upload 🐱	FTP Video Upload 🐱	Picture to Cloud 🐱	Video to Cloud	Full Screen 🗸	Voice Prompts
≤	Z	2		2			
		2		2			
≤		2		2			۲
≤				2			۲
v	2	v		V			۲

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

17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

FTP Picture Upload: Click the checkbox to copy snapshots to your ftp server when the detection is triggered.

FTP Video Upload: Click the checkbox to copy videos to your ftp server when the detection is triggered.

Picture to Cloud: Click the checkbox to copy snapshots to the cloud via Dropbox or Google Drive when the detection is triggered.

Video to Cloud: Click the checkbox to copy videos to the cloud via Dropbox or Google Drive when the detection is triggered.

Full Screen: Click the checkbox to view the camera full-screen in Live View mode when the detection is triggered.

Voice Prompts: If your NVR connects with a speaker, you can select a customized alert voice when the detection is triggered. See how to add customized alert voice on 5.3.9 Voice Prompts.

Default: Click Default to revert to default settings.

Copy: Use the Copy function to apply all settings to the other connected cameras.

Save: Click Save to save settings.





5.1.7 - PIR

This menu allows you to configure PIR (passive infrared motion detector) parameters. When PIR alarm has been detected by one or more cameras, your NVR will alert to you a potential threat. 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	Channel	Record	Alarm	AI	Networ	k Storag	ge System	1					
Channel		PIR											
Eive			Cha	innel			Setup		Switch		Sensitivity	Deterrence	
Image Control			c	H2			O		2			2	
PTZ													
Video Cover													
Motion													
• PIR													
Sea mana													

Switch: Enable or disable PIR detection.

Sensitivity: This option allows you to change the sensitivity level. The higher the number, the more sensitive your NVR will be when detecting PIR.

Deterrence: Tick to light up the built-in white lights of your PIR camera.

PIR Detection Area Setup: Click 🔅 icon into the setup page.

The whole screen is marked for PIR detection (red blocks) as default. Click **Clear All** to delete all the default detection area.

To create a new detection area, press and hold the left mouse button to select the cell or square that you want to start at, then click and drag to select the area that you want to create. Release the mouse to finish.

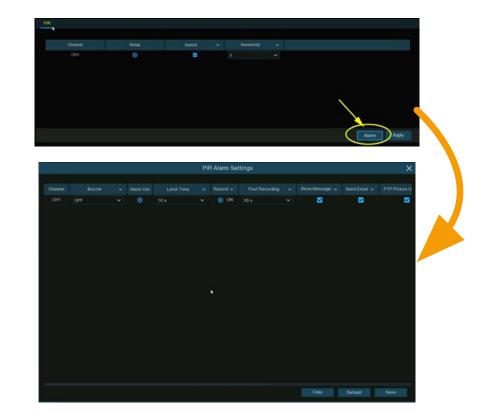
- 1. Multiple areas can be created. Each cell or square can be enabled to detect PIR. The same action also applies when deleting an area.
- 2. Movement outside of the detection areas won't be detected therefore will not trigger recordings or event notifications.
- 3. Adjust the sensitivity if required, then right-click the mouse to exit.
- 4. Click **Apply** to save changes made.

Channel CH2 Switch Enable Sensitivity 1				In: 181 Out: 299 Total: 48
Sensitivity 1				
	Enable			
		CH2 Enable	CH2 Enable	CH2 ¥ Enable ¥





5.1.7.1 - PIR Alarm Settings



Click the **Alarm** button to change options for alarm notifications and more.

Buzzer: When PIR alarm is detected, you can enable the NVR's buzzer to alert you for a predetermined amount of time. Click the drop-down menu to select a time.

Alarm Out: If your NVR or IP camera supports to connect external replay output devices, the system can send an alert message to the external alarm devices. Click 🔅 button, to choose the external alarm devices:

🗹 All 💺			
Local->1	Local->2	Local->3	🗹 Local->4
🗹 CH1->1	🗹 CH2->1	🔽 CH6->1	🗹 CH7->1
🗹 CH8->1	V CH11->1		

Local: External alarm devices connected to the NVR.

CHx->1: External alarm devices connected to IP cameras.

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

Record: This option instructs your NVR to trigger additional cameras to start recording when motion is detected. Click the drop-down arrow to choose all channels to be recorded or not.

Click icon, click the **Record Channel** checkbox to enable recording. Click the checkbox in front of the channel number to select all channels or click on the individual camera number that you want to trigger for recording.





EN

Post Recording: This option instructs your NVR to record for a set time after an event has occurred.

Show Message: When the detection is triggered, the alarm icon 🗰 will appear on screen.

Send Email: An email alert will be sent when alarm event is detected. Tick the checkbox if you want to disable this.

FTP Picture Upload: Click the checkbox to copy snapshots to your ftp server when the detection is triggered.

FTP Video Upload: Click the checkbox to copy videos to your ftp server when the detection is triggered.

Picture to Cloud: Click the checkbox to copy snapshots to the cloud via Dropbox or Google Drive when the detection is triggered.

Video to Cloud: Click the checkbox to copy videos to the cloud via Dropbox or Google Drive when the detection is triggered.

Full Screen: Click the checkbox to view the camera full-screen in Live View mode when the detection is triggered.

Voice Prompts: If your NVR connects with a speaker, you can select a customized alert voice when the detection is triggered. See how to add customized alert voice on 5.3.9 Voice Prompts.

Default: Click Default to revert to default settings.

Copy: Use the Copy function to apply all settings to the other connected cameras.

Save: Click Save to save settings.



5.1.8 - ROI

Regions of Interest (ROIs) are selected regions for special attention in the video area. This function aims to improve the image encoding quality of the selected regions and reduce the encoding quality outside the selected regions, so as to ensure the image sharpness of the regions for special attention under the condition of constant bitrate. (Note: This function needs to be supported by the camera. It cannot be used with the H.264+ and H.265+ encoding types at the same time.)

Channel	ROI										
	Channel	Setup	StreamType		Region ID		Enable Region 🗸			Non-ROI Fps	
Image Control	CHS	۲	Mainstream					Lowest		24	
	CH6		Mainstream					Lowest		29	
Video Cover	CH7	۲	Mainstream					Lowest			
Trace core	CH8		Mainstream					Lowest		24	
Motion	CH9		Mainstream					Lowest			
PR			Mainstream					Lowest		29	
	CH22	۲	Mainstream					Highest			
	0423	Θ	Mainstream	~		¥		Highest	~	19	

Stream Type: Select the stream type to set.

Region ID: Select the region ID to be set. You can set at most eight region IDs.

Enable Region: Used to set whether to enable the selected regions: The Region ID and Enable Region

parameters of the selected regions are mutually independent and need to be configured separately.

ROI Level: Used to set the image quality of the selected regions. The higher the quality is, the clearer and the smoother the image is.

Non-ROI Fps: Used to set the frame rate outside the selected regions.

Setup: Click [‡] to open the setting page.

Area: Used to set whether to enable ROI selection. The configuration takes effect after you click Apply.





5.2 - Record

The recording configuration options are available in the Record and Capture menus accessible from the Main Menu. From here, you can access and change the recording frame rate & resolution and recording schedule for each camera connected. You can also enable and set a schedule for your NVR to take a snapshot each time when an event occurs.

5.2.1 - Encoding Settings

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

5.2.1.1 - Video Encoding

You're able to configure the encode parameters of mainstream, substream and mobile stream accordingly.

Setup Channel	Record Alarm	Al Network	Storage Sys	tem							C 2023	8-02-3	18 20 08:37	×
	Mainstream 1	lubstream Mobile												
Record		StreamType	Resolution		FPS	Video Encode Type			Quality		Bitrate Mode			
Capture	011	Normal	1920 x 1080		30	H.265 🗸	VER .	Higher	at i	~	Predefined		5120	
			3840 x 2160			H.264 V	CBR >				Predefined		4096	
	CH3	Normal	3840 x 2160			H.264+ V	CBR Y				Predefined		4096	
		Normal	1920 x 1080		30	H.265 🗸	CBR .				Predefined		4096	

Resolution: This parameter defines how large the recorded images will be. The higher the number, the greater the detail available. By default, the recording resolution of the camera is auto-selected by your NVR.

FPS: This parameter defines the number of frames per second the NVR will record. By default, the recording frame rate of the camera is auto-selected by your NVR.

Video Encode Type: It will list the codecs which are supported by the connected camera. The H.265 codec will compress the information more efficiently and provide the best video quality for a given bandwidth between each camera and your NVR, and H.265+ has more compression rate then H.265. The other codec is H.264 which will impact the reliability of the connection between each camera and your NVR due to the higher bandwidth required, and H.264+ has more compression rate then H.264.

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

Video Quality: Available for VBR only, you can select the recording quality that will define the variable bitrate used, from lowest to highest.

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



Bitrate: This parameter corresponds to the speed of data transfer that the NVR will use to record video. Recordings that are encoded at higher bitrates, will be of better quality. For cameras that monitor medium to high traffic areas, increase the bitrate to add more detail to the camera's image. Just be aware this will increase the bandwidth required. Increase the bitrate in small doses until you are satisfied with the image quality.

Audio: If your camera has built-in microphone or external audio input device, you're able to record the audio streaming together with the video streaming. Click the checkbox to disable or enable. Make sure you have already enabled the Audio streaming in 5.2.1.2. Audio Encoding if you want to record the audio streaming.

FPS	Video Encode Type	Bitrate Control	Video Quality		Bitrate Mode		Audio 🗸	I Frame Interval 🐱	
30	H.265	VER	Highest	۷	Predefined	4096		60	
25	H.264	VBR	Highest		Predefined	4096		60	
15	H 265	VBR	Highest		Predefined	4096		30	
15	H.264	VBR	Highest		User-defined	4095		30	
15	H 264	VBR	Lowest		User-defined	4096			
30	H.265	VER	Highest		Predefined	4096	2	60	
30	H 265	VER	Highest		Predefined	6144	×	60	
30	H.265	VER	Highest		Predefined	4096	N	60	
30	H.265	VER	Highest		Predefined	8192	S	60	

I Frame Interval: This configures the number of partial frames that occur between full frames (I-Frames) in the video stream. For example, in a scene where a door opens and a person walks through, only the movements of the door and the person are stored. The stationary background that occurs in the previous partial frames are not encoded. As the I-Frame increases, the number of partial frames also increases. Higher values are only recommended on networks with high reliability, otherwise leave the default selection.

ETR: If your camera supports ETR function, it allows you to set independent video streaming for normal and alarm triggered recording.



For example, you can decrease the frame rate and bitrate to reduce the recording file size in normal recording, and increase the frame rate and bitrate to have clearer and more fluent camera images when an alarm event occurs.

ERT available for mainstream only.

5.2.1.2 - Audio Encoding

If your camera has built-in microphone or external audio input device, you're able to activate the audio

stream, define the input/output volume, and select the audio encode type.

Enable: To turn on or turn off the audio streaming.Output Volume: To choose the audio output volumeInput Volume: To choose the audio input volumeType: To choose the audio encoding codec.

Mainstream Su	ibstream Mobilest	ream Audio			
		k			
Channel	Enable 🗸	Output Volume 🗸	Input V		
CH1	~	5 🗸		G711A	
		5 🗸		G711U	
CH4	~	5 ~		G711U	
CH6		5 ~		G711A	
CH7	~			G711A	
CH8	M	5 ~		G711A	
CH11	~	5 🗸		G711A	



5.2.2 - Record

This menu allows you to configure the recording parameters for each channel.

	Record - Record Schedule						
Encode							
Capture	OH		Dustitean	*	2	2	
	042		DualStream	*	2		
			DueStreen				
		•	Dualitiers		2	8	
		23	Duettream		8	8	
		8	Dualityan		8		
		1	DualStream		1	8	
			Duativean		2		
		23	Dualityam		8	8	
		•	DuelStream		5	8	
		2	DualSheam		8		
		•	Dualityean		8		
		23	DualSteam		8		
		•	DuelStream		5		
		2	DualStream		8		
		•	Dualtineam		8		
		2	DualStream		8	8	
			DualStream		•		
		2	Dualitien		2		
			Dualitiean		8		
		-			-		

5.2.2.1 - Recording Configuration

Record	Record Schedule					
	Channel	Record Switch 🗸	Stream Mode	PreRecord	ANR	
	CH1	2	DualStream	S		
	CH2		DualStream	N		
	онз	S	DualStream	X		
			DualStream	N		
	CH5	~	DualStream	X		
	CHS		DualStream	N		
	CH7	S	DualStream	×	×	
	СНВ	S	DualStream	N	2	
	049	S	DualStream	N		

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

Stream Mode: By default, your NVR will record both Mainstream and Substream video (known as **Dual-stream**). **Mainstream** (high quality) video is used for playback when using your NVR directly, and Substream (reduced quality) is used for remote playback on your mobile device. If remote playback is not required, you can select Mainstream recording only to save your storage space.

Prerecord: Allows your NVR to record for several seconds before an event occurs. It's recommended to leave this enabled.

ANR: Generally, videos are stored in the NVR when network connection is normal between the NVR and cameras. With ANR (Automatic Network Replenishment) function, the camera would start continuous recording and store videos in SD card instead when the connection is lost. Once the network is restored, the video recordings will be sent back to NVR's storage. It is recommended to enable ANR if your camera supports this function.



5.2.2.2 - Recording Schedule

This menu allows you to specify when the NVR records video and defines the recording mode for each channel. The recording schedule lets you set up a schedule like, daily and hourly by normal (continuous) recording, motion recording, I/O alarm recording & PIR recording (if your camera supports). By default, the NVR is set to constantly record in 24-hour 7 days. The schedule can be changed to suit your needs and each camera can have a different schedule if needed. The schedule is color coded to represent the event type.



- 1. Choose a **Channel** you want to set.
- 2. Click on the mode radio button to choose one of the recording modes:
 - Normal: Your NVR will constantly record for a set period. Time slot will be marked green color for normal recording.
 - Motion: Your NVR will only record when motion is detected. Time slot will be marked yellow color for motion detection recording.
 - IO: Your NVR will only record when external sensor is triggered. Time slot will be marked red color for sensor triggered recording.
 - **PIR:** Your NVR will only record when PIR detection occurs. Time slot will be marked purple color for PIR detection recording.
- 3. Drag the cursor to mark the slots on the time slots.
- 4. The set recording schedule is valid only for one channel. If you want to use the same recording

schedule for other channels, use **Copy** function.

- 5. If a time slot marked black means that there will be no recording at the time period.
- 6. Click **Apply** to save your settings.



5.2.3 - Capture Images

You can enable and set a schedule for your NVR to take a snapshot each time an event occurs. It helps to find alarm events quickly and can also be used for timelapse photography.

I NOTE: The maximum resolution of captured image is 1920x1080

5.2.3.1 - Capture Configuration

Setup Channel	Record Alarm	Al Network	Storage System	
• Encode	Capture Captur	e Schedule		
Record	Channel	Auto Capture	Normal Interval 🗸	Alarm Interval 🗸
Capture	CH1	~	5 s 🗸 🗸	1 Min 🗸
	CH2	≤	5 s 🗸 🗸	1 Min 🗸
	CH3	×	5 s 🗸 🗸	1 Min 💙
	CH4	×	5 s 🗸 🗸	1 Min 🖌
	CH5	×	5 s 🗸 🗸	1 Min 🖌
	CH6	N	5 s 🗸	1 Min 🖌

Auto Capture: When enabled, your NVR will take a snapshot each time an event occurs.

Normal Interval: The length of time that must elapse before a snapshot is taken. For example, when setting a **Normal** capture schedule, a snapshot is taken every 5 seconds using the default selection. Adjust accordingly.

Alarm Interval: When setting alarm (Motion, IO or PIR) capture schedule, a snapshot is taken each time when alarm is detected, according to the interval selected. Adjust accordingly.



5.2.3.2 - Capture Configuration

You must create a capture schedule so your NVR can take snapshots when an event has occurred or if you want to take snapshots using a time interval (every 5 seconds, for example).

hannel CH	1						
JN							
N .			_				
E							
ED -							
iU							_
21							
AT							

- 1. Choose a **Channel** you want to set.
- 2. Click on the mode radio button to choose one of the capture modes:
 - Normal: A snapshot is taken according to the normal interval setting selected (every 5 seconds, for example). Time slot will be marked green color for normal capture.
 - Motion: A snapshot is taken during a motion alarm. Time slot will be marked yellow color for motion detection capture.
 - IO: Your NVR will only record when external sensor is triggered. Time slot will be marked red color for normal recording.
 - **PIR:** Your NVR will only record when PIR detection occurs. Time slot will be marked purple color for normal recording.
- 3. Drag the cursor to mark the slots on the time table.
- 4. The set capture schedule is valid only for one channel. If you want to use the same schedule for other channels, use **Copy** function.
- 5. If a time slot marked black means that there will be no capture at the time period.
- 6. Click **Apply** to save your settings.



5.3 - Alarm Settings

In this section, you can configure the alarm actions when event occurs.

5.3.1 - Motion Alarm

	Motion								
PR	Chainel	Buzzer	Alarm Out	Latch Time	Record v	Post Recording	Show Message 👻	Send Email 👻	FTP Picture Upload 🐱
	014	OFF		10 8	() ON	30 s	2	2	2
Combination Alarm		OFF		10 s	ON	30 s	2	2	8
		OFF				30 s	2	3	8
PTZ Linkage		OFF		10 5	ON	30 s	3	3	8
Exception									
Alam Schedule									
Voice Prompts									
Deterrence									
Siren									

Buzzer: When motion is detected, you can enable the NVR's buzzer to alert you for a predetermined amount of time. Click the drop-down menu to select a time.

Alarm Out: If your NVR or IP camera supports to connect external replay output devices, the system can send an alert message to the external alarm devices. Click 🍄 button, to choose the external alarm devices:

🛃 All 🦌			
Local->1	🛃 Local->2	Local->3	Local->4
🗹 CH1->1	🗹 CH2->1	🗹 CH6->1	🗹 CH7->1
🗹 CH8->1	🗹 CH11->1		

Local: External alarm devices connected to the NVR.

CHx->1: External alarm devices connected to IP cameras.

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

Record: This option instructs your NVR to trigger additional cameras to start recording when motion is detected. Click the drop-down arrow to choose all channels to be recorded or not.

Click ⁽²⁾ icon, click the **Record Channel** checkbox to enable recording. Click the checkbox in front of the channel number to select all channels or click on the individual camera number that you want to trigger for recording.



Post Recording: This option instructs your NVR to record for a set time after an event has occurred. For most instances, the default selection will be suitable, however, you can change this if you wish.

Show Message: When the detection is triggered, the alarm icon 🔦 will appear on screen.

Send Email: An email alert will be sent when alarm event is detected. Tick the checkbox if you want to disable this.

Show Message 🗸	Send Email 🗸	FTP Picture Upload 🐱	FTP Video Upload 🖌	Picture to Cloud 🗸	Video to Cloud	Full Screen 🗸	Voice Prompts
_	2	2		_			۲
≤		2					
2	M	2		≤			۲
2		≤		≤			۲
~	~	v		~			۲



FTP Picture Upload: Click the checkbox to copy snapshots to your ftp server when the detection is triggered.

FTP Video Upload: Click the checkbox to copy videos to your ftp server when the detection is triggered.

Picture to Cloud: Click the checkbox to copy snapshots to the cloud via Dropbox or Google Drive when the detection is triggered.

Video to Cloud: Click the checkbox to copy videos to the cloud via Dropbox or Google Drive when the detection is triggered.

Full Screen: Click the checkbox to view the camera full-screen in Live View mode when the detection is triggered.

Voice Prompts: If your NVR connects with a speaker, you can select a customized alert voice when the detection is triggered. See how to add customized alert voice on 5.3.9 Voice Prompts.

Motion: To configure the motion detection. See more on 5.1.6. Motion Detection.

Motion	Сору	Default	Apply
--------	------	---------	-------

Default: Click Default to revert to default settings.

Copy: Use the Copy function to apply all settings to the other connected cameras.

Apply: Click Apply to save settings.



5.3.2 - PIR Alarm

Motion	PIR								
● PR	Channel	Buzzer	Alarm Out	Latch Time	Record v	Post Recording	Show Message 🗸	Send Email v	FTP Picture Upload
	CHI	orr		50 s	ON	30 s	×.	8	2
Combination Alarm									
PTZ Linkage									
Exception									
Alarm Schedule									
Voice Prompts									
Deterrence									
Siren									
0 Disaming									

Buzzer: When PIR is detected, you can enable the NVR's buzzer to alert you for a predetermined amount of time. Click the drop-down menu to select a time.

Alarm Out: If your NVR or IP camera supports to connect external replay output devices, the system can send an alert message to the external alarm devices. Click 🍄 button, to choose the external alarm devices:

🗹 All 🦌			
Local->1	Local->2	Local->3	Local->4
🗹 CH1->1	🗹 CH2->1	🗹 CH6->1	🗹 CH7->1
✓ CH8->1	CH11->1		

Local: External alarm devices connected to the NVR.

CHx->1: External alarm devices connected to IP cameras.

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

Record: This option instructs your NVR to trigger additional cameras to start recording when PIR is detected. Click the drop-down arrow to choose all channels to be recorded or not.

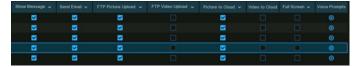
Click icon, click the **Record Channel** checkbox to enable recording. Click the checkbox in front of the channel number to select all channels or click on the individual camera number that you want to trigger for recording.

1 2 3 4 5 6 7 8 9 10 11 12 13 14	Record Channel												
	15 16	6											
17 18 19 20 21 22 23 24 25 26 27 28 29 30	31 32	32											

Post Recording: This option instructs your NVR to record for a set time after an event has occurred. For most instances, the default selection will be suitable, however, you can change this if you wish.

Show Message: When the detection is triggered, the alarm icon **PR** will appear on screen.

Send Email: An email alert will be sent when alarm event is detected. Tick the checkbox if you want to disable this.



FTP Picture Upload: Click the checkbox to copy snapshots to your ftp server when the detection is triggered.

FTP Video Upload: Click the checkbox to copy videos to your ftp server when the detection is triggered.



Picture to Cloud: Click the checkbox to copy snapshots to the cloud via Dropbox or Google Drive when the detection is triggered.

Video to Cloud: Click the checkbox to copy videos to the cloud via Dropbox or Google Drive when the detection is triggered.

Full Screen: Click the checkbox to view the camera full-screen in Live View mode when the detection is triggered.

Voice Prompts: If your NVR connects with a speaker, you can select a customized alert voice when the detection is triggered. See how to add customized alert voice on 5.3.9 Voice Prompts.

PIR Detection: To configure the PIR detection. See more on 5.1.7. PIR.

PIR Detection Copy Default Apply

Default: Click Default to revert to default settings.

Copy: Use the **Copy** function to apply all settings to the other connected cameras.

Apply: Click Apply to save settings.



5.3.3 - I/O Alarm

If your NVR or the connected camera has alarm input function, you will need to configure the settings to make the connected sensor works probably.

Setup Channel	Record A	arm Al Networ	κ S1	lorage Syste	em							C 2022-10	-29 16:06:36 🗙
Motion	10												
0 PR	Alarm In	Alarm Type		Buzzer		Alarm Out	Latch Time	Channel	Post Recordin	a v	Show Message 🗸	Send Email 🗸	FTP Picture Upload
	Local-1	Normally-Open		Disable		۲	10 s	۲	30 s		2	V	
	Local4-2	Normally-Open		Disable			10 s		30 s		3	3	3
Combination Alarm	Local<-3	Normally-Open		Disable			10 s		30 s		8	3	8
PTZ Linkage	Local+-4	Normally-Open		Disable			10 s		30 s		8	3	3
Exception	Local<-5	Normally-Open		Disable			10 s		30 s		8	3	3
	Local<-6	Normally-Open		Disable			10 s		30 s		2	3	2
Alarm Schedule	Local4-7	Normally-Open		Disable			10 s		30 s		8	3	2
Voice Prompts	Local<-8	Normally-Open		Disable			10 s		30 s			2	2
. B.d.	Local4-9	Normally-Open		Disable			10 s		30 s		8	2	8
Deterrence	Local<-10	Normally-Open		Disable			10 s		30 s		8	×	2
© Siren	Local11	Normally-Open		Disable			10 s		30 s		2	3	8
Disaming	Local<-12	Normally-Open		Disable			10 s		30 s		2	*	

Alarm In: Alarm input channel

- Local: Alarm input devices connected to NVR
- CHx<- 1: Alarm input devices connected to IP camera.

Alarm Type: There are 3 types for your choice: Normally Open, Normally Closed, and OFF. Choose the one which is well-matched with your sensor, or choose OFF to close the sensor trigger function.

Buzzer: When IO Alarm is detected, you can enable the NVR's buzzer to alert you for a predetermined amount of time. Click the drop-down menu to select a time.

Alarm Out: If your NVR or IP camera supports to connect external replay output devices, the system can send an alert message to the external alarm devices. Click 🔅 button, to choose the external alarm devices:

Local: External alarm devices connected to the NVR.

CHx->1: External alarm devices connected to IP cameras.

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

Record: This option instructs your NVR to trigger additional cameras to start recording when motion is detected. Click the drop-down arrow to choose all channels to be recorded or not.

~	Rec	ord	Ch	ann	el											
	1	2	3		5	6	7	8	9	10	11	12	13	14	15	16
				20		22			25			28				

Click ⁽²⁾ icon, click the **Record Channel** checkbox to enable recording. Click the checkbox in front of the channel number to select all channels or click on the individual camera number that you want to trigger for recording.

🛃 All 🦌			
Local->1	Local->2	Local->3	Local->4
🗹 CH1->1	🗹 CH2->1	✓ CH6->1	🗹 CH7->1
✓ CH8->1	✓ CH11->1		



Post Recording: This option instructs your NVR to record for a set time after an event has occurred. For most instances, the default selection will be suitable, however, you can change this if you wish.

V

~

~

~

Show Message: When the detection is triggered, the alarm icon *d* will appear on screen.

Send Email: An email alert will be sent when alarm event is detected. Tick the checkbox if you want to disable this.

FTP Picture Upload: Click the checkbox to copy snapshots to your ftp server when the detection is triggered.

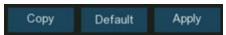
FTP Video Upload: Click the checkbox to copy videos to your ftp server when the detection is triggered.

Picture to Cloud: Click the checkbox to copy snapshots to the cloud via Dropbox or Google Drive when the detection is triggered.

Video to Cloud: Click the checkbox to copy videos to the cloud via Dropbox or Google Drive when the detection is triggered.

Full Screen: Click the checkbox to view the camera full-screen in Live View mode when the detection is triggered.

Voice Prompts: If your NVR connects with a speaker, you can select a customized alert voice when the detection is triggered. See how to add customized alert voice on 5.3.9 Voice Prompts.



~

Default: Click Default to revert to default settings.

Copy: Use the Copy function to apply all settings to the other connected cameras.

Apply: Click Apply to save settings.



5.3.4 - Combined Alarm

Combined Alarm function allows to set a combination of 2 alarm types. The NVR will only alert when both the alarm types in the combination are triggered in the same time. This would help to minimize the false alarm rate.

Setup Channel	Record A	am Al Ni	twork Storage System	m						C	2023	2-11-05 14:53:41	×
Motion	Continutio	on Alarm											
0 PR	Channel	Enable Alarm	Combination Configure	Butzer		Alarm Out	Latch Time		Record 🗸	Post Recording		Show Message 🐱	
0 ¥0	014	Disable	• (2)	Disable	¥	۲	10 s	¥	ON	30 s	¥	2	
Combination Alarm	CH14	Disable	* (8)	Cisable	¥	0	10 s	¥	ON	30 s	¥	2	
Conceration Aarm	CH15	Disable	· ()	Cisable	¥	0	10 s	¥	ON	30 s	¥	2	

Enable Alarm: To enable or disable combined alarm.

Click the Configuration 🔅 button on a channel to choose the alarm combination. You're able to choose 2 kinds of alarm type from NVR and/or IP camera.

NOTE: If the combined alarm is enabled in a channel, all of the individual alarm functions you had set in that channel will be disabled. The individual alarm functions will be restored if the combined alarm function is disabled.

Buzzer: When the detection is triggered, you can enable the NVR's buzzer to alert you for a predetermined amount of time. Click the drop-down menu to select a time.

Alarm Out: If your NVR or IP camera supports to connect external replay output devices, the system can send an alert message to the external alarm devices. Click 🔅 button, to choose the external alarm devices:

Local: External alarm devices connected to the NVR.

CHx->1: External alarm devices connected to IP cameras.

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

Record: This option instructs your NVR to trigger additional cameras to start recording when PIR is detected. Click the drop-down arrow to choose all channels to be recorded or not.

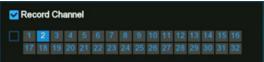
Click 🔅 icon, click the **Record Channel** checkbox to enable recording. Click the checkbox in front of the channel number to select all channels or click

on the individual camera number that you want to trigger for recording.

Post Recording: This option instructs your NVR to record for a set time after an event has occurred.









Show Message: When the detection is triggered, the alarm icons will appear on screen.

Send Email: An email alert will be sent when alarm event is detected. Tick the checkbox if you want to disable this.

FTP Picture Upload: Click the checkbox to copy snapshots to your ftp server when the detection is triggered.

FTP Video Upload: Click the checkbox to copy videos to your ftp server when the detection is triggered.

Picture to Cloud: Click the checkbox to copy snapshots to the cloud via Dropbox or Google Drive when the detection is triggered.

Video to Cloud: Click the checkbox to copy videos to the cloud via Dropbox or Google Drive when the detection is triggered.

Full Screen: Click the checkbox to view the camera full-screen in Live View mode when the detection is triggered.

Voice Prompts: If your NVR connects with a speaker, you can select a customized alert voice when the detection is triggered. See how to add customized alert voice on 5.3.9 Voice Prompts.

Default: Click Default to revert to default settings.

Copy: Use the Copy function to apply all settings to the other connected cameras.

Apply: Click Apply to save settings.

5.3.5 - PTZ Linkage

If there are one or more PTZ cameras connected to your NVR, you are able to set the actions of PTZ

cameras when motion event, I/O sensor alarm and/or PIR alarm occurs, to move your PTZ cameras

focusing on a selected preset position.

Switch: Tick the checkbox to enable the PTZ linkage function.

Alarm: Click 🔅 button to choose the alarm source to enable the PTZ linkage function when the selected alarm occurs.

PTZ: For each channel, there are maximum 4 PTZ preset point positions available for you to set for the PTZ linkage function.

 Click button on PTZ 1~4, tick the check point to enable, and then select the channel of connected PTZ camera and choose a preset point.

PTZ Linkage							
Channel	Switch 🗸					PTZ	
CH1		۲	OFF	OFF	OFF	۲	OFF
CH2		🤅 🖂 AII					OFF
CH3		🥑 🖬 Motion		🛃 PIR	🖬 1/0 🕞		
CH4		c 🗳 500		CC CC	Sound Detection		
045		€ <mark>⊂</mark> 00	Tampering	2 AD 2 GO	UPD		
CHS		🤅 🖬 RSO		UPR	🖬 FR		
047				CO(A)	PD & VO(A)		
OHE			OFF	OFF	OFF		
049							



 Show Message v
 Sand Enal v
 FTP Picture Uplaad v
 PTP Video Lubiad v
 Picture to Claud v
 Video to Claud Full Screen v
 Video Picture Video Picture to Claud v

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 Video To Claud v
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5.3.6 - Exception Alarm

Setup
Channel
Record
Alam
Al Network
Storage
System
© 2022-10-29 16 10 52

The system allows to set the abnormal events that you want the NVR to inform you.

Event Type: There are three event types that your NVR will detect as an exception:

- No Space on Disk: no space left on the hard drive.
- Disk Error: a hard drive error.
- Video Loss: one or more channels have lost the connection.

Buzzer: When the detection is triggered, you can enable the NVR's buzzer to alert you for a predetermined amount of time. Click the drop-down menu to select a time.

Alarm Out: If your NVR or IP camera supports to connect external replay output devices, the system can send an alert message to the external alarm devices. Click 🔅 button, to choose the external alarm devices:

Local: External alarm devices connected to the NVR.

CHx->1: External alarm devices connected to IP cameras.

🗹 All 🦌			
Local->1	Local->2	Local->3	Local->4
🗹 CH1->1	🗹 CH2->1	🗹 CH6->1	🗹 CH7->1
✓ CH8->1	CH11->1		

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

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

Send Email: Click the checkbox to enable your NVR to send an email alert when the detection is triggered.

Voice Prompts: If your NVR connects with a speaker, you can select a customized alert voice when the detection is triggered. See how to add customized alert voice on 5.3.9 Voice Prompts.



5.3.7 - Alarm Schedule

You are able to set the schedule individually for Alarm out, Push Notification, FTP Upload, Cloud Upload, Buzzer and Voice Prompts. The schedule is set to enable 24 hours 7 days, you can change accordingly.

Motion	Alarm Sched	ule							
	Channel CH1								
	 Alarm Out 			O Push		O FTP	Upicad		
	Cloud Upk	ad.		O Buzzer		Voice	Prompts		
Combination Alarm									
PTZ Linkage	SUN								
Exception	MON								
	TUE. WED								
Voice Prompts	THU								
Deterrence	FRU								
Siren									

- 1. Select the channel you want to set the schedule.
- 2. Click on the radio button of the event you want to set.
- 3. Drag the cursor to mark the slots. The green blocks in the time slots will be active for alarm.
- 4. The schedule is valid only for the selected channel each time when you set. If you want to use the same schedule for other channels, use **Copy** function.
- 5. Click **Save** to save your settings.



5.3.8 - Voice Prompts

If your NVR or IP camera supports the voice prompt function and has a built-in or external speaker, you can set a customized alert voice when an alarm event occurs.

Setup Channel	Record Alar	m Al Network Storage	System		
Motion	File Manager	Loop Management			
• PIR	Channel	✓ Local 1 P Camera 1 2 3			
. € vo	Voice Prompts	None			
Combination Alarm	Mode	Import Files		~	
PTZ Linkage				Import	
Exception			7		
Alarm Schedule					
Voice Prompts					
Deterrence					
Siren					
Oisarming					

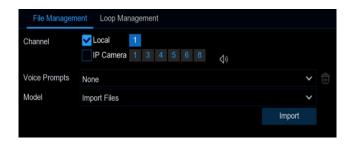
5.3.8.1 - Voice File Management

You can create and delete voice files in this section.

5.3.8.1.1 - Creating Voice Files

The system provides 3 different methods to create customized voices:

- Import Files
- Local Conversion
- Internet Server Conversion



Import Files: Supports to import MP3, WMA and WAV files from USB flash drive and/or web page.

Choose Import Files model, and then click the Import button, and choose the audio file from your USB memory. It is allowed to add only 1 file at a time. You can add multiple files at a time in the web page.



File Manager	ent Loop Management		
Channel	✓ Local 1 ✓ IP Camera 6 7 8 d≬		
Voice Prompts	None		
Model	Local Conversion		
Language			
Name	private zone		
Plain Text	Warning, this is a private zone, do not enter		
		Import	

Local Conversion: The system supports to convert your plain texts into an audio file by local algorithm.

Choose Local Conversion model, and then input the name of the file & plain text. Click Import button, the system will convert the text you input into a voice file and save to the NVR storage.

Channel	✓ Local 1 P Camera 6 7 8 do	
Voice Prompts	None	
Model	Internet Server Conversion	
Language	ENGLISH	
Name	private zone	
Plain Text	Private zone, do not enter	

Internet Server Conversion: The system supports to convert your plain texts into a multi-language audio file by internet server.

Choose Local Conversion model and language you want to speak, and then input the name of the file & plain text. Click Import button, the system will convert the text you input into a voice file and save to the NVR storage.

It is recommended to operate with webpage for multi-language input.

5.3.8.1.2 - Audition Voice

After creating your voice files, you are able to audition them with your NVR and/or IP camera's speaker.



- 1 Select a voice file firstly.
- 2 Choose the voice playing device. Local indicates the NVR audio output device,
 IP Camera indicates the speaker or audio output device in the IP camera.
 - Click the play button
 to audition.

5.3.8.1.3 - Delete Voice Files

If you want to delete the voice file(s), please operate as below:

Channel	✓ Local IP Camera 6 7 8	
Voice Prompts	private zone	
Model	Import Files	~
		Import

- 1 Select a voice file first.
- Click the delete button file.
 - 3. Repeat step 1 and 2 to delete another file.



5.3.8.2 - Loop Management

The system allows to play a continuous loop of the voices in a certain period of time.



- 1 Select the play device.
- 2 Choose a voice file.
- 3 Set the time period.
- 4 − Click play button 🗇 to start the audition.
- 5 Click add button ⊕ to add another loop playlist. Maximum 12 playlists can be set.
- 6 If you want to delete the loop playlist, click the delete button Θ .
- 7 Click **Apply** to save your settings.

i NOTE: The period of time in each playlist cannot be overlapped to others.



5.3.9 - Deterrence

This menu allows you to configure the action of built-in white lights (also known as "spotlights") and speaker of the deterrence cameras when an alarm event is detected.

Setup Clannel	Record Alarm Al	Network Dros	rage system					O 192	
Uotae	Deterrance								
	Channel	Setup	Sensitivity	Uget v	Schedule		Warning Light w	Schedule	Warning Light Dur
	OH1								
Combination Alarm									
P12 Linkage	CH3	0			0				
e te creage									
Exception	045	0			0				
Nam Schedule									
	CH7	0			0				
Voce Prompts									
	049	0			0				
Sites						60			
	OH11	0			0				
Disaming									
	OH13	0			0				
									60
	Orts				8	60			60

Setup: Click 🔅 button to enter configuration page.

- Light: Click the drop-down menu to enable the camera's white light.
- Light Brightness: For some certain cameras, you can adjust the flood light value. The greater the value, the brighter the light will be.
- **Duration:** This lets you change the length of time the white light will remain lit when alarm is detected. Adjust accordingly.
- Color Image: If enabled, the night vision images will be turned to be colorful. If disabled, the night version images will remain black & white.
- Deterrence Mode: Click the drop-down menu to select a solid light (Warning Light) or a flashing light (Strobe Light). When picking Strobe Light, you can select a low, medium or high Strobe Frequency setting.

Channel	IP CH2	~
Light	Enable	~
Duration	60	
Color Image	Enable	~
Deterrence Mode	Light Strobe	~
Strobe Frequency	High	~
Warning Light	Enable	~
Warning Light Duration	60	

- Warning Light: Click the drop-down menu to enable the camera's warning light.
- Warning Light Duration: This lets you change the length of time the warning light will remain lit when alarm is detected. Adjust accordingly.



Schedule: Click **Over Schedule:** button to configure the deterrence schedule:

• When the camera is connected to the NVR with client port, the schedule interface might be displayed as adjacent image

								~
50N								
MON								
TUE								
WED								
тни								
681 -								
SAT								
		D	fault	Save	Cancel			

By default, the white lights will not trigger between and 04:30 p.m. and 06:30 a.m., however you can change this according to your needs.

Each square represents 30 minutes. Using the mouse, click on a particular square to change or click and drag the mouse over the squares corresponding to your desired period. Squares in blue color are active for deterrence.

Click **Save** to save changes made. Right-click the mouse to exit.

• When the camera is connected to the NVR with web port, the schedule interface might be displayed as adjacent image

				Sc	hedule				×
 Motion 	* c	O FI		O PD 4		O PID	O LCD	500	
o cc	С	00		O LPD		RSD			
SUN									
MON									
TUE									
WED									
THU									
FRI									
SAT									
			Clear	All	Save	Cancel			

All supported alarm types are listed, you're able to configure the schedule for each individual alarm type. Click the checkbox of the alarm type you want to set, and the set the schedule accordingly. Click **Save** to save changes made. Right-click the mouse to exit.



5.3.10 - Siren

If the camera connected to the device has a built-in speaker, you can set the siren-related parameters in

this module.

Channel: Select the switch channel.

Enable: Used to set whether to enable the siren function.

Siren Type: Used to select the siren audio file. By default two audio files are provided. You can also import three customized audio files (of PCM format or WAV format). The audio sample rate of the imported file cannot exceed 8000 Hz, and the file size

Siren			
Channel	CH22	~	
Enable	~		
Siren Type	Alarm1	~	
Siren Level		8	
Siren Duration(s)	10		
Schedule	Schedule		

cannot exceed 256 KB. After you select a customized audio file to be imported, a **Delete** button appears on the right of the file, and you can click the **Delete** button to delete the audio file. (Note: This function is supported by some IP cameras only.)

File Name: If you select User-defined for Siren Type, you can enter the file name and click the Import button on the right to import the customized audio file from a USB flash disk.

Siren Level: Used to set the siren volume level, which ranges from 1 to 10. The higher the level is, the louder the volume is.

Siren Duration(s): Used to set the siren duration. You can adjust the value between 5 to 180 seconds.

Schedule: If the IP camera is connected to the NVR via the HTTP port, you can click the **Schedule** button to open the setting page.

If a channel is selected in the schedule, it indicates that the channel can trigger siren alarms during the corresponding period.

You can set the siren linkage alarm and effective time of a function by selecting the corresponding function sub-tab and switch.

Clear All: Click this button to clear the selected status on all sub-tabs.

			Schedule	2		×
 Motion CD 		O PD & VD	PID RSD			
Motion Siren 0	Switch					
SUN						
MON						
TUE						
WED						
			lear All Save	Cancel		
			lear All Save	Cancel		



5.3.11 - Disarming

After the one-click disarming function is enabled, you can cancel the response of the device to various

alarms. On this page you can set the relevant parameters including the disarming switch, channel, type,

and schedule. Note: The Exception system alarms are not controlled by one-click disarming.

Disarming: Used to set whether to enable the oneclick disarming function.

Disarm Alarm Linkage Action: Used to set the alarm linkage types to be disarmed.

All: Select or clear all the types.

Buzzer: Used to set whether to enable the buzzer. When the one-click disarming function is enabled, you can select this option to disable the buzzer.

Setup Channel	Record Alarm Al Network Storage System
Motion	Disarming
♦ PIR	Disarming
• vo	Disarm Alarm Linkage Action 🧹 All
Combination Alarm	₩ Buzzer
PTZ Linkage	✓ Alarm Out ✓ Show Message
Exception	Send Email
Alarm Schedule	Volce Prompts
Voice Prompts	Channel
Deterrence	17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 52 ✓ IP Camera 1 12 3 4 5 5 27 28 29 30 31 52
Siren	Schedule Setup
Disarming	

Alarm Out: Used to set whether to enable external alarm output. When the one-click disarming function is enabled, you can select this option to disable the external alarm device when an alarm is triggered.

Show Message: Used to set whether to display messages. When the one-click disarming function is enabled, you can select this option to not display the alarm messages when motion is detected on the preview page.

Send Email: Used to set whether to send emails. When the one-click disarming function is enabled, you can select this option to make the NVR not automatically send an email when an alarm is triggered.

Full Screen: Used to set whether to display in full screen. When the one-click disarming function is enabled, you can select this option to make the channel configured with full-screen mode not enter full screen mode on the preview screen when the channel triggers an alarm.

Voice Prompts: Used to set whether to enable voice prompts. When the one-click disarming function is enabled, you can select this option to disable voice prompts when a channel configured with voice prompts triggers an alarm.

Channel: Select the channels to be disarmed. Schedule: Click the Setup button to open the schedule setting page.

If a channel is selected in the schedule, it indicates that the channel is in disarming status within the corresponding period.

	Schedule													
 Motion CD 			PID RSD											
Motion Siren S	Switch	6 8												
SUN														
MON														
TUE														
WED														
			Clear All Sav	e Cancel										



5.4 - Al

Artificial Intelligence (AI) is an advanced function for the system to detect varies of alarm events based on face detection, human detection and vehicle detection technology with AI powered IP cameras and take actions accordingly. You will see this section if your NVR has AI capacity.

ම Setup ਾ	hannel F	Record	Alarm	AI	Networ	k S	torage	Sy	stem								
• Setup		FD	PD & VD	PID	LCD	CC	нм	CD	QD	LPD	RSD	\$0D	Sound	Detection	Video Tampering	Sched	Me
Recognition																	
				Chan	nel					Set	μp				Switch		
Alarm				CH						0					Schedule		
Statistics		CH3															
			CH5							6					3		

5.4.1 - Al Setup

In this section, you will able to activate the AI functions and let them work properly according to your requirements.

NOTE: The detection functions, including Face Detection, Human & Vehicle Detection, Perimeter Intrusion Detection, Line Crossing Detection, Cross Counting, Crowd Density Detection, Queue Length Detection and License Plate Detection, might be mutually exclusive due to performance limitation. When the checkbox of Switch is in grey color and unable to check, that means another AI function was enabled in this camera already.

5.4.1.1 - FD (Face Detection)

Enabling this function is a great way to improve how you monitor the different areas that you want to keep an eye on. When human faces are detected, your NVR will activate recording, and it will also send an alert. This makes it ideal for restricted places where there shouldn't be people roaming around at particular times.

Setup	Channel	Record	Alarm	Networ	k S	Storage	Sy	stem									
		FD	PD & VD	PID	LCD	cc	HM	CD	QD	LPD	RSD	\$00	Sound	Detection	Video Tampering	Scher	3ule
Recognition				(3)						5 -1							
Alarm			Channel							Set					Switch Schedule		
Statistics			043														
			CH5							6					2		

Switch: Tick the checkbox to enable the face detection.

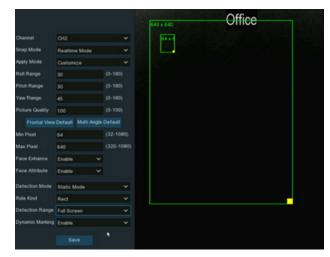
Setup: Click setup 🔅 button for further settings:



Channel: to choose the channel you want to set.

Snap Mode: select how snapshots containing a recognized face will be captured. This can affect the number of facial recognition notifications that you will receive:

• **Realtime Mode:** the camera tracks and captures the face of someone entering and leaving the facial detection area. You'll get two notifications in the Alarm Notification Panel - once when the face is first detected and again as the face leaves the facial detection area. This is useful if you want to continuously monitor someone's presence in an area and get alerts in real-time.



- Optimal Mode: a single, best snapshot of the face is captured.
- Interval Mode: you can specify the number of snapshots to take and the time interval between snapshots.
 - Snap Num: the number of snapshots to take
 - Snap Frequency: the time interval between snapshots

Apply Mode: There are three options available:

- Frontal View: the facial recognition engine is optimized to scan for faces approaching the camera straight-on.
- **Multi Angle:** the facial recognition engine is optimized to scan for faces approaching the camera from different angles.
- **Customize:** the facial recognition engine is optimized to scan for faces approaching the camera from customized angles
 - Roll Range: set the range of face rotation.
 - Pitch Range: set the range of face pitch
 - Yaw Range: set the range of face horizontal flipping
 - Picture Quality: set the picture quality
 - · Frontal View Default: to load default values of front view
 - Multi Angle Default: to load default values of multi angle view

Min Pixel: The minimum face size in pixels. The smaller the number of pixels, the more faces the camera can recognize. If the camera is recognizing too many unwanted distant faces, try increasing the minimum pixel value to train the camera to look for larger faces that are typically at a closer distance.

Max Pixel: The maximum face size in pixels. If you would like the camera to detect faces within proximity to each other, try increasing the maximum pixel value, otherwise leave the default value.

Face Enhance: Face enhancement makes it easier to recognize the moving faces, but it may lower the whole picture quality.

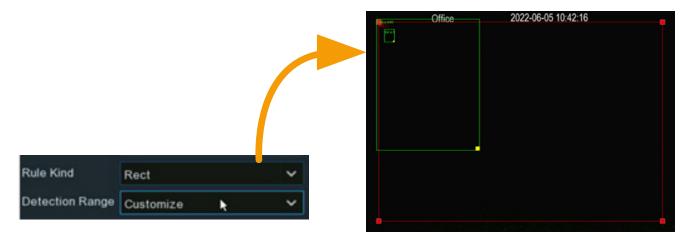
Face Attribute: Enable this function to detect gender, age, mask, glasses and facial expression.

Detection Mode: In Static Mode, all objects in the camera's field of view will be analyzed. In Motion Mode, only moving objects will be analyzed.

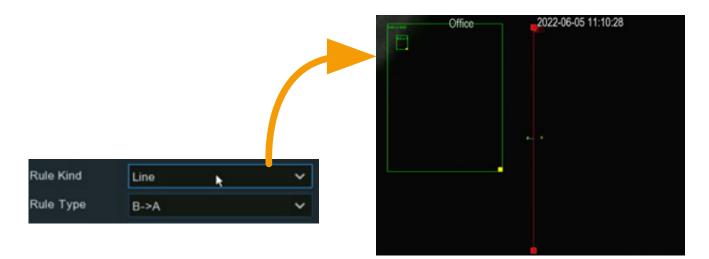


Rule Kind: Rect (rectangular) and Line (linear):098

• If you choose **Rect** mode, you can choose **Full Screen**, the entire view of the camera is enabled for face detection as the detection area, or you can choose **Customize** to adjust the size of rectangular to focus the detection in a certain area.



• If you choose Line mode, you need to adjust the position, length of the line, and choose the detection direction from $B \rightarrow A$ or $A \rightarrow B$.



Dynamic Marking: If Disable is selected, the green tracking frame that surrounds a detected face will not be visible during Live View mode and playback.

5.4.1.2 - PD & VD (Human & Vehicle Detection)

When human beings and/or vehicles are detected, your NVR will activate recording, and it will also send an alert.

٠	Setup	FD PD & VO PID LCD CC HM							QD	LPD	RSD	SOD	Sound Detection	Video Tampering	Schedule	
¢	Recognition							Set	up			Switch		v		
•	Alarm					G				Scheduk						
Φ	Statistics	CH2														
		013								G						



Switch: Tick the checkbox to enable the human & vehicle detection.

Setup: Click setup 🔅 button for further settings:



Channel: to choose the channel you want to set.

Snap Mode: select how snapshots containing a recognized object will be captured. This can affect the number of notifications that you will receive:

- Default: a single, best snapshot of the detected object is captured.
- **Realtime Mode:** the camera tracks and captures the objects entering and leaving the detection area. You'll get two notifications in the Alarm Notification Panel - once when the object is first detected and again as the object leaves the detection area. This is useful if you want to continuously monitor the object in an area and get alerts in real-time.
- Interval Mode: you can specify the number of snapshots to take and the time interval between snapshots.
 - 1. Snap Num: the number of snapshots to take
 - 2. Snap Frequency: the time interval between snapshots

Min Pixel: The minimum object size in pixels. The smaller the number of pixels, the more objects the camera can recognize. If the camera is recognizing too many unwanted distant objects, try increasing the minimum pixel value to train the camera to look for larger objects that are typically at a closer distance.

Max Pixel: The maximum object size in pixels. If you would like the camera to detect objects within proximity to each other, try increasing the maximum pixel value, otherwise leave the default value.

Sensitivity: Adjust the sensitivity level of the detection area. The higher the number, the more sensitive it will be when detecting objects.

Detection Type: to choose the detection targeted object.

Detection Mode: In Static Mode, all objects in the camera's field of view will be analyzed. In Motion Mode, only moving objects will be analyzed.



Detection Area: If you choose **Full Screen**, the entire view of the camera is enabled for human and/or vehicle detection as the detection area, or you can choose **Customize** to adjust the size of rectangular to focus the detection in a certain area.

Dynamic Marking: If Disable is selected, the green tracking frame that surrounds a detected object will not be visible during Live View mode and playback.

PTZ Auto Tracking: If your PTZ camera is connected, you might see this function. Enable to activate the PTZ auto tracking function. View more on 5.1.4.1.2.1 Controlling PTZ.

5.4.1.3 - PID (Perimeter Intrusion Detection)

Perimeter Intrusion Detection function detects people, vehicle or other objects which enter and loiter in

a pre-defined virtual region, and some certain actions can be taken when the alarm is triggered.

٠	Setup	FD	FD PD & VD PID LCD CC HM						QD	LPD	RSD	\$00	Sound Detection	Video Tampering	Schedule	
٠	Recognition		Channel							Setup			witch		Sensitivity	~
۰	Alarm		CH1							۲			Schedule			~
•	Statistics		042													¥
				CH	3											*

Switch: To enable or disable the Perimeter Intrusion Detection.

Sensitivity: Adjust the sensitivity level of the perimeter intrusion region. The higher the number, the more sensitive the intrusion region will be.



Setup: Click 🤨 to configure the detection conditions.

- 1. Select the channel you want to configure.
- 2. Select the detection targeted object.



- 3. Choose one of the **Rule Number**. It is the number of PID area. Maximum 4 areas you can set for PID function.
- 4. To enable the detection in **Rule Switch**.
- 5. Choose a Rule Type:
 - $A \rightarrow B$: Camera will only detect the action from side A to side B;
 - $B \rightarrow A$: Camera will only detect the action from side B to side A;
- A \leftarrow \rightarrow B: Camera will detect the action from either side B to side A or side A to side B.
- 6. Use your mouse to click 4 points in the camera image to draw a virtual region. The sharp of the region should be a convex polygon. Concave polygon will be not able to save.
- 7. Click **Save** to save your settings.
- 8. If you want to modify the position or sharp of region, click the red box in the region, the borders of the region will be changed to red color. Long press the left button of your mouse to move the position of the region, or drag the corners to resize the region.
- 9. If you want to remove one of the regions from the camera image, click the red box in the region and then click **Remove** button. Click **Remove All** will delete all regions.
- 10. If you want the green tracking frame that surrounds a detected object to be invisible during live view mode and playback, then choose Disable in the **Dynamic Marking**.

5.4.1.4 - LCD (Line Crossing Detection)

Line Crossing Detection function detects people, vehicle or other objects which cross a pre-defined

٠	Setup	FD	PD & VD	PID	LCD	cc	нм	CD	QD	LPD	RSD	SOD	Sound	Detection	Video Tampering	Schedu	fe .
0	Recognition																<u>а</u> . —
•	Alarm			Chan					Set	φ			itch shedule		Sensitivity	~ ` ~	v
•	Statistics		CH1 CH2						0						2	~	
				ан	3				6								

virtual line, and some certain actions can be taken when the alarm is triggered.

Switch: To enable or disable the Line Crossing Detection.

Sensitivity: Adjust the sensitivity level. The higher the number, the more sensitive the detection will be. **Setup:** Click **O** to configure the detection conditions.





- 1. Select the channel you want to configure.
- 2. Select the detection targeted object.
- 3. Choose one of the Rule Number. It is the number of LCD lines. Maximum 4 lines you can draw.
- 4. To enable the detection in **Rule Switch**.
- 5. Choose a **Rule Type**:
- $A \rightarrow B$: Camera will only detect the action from side A to side B;
- $B \rightarrow A$: Camera will only detect the action from side B to side A;
- A \leftarrow \rightarrow B: Camera will detect the action from either side B to side A or side A to side B.
- 6. Use your mouse to click 2 points in the camera image to draw a virtual line.
- 7. Click **Save** to save your settings.
- 8. If you want to modify the position or length of the line, click the red box in the line, the color of the line will be changed to red color. Long press the left button of your mouse to move the line, or drag the terminals to modify the length or position of the line.
- 9. If you want to remove one of the lines from the camera image, click the red box in the line and then click **Remove** button. Click **Remove All** will delete all lines.
- 10. If you want the green tracking frame that surrounds a detected object to be invisible during live view mode and playback, then choose Disable in the **Dynamic Marking**.

5.4.1.5 - CC (Cross Counting Detection)

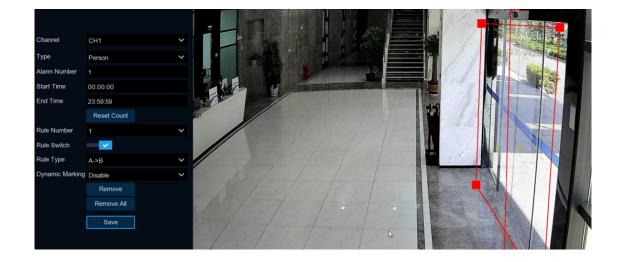
Cross Counting function will count the times an object or person has crossed a counting line from both

٠	Setup	FD	PD & VD	PID LCD CC HM					QD	LPD	RSD	SOD	Sound D	Netection	Video Tampering	Schedu	íe –
0	Recognition			Chan													
						Se	tup			Switch		Sensitivity					
	Alarm		CH1						(۲			Schedule				
•	Statistics			СН									K			*	
				CH					0	9			×				

directions, and some certain actions can be taken when the alarm is triggered.

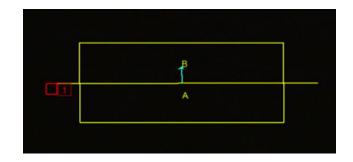
Switch: To enable or disable the cross-counting function.

Sensitivity: Adjust the sensitivity level. The higher the number, the more sensitive the detection will be. **Setup:** Click ⁽²⁾ to configure the detection conditions.





- 1. Select the channel you want to configure.
- 2. Select the detection targeted object:
- Motion: All moving subjects will be detected by the system
- Person: Only human beings will be detected
- Vehicle: Only vehicles will be detected.
- 3. Input the **Alarm Number**. The NVR will send an alert if the number of entries minus the number of exits exceeds the alarm number. E.g., the number of entries is 601 while the number of exits is 400, and the alarm number you set is 200, 601-400=201 200, then the NVR will send an alert.
- 4. Set the detection start time.
- 5. Set the detection end time.
- 6. To enable the detection in **Rule Switch**.
- 7. Choose a Rule Type:
- A→B: If a targeted object is detected moving from side A to side B, the system will count 1 to enter number; if a target object is detected moving from side B to side A, the system will count 1 to exit number.
- B→A: If a targeted object is detected moving from side B to side A, the system will count 1 to enter number; if a targeted object is detected moving from side A to side B, the system will count 1 to exit number.
- 8. Use your mouse to click 2 points in the camera picture to draw a virtual line. You will see a rectangular box coming along with the line together. Only the subject touches the borders in both sides will be recorded as a complete cross. Adjust the size of the rectangular box according to the mounting position of camera and the size of expected detection target.



- 9. Click Save to save your settings.
- 10. If you want to modify the position or length of the line, click the red box in the line, the color of the line will be changed to red color. Long press the left button of your mouse to move the line, or drag the terminals to modify the length or position of the line.
- 11. If you want to remove the line from the camera picture, click the red box in the line and then click **Remove** button or click **Remove All** directly.
- 12. The statistical data of cross counting will be displayed on the left top corner of the image.
- 13. If you want to clear the statistical data of cross counting, click the **Reset Count** button.
- 14. If you want the green tracking frame that surrounds a detected object to be invisible during live view mode and playback, then choose Disable in the **Dynamic Marking**.





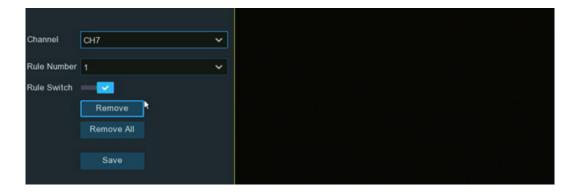
5.4.1.6 - HM (Heat Map)

Heat Map is a video analytics tool to provide a graphic overlay in the form of a heat map displaying the area and frequency of motion detected. This is especially useful for retail businesses to track customer movement to better understand consumer behavior. It can also be used to evaluate the traffic of populated areas such as amusement parks or museums.

Recognition		
Alarm Alarm	Switch	
CHI	Schedule	k
Statistics CH3 CH5 O		

Switch: To enable or disable the heat map function.

Setup: Click 🔅 to configure the detection conditions.



- 1. Select the channel you want to configure.
- 2. To enable the detection in Rule Switch.
- 3. As default, the whole image will be activated as heat map region. If you want to modify the region, click the red box on the top left corner, and then the borders of the region will be changed to red color. Click and hold each red-colored square to adjust the heat map region.
- 4. Click **Save** to save your settings.
- 5. If you want to delete the region, Click **Remove All**.



5.4.1.7 - CD (Crowd Density Detection)

Crowd density detection is based on face detection technology, which is used to detect crowd gathering to maintain a controllable order in certain area. When the total number of detected people in a certain area exceeds the pre-set allowed number, the system will send an alert.

Setup	FD	PD & VD	PID	LCD	cc	нм	co	QD	LPD	RSD	SOD	Sound De	itection	Video Tamperin	g Schedule		
Recognition																	
Alarm			Chan	nel				Set	φ		S	witch		Sen	sitivity	h	
V Aum			СН					۲			8	chedule					×
Statistics		снз						۲									¥
	CH5							۲									~

Switch: To enable or disable the heat map function.

Sensitivity: Adjust the sensitivity level. The higher the number, the more sensitive the detection will be. **Setup:** Click 🔅 to configure the detection conditions.



- 1. Select the channel you want to configure.
- 2. To set the minimum & maximum pixel of face size.
- 3. Set the maximum allowed number. When the total number of detected people in the selected area exceeds the pre-set allowed number, the system will send an alert.
- 4. You can choose **Full Screen**, the entire view of the camera is enabled for face detection as the detection area. Or you can choose **Customize**, and then use your mouse to click 8 points in the camera image to draw a virtual region.
- 5. To enable the detection in Rule Switch.
- 6. Click **Save** to save your settings.
- 7. If you want to remove the customized region, click Remove All directly.
- 8. If you want the green tracking frame that surrounds a detected object to be invisible during live view mode and playback, then choose Disable in the **Dynamic Marking**.



5.4.1.8 - QD (Queue Length Detection)

Queue length detection is used to detect the status of a queue, including its length and staying time.

٠	Setup	FD	PD & VD	PID	LCD	нм	QD	LPD	\$00	Sound Dete	Video Tampering	Sche	edule
•	Recognition												dh.
	Alarm			Chan	nel		Setup		Switch		Sensitivity		49
	Padatio			СН			٢		Sched	ule			
•	Statistics			СН								~	
				CH								~	

Switch: To enable or disable the queue length detection function.

Sensitivity: Adjust the sensitivity level. The higher the number, the more sensitive the detection will be.

Setup: Click 🔅 to configure the detection conditions.

	~
32	(32-1080)
500	(320-1080)
1	(1-100)
100	(1-3600)
Customize	~
	~
0	
Disable	~
Remove	
Remove All	
Save	
	1 100 Customize 1 Disable Remove

- 1. Select the channel you want to configure.
- 2. To set the minimum & maximum pixel of face size.
- 3. Set the maximum allowed number. When the total number of detected people in the line inside the detection area exceeds the pre-set allowed number, the system will send an alert.
- 4. Set the maximum staying time in seconds. The NVR will send an alert if the staying time of the queue is longer than the given staying time.
- 5. You can choose **Full Screen**, the entire view of the camera is enabled for face detection as the detection area. Or you can choose **Customize**, and then use your mouse to click 8 points in the camera image to draw a virtual region.
- 6. To enable the detection in Rule Switch.
- 7. Click **Save** to save your settings.
- 8. If you want to remove the customized region, click **Remove All** directly.
- 9. If you want the green tracking frame that surrounds a detected object to be invisible during live view mode and playback, then choose Disable in the **Dynamic Marking**.



5.4.1.9 - LPD (License Plate Detection)

License Plate Detection function, also called "Automatic License/Number Plate Recognition (ANPR)", helps to detect and record the license plate number.

٠	Setup	FD	PD & VD	PID	LCD	нм	CD	QD	LPD		SOD	Sound Detection	Video Tampering	Schedu	le
0	Recognition														
				Chan	nel				Set	up			Switch		
~	Alarm			СН	1				6				Schedule		
	Statistics			CH											
				CH	5				0						

Switch: To enable or disable the crowd density detection function.

Setup: Click 🔅 to configure the detection conditions.

- 1. Choose a channel you want to set.
- 2. Select how snapshots containing a recognized license plate will be captured. This can affect the number of license recognition notifications that you will receive:
 - Default Mode: a single, best snapshot of the license plate is captured.
 - **Realtime Mode:** the camera tracks and captures the license plate of vehicle entering and leaving the detection area. You'll get two notifications in the Alarm Notification Panel once when the license plate is first detected and again as the vehicle leaves the detection area. This is useful if you want to continuously monitor the vehicle's presence in an area and get alerts in real-time.
 - Interval Mode: you can specify the number of snapshots to take and the time interval between snapshots.
 - Snap Num: the number of snapshots to take
 - Snap Frequency: the time interval between snapshots
- 3. To set the minimum & maximum pixel of size of license plate.
- 4. Adjust the sensitivity level. The higher the number, the more sensitive the detection will be.



- 5. Choose one of the license plate types:
 - European license plate: mainly used in European countries.
 - American license plate: mainly used in United States.
- 6. Choose the detection mode:
 - Static Mode: all vehicles' license plates in the camera's field of view will be analyzed.
 - Motion Mode: only license plates of moving vehicles will be analyzed.
- 7. You can choose **Full Screen**, the entire view of the camera is enabled as the detection area. Or you can choose **Customize**, and then adjust the size of the detection region.
- 8. If you want the green tracking frame that surrounds a detected object to be invisible during live view mode and playback, then choose Disable in the **Dynamic Marking**.
- 9. LPD Enhance: Used to set whether to enable license plate detection enhancement.

Day Level: Used to set the day time level, which is applicable to day time scenarios. The larger the level value is, the brighter the image is. The lower the level value is, the darker the image is. The level value range is 0–255.

Night Level: Used to set the nighttime level, which is applicable to nighttime scenarios. The larger the level value is, the brighter the image is. The lower the level value is, the darker the image is. The level value range is 0–255.

NOTE: When the LPD function is enabled, if LPD enhancement is also enabled, the image brightness of the camera can be adjusted in accordance with the configured level value. Meanwhile, the device automatically adjusts its day time level or nighttime level in accordance with whether the camera is enabled with IR mode. The two application scenarios are independent of each other.

To use LPD enhancement, you need to set **Exposure Compensation** to **Disable** and set **Shutter** to **Auto** on the image control page. After LPD enhancement is enabled, **Time Exposure** cannot be modified.

5.4.1.10 - RSD (Rare Sound Detection)

With the Rare Sound Detection function, it will alert you when your NVR detects abnormal sound,

like baby crying, dog barking, and gunshot, and some certain actions can be taken when the alarm is

triggered.

FD	PD & VD	PID	LCD	сс	НМ	CD	QD	LPD	RSD	Schedule			
		Chan	nel					Setu	p		Switch	~	
		CH	1					۲					
		СН2	2					0					

Switch: To enable or disable the detection.

Setup: Click 🔅 to configure the detection conditions.

Channel: Select an available to configure.

Sensitivity: Adjust the sensitivity level. The higher the number, the more sensitive the detection will be.



Detection Type:

Channel CH7 Sensitivity 60 (1-100) Detection Type	J.H		
Detection Type Baby Crying Sound Dog Barking Gunshot	СН7	~	
 Baby Crying Sound Dog Barking Gunshot 	60	(1-100)	
 Dog Barking Gunshot 			- Min
Gunshot	🔽 Baby Crying Sound		
	Dog Barking		
Save	Gunshot		
Save	Paula		
	Save		
		60 Baby Crying Sound Dog Barking Gunshot	60 (1-100) Baby Crying Sound Dog Barking Gunshot

- Baby Crying Sound: Tick to enable baby crying detection.
- Dog Barking: Tick to enable dog barking detection.
- Gunshot: Tick to enable gunshot detection.

Click Save to save your settings.

5.4.1.11 - SOD (Stationary Object Detection)

Stationary Object Detection function detects the objects left over or lost in the pre-defined region, such

as the baggage, purse, dangerous materials, etc., and a series of actions can be taken when the alarm is triggered.

_														
			PD & VD	PID				LPD	\$00		ection	Video Tampering	Scheduk	
	Recog	nition												
				Chan	nel		Set	up		Switch		Sensitivity		*
	Alarm			СН	1		0)		Schedule				
	Statis			СН										
				СН			6)						
				сн										

Switch: Check the box to enable SOD function.

Sensitivity: Set the sensitivity level. Level 1 the lowest sensitivity level while level 4 is the highest sensitivity level.

Click **Setup** icon 🔅 to draw a virtual region in the camera image.

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



Channel	CH1	ħ	~
Rule Number	1		~
Rule Switch			
Rule Type	Legacy		~
Dynamic Marking	Enable		~
	Remove		
	Remove All		
	Save		

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

NOTE: 1. The detection area shall be greater than or equal to the size of the detected object, such as the detection of a white bottle.

2. The detected object cannot be covered.



5.4.1.12 - Sound Detection

With the sound detection, it will alert you when your NVR detects audio that matches or exceeds the set trigger level, and some certain actions can be taken when the alarm is triggered.

٠	Setup	FD	PD & VD	PID				LPD	SOD	Sound Dete	Video Tampering	Schedu	
0	Recognition			Chan			Set	up		Switch	Sensitivity		
•	Alarm			СН	1		0	>		Schedule			
0	Statistics												
				CH			C						
				СН									

Switch: enable or disable sound detection.

Rise: enable or disable sound rise detection.

Rise Sensitivity: change the sensitivity level. The higher the number, the more sensitive your NVR will be when detecting sound.

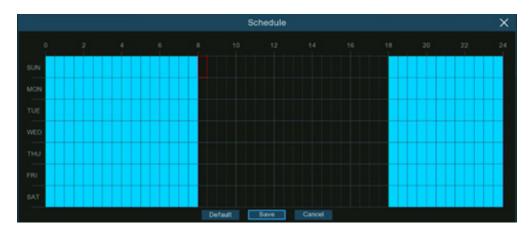
Sound Intensity: Set a threshold of sound intensity, the lower value, the more sensitivity.

Decline: enable or disable sound Decline detection.

Decline Sensitivity: change the sensitivity level. The higher the number, the more sensitive your NVR will be when detecting sound.

٠	Setup	FD	PD 8	s vo	PID	LCD	CC	нм	CD	90	LPD	RSD	SCC	Sound Detection	Video Tampering	Schedule	
•	Recognition			Dhannel			Sel	tella			Rise			Rise Sensitivity	Sound Intensi	ty Decline	Decline Sensitivity
0	Alarm			CH1			O ME			Dis				50	50	Disable	50
¢	Statistics			CH2						EN	ble		¥	80	50	Enable	80
				CH3						Dis	able		¥	50	50	Disable	50
				CH5						Dis	able		¥	50	50	Disable	50

Schedule: Each square represents 30 minutes. Using the mouse, click on a particular square to change or click and drag the mouse over the squares corresponding to your desired period. The sound detection will be activated if the time table is in blue color, oppositely the detection will be inactivated if the time table is in blue color, oppositely the detection will be inactivated if the time table is in blue color.



99



5.4.1.13 - Video Tampering

Video Tampering detects the occlusion of camera images, and some certain actions can be taken when the alarm is triggered.

٠	Setup	FD	PD & VD	PID	LCD	cc	нм	CD	QD	LPD	RSD	\$00	Sound Dete	ction	Video Tampering	Scheduk	•
•	Recognition																
0	Alarm			Chan					Set				Switch		Sensitivity		
				СН					0				Schedule				
÷	Statistics			СН													
				CH					0								
				СН													

Switch: Enable or disable the function

Sensitivity: The sensitivity level is from 1 to 6, with a default value of 3. Higher sensitivity will be easier to trigger the detection.



5.4.1.14 - Schedule

You can configure the recording schedule for AI detection functions.

The interface might be different vary with different camera firmware.

Interface A

- 1. Choose the channel you want to set.
- 2. Click on the mode radio button to choose one of the detection functions
- 3. By default, the detection is activated by 24 hours / 7 days, however you can change this according to your needs.
- 4. Each square represents 30 minutes. Using the mouse, click on a particular square to change or click and drag the mouse over the squares corresponding to your desired period. Squares



corresponding to your desired period. Squares in green color are active for deterrence.

- 5. The set schedule is valid only for one channel. If you want to use the same schedule for other channels, use **Copy** function.
- 6. Click **Save** to save changes made.
- 7. Right-click the mouse to exit.

Interface **B**

- 1. Choose a Channel you want to set.
- 2. Tick the Enable button to activate the Al recording schedule
- 3. Click on the mode radio button to choose one of the detection functions. The detection functions with red-colored radio button are mutually exclusive, one and only one of them can be activated at the same time.



- 4. Each square represents 30 minutes. Using the mouse, click on a particular square to change or click and drag the mouse over the squares corresponding to your desired period. Squares in green color are active for deterrence.
- 5. Block in grey color is occupied and unable to select. Block in black color is available to select.
- 6. Click Apply to save.



5.4.2 - Al Recognition

With the face detection & license plate detection functions, the system supports to recognize faces and vehicle license, you would need to configure the recognition algorithm model and manage the database.

5.4.2.1 - Model Configuration

To choose the face recognition AI algorithm model.

Model Configuration Database N	anagement License Plate Management		
Auto select face recognition mod	l		
Device/Channel	Face Recognition Model	Face Detection Model	Enable Face Recognition
1 Local	2 V0.6.0.0.2-release		2
СН6	V0.4.0.0.2-release	V0.4.1.6.1-release	
CH7	V0.4.0.0.2-release	V0.4.1.6.1-release	
СНВ		V0.4.1.6.1-release	
CH9		V0.2.1.2.1-release	

- 1 Local: NVR CH*: Cameras
- 2 If the NVR or a camera possesses the recognition capability, you will see the Model version on the column of Face Recognition Model

The face AI algorithm mainly includes two parts: Detection and Recognition.

- Detection is mostly used to detect and capture face images. Generally, the detection capability is possessed by IP cameras.
- Recognition is mostly used to extract, analyze and compare the face features. Recognition capability is possessed by the NVR and some of IP cameras.

To fully implement the face detection and recognition function, the system will select a face recognition model automatically when you use the face AI function at the first time.

If you want to choose the model by manual, untick the checkbox of **Auto select recognition model**, and then tick the checkbox of the model you want to enable.

Rules & advices for manual selection:

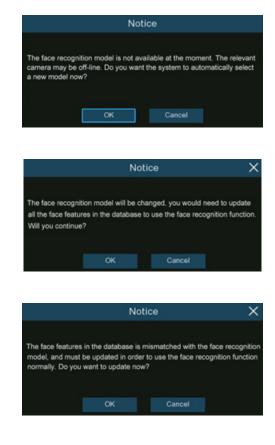
- 1. At least one face recognition algorithm model must be enabled, otherwise the face recognition function would malfunction.
- 2. Between NVR and camera, you can only select either-or.
- 3. Models with across versions are disallowed to be select.





- 4. Newer version (with bigger digital sequence) is preferred to be selected due to its algorithm optimization and database update.
- 5. Multiplex models with same version are allowed & recommended to be enabled. This would help to decrease the analysis loading on a single NVR or camera and accelerate the recognition.
- 6. If one or more selected cameras (not all) are off-line, the recognition mission will be automatically assigned to the rest of selected camera(s).
- When the Model is enabled on a single camera and if the camera is off-line, the face recognition will stop working. System will send an alert notification shown as below. Click OK to let the system automatically select a new model. If you click Cancel, you would need to configure the recognition model by manual later.
- 8. If you want to change the model to a different version, the system would send you a notice, click **OK** to continue.
- If the recognition model has been changed to a different version, the system would send you a notice, click OK to continue. If you click Cancel, you would need to go to Database Management menu and then click Update facial features button to update the database.





Mod	lel Confi	guration	Database Management	t License Plate Managemen				
Imp	port Dat	abase	Backup Database	Update facial features				
			Group Name					
		Allow	List					
		Block	List					
		Stran	ger					
4		Group	1					



5.4.2.2 - Face Recognition Database Management

You're able to create and manage the face profiles (database) to classify different people into different groups in order to quickly identify people in remote and realize intelligent alarm beforehand.

Model	I Configuration	Database Management	License Plate Management					
Impo	ort Database	Backup Database						
		Group Name		+/-	Edit	Enable	*	
1 🔲	Allow List				Ø	>		
2 📕	Block List				Ľ	>		
3 🗌	Stranger					>		
4 📃	Group 1				Ľ	>		
				÷				

There are 3 default groups:

- Allow List: Mostly used to define a list of people that are regarded as acceptable or trustworthy, such as family members, colleagues, frequent customers, etc.
- Block List: Mostly used to define a list of people that are regarded as unacceptable or untrustworthy and should be excluded or avoided.
- Stranger: All ungrouped people will be identified as stranger.

You can click add button ⊕ to create or click delete button 💼 to delete customized group.

If you want to make a backup of your database, use the **Backup Database** function to export it to your USB flash drive. The exported database can be imported to the same or another NVR by using **Import Database** function (Please note, this will overwrite the existing settings and face profiles.).

Tick the checkbox of **Enable** to enable the group. You would need to create face profiles (add face images) to the groups in order to sufficiently exert the identification effects.



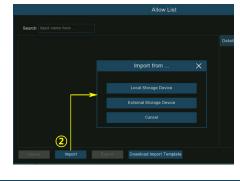
5.4.2.2.1 - Create Face Profile from Local Storage Device

This section will show how to create face profiles from face images that have been captured and stored

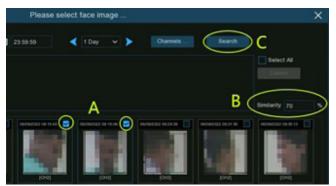
on your NVR.

- 1 − Click the **Edit** button *i* of the group that you would like to create face profiles for.
- 2 From the Group window, click the **Import** button, then click the **Local Storage Device** button.
- 3 Channels: All channels are set to search by default. You can specify the cameras you want to search on.
- 4 Use the calendar to specify the date range.
- 5 Choose the day duration, and then use the arrow buttons to quickly display face images from the previous or next day(s).
- 6 The search result will be displayed in the face list automatically. Use the arrow buttons to display previous or next page of results.
- 7 You can narrow the search result by using the similarity:
 - A: First, select the targeted face image(s) from the search result.
 - **B:** And then set the **Similarity** value. It is the face similarity threshold (%). The higher the number is, the more precise the result will be.
 - C: Click Search button, the system will search for faces with an equal or greater similarity than the specified value.
 - D: If you want to search from other days, choose the day duration, and then use the arrow buttons to quickly display face images from the previous or next day(s).
 - E: Tick the checkbox to select individual face image, or tick Select All to select all face images in current page of search result.
 - F: Once you've selected one or more face images, click the OK button. The system will go to profile edit page.













- 8 Click on a face image, then enter their identification details, such as the person's name and age. By default, each face image is given a face ID as its name.
- 9 When finished, click **Import** button. The face profile is now created and assigned to the group.

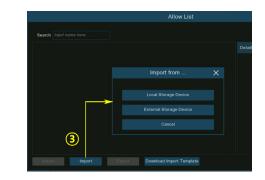


5.4.2.2.2 - Create Individual Face Profile from External Storage Device

- 1 Copy the face images to your USB flash drive, and then insert the USB device into the USB port of the NVR.
- **NOTE:** The supported formats of face image are ".jpg", ".jpeg", ".png", and ".bmp". The supported dimension of the image is from 80x80 to 800x800 pixels, and the maximum supported size is 500KB.
- Click the Edit button of the group that you would like to create face profiles for.
- 3 From the Group window, click the **Import** button, then click the **External Storage Device** button.

Name Size Dimensions Туре JPEG File Anna.jpeg 32 KB 700 x 720 Jack.jpeg JPEG File 88 KB 800 x 683 $\sqrt{}$ 🛋 David.jpg 800 x 891 JPG File 168 KB × 🖹 Jenny.jpeg 🗙 JPEG File 82 KB 1000 x 1000 🖹 Selina.jpg 🗙 JPG File 626 KB 800 x 683 Victoria.jpg 🗙 JPG File 4,371 KB 6000 x 4000





- Please select face image ...
 Please select face image ...

 Driver List:
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 <th
- 4 Click on the face image you want to import, and then click OK button.

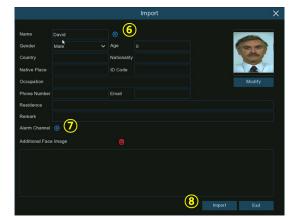


- 5 Edit the face profile of the people.
- 6 Click setup button to configure the voice prompt for the person. View more on 5.3.9. Voice Prompts to learn how to configure this function.
- i NOTE: The voice file you import here takes effect only to this person. If you had set several periods of time, you would need to import voice file for each period.
- 7 Click setup button to configure the Alarm Channel. The system will alert when the face is detected and captured by the selected cameras.
- 8 Click **Import** button to import the face profile.
- 9 Now you will see an add button displayed in the Additional Face Image window. You are able to add additional face images at different angles for the same person to improve face recognition accuracy:

Click the add button (2), to add images from local and/or external storage device. Maximum 10 images allowed to add.

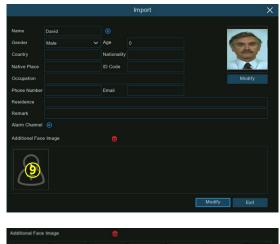
Click delete button 💼 to delete select image.

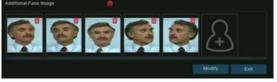
Click **Modify** button to finish, then click **Exit** button or right click your mouse to exit.



EN

Channel	_		1 6	7 6		
Voice Prompts		00:00:00		23:59:59		
		00:00:00		23:59:59		
		00:00:00		23:59:59		
		00:00:00		23:59:59		
		00:00:00		23:59:59		
		00:00:00		23:59:59		







5.4.2.2.3 - Create Bulk Face Profile from External Storage Device

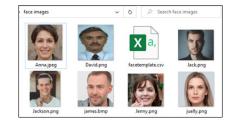
If you want to create a batch of face profiles at once, please proceed as below:

- Click the Edit button of the group that you would like to create face profiles for.
- 2. From the Group window, you will find the **Download Import Template** button.

- Insert your USB flash drive, and then click the Download Import Template button, a zip file named "import_template_enu.zip" will be downloaded into your USB flash drive.
- 4. Unzip the file, you will get 2 files shown as left.
- 5. Create a new folder, and give a name to it.
- Copy the "facetemplate.csv" file and the face images into the folder. Make sure the formats of face image are ".jpg", ".jpeg", ".png", or ".bmp", the dimension is between 80x80 and 800x800 pixels, and the size is no more than 500KB.







7. Double click on the "facetemplate.csv" file to run it with excel. The content is shown as below:

A	В	С	D	E	F	G	н	1	J	к	L	M	N	0	Р
name	gender	age	image pat	country	nation	nativepos	idcode	occupaito	phone	email	domicile	remark			
XXXXX	male	30	face/impc	China	Han natio	ZhuHai	20200903	zhuhai	1.46E+15	12348545	zhuhai	bukeyishuruzhongwen, bixuyongutf8			

Columns:

- A: Name of the person
- B: Gender of the person
- C: Age of the person
- **D:** Complete filename of the image, for example "David.png".
- E: Name of country/region where the person comes from.
- F: Race of the person
- G: Native place of the person
- H: ID number of the person
- I: Occupation/Job/Career of the person
- J: Phone number of the person
- K: Email address of the person
- L: Residence address of the person
- M: Remarks column

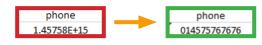


- 8. Edit the cells according to your actual conditions as illustrated as below:
- i NOTE:

If you input a number uninterruptedly more than 11 digits in a cell, the system will display the number in scientific notation, e.g., "1.23457E+11". If so, you would need to adjust the format of the column to be "Text"

Select the column (especially the column of ID code and phone number) and then click right button of your mouse. Click Format Cells... on the pop-up menu.

Choose Text, and then click OK button.



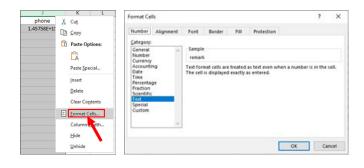
- 9. Save the .csv file. Make sure the file is saved as CSV UTF-8 type.
- 10. Copy the whole folder, including the face images and the "facetemplate.csv", and paste it to your USB flash drive.
- 11. Insert the USB flash drive into the USB port of your NVR.
- 12. Click the **Edit** button **C** of the group that you would like to create face profiles for.



13. From the Group window, click the **Import** button, then click the **External Storage Device** button.



name	gender	age	image path	country	nation	nativepos	idcode	occupaiton	phone	email	domicile	remark
Anna Joyce	Female	30	Anna.jpeg	UK	English	England	123456789	Professor	07-123 456 789	test@xxxxxx.com	No. xx, Downing Street, London	Test
Nora Martins	Female	30	nora.png	UK	English	England	123456790	Professor	07-123 456 790	test@xxxxxx.com	No. xx, Downing Street, London	Test
Shelly Clinton	Female	30	shelly.jpeg	UK	English	England	123456791	Editor	07-123 456 791	test@xxxxxx.com	No. xx, Downing Street, London	Test
Sinna Donald	Female	30	sinna.png	UK	English	England	123456792	Photographer	07-123 456 792	test@xxxxxx.com	No. xx, Downing Street, London	Test
James Timothy	Male	30	james.bmp	UK	English	England	123456793	Director	07-123 456 793	test@xxxxxx.com	No. xx, Downing Street, London	Test
Juelly Smith	Female	30	juelly.png	UK	English	England	123456794	Cashier	07-123 456 794	test@xxxxxx.com	No. xx, Downing Street, London	Test
Kally Jones	Female	30	kally.png	UK	English	England	123456795	Reporter	07-123 456 795	test@xxxxxx.com	No. xx, Downing Street, London	Test
Kevin Williams	Male	30	kevin.png	UK	English	England	123456796	Manager	07-123 456 796	test@xxxxx.com	No. xx, Downing Street, London	Test
Jenny Brown	Female	30	Jenny.png	UK	English	England	123456797	Guide	07-123 456 797	test@xxxxx.com	No. xx, Downing Street, London	Test
Lucy Taylor	Female	30	Lucy.jpeg	UK	English	England	123456798	Operator	07-123 456 798	test@xxxxxx.com	No. xx, Downing Street, London	Test
David Wilson	Male	30	David.png	UK	English	England	123456799	Scientist	07-123 456 799	test@xxxxxx.com	No. xx, Downing Street, London	Test
Jack Davis	Male	30	Jack.png	UK	English	England	123456800	Professor	07-123 456 800	test@xxxxxx.com	No. xx, Downing Street, London	Test



Model 0	Configuration	Database Management	License Plate Management			
Import		Backup Database				
					Enable	
1 🔲	Allow List				~	
2 📕	Block List			(12)	×	
3 🗌	Stranger				>	



14. Find out and click on the "facetemplate. csv" file from your USB flash drive, and then click OK.



15. The face profiles are shown here. Click **Import** button to import the face profiles into the NVR.



5.4.2.2.4 - Edit Face Profiles

If you want to edit or delete a face profile, please proceed as below:

- Click on the edit button in of the group you want to edit
- 2. In the group edit page, you're able to execute below operations:



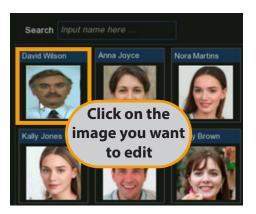
- Import: To import face images. View on 5.4.2.2.1. Create Face Profiles.
- Export: To export face image(s) to external USB flash drive.
 - Click **Export** button directly to export all face images in this group.
 - Click on one of the face images, and then click **Export** button to export an individual image.
 - Click and hold the left button of your mouse, then drag the cursor to select multiple images, and then click **Export** button to export the selected images.
- 3. Move the mouse cursor upon the image you want to edit and then click left button of your mouse to select it. Click right button of your mouse to display a pop-up menu.



- 4. With the pop-up menu, you're able to:
 - Edit: Click to edit the face profile. Check how to edit the profile on 5.4.2.2.2. Create Individual Face Profile from External Storage Device.
 - Move To: Click to move the face to another group.

Choose the targeted group, and then click OK.

- Delete: To delete the select face profile.
- **Detail Information:** Click to view the details of the selected face profile.









5.4.2.3 - License Plate Management

You're able to create and manage the vehicle license profile (database) to classify different vehicles into different groups in order to quickly identify vehicles in remote and realize intelligent alarm beforehand.

Setup Channel	Record Alarm Al Network Device System	🕒 03/26/2022 15:36:21 🛛 🗙
Setup	Model Configuration Database Management License Plate Management	
Recognition	Import Database Backup Database	
🗇 Alarm	Group Name +/- Edit Enable 🗸	
Statistics	1 🔲 Allow List 🕑 🔽	
	2 📕 Block List 🖉	
	3 🗌 Unkown 🗹	

There are 3 default groups:

- Allow List: Mostly used to define a list of vehicles that are regarded as acceptable or trustworthy.
- Block List: Mostly used to define a list of vehicles that are regarded as unacceptable or untrustworthy and should be excluded or avoided.
- Unknown: All ungrouped vehicles will be identified as unknown vehicles.

If you want to make a backup of your database, use the **Backup Database** function to export it to your USB flash drive. The exported database can be imported to the same or another NVR by using **Import Database** function.

Tick the checkbox of **Enable** to enable the group. You would need to create vehicle license profiles (add license number) to the groups in order to sufficiently exert the identification effects.

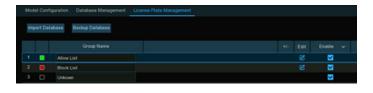
NOTE: The maximum number to create vehicle license profiles in each group is 5,000.

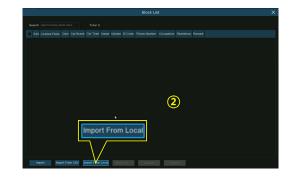
5.4.2.3.1 - Create License Profiles from Local Storage Device

This section will show how to create vehicle profiles from license plate images that have been captured

and stored on your NVR.

- Click the Edit button of the group that you would like to create vehicle license profiles for.
- 2 Click the **Import from Local** button.







	(4	Please select lice	ense plate image			>
From 06/06/2022	00:00:00	To 06/06/2022 🛗	23:59:59	(1 Day 🗸 🕨	Channels		
06/06/2022 18:44:20	06/06/2022 15:40:23	06/06/2022 14:48:11	06/06/2022 14:48:08 🗹	06/06/2022 14:47:45	06/06/2022 14:47:38	06/06/2022 14:47:18	06/06/2022 14:46:21
and a	RG	RG	RG			26	
[CH8] A	[CH7] L907RG	[CH7] L907RG	[CH7] L907RG	[CH7] L907RG	[CH7] 507G	[CH7] L907RG	[CH7] L907RG
06/06/2022 14:46:15	06/06/2022 14:46:02	06/06/2022 14:44:15	06/06/2022 14:44:07	06/06/2022 14:43:17	06/06/2022 14:43:01	06/06/2022 14:43:01	06/06/2022 14:42:47
RG			C C C C C C C C C C C C C C C C C C C		C	L IG	G
[CH7] L907RG	[CH7] L907RG	[CH7] L907RG	[CH7] L907RG	[CH7] L907RG	[CH7] L907RG	[CH7] L907RG	[CH7] L907RG
[CH7] L907G	[CH7] L907RG	[CH7] L90	[CH7] 07W	[CH7] NK7447	[CH7] J	[CH7] 1028	[CH7] L102BL
06/06/2022 14:39:19	06/06/2022 14:38:58	06/06/2022 14:38:57		06/06/2022 14:36:51	06/06/2022 14:36:49	06/06/2022 14:36:22	06/06/2022 14:36:14
[CH7] 67	[СН7] 8Х	[CH7] 35A			[CH7] 7	[CH7] 11800V	[CH7] N3DP
Select All	((16))	х ж				7 ок	Cancel

- 3 **Channels:** All channels are set to search by default. You can specify the cameras you want to search on.
- 4 Use the calendar to specify the date range.
- 5 Choose the day duration, and then use the arrow buttons to quickly display license plate images from the previous or next day(s).
- 6 The search result will be displayed in the face list automatically. Use the arrow buttons to display previous or next page of results.
- 7 Tick the checkbox on the top right corner of the image to select the license plate images that you want to import, and then click OK button.

									Import					×
	State	License Plate	Color	Car Brand	Car Type	Owner	Gender	ID Code	Phone Number	Occupation	Reside	Detail Informa	tion:	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		License Plate 4458877 4458877 16477 16477 157468 1500% 14607% 14607%	Color Blue Blue Blue Blue Blue Blue	вми	M2	Tony Luis	Male Male Male Male Male		Phone Number 09-12345678	Occupation	Reside	License Plate Color Car Brand Car Type Owner Gender		
				8)									
				Import	k	Delete								Exit

Now you will see a list of license number. Click on one of the license numbers, the detailed information will be list on the right side. You're able to edit the information, including license number, color, brand, model of the vehicle, and the owner's profile.
 Click Import button after finishing the information input, the selected license numbers have been added.



5.4.2.3.2 - Create License Profiles Manually

This section will show how to create vehicle manually.

Mod	lel Conf	iguration Database Mana	gement Lic	cense Plate Management				
Im	port Dat	abase Backup Database						
		Group Name				Edit	Enable	~
1		Allow List				ø	~	
		Block List			J	ø	~	
		Unkown					\sim	

- 1 − Click the **Edit** button ⁽²⁾ of the group that you would like to create vehicle license profiles for.
- 2 Click the **Import** button.
- Edit the license profile, including number, color, brand, model/type of the vehicle, and the owner's information.
- 4 Click setup button to configure the voice prompt for the person. View more on 5.3.9. Voice Prompts to learn how to configure this function.
- i NOTE: The voice file you import here takes effect only to this period. If you had set several periods of time, you would need to import voice file for each period.
- 5 Click setup button ³ to configure the Alarm Channel. The system will alert when the license plate is detected and captured by the selected cameras.
- 6 Click **Import** button after finishing the information input, click **Exit** to finish.

Block List	
Search Input Iconse plate here Total 0	
Edit License Plate Color Car Brand Car Type Owner Gender ID Code Phone Number Occupation Residence Remark	
Import	
Import Import From CSV Import From Local Move To Delate Export	



		Imp	oort			×
l texto m A						
License Plate	12-89-LM	۹ 🗳				
Color	Green 🗸					
Car Brand	BMW	Car Type	X5			
Owner	DAVID JAMES	Gender	Male			
ID Code	333333333	Occupation	CEO			
Phone Number	09-888888888		•			
Residence	London					
Remark	Boss					
Alarm Channel	_© (5)					
				C		
				6 Impo	rt	Exit



5.4.2.3.3 - Create Bulk License Profiles

If you want to create a batch of license profiles at once, please proceed as below:

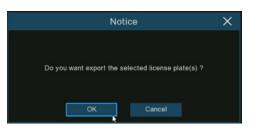
- 1. Insert your USB flash drive into the USB port of the NVR.
- 2. Click the **Edit** button *i* of any one of groups where there is at least one vehicle license profile exists.

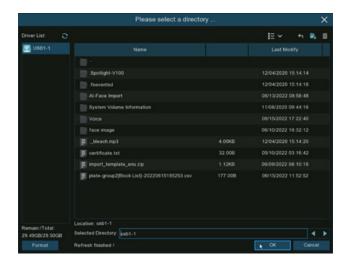
Мо	del Con	figuration	Database Management	License Plate Management				
Im	iport Da	tabase	Backup Database					
			Group Name			Edit	Enable	
1		Allow L	_ist			C	~	
2		Block I	List			C	~	
		Unkow	n				~	

3. From the Group window, select at least one of the license profiles, and then click **Export** button.



- 4. A ".csv" file will be exported and saved to your USB flash drive.
 - Click OK button.
 - Select the directory you want to save the file, and then Click **OK** button.
- 5. Double click on the exported ".csv" file to run it with excel in your PC. The content is shown as follows:







A	В	С	D	E	F	G	н	1	J	ĸ
License Plate	Color	Car Brand	Car Type	Owner	Gender	ID Code	Phone Number	Occupation	Residence	Remark
AB-123-C	blue	BMW	X5	David James	male	1.23457E+17	09-788 788 788	CEO	No. 10, xxx Road, London	Boss

Columns

- A: License number of the vehicle
- B: Color of the vehicle
- C: Brand of the vehicle
- D: Type/model of the vehicle
- E: Name of the owner of the vehicle
- F: Gender of the owner of the vehicle

- G: ID number of the owner of the vehicle
- H: Phone number of the owner of the vehicle
- I: Occupation/Job/Career of the owner of the vehicle
- J: Residence address of the owner of the vehicle
- K: Remarks column
- 6. Edit the cells according to your actual conditions as illustrated as below:

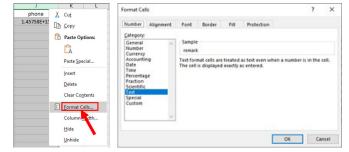
license Plate	Color	Car Brand	Car Type	Owner	Gender	ID Code	Phone Number	Occupation	Residence	Remark
AB-123-2	blue	BMW	X5	Anna Joyce	Female	12345678911111	09-788 788 788	Professor	No. 10, xxx Road, London	
AB-123-3	yellow	Lamborghini	Huracan	Nora Martins	Female	12345678911111	09-788 788 789	Professor	No. 11, xxx Road, London	Boss
AB-123-4	black	Volkswagen	Bora	Shelly Clinton	Female	12345678911111	09-788 788 790	Editor	No. 12, xxx Road, London	
AB-123-5	green	Hyundai	Tucson	Sinna Donald	Female	12345678911111	09-788 788 791	Photographer	No. 13, xxx Road, London	
AB-123-6	black	Toyota	Highlander	James Timothy	Male	12345678911111	09-788 788 792	Director	No. 14, xxx Road, London	
AB-123-7	white	Honda	Accord	Juelly Smith	Female	12345678911111	09-788 788 793	Cashier	No. 15, xxx Road, London	
AB-123-8	black	Peugeot	4008	Kally Jones	Female	12345678911111	09-788 788 794	Reporter	No. 16, xxx Road, London	
AB-123-9	black	Chevrolet	Blazer	Kevin Williams	Male	12345678911111	09-788 788 795	Manager	No. 17, xxx Road, London	

If you input a number uninterruptedly more than 11 digits in a cell, the system will display the number in scientific notation, e.g., "1.23457E+11". If so, you would need to adjust the format of the column to be "Text".

Select the column (especially the column of ID code and phone number) and then click right button of your mouse. Click Format Cells... on the pop-up menu.

Choose Text, and then click OK button.

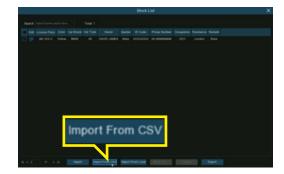




- 7. Save the ".csv" file. Make sure the file is saved as CSV UTF-8 type.
- 8. Copy and paste the ".csv" file to your USB flash drive.
- 9. Insert the USB flash drive into the USB port of your NVR.
- 10. Click the **Edit** button 2 of the group that you would like to import vehicle license profiles for.

Mo	del Cor	figuration	Database Management	License Plate Management				
le	nport D	atabase	Backup Database					
			Group Name			Edit		
1		Allow	List			Ľ		
2		Block	List			Ľ	~	
3		Unkow	m		10		×	

11. Click Import from CSV button, and then choose the ".csv" file from USB flash drive and click OK.



	Please select a	csv file _		
				e. 1
US81-1	Name			
	E Scares number cav			
	Econo sunber car	1.0048		
Remain/Total 29 4968029 5008	Lonabox with rt Beinted File Scene nurder car			



12. Now you can see a list of license number as illustrated below. Click on one of the license numbers, the detailed information will be list on the right side. Click **Import** button to import the license profiles into the NVR and click **Exit** to finish.

								Import				
	0	AB-123-2	Dise	BMW		Area Joyce	Female	12345678911111	09-788 788 1	License Plate		
~	0			Lanborghini								
~	0		Black	Volkswagen		Shally Cirton	Female	12345678911111			Black	
~	0											
~	0		Black		Highlander	James Tenothy		12345678911111			Biazar	
~	0										Kevin Williams	
V	0		Black	Peupeot				12345678911111		Gender	Male	
	0	AB-123-9	Black	Chevrolet	Biazer	Kevin Williams	Male	12345678911111	09-788 788		09-788 788 795	
										E Code	09-788 788 790	
										12345678911		
										Occupation		
										Manager		
										Residence		
к «				Import	Deb							
					U H							

5.4.2.3.4 - Edit License Profiles

If you want to edit or delete a face profile, please proceed as below:

1. Click the **Edit** button *d* of the group that you would like to edit the vehicle license profiles for.

Mode	el Conf	iguration Database Managen	nt License Plate Management		
Imp	ort Da	tabase Backup Database			
		Group Name	+/-	Edit	Enable 🗸
		Allow List		Ø	~
		Block List		C	~
		Unkown			~

 If you want to modify the information for a license profile, click the edit button in front of the license number.

			DAVE JAMES		19.888888888		

Modify the information on the Modify window accordingly, and then click **Modify** button to apply.

		Mo	dify		×
License Plate	A8-123-C				
Color	Yellow 🗸				
Car Brand	BMW	Car Type	x5		
Owner	DAVID JAMES	Gender	Male		
ID Code	33333333	Occupation	CEO		
Phone Number	09-888888888				
Residence	London				
Remark	Boss				
Alarm Channel					
				Modify	Exit



 If you want to delete, move or export license profile(s), please proceed as below:

Tick the checkbox to select the license profile firstly:

- If you want to delete, click **Delete** button and confirm to delete the selected license profile(s).
- If you want to move the profiles to another group, click **Move To...** button, and then select the targeted group.
- If you want to export the profiles to USB flash drive, click **Export** button to save a ".csv" file.

		Mo	dify	×
License Plate	A8-123-C			
Color	Yellow 🗸			
Car Brand	BMW	Car Type	x5	
Owner	DAVID JAMES	Gender	Male	
ID Code	33333333	Occupation	CEO	
Phone Number	09-888888888			
Residence	London			
Remark	Boss			
Alarm Channel				
				Exit



5.4.3 - AI Alarm Settings

In this section, you can configure the alarm actions when event occurs.

5.4.3.1 - FR (Face Recognition) Alarm Settings

To configure alarm actions for different groups when faces detected.

Setup		FR	AD	LPR	PD & VD	PID				LPD			and Detect		Video Tampering		
Recognition					Group Nam			able Al	arm 🗸		Policy		Similarity		Alarm	Alarm Schedule	Alarm Channel
	1		Al	ow List				2			Allow		70	%	۲	۲	۲
			Bk	ock List				×			Deny		70				
Statistics			58	ranger				4			Stranger			%			
			Gr	oup 1				×		Alk	w		70				
			Gr	oup 2				Š		Alle	W		70	5	۲	۲	
			Gr	oup 3				~		Alle	w		70				

Enable Alarm: Tick the checkbox of the group(s) you want to enable alarm function. If the checkbox isn't enabled, no actions specified for the group such as alarm notifications will be actioned by your NVR. It is strongly recommended that the "Enable" checkbox for the "Stranger" group remains ticked. This allows your NVR to save the images of every single face detected, including those that do not match any existing face profiles to the database. You can use these captured face images later to create or improve face profiles in the Allow List & Block List groups.

Policy: This setting is non-configurable for the three preset face groups. If a customized group has been created, you can set the policy of your customized group to either **Allow** or **Deny**.

Similarity: Set how closely, in percentage terms, the detected face must match a face profile in the group to be considered a recognized match. The default threshold is 70%. A higher percentage of similarity will result in fewer false recognition results.

Alarm: Click the button setup 🤨 to specify the group actions to be taken by your NVR when a face recognition event has occurred.

- **Buzzer:** When alarm event is detected, you can enable the NVR's buzzer to alert you for a predetermined amount of time. Click the drop-down menu to select a time.
- Alarm Out: If your NVR or IP camera supports to connect external replay output devices, the system can send an alert message to the external alarm devices. Click button, to choose the external alarm devices:

	Disable										
									2		
	Disable										
CH6 CH7	Disable				•	2	2		•		
CHB	Disable					2	2		0		0
						-	<u>u</u>				
									Copy	Default	
	All N										
	All 🖡										
	All 🖡 Local	->1			Local-	>2	2 L	ocal->3		<mark>⊻</mark> Lo	cal->4
~			į		Local-			ocal->3 246->1		⊻ Lo ⊻ CH	

Local: External alarm devices connected to the NVR.

CHx->1: External alarm devices connected to IP cameras.



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

Face Capture: Configure whether the snapshot of the recognized face will be saved to the face database on your NVR. Leave this option enabled so more facial images can be added to profiles later to improve the accuracy of face recognition.

Save Background: Whether the snapshot of the background will be saved together with the face image. It is recommended to leave this option enabled.

Show Thumbnail: Whether to generate a facial recognition event notification that includes a snapshot of the recognized face via the Alarm Notification Panel in Live View mode. Disabling this option will stop facial recognition events from appearing in the Alarm Notification Panel.

Send Email: An email alert will be sent when alarm event is detected. Click the checkbox if you want to disable this.

FTP Picture Upload: Click the checkbox to copy snapshots to your ftp server when the detection is triggered.

Picture to Cloud: Click the checkbox to copy snapshots to the cloud via Dropbox or Google Drive when the detection is triggered.

Voice Prompts: If your NVR connects with a speaker, you can select a customized alert voice when the detection is triggered. See how to add customized alert voice on 5.3.9 Voice Prompts.

Copy: Use the **Copy** function to apply all settings to the other connected cameras.

Default: Click Default to revert to default settings.

Save: Click Save to save settings.

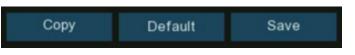
Alarm Schedule: Click setup button ³ to configure the schedule of when actions specified for the group will take effect.

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

Alarm Channel: Click setup button 🤨 to configure the Alarm Channel. The NVR will alert when faces are detected and captured by the selected cameras.









5.4.3.2 - AD (Attribution Detection) Alarm Settings

Attribute detection is a function to detect people's facial features and send an alarm according to the

settings.

Setup		AD LPR P	O & VD	PID LCD	0 00 UM	D RSD SCO	Sound	Detection	Video Tampering			
Recognition	Channel	Alarm Type		Buzzer	Alarm Out	Latch Time		Record v	Post Recording	Show Message 🐱		
	CH1	Close		OFF	۲	10 s		O ON	30 s	~	2	
		Close		OFF		10 s			30 s	×.	8	
Statistics	045	Close		OFF	۲	10 s		ON	30 s	×	×	
		Close		OFF		10 s			30 s	N	2	
	CH8	Close		OFF		10 s		() ON	30 s	×	2	
		Close		OFF		10 s			30 s	2	2	
	CH17	Close		OFF	۲	10 s		O ON	30 s	~	~	

Alarm Type: Select an alarm trigger condition:

- No Mask: When a person is detected not wearing a face mask, the NVR will send an automated alert
- Wear Mask: When a person is detected wearing a face mask, the NVR will send an automated alert
- Close: The face mask detection will be disabled.

NOTE: To enable the face mask detection function, you need to enable the Face Detection and Face Attribute function on the camera. If want to get the alert in real-time, you would need to set the snap mode to be Real-time. view more on 5.4.1.1. FD (Face Detection).

Buzzer: When alarm event is detected, you can enable the NVR's buzzer to alert you for a predetermined amount of time. Click the drop-down menu to select a time.

Alarm Out: If your NVR or IP camera supports to connect external replay output devices, the system can send an alert message to the external alarm devices. Click ^O button, to choose the external alarm devices:



Local: External alarm devices connected to the NVR.

CHx->1: External alarm devices connected to IP cameras.

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

Record: This option instructs your NVR to trigger additional cameras to start recording when motion is detected. Click the drop-down arrow to choose all channels to be recorded or not.

Click [©] button, click the **Record Channel** checkbox to enable recording. Click the checkbox in front of the channel number to select all channels or click on the individual camera number that you want to trigger for recording.

<mark>v</mark> R	ec	ord	Ch	ann	el											
	1	2	3		5	6	7	8	9	10	11	12	13	14	15	16
1	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

Post Recording: This option instructs your NVR to record for a set time after an event has occurred. For most instances, the default selection will be suitable, however, you can change this if you wish.

Show Message: When the detection is triggered, the alarm icon **s** will appear on screen.



Send Email: An email alert will be sent when alarm event is detected. Click the checkbox if you want to disable this.

Full Screen: Click the checkbox to view the camera full-screen in Live View mode when the detection is triggered.

Voice Prompts: If your NVR connects with a speaker, you can select a customized alert voice when the detection is triggered. See how to add customized alert voice on 5.3.9 Voice Prompts.

Default: Click Default to revert to default settings.

Copy: Use the Copy function to apply all settings to the other connected cameras.

Apply: Click Apply to save settings.

5.4.3.3 - LPR (License Plate Recognition) Alarm Settings

To configure alarm actions for different groups when vehicle license plates detected.

Setup		AD LPR P	O & VD				d Detection	Video Tampering			
Recognition	Channel	Alarm Type		Buzzer	Alarm Out	Latch Time	Record 🗸	Post Recording	Show Message 🐱		
	CH1	Close		OFF	۲	10 s	ON	30 s	2	~	
		Close		OFF		10 s		30 s	N	2	
Statistics	OHS	Close		OFF		10 s	ON	30 s	S	×	
		Close		OFF		10 s		30 s	2	2	
	CH8	Close		OFF		10 s	ON	30 s	¥	V	
		Close		OFF		10 s		30 s	2	2	
	CH17	Close		OFF	۲	10 s	ON	30 s	2	~	

Enable Alarm: Tick the checkbox of the group(s) you want to enable alarm function. If the checkbox isn't enabled, no actions specified for the group such as alarm notifications will be actioned by your NVR. It is strongly recommended that the **Enable** checkbox for the **Unknown** group remains ticked. This allows your NVR to save the images of every single license plate detected, including those that do not match any existing license profiles to the database. You can use these captured license plate images later to create or improve license profiles in the Allow List & Block List groups.

Policy: This setting is non-configurable for the three preset license groups. If a customized group has been created, you can set the policy of your customized group to either **Allow** or **Deny**.

Fault Tolerance: Varies in image resolution, light strength, camera angles, moving speed of the vehicle and etc., character(s) in the license plate number might be failed to recognize. Set the Fault Tolerance that how many characters the detected license allowed to be different from the license number saved in the group. If the number of difference characters between the detected license number and a license profile in the group is no more than the set value, the detected license will be considered a recognized match.

Only English letters and digit numbers will be recognized by the system, special symbols, like underline _, virgule /, hyphen -, will be excluded from being recognized. Please set the Fault Tolerance accordingly if you have input special symbols in the license number when creating a license profile.



Recognized License Number	Number in License Profile	Fault Tolerance	Recognition Result
AB123C	AB-123-C	≤2 characters	True
AB123C	AB-123-C	≤0 or 1 character	False
A8I23C	AB123C	≤2 characters	True
A8I23C	AB123C	≤0 or 1 character	False
B594SB	В734КВ	≤3 characters	True
B594SB	В734КВ	≤2 character	False
AB132C	AB123C	≤2 characters	True
AB123C	AB123C	≤0 or 1 character	False

Alarm: Click the button setup to specify the group actions to be taken by your NVR when a face recognition event has occurred.

- **Buzzer:** When alarm event is detected, you can enable the NVR's buzzer to alert you for a predetermined amount of time. Click the drop-down menu to select a time.
- Alarm Out: If your NVR or IP camera supports to connect external replay output devices, the system can send an alert message to the external alarm devices. Click button, to choose the external alarm devices:

🗹 All 🦒			
Local->1	Local->2	Local->3	Local->4
🗹 CH1->1	🗹 CH2->1	🗹 CH6->1	🗹 CH7->1
CH8->1	V CH11->1		

Local: External alarm devices connected to the NVR.

CHx->1: External alarm devices connected to IP cameras.

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

License Plate Capture: Configure whether the snapshot of the recognized license plate will be saved to the license database on your NVR. Leave this option enabled so more license plate images can be added to profiles later to improve the accuracy of license plate recognition.

Save Background: Whether the snapshot of the background will be saved together with the license plate image. It is recommended to leave this option enabled.

Show Thumbnail: Whether to generate a license plate recognition event notification that includes a snapshot of the recognized license plate via the Alarm Notification Panel in Live View mode. Disabling this option will stop license plate recognition events from appearing in the Alarm Notification Panel.

Send Email: An email alert will be sent when alarm event is detected. Click the checkbox if you want to disable this.

FTP Picture Upload: Click the checkbox to copy snapshots to your ftp server when the detection is triggered.

Picture to Cloud: Click the checkbox to copy snapshots to the cloud via Dropbox or Google Drive when the detection is triggered.

Voice Prompts: If your NVR connects with a speaker, you can select a customized alert voice when the detection is triggered. See how to add customized alert voice on 5.3.9 Voice Prompts.



Save

Copy: Use the Copy function to apply all settings to the other connected cameras.

Default: Click **Default** to revert to default settings.

Save: Click Save to save settings.

Alarm Schedule: Click setup button 🤨 to configure the schedule of when actions specified for the group will take effect.

To set the schedule, choose one channel then drag the cursor to mark the slo the time slots will be acti schedule is valid only for time when you set. If you schedule for other chann Click Save to save your se

Alarm Channel: Click setup button 🤹 to configure the Alarm Channel. The NVR will alert when faces are detected and captured by the selected cameras.

Copy

5.4.3.4 - PD & VD (Human & Vehicle Detection) Alarm Settings

To configure alarm actions when human beings and/or vehicles are detected.

0 Setup		AD LPR P	0 & VD	PID LCD		LPD		Sound Detection		to Tampering		
Recognition	Channel	Buzzer		Alarm Out	Latch Time		Record v	Post Recording		Show Message 🗸	Send Email 🗸	FTP Picture Upload 🗸 🤳
	CH1	OFF		Θ	10 s		ON	30 s 🔖	۲	5	~	2
	012	OFF			10 s			30 s		M	N	ß
 Statistics 	CH3	OFF			10 s		ON	30 +		3	5	2
	015	OFF			10 s		ON ON	30 s		M	K	ß
	CH6	OFF		e	10 s		ON	30 s		¥	×	2

Buzzer: When alarm event is detected, you can enable the NVR's buzzer to alert you for a predetermined amount of time. Click the drop-down menu to select a time.

Alarm Out: If your NVR or IP camera supports to connect external replay output devices, the system can send an alert message to the external alarm devices. Click 🤨 button, to choose the external alarm devices:

Local: External alarm devices connected to the NVR.

CHx->1: External alarm devices connected to IP cameras.

Record: This option instructs your NVR to trigger additional cameras to start recording when motion is detected. Click the drop-down arrow to choose all channels to be recorded or not.

5	
lots. The sky-blue blocks in	TUE
tive for alarm actions. The	WED CONTRACTOR
r the selected channel each	
u want to use the same	SAT
nels, use Copy function.	
settings.	
5	

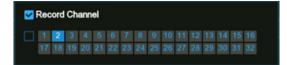


Default

🖌 All 🦌			
Local->1	🛃 Local->2	Local->3	Local->4
🗹 CH1->1	🗹 CH2->1	🗹 CH6->1	🗹 CH7->1
CH8->1	CH11->1		



Click ⁽²⁾ button, click the **Record Channel** checkbox to enable recording. Click the checkbox in front of the channel number to select all channels or click on the individual camera number that you want to trigger for recording.



Post Recording: This option instructs your NVR to record for a set time after an event has occurred. For most instances, the default selection will be suitable, however, you can change this if you wish.

Show Message: When the detection is triggered, the alarm icon **S** will appear on screen.

Send Email: An email alert will be sent when alarm event is detected. Click the checkbox if you want to disable this.

FTP Picture Upload: Click the checkbox to copy snapshots to your ftp server when the detection is triggered.

FTP Video Upload: Click the checkbox to copy videos to your ftp server when the detection is triggered.

Picture to Cloud: Click the checkbox to copy snapshots to the cloud via Dropbox or Google Drive when the detection is triggered.

Video to Cloud: Click the checkbox to copy videos to the cloud via Dropbox or Google Drive when the detection is triggered.

Full Screen: Click the checkbox to view the camera full-screen in Live View mode when the detection is triggered.

Voice Prompts: If your NVR connects with a speaker, you can select a customized alert voice when the detection is triggered. See how to add customized alert voice on 5.3.9 Voice Prompts.

Copy: Use the Copy function to apply all settings to the other connected cameras.

Default: Click Default to revert to default settings.

Apply: Click Apply to save settings.

5.4.3.5 - FD/PID/LCD/CC/CD/QD/LPD/RSD/SOD/Sound Detection/Video Tampering Alarm Settings

The setting method to configure alarm actions is same for FD, PID, LCD, CC, CD, QD, LPD, RSD, SOD, Sound

Detection and Video Tampering.

NOTE: LPD (License Plate Detection) is different from LPR (License Plate Recognition). LPD emphasizes on "detection", which will take actions when license plates are detected by the camera, no matter the license plates are documented in the database or not. LPR emphasizes on "recognition" and triggers the alarm actions with recognition result.

Setup	FD FR		LPR	PD & VD	PID LCC			LPD				Vid	io Tampering		
Recognition	Channel		Butze		Alarm Out						Post Recording		Show Message v	Send Email v	FTP Picture Upload 🐱
Alam	CHI1	OFF			۲	10			0 0	N	30 s		2		2
© Statistics															



Buzzer: When alarm event is detected, you can enable the NVR's buzzer to alert you for a predetermined amount of time. Click the drop-down menu to select a time.

V All 🕨

✓ Local->1

CH1->1

CH8->1

Alarm Out: If your NVR or IP camera supports to connect external replay output devices, the system can send an alert message to the external alarm devices. Click ⁽²⁾ button, to choose the external alarm devices:

Local: External alarm devices connected to the NVR.

CHx->1: External alarm devices connected to IP cameras.

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

Record: This option instructs your NVR to trigger additional cameras to start recording when motion is detected. Click the drop-down arrow to choose all channels to be recorded or not.

Click 🔅 button, click the **Record Channel** checkbox to enable recording. Click the checkbox in front of the channel number to select all channels or click on the individual camera number that you want to trigger for recording.

Post Recording: This option instructs your NVR to record for a set time after an event has occurred. For most instances, the default selection will be suitable, however, you can change this if you wish.

Show Message: When the detection is triggered, the alarm icon **S** will appear on screen.

Send Email: An email alert will be sent when alarm event is detected. Click the checkbox if you want to disable this.

FTP Picture Upload: Click the checkbox to copy snapshots to your ftp server when the detection is triggered.

FTP Video Upload: Click the checkbox to copy videos to your ftp server when the detection is triggered.

Picture to Cloud: Click the checkbox to copy snapshots to the cloud via Dropbox or Google Drive when the detection is triggered.

Video to Cloud: Click the checkbox to copy videos to the cloud via Dropbox or Google Drive when the detection is triggered.

Full Screen: Click the checkbox to view the camera full-screen in Live View mode when the detection is triggered.

Voice Prompts: If your NVR connects with a speaker, you can select a customized alert voice when the detection is triggered. See how to add customized alert voice on 5.3.9 Voice Prompts.

Copy: Use the Copy function to apply all settings to the other connected cameras.

Default: Click Default to revert to default settings.

Apply: Click Apply to save settings.



✓ Local->2

CH2->1

✓ Local->3

V CH6->1



✓ Local->4

V CH7->1

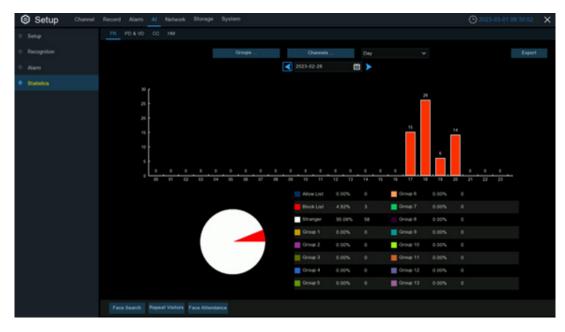
EN





5.4.4 - Statistics

Your NVR can retrieve and present statistical data relating to the detection of objects when related AI detection is enabled on the camera.



5.4.4.1 - FR (Face Recognition) Statistics

Your NVR can retrieve and present statistical data relating to the detection of faces when the Face Recognition is enabled on the camera. The bar chart displays the number of faces that were detected during a particular time period while the pie chart displays the percentage share and frequency of detected faces belonging to each group.

Groups: Select the groups from which the face recognition data is obtained. By default, all groups have been selected.

Channels: Select the channels from which the face recognition data is obtained. By default, all channels have been selected.

Day/Week/Month/Quarter/Year: Click the dropdown menu to select the time period from which the face recognition data is obtained.

Calendar: Change the start date of the selected time period, click *d* or *b* button to move to last or next period.



Export: Export the facial recognition data for the selected time period to a USB flash drive. The file will be saved as a *.CSV file. You can open the file in Excel (or similar software) to further analyze the data.



EN

5.4.4.2 - PD & VD (Human & Vehicle) Statistics

Your NVR can retrieve and present statistical data relating to the detection of objects when the Human

& Vehicle video analytic is enabled on the camera. The bar chart displays the number of humans and/or

vehicles that were detected during a particular time.

Al: Click on the button to select the detection type(s) from which the human & vehicle detection data is obtained. By default, all types have been selected.

Channels: Select the channels from which the human & vehicle detection data is obtained. By default, all channels have been selected.

Day/Week/Month/Quarter/Year: Click the dropdown menu to select the time period from which human & vehicle detection data is obtained.

Calendar: Change the start date of the selected time period, click *<* or *>* button to move to last or next period.

Export: Export the facial recognition data for the selected time period to a USB flash drive. The file will be saved as a *.CSV file. You can open the file in Excel (or similar software) to further analyze the data.

5.4.4.3 - PD & VD (Human & Vehicle) Statistics

Your NVR can retrieve and present statistical data relating to the detection of objects when the Human

& Vehicle video analytic is enabled on the camera. The bar chart displays the number of humans and/or

vehicles that were detected during a particular time.

- 1. Choose the Channel & Date you want to search.
- 2. Choose the Cross Type: Cross In or Cross Out.
- 3. Choose the Detection Type from Motion, Person, Motor Vehicle or Non-motor Vehicle.
- 4. Click Search button, the result will be displayed in column chart as default. You can click Line Chart to change its display mode.
- 5. The statistical data is searched and displayed a daily report by default. You can change the Report Type to choose a Weekly, Monthly or Annual report, and then click Search again.

Channel				08				Report	Type D	why Rep						Column	Ohar	£.,	u	e Cha	
			Detection													- Sea	rth		1	Export	
×r																					
25																					
20																					
15																					
i.L			1.1	0	0		. 0			+	0 14	+	1	- 0-		- 0					
	80 81 62		04 05		67 04	4 00											2				
									59												
		0						Hour 0 00 - 00	59						Cross						
		0					e 6	How 0 00 - 00 1 00 - 01	59 59 59						0000 0						
		0					0 0 0	How 0 00 - 00 1 00 - 01 2 00 - 02	59 59 59						0 0 0 0						
		0 1 2 3 4					0 0 0	How 0 00 - 00 1 00 - 01 2 00 - 03 3 00 - 03	19 19 19 59 59						0						

6. Click Export button if you want to export the statistical data to USB flash drive. The file will be saved as a *.CSV file. You can open the file in Excel (or similar software) to further analyze the data.



5.4.4.4 - HM (Heat Map) Statistics

Your NVR can retrieve and present statistical data relating to the detection of objects when the Heat Map video analytic is enabled on the camera. The color map gives you a visual display showing the area and frequency of motion detected. Warm colors represent high frequency and cool colors represent low frequency.

Channel: Select the channel from which the heat map statistic is obtained.

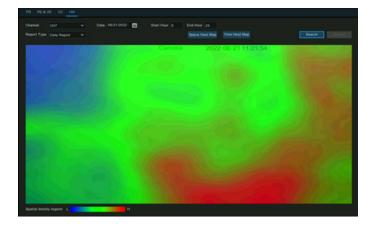
Report Type: Select daily, weekly, monthly or annual.

Date: Select the relevant date.

Start/End Hour: Select the relevant start and end hours.

Click **Search** to display the heat map statistic.

The Spatial Density Color represents the frequency of motion detected.





5.5 - Network

This menu allows you to configure network parameters

5.5.1 - General Settings

To configure the network connection parameters here.

5.5.1.1 - General

To configure the network connection parameters here.

Setup Channel	Record Alarm	Al Network Storage System	n		
General	General PPPoE	SNMP Port Configuration			
• DDNS					
	WAN			Internal Interface	
• Email	DHCP				
• IP FILTER	IP Address	172.020.053.037		IP Address	192.168.254.100
Voice Assistant	Subnet Mask			Subnet Mask	255 255 255 000
Platform Access	Gateway				
	IPv6 Address				
	IPv6 Gateway				
	DNS1				
	DNS2				
	Web Compat	ibility Mode 🛛			
	Channels Vid	eo Encryption Transmission			

If you connect to a router which allows to use DHCP (Dynamic Host Configuration Protocol), please tick the checkbox of **DHCP**. The router will assign automatically all the network parameters for your NVR.

When disabling DHCP, the following options can be changed (this is for advanced users only):

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

Subnet Mask: This allows the flow of network traffic between hosts to be segregated based on a network configuration. A typical address might be "255.255.255.0" or something similar.

Gateway: This allows your NVR to connect to the internet and is typically the same IP address as your modem or router. The format of the **Gateway** address is the same as the **IP Address**. For example, "192.168.001.001".

DNS1/DNS2: Input the DNS settings for your internet service provider. DNS1 is the primary DNS server and DNS2 is a backup DNS server. Usually, it should be enough just to enter the DNS1 server address.

IPv6 Address: Input the IPv6 IP address if your network service supports IPv6. It consists of eight groups of characters between 0 to FFFF, separated by periods. For example, "ABCD:EF01:2345:6789:ABCD:EF01:2345:6789".



Web Compatibility Mode: If you are failed to login the NVR webpage with https protocol, enable the compatibility mode and try again. Otherwise, keep it disabled.

If your NVR comes with PoE ports, you will see the **Internal Interface** as shown:

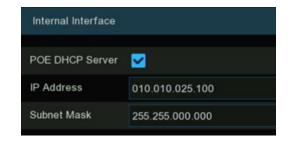
PoE DHCP Server: Tick the checkbox to enable DHCP service. It will automatically assign an IP address to each IP camera connected to the PoE ports.

IP Address: Set the IP address for the internal PoE router. Leave this on the default setting.

Subnet Mask: Leave this on the default setting.

If the device is non-POE and supports dual LAN ports, you can see the following internal GUI:

After manually setting the IP address and subnet mask of the LAN port, you can add cameras of different network segments to the same device through the LAN port.



IP Address 192.16	8.254.100
Subnet Mask 255.25	5.255.000

5.5.1.2 - PPPoE Settings

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

Setup Channel Record Alarm Al Network Storage System	
General General PPPoE SNMP Port Configuration	
DDNS Enable PPPOE	
© Email User admin	
Password	Ø
Voice Assistant IP Address	
Platform Access Subnet Mask	
Gateway	
DNS1	
DNS2 008.008.008	

Tick the checkbox of the "Enable PPPOE", and then enter the User name & Password of the PPPoE you got

from your ISP.

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



5.5.1.3 - SNMP

SNMP (Simple Network Management Protocol) is an Internet Standard protocol for collecting and organizing information about managed devices on IP networks and for modifying that information to change device behaviour.

With the SNMP, you are allowed to connected the NVR with 3rd party network management platform and acquire the NVR information, such as firmware version number, device type, resolution, frame rate, and etc.

Setup Ch	annel Record Alarm	Al Network	Storage System	
• General	General PPPoE	SNMP Por	rt Configuration	
• DDNS	Enable SN	MP	N	k
• Email	SNMP Vers	sion	V1	, v
IP FILTER	SNMP Port	t	00161	
	Read Com	munity	public	
Voice Assistant	Write Com	munity	private	
Platform Access	Trap IP Ad	ldress	127.000.000.001	
	Trap Port		00162	

5.5.1.4 - Wireless Connection

If you have a compatible Wi-Fi dongle connected to an available USB port on your NVR, the Wi-Fi tab will appear. This gives you the flexibility of placing your NVR in a different location, without having to be physically connected to your router or modem.

Setup Channe	el Record Alarm Al <u>Network</u> Storage System	m
General	General PPPoE SNMP Port Configuration	
© DDNS	Enable SNMP	k
🔍 Email	SNMP Version V1	~
IP FILTER	SNMP Port 00161	
	Read Community public	
Voice Assistant	Write Community private	
Platform Access	Trap IP Address 127.000.000.001	
	Trap Port 00162	



NOTE: The Wi-Fi connection function is not a universal feature for all models. Inquiry your local dealer before using this feature.

Before proceeding, disconnect the Ethernet cable from your NVR's Ethernet port (if connected).

- 1. Tick the checkbox of **Enable** to activate the Wi-Fi connection.
- 2. Click the **Scan** button. After a short moment, a list of Wi-Fi access points that your NVR detects will be shown. If the access point you want to connect is not shown in the list, click **Update** button to refresh.

Scan		×
Rate	Security	
	[WPA-PSK-CCMP+TKP][WPA2-PSK-CCMP+TKP][ESS]	
.11	[WPA-PSK-CCMP+TKIP][WPA2-PSK-CCMP+TKIP][ESS]	
.1	[WPA-PSK-CCMP][WPA2-PSK-CCMP][ESS]	
.il	[WPA-P5K-CCMP+TKPTWPA2-P5K-CCMP+TKPTES5]	
	[WPA-PSK-CCMPTWPA2-PSK-CCMPTESS]	
	[WPA-PSK-CCMP][WPA2-PSK-CCMP][ESS]	
all	[WPA-PSK-CCMP+TKP][WPA2-PSK-CCMP+TKP][ESS]	
	ब ब ब ब ब ब	Rate Security III [WPA-PSK-CCMP+TK0PTWPA2-PSK-CCMP+TK0PTESS] III [WPA-PSK-CCMP+TK0PTWPA2-PSK-CCMP+TK0PTESS] III [WPA-PSK-CCMP+TK0PTWPA2-PSK-CCMP+TK0PTESS] III [WPA-PSK-CCMP+TK0PTWPA2-PSK-CCMP+TK0PTESS] III [WPA-PSK-CCMP+TK0PTWPA2-PSK-CCMP+TK0PTESS] III [WPA-PSK-CCMP+TK0PTWPA2-PSK-CCMP+TK0PTESS] III [WPA-PSK-CCMPTWPA2-PSK-CCMP+TK0PTESS] III [WPA-PSK-CCMPTWPA2-PSK-CCMPTESS]

- 3. Double click on the access point you want to connect.
- 4. Input the password for your Wi-Fi access point, then click the **Join** button. Ensure the password is correct before proceeding.
- 5. After a short moment, your NVR will connect to your Wi-Fi access point. Click **OK** to continue. If the connection has failed, check that the password is correct. The Link Status will change to Connected, showing a successful connection. Click **Apply** to save settings.

Setup Channel	Record Alarm	Al Network	Storage Sys	item					
General	General PP	PoE SNMP Wirele	Port Con	figuration					
ODNS		Service	Protocol	Internal Port	External Port	UPNP Status	Maping Strategy	UPNP	
Email		Http/Https/RTSP	TCP	00060		Inactive	Auto 🗸	×	
IP FILTER		Client	TCP	09000		Inactive	Auto 🗸	M	
Voice Assistant									
Platform Access	Instruction:	Instruction:							
	rtsp://ip:port	rtsp://ip:port/rtsp/streaming?channel=A&subtype=B							
	A:01(ch1),0	2(ch2)							
	B:0(main st	ream),1(sub stream)							
	External IP								
	P2P Switch	×							
	Forward Po	rt 🔽						×.	

5.5.1.4 - Port Configuration



http/https/rtsp: This port is mostly used to log into your NVR via webpage or 3rd party streaming player by rtsp protocol. If the default port number (80) is used by other devices in the network, you may need to change it.

Client Port: This is the internal port that your NVR will use to send information through. This particular port number (9000) is not used by many devices, however, if you have another NVR-like device, you may need to change it.

Internal Port: It is mostly used to access the NVR from the same LAN.

External Port: It is mostly used to access the NVR from a different LAN or internet. You need to forward the external ports to internet from your router manually If you want to access your NVR via internet, which would be a little more complicated for users without network knowledge. Using **UPNP** would make it easier.

UPNP is a network protocol designed to allow network-connected devices to automatically obtain and forward the ports from the router.

- 1. Tick the checkbox of **UPNP**.
- 2. Choose **Auto** on Mapping Strategy, the external port will be automatically obtained and forwarded from your router.
- 3. If you want to change the external port by manual, choose **Manual** on Mapping Strategy and then modify the port accordingly.



P2P Switch: Click to enable P2P function.

IP Camera Hyperlink: This advanced feature allows to visit the webpage of the IP cameras which are connected to the NVR when you're accessing in the NVR's webpage. Tick the checkbox to enable this feature and click **Apply** to save, you will find the hyperlink of each capable IP camera on the NVR's webpage.

											LNe	Playba	A Nameda Se	Local Se	mgs (
> Channel	# Date	-													
David I Ure I		Channel	0.00	100	Natura III	Inc wary	P.Adves	Subnet Mark	Part	Manufacturer	Device Type	Puttered	MAC Astron	Software Version	Concession in the local division of
naga Control PTZ Meo Coner ROI							172,28.53.9	255,255,255,000			IP CAMERA	Private	III-23-43-94-96-CB	V16.46.8.2.3,22982	Help: 1172.26 53-624688
lake PH Maliget		90					172,26,53,21	255,255,255,000	9965		IP CAMERA	Private	BC-514/E-49-E145	VL4152_200001	
B Record		00					172 20 53 23	255.255.255.000			IP CAMERA	Pilvale	00-2343-34-75-49	¥27.468.2.5,22981	144y 2172 26 53 43 6560 3
Incode Record Capitore		CHI					17228.5324	255.255.255.000			IP CAMERA	Pilvate	99-23-52-82-82-82-82	¥25.11.8.2.3,22901 9	MQ /1172.20.53.43.6580 4
Alarm		06					172.38 55.26	255,255,255,000			IP CAMERA	Paule	00-2245-00-E1-6A	V21.4582.3,22101	Mg /172.20 S3 434540 5
Max 1 10 1 PM 1		06					172.28.53.31	255.255.255.000			30KD Alarm	Pilote	00-23-63-9E-70-04	V0136823,22901	1492/17220.53434568 4
ordination Alarm (08					172.28.53.29	255.255.255.000			GVC-PC-3HS(3.6)V	Private	09-23-43-9E-78-94	V01.36.8.2 (2001	May (*172.30.53.43.4580
12 Linkage Enception Iom Schedule		0e					172.28.53.30	255,255,255,000			IP CAMERA	Pilote	00-23-43-88-61-50	V29 6823,22911	Mp /172.29.53.43.4549
ka Porgis Deterance m Dearring		0.6					172.28.53.52	255,255,255,000			IP CAMERA	Pilote	10-23-63-88-84-07	V0136823,22901	149-1172-20-53-43-4540 9
) N		One					172,28,53,33	255,255,255,000			IP CAMERA	Plivate	0-2943-9 19-7C	V1136823,22981	140p (1172-20-53-43-454)
ng (Respire)		OHTT					172.20.54.21	255.255.255.000	9000		IP CAMERA	Private	11.44-04-04-08	V23152,218364	
irm Sublics		CH12													



5.5.2 - DDNS

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

Setup Channel	Record Alarm Al Network Storage System	
Ø General	DDNS	
ODNS	DDNS 🔽	
💿 Email	Server NO_IP V	
IP FILTER	Hostname	
Voice Assistant	User Password	
Platform Access	Test	

DDNS: Check to enable DDNS.

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

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

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

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

5.5.3 - Email Settings

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

Record Alarm	n Al Network	Storage	System
DDNS			
DDNS	Y		
Server	NO_IP		~
Hostname			
User			
Password			
	Test		
	DDNS DDNS Server Hostname User	DDNS Server NO_IP Hostname User Password	DDNS C DDNS C Server NO_IP Hostname User Password



5.5.3.1 - Email Configuration

Email: Click the checkbox to enable.

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

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

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

User Name: Enter your email address.

Password: Enter the password of your email.

Receiver 1~3: Input the email address(es) to send email alerts to.

Interval: This is the length of time that must elapse after your NVR sends an email alert before it will send another. Adjust accordingly.

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

5.5.3.2 - Email Schedule

If email alerts are enabled on your NVR, alerts would be emailed 24 hours as default. You can change the schedule when your NVR can send those alerts. For example, you may only want to receive alerts during the day but not in the evening. An alternative schedule can be created for each camera.

- 1. Select a channel you want to set the schedule.
- 2. Click on ratio button of the alarm type that you want to send email alerts for:
 - Motion: Email alerts for motion detection events
 - IO: Email alerts for I/O triggered events
 - Exception: Email alerts for exception events which include no space left on the hard drive, a hard drive error or if one of the channels has lost the feed from its camera.

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101							0.0	
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HU I								
-							-	
					-			

- Intelligent & AI: Email alerts for Intelligent or AI detection events
- PIR: Email alerts for PIR events
- 3. Using the mouse, click on a square to change or click and drag the mouse over the squares corresponding to your desired period
- 4. Repeat step 2 & 3 to set the schedule for other alarm type.
- 5. The set schedule is valid only for one channel. If you want to use the same recording schedule for other channels, use **Copy** function.
- 6. Click Apply to save your settings.

Email Configuration	n Email Schedule	
Email		
Encryption	SSL 🗸	
SMTP Port	00465	
SMTP Server	smtp.gmail.com	
User Name	xxxxxx@gmail.com	
Password	•••••	
Sender	NVRNotification	
Receiver 1	xxxxxx@gmail.com	
Receiver 2		
Receiver 3		
Interval	3 Min 🗸	
r.		



5.5.4 - IP Filter

IP Filtering is a great way to limit access to your network devices for specific groups of IP addresses. For example, if you had a malicious user attacking your network, you could add a filter to prevent access to your devices from a single IP address or a block of IP addresses.

Setup Channel	Record Alarm Al Network Storage System	
Ø General	DDNS	
DDNS	DDNS	
🔮 Email	Server NO_IP V	
IP FILTER	Hostname	
Voice Assistant	User Password	
Platform Access	Test	

Allow List: It includes a range of IP addresses you define that indicates what IP addresses are allowed to access your NVR to prevent unauthorized IP addresses from logging into your NVR.

- 1. Tick the checkbox of Enable to activate the IP filter function.
- 2. Click on the ratio button of **Enable Allow List**.
- 3. Choose Allow List from Restricted Type.
- 4. If you want to add individual IP address into the allow list, click **Single IP Address** to input the IP address. If you want to add a block of IP addresses, click **IP Address Range** to input the start IP address and end IP address.
- 5. Click Save. Only IP address(es) from the Allow List can access your NVR now.

Block List: It includes a range of IP addresses you define that indicates what IP addresses are forbidden to access your NVR to prevent unauthorized IP addresses from logging into your NVR.

- 1. Tick the checkbox of Enable to activate the IP filter function.
- 2. Click on the ratio button of **Enable Block List**.
- 3. Choose **Block List** from **Restricted Type**.
- 4. If you want to add individual IP address into the allow list, click **Single IP Address** to input the IP address. If you want to add a block of IP addresses, click **IP Address Range** to input the start IP address and end IP address.
- 5. Click Save. IP address(es) from the Block List is forbidden to access your NVR now.



5.5.5 - Voice Assistant

The voice assistant function allows to connect your NVR to your GoogleCast or Amazon Fire TV Stick, and cast the real-time surveillance images on your TV monitor by voice control.

Setup Channel	Record Alarm Al	Network Storage System	
General	Amazon Google		
DDNS	User		The user here need to be the account of AWS.
🔮 Email	Bind		
IP FILTER			
Voice Assistant	Screen stream	Substream Y	
Platform Access			

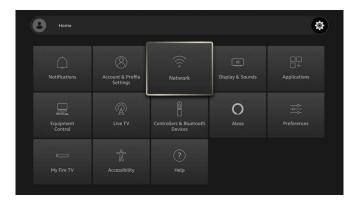
5.5.5.1 - Voice Assistant with Amazon Fire TV Stick

- 1. Input your Amazon account, and the click **Bind** button to bind your Amazon account. Then choose the video stream you want to cast on 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 on your TV monitor.

Amazon	Google			
	User	voicecast@++++++		The user here need to be the account of AWS.
Sci	reen stream	Substream		

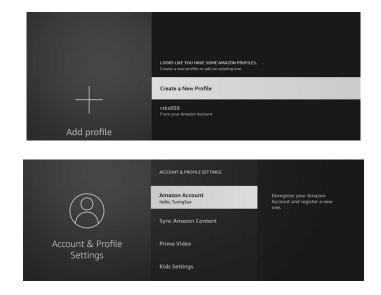
0	Setup	Channel	Record	Alarm Al	Network Sto	orage System
• c	hannel		Live			
● Li			Channel	Setup	Covert 🗸	Channel Name
🔶 In	nage Control		CH1	۲		98525
⊕ P	♦ PTZ		CH2			Camera
× •	12		CH3	۲		Camera
• V	ideo Cover		CH4			holiday

3. 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 NVR.





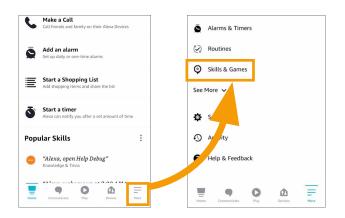
4. To use your existing profile or add a new profile and login your Amazon account which is same as the one you bind to the NVR.



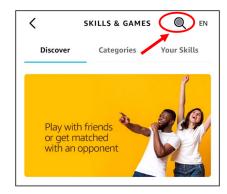
5. Search and install Amazon Alexa to your mobile phone from app store, and then login with the Amazon account which is same as the one you bind to the NVR.



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



7. Touch the search icon on the top right



corner.

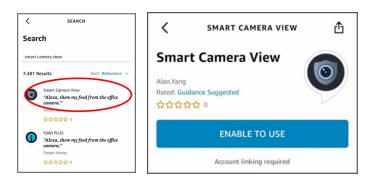


8. Input the keyword: smart camera view, and search.

<	SEARCH	
Search		
Keyword or skill name smart camera view		×

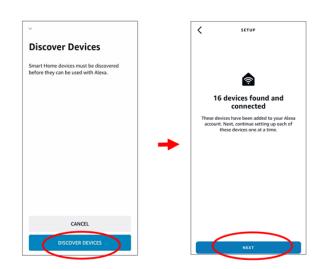
9. Touch the **Smart Camera View** app in the search result list. And then Touch **ENABLE TO USE**.

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



< Link Account	×	< Link Account X
Done a.account.amazon.com	C	Done 🔒 kills-store.amazon.com 🗚 🖒
amazon		amazon alexa
Sign-In Forgot pass	word?	
TTRE2HTHTIBIN com	× 🗕	
•••••	×	Smart Camera View has been
Show password		successfully linked. What to do next:
Keep me signed in. Details		→ Close this window to discover smart-home devices you can control with Alexa.
Sign-In		
By continuing, you agree to Amazon's Condition	ons of	

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



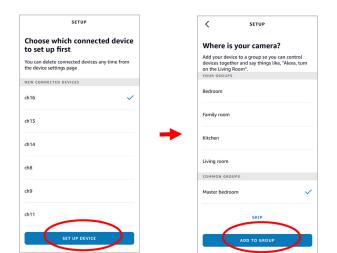


12. Choose one of the devices and then touch **SET UP DEVICE**. You can add the camera to a group or skip.

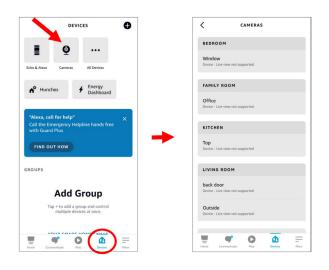
13. Repeat setup 12 to add all cameras and then touch **Done** to finish.

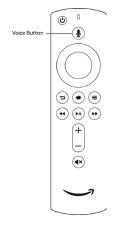
14. All added cameras will be listed in the Devices. Touch the **Cameras** icon to check all added cameras.

15. 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**.











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- 16. Wait for a while, you will see the real time images from the Office camera on your TV monitor.
- 17. If you want to quit the camera live view, speak **Stop**.
- 18. If you have changed the channel name, you would need to discover and add the camera again.





5.5.5.2 - Voice Assistant with Google Chromecast

- Input your Google account, and the click Bind button to connect to bind your Google account. To choose the video stream you want to cast on 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 on your TV monitor.
- Setup
 Channel
 Record
 Alarm
 Al
 Network
 Storage
 System

 General

 Amazon
 Google

 User

 DDNS

 User

 User

 UseI

 IP FILTER

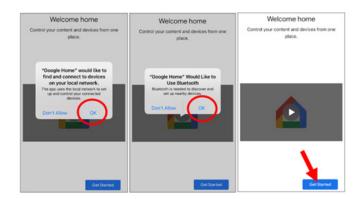
 Screen stream

 Substream

 v

🞯 Setup	Channel	Record	Alarm Al	Network Sto	orage System
Channel		Live			
• Live			Setup		Channel Name
Image Control		CH1	۲		98525
PTZ		CH2			Camera
♥ PIZ		CH3			Camera
Video Cover			۲		holiday

- 3. Connect the ChormeCast to your TV monitor, and power on it.
- 4. 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**.



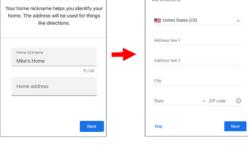


- 5. To login your Google account which is same as the one you bind to the NVR.
- 6. Touch **Get Started** to create a home, and then touch **New devices**.



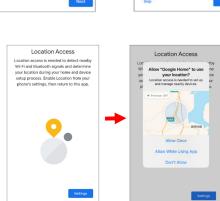
C Home address Your home address will be used for like directions.

Input the Home nickname and address and then touch **Next**.



Home nickname & address

To allow location access for the app.



- 7. 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**.
- Looking for devices
 What are you setting up?
 Device

 Chromosat/Coogle TV
 Camera
 Device

 Display
 Doorbell
 Doorbell

 Uight bulb
 Cack
 Plug

 Lock
 Plug
 Nate raw

 Nate raw
 Nate raw
 Material states the device is fully and on the second state of the device is fully fund on the second state of the
- Chromecast Ultra found Usipia you lie to set up Chromecast/Ultrad 2487
 Is this the code on your display?
 Help improve Chromecast Ultra

 Owner Unit in the point of the poin
- 8. Your Chromecast will be found. Touch **Next** to connect. Confirm the code by touching **Yes**.

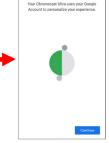


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9. Choose a location for your Chromecast, then touch Next.

- 10. 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 NVR. Touch Continue to next step.
- 11. Touch No Thanks, or Sign Up to login your google account.
- Connect to Wi-Fi Enter Wi-Fi Password Linking your Chromecast Ultra the Wi-Fi network you'd like with your Chromecast Ultra. Your Chromecast Ultra uses your Google Account to personalize your experience. 0 WR03-2 Wa HUAWEI-10 ÷ 🐔 MHS WR-01 WR0







Touch Next and Skip Tutorial, and then touch Finish Tutorial.

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



×

Add to home

😌 Set up

😫 Add p

Create

Videos J Music Podcasts

A Create new h

Add and manage

-

My Home -

Family Room

Þ 2) ÷\$.

Family Room TV









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



0

with your Google ac

× Smart carnera view

Done & 12cb8.firel

Q,

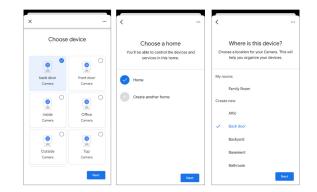
0

Sign in with your Google a

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 NVR will be displayed. Choose one of the cameras and then touch Next button. Choose a home & location for the cameras step by step. Repeat this step to add all cameras.



- 14. Search and install Google Assistant app to your mobile phone from app store.
- 15. Run the Google Assistant, login your google account which is same as the one you bind to the NVR.
- 16. 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.

	Play office carrier	a an Adda Th
	Play office carrier	a on mike in
OK, strea	aming Office on Mik	e TV.
G Sear		



5.5.6 - Platform Access

5.5.6.1 - ONVIF

🞯 Setup Channel Record Alarm Storage System RTMP General DDNS Server Enable ٢ Email Authentication Digest/WSSE ~ **IP FILTER** Protocol HTTP/HTTPS ~ Voice Assistant User Name ÷ Password

This function is mainly used to connect 3rd party platform, like ECMS/NVMS via Onvif protocol.

Enable: Check to enable this function.

Authentication: Login authentication type, options including Digest_sha256, Digest, Digest/WSSE, WSSE and None. Choose one of them to match to your 3rd party platform.

Protocol: Choose http, https or both of them.

User Name: To set a user name for platform connection.

Password: To set a password for platform connection.

I NOTE: Only images of Channel 1 will be displayed on the 3rd party platform.



5.5.6.2 - RTMP

The audio and video streams of the NVR channels can be pushed to the YouTube website by RTMP for live broadcasting. To use this function, you need to do the following: Register a YouTube account, create a live streaming studio, set the URL and live code of the live streaming studio, set the live server address bar for the device, and enable and configure the code stream type and live broadcasting channels. After saving the configuration, you can go to the YouTube live room to refresh the page to watch live broadcasting.

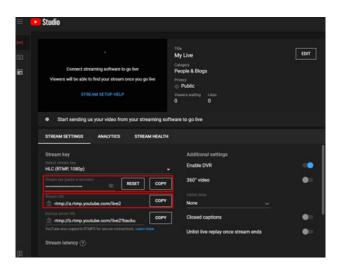
Enable: Used to set whether to enable the RTMP live broadcasting function.

Server Address: Enter the live broadcasting address and live code of the YouTube server. (Note: "/" is used between the live broadcasting address and live code of the YouTube server.)

Stream Type: Select the stream type of the live broadcasting channel. Both the main stream and substreams are supported.

Channel: Select the channel for live broadcasting. Only one channel can be selected.

i NOTE: To ensure the live broadcasting effect, it is recommended that the resolution of the stream not exceed 1920 × 1080. Live broadcasting can be conducted for only the data streams of H.264 video encoding format and G711A/U audio encoding format. A YouTube live code can be set for only one device and cannot be reused.



Onvif RTMP	
Enable	2
Server Address	rtmp://a.rtmp.youtube.com/live2/yw88-fhzu-jq0w-h5gh-6hru
Stream Type	Substream 🗸
Channel	IP Camera 1 2 61 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 51 52
	resolution is 1920x1060. emoding and G711AXU audio encoding is supported automatically change the video encoding to H.284 and the audio encoding to G711A when rtmp is enabled.



5.6 - Device

In this section, you can configure the storage devices, including the internal HDD storage and external NAS storage & cloud storage.

5.6.1 - HDD

This function gives you the option of formatting your NVR's hard drive, and it will be listed here for selection (if a new hard drive has been installed inside your NVR, you need to format the drive before it can be used).

Setup	Channel	Record	Alarm Al	Network Storage	System						O 2022-10-31	X 06 96 01
												Free/Total
			HOD1	WD-WCC4M1EYR7ZZ		WDC WD20PURK-64PFUY0	80.00A80	Row	Group1	FULL	06/1863G	06/29840
				WD-WCC4M1EYR2YF		WDC WD20PURX-64PFUY0	80.00A80		Group1			06/29840
						TOSHIBA DT01ABA300V	M260A880					38Hour/363
				WD-WX22081P803V		WDC WD22EJRX-898EMY0	80.00A80			Normal		16Hour(298
				natie V								
		_ ▲ •										Apply

Format HDD: Click the checkbox to select the hard drive then click this button to format. You have three options to select from:

- Format the entire hard disk. All data will be erased: As stated, all data including events, log files and analytic information will be erased.
- Only format the record partition. All record data will be erased: Only data such as videos, snapshots and log files will be erased. All analytic information will be kept.
- Only format the general partition. All AI related data may be erased: Only analytic information will be erased. Videos, snapshots and log files will be kept on the hard drive.

Select the relevant option, then click **OK**. Input your password, then click **Authenticate**. A message will appear noting the data that will be erased. Click **OK** to continue.

Overwrite: This instructs your NVR to overwrite the oldest video files as the hard drive becomes full. You also have the option of selecting the amount of days for recordings to be kept before they are overwritten. For example, if you choose the option 7 days then only the last 7 days' recordings are kept on the HDD. To prevent overwriting any old recordings, select **OFF**. If you have set Off on this feature, please check the HDD status regularly to make sure the HDD is not full. Recording will be stopped if HDD is full. We recommended leaving the **Auto** selection as this prevents your NVR from running out of storage space.



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

Add NAS HDD: To add your NAS disk.

Mounting Type: To choose the mounting type from NFS and SMB/CIFS. You would need to input the account name and password of NAS if you choose SMB/CIFS.

Server IP: IP the IP address of NAS storage.

Directory Name: Input the directory name on which you want to save your recording data.

Disk Size: To set the capacity size of the NAS storage.

Test: Click to test the connection of NAS storage.

Add NAS HDD: Click to add NAS storage.

If your NVR supports to install multiple hard disks and more than 1 hard disk is installed in your NVR, the edit button is will be appear in your system, you can click it to edit the HDD as below:

Disk Type: You can set the hard disk to be Read Write, Read Only, or Redundant.

Read Write mode is the normal status for an HDD to save recordings or search recordings to play. If all the installed hard disks are set to Read Write mode, the NVR will save recordings to the hard disks sequentially.

To prevent important video data from being overwritten during cyclic recording, the hard drive

disk can be set as **Read Only** mode. New recordings will be not able to save into this read only disk. You can still search recording from this read only disk to play.

Redundant hard disk can be used to save the recordings same as what is saved to Read Write hard disk(s). When a redundant disk is set, the system can save recording in parallel to both the Read Write hard disk and the redundant hard disk in case of hard disk failure.

I NOTE:

- 1. Redundant disk supports to save mainstream recording only.
 - 2. If the disk type has been changed, the hard disks might be unmounted and offline. Please wait a while till the hard disks get mounted again.

Disk Group: You can set the disks into different disk group for recording. See more on 5.6.1.1 Disk Group.

		Add N	NetHDD		×
Mounting type	NFS		~		
Server IP	000.000.000	0.000			
Directory Name					
Disk size				GB	
		×			
		Test	Add NetHDD		

HDD ID:	Disk 1
Disk Type	Read Write Disk
Disk Group	Record Disk Group 1



5.6.1.1 - Disk Group

If your NVR supports to install multiple hard disks and more than 1 hard disk is installed in your NVR, you will see this menu. With Disk Group function, you can assign different cameras to be recorded into different groups in order to reduce the loading on a single hard disk and extend the life of hard disk.

- 1. On the Disk list page, click on the edit button of the hard disk you want to configure, and then select its Disk Type and Disk Group.
- 2. Go back to Disk Group page, choose a Disk Group Type. If all the hard disks are set as Read Write mode, only Record Disk Group available to choose here. If one or more hard disks are set as Redundant mode, Redundant Disk Group will be available to choose here.

Disk Disk Gro	up	S.M	A.R	.T												
Disk Group Type	Record	Disk	Gro	oup												
Disk Group F	Record	Disk	Gro	oup 1												
Record Channel																
IP Camera	1	2	3		5	6	7	8	9	10	11	12	13	14	15	16
IP Camera	1 17	2 18		1.0		1.00	1.0	1.0	1.00	10 26	1.0.0	11000	13	14	15	16

- 3. Choose the Disk Group.
- 4. Select the Record Channel. It indicates which camera(s) will be recorded and saved into the hard disk(s) in the selected group. Maximum 16 cameras can be recorded in a group.
- 5. Click **Apply** to save your settings.

5.6.1.2 - S.M.A.R.T

This function is used to display technical information on the hard drive installed inside your NVR. You can

also perform a test (there are three types available) to evaluate and detect potential drive errors.

Disk Disk Gr	SMART							
HDD ID:	Z5288EAG	~	Self-check Type	Short k			~	
Self-check State: TEMP(*C):	Not detected 36		Utility Time(d):	20				
Whole Evaluation	hole Evaluation: PASSED			Check				
S.M.A.R.T. Info) :							
	Attribute Name	Status	Flags	Value	Worst	Threshold	Raw Value	
0x1	Raw Read Error Rate	ок		120	99	6	237608016	
0x3	Spin Up Time	ок		96	95			

Self-check Type: There are three types available:

- Short: This test verifies major components of the hard drive such as read/ write heads, electronics and internal memory.
- Long: This is a longer test that verifies the above as well as performing a surface scan to reveal problematic areas (if any) and forces bad sector relocation.
- Conveyance: This is a very quick test that verifies the mechanical parts of the hard drive are working.

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



5.6.2 - Cloud Storage

Your NVR can copy snapshots and video recordings to the cloud via Dropbox[™] or Google Drive[™] which is a service that allows you to store and share snapshots and video recordings and always have them on hand when needed.

Setup Channel	Record Alarm Al	Network Storage System		
Disk	Cloud			
• Cloud	Cloud Storage	N		Activate Cloud X
♦ FTP	Cloud Type	DROPBOX	 Activate Cloud 	
	Cloud Status			
	Capacity	0%	0.00B/0.00B	The activation mail has been sent successfully, please check email: @gmail.com and activate the cloud through the
	Cloud Overwrite	Auto	~	email: @gmail.com and activate the cloud through the link in about 3 minutes
	Video Type	MP4	¥	
	Channel	Folder Name		ОК
		CH1		
	CH2	CH2		

Cloud Type: To choose Dropbox or Google Drive.

Cloud Status: This will change to Activated when active.

Capacity: When activated, this will display how much free space you have on your cloud storage.

Cloud Overwrite: This instructs your NVR to overwrite the oldest video files as the cloud storage becomes full. You also have the option of selecting the amount of days for recordings to be kept before they are overwritten. For example, if you choose the option 7 days then only the last 7 days' recordings are kept on the cloud storage. To prevent overwriting any old recordings, select OFF. If you have set Off on this feature, please check the storage status regularly to make sure the space is not full. Pictures or recordings will be stopped to upload if the space is full. We recommended leaving the Auto selection as this prevents the cloud storage from running out of storage space.

Video Type: To choose the video format you want to upload.

Folder Name: To create a folder for each camera for saving its uploading files.

5.6.2.1 - Dropbox Settings

- 1. Before activation, we recommend that you create a Dropbox account first. Go to www.dropbox. com, input your name, email address, and password, agree to the terms & conditions, then click or tap the sign up button. If you already have a Dropbox account, you can skip this step.
- 2. Click the Activate Cloud button, the system will send an activation letter to your receiver email box which you have set in the Email Setup page.
- 3. Login your email box and click the link in the email content. It will turn to the cloud server authorization login page. Input your Dropbox account name and password to login.

Sign in to Dropbox to associate"DVRCloudStorage"
G Sign in with your Google Account
Sign in with your Apple account
or
email
password
forget your password?

151



EN

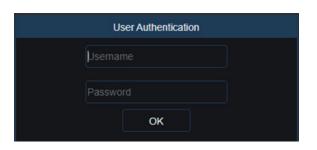
4. Input the DVR local IP address and web port, and then click Authorize.

5. Input the DVR user name and password and then click OK.

- 6. Authorization finished; the webpage will turn to your Dropbox.
- The Cloud has completed the setup if you find a new folder named by your NVR device name and MAC address in the Dropbox storage. Your alarm pictures and videos will be upload to this folder.

Authorization succeeded!ReturnDropbo It will automatically jump in 1 seconds!

Dropbo	x					
upl	oad - + create - ···					
nam	ie ↑					
	Firmware					
	IP CAMERA					
	Manual					
	NVK 1616P-88-0F-19-B2-B6-87					
	SDK					



WORK SECUC	in of the device se	ungs.	
	IP Address Port	172.16.3.90	
		Authorize	

Dropbox needs to be activated for this device. Please make sure the PC is on the same network as the device and enter the local IP address of the device below. The IP address can be found in the



5.6.2.2 - Google Drive Settings

- Before activation, we recommend that you create a Google Drive account first. Go to https://www.google.com/drive, input your name, email address, and password, agree to the terms & conditions, then click or tap the sign up button. If you already have a Google Drive account, you can skip this step.
- 2. Click the Activate Cloud button, the system will send an activation letter to your receiver email box which you have set in the Email Setup page.



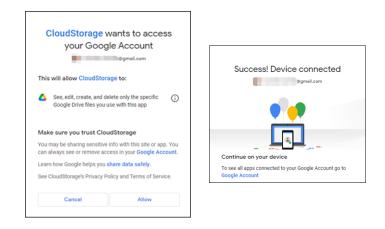
3. On the email, you will find an activation code and a link illustrated as below. Click the link and then enter the activation code you received on the webpage, and then click **Next**.

Google	
Connect a device Enter the code displayed on your device	Your activation code is: DSTY-HKWG
Enter code DSTY-HKWG	Click the following link to enter your code https://www.google.com/device
Next	L

4. Enter your Google account and password to login your Google Drive.



5. Click **Allow**, the settings of your Google Drive cloud have completed now.





5.6.3 - FTP Settings

This menu allows to configure your FTP settings for uploading captured snapshots or videos to your FTP server.

Setup Channel	Record Alarm Al Netw	vork Storage System	
Disk	FTP FTP Schedule		
0 Cloud	FTP Enable	V	
• FTP	Server IP	172.20.50.2	Test FTP
	Port	00021	
	User Name	admin	
	Password	•••••	
	Picture Quality	Higher	~
	Video Stream Type	Substream	¥
	Max Package Interval	30 Min	~
	Directory Name	N7816HR	
	Upload Alarm Video	Motion PIR Alarm Setting	13

FTP Enable: Tick the checkbox to enable FTP function.

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

Port: Enter the FTP port for file exchanges.

User Name/ Password: Enter the user name and password of FTP server.

Picture Resolution: To choose the resolution of snapshots that you want to upload. Maximum resolution is 1920x1080.

Picture Quality: Choose the image quality of snapshots that you want to upload.

Video Stream Type: Choose mainstream or substream video you want to upload.

Max. Package Interval: Set the maximum time duration of each single video you want to upload.

Directory Name: Enter the directory name on your FTP server to save the uploaded pictures and videos.

To make sure all settings are correct, click **Test FTP**. The system sends an automated file to your ftp server. If you received a message shown "Write to file succeeded!", it means the configuration parameters are correct.



5.6.3.1 - FTP Schedule

If FTP upload is enabled on your NVR, alarm images or videos would be uploaded 24 hours as default. You can change the schedule when your NVR to upload the alarm images or videos. For example, you may only want to receive alarm images or videos during the day but not in the evening. An alternative schedule can be created for each camera.



- 1. Select a channel you want to set the schedule.
- 2. Click on ratio button of the alarm type that you want to upload for:
- Motion: Upload for motion detection alarm images or videos
- IO: Upload for I/O triggered alarm images or videos
- PIR: Upload for PIR detection alarm images or videos
- Intelligent & AI: Upload for Intelligent or AI detection alarm images or videos
- 3. Using the mouse, click on a square to change or click and drag the mouse over the squares corresponding to your desired period
- 4. Repeat step 2 & 3 to set the schedule for other alarm type.
- 5. The set schedule is valid only for one channel. If you want to use the same recording schedule for other channels, use **Copy** function.
- 6. Click **Apply** to save your settings.



5.7 - System Configuration

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

Setup Channel	Record Alarm Al Network S	Storage System	
• General	General Date and Time DST	Output Configuration HDMI2	
Multi-User	Device Name	N7032	
Maintenance	Device ID	000000	
IP Camera Maintain	Language	ENGLISH Y	
Information	Video Format	NTSC Y	
• information	Menu Timeouts	OFF Y	
	Web Session Timeout (min)	1440	Preview Session Timeout
	Show wizard		

5.7.1 - General Settings

Change general system information such as language, date & time, display settings, and more.

5.7.1.1 - General

Setup Channel	Record Alarm Al Network S	Storage System	
• General	General Date and Time DST	Output Configuration HDMI2	
Multi-User	Device Name	N7032	
Maintenance	Device ID	000000	
IP Camera Maintain	Language	ENGLISH 🗸	
Information	Video Format	NTSC 🗸	
 Information 	Menu Timeouts	OFF 🗸	
	Web Session Timeout (min)	1440	Preview Session Timeout
	Show wizard		

Device Name: To rename your NVR(if required). The name can include both letters and digital numbers.

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



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

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

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

Web Session Timeouts: Enter the time (in minutes) your NVR will exit web access when idle in the setting page. Adjustable time can be set from 5 minutes to 1,440 minutes. If you tick on the checkbox of "Preview Session Timeouts", the web access will be exited also when idle in the live view page.

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

5.7.1.2 - Date & Time

Date & Time

Date: Click the calendar icon to change the date.

Time: Click the dialogue box to change the time.

Date Format: Select the preferred date format.

Time Format: Select the preferred time format.

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

Setup Channel	Record Alarm Al Network	Storage System
	General Date and Time DST	Cutput Configuration HDMI2
Multi-User	 Static 	○ NTP
Maintenance	Date	10/27/2022
IP Camera Maintain	Time	05:59:05
Information	Date Format	MM/DD/YYYY V
 Internation 	Time Format	24Hour 🗸
	Time Zone	GMT 🗸

NTP Settings

The NTP (Network Time Protocol) function gives your NVR the ability to automatically sync its clock with a time server. This ensures that the date and time are accurate and ensures correct time stamping when events occur.

Tick the checkbox of **Enable NTP**, and select a **Server Address**, click **Update Now** to manually sync the date & time. When NTP function is enabled, system will update the system time at 00:07:50 per day or every time when the system is starting up. Click **Apply** to save your settings.

O Static	NTP	
Date	2023-02-28	i
Time	15:20:02	
Date Format	YYYY-MM-DD	~
Time Format	24Hour	~
Time Zone	GMT+08:00	~
Server Address	pool.ntp.org	~
	Update Nov	N



5.7.1.3 - DST

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

T Settings							
Enable DST	~						
Time Offset	1Hour	~					
DST Mode	Week	~					
Start Time	Mar.	~	The 2nd	~	Sun.	~	02:00:00
End Time	Nov.	~	The 1st	~	Sun.	~	02:00:00

Enable DST: If Daylight Saving applies to your time zone or region, click the drop-down menu to enable it.

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

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

- Week: Select the month, a particular day, and time when Daylight Saving starts and ends. For example, 2 a.m. on the first Sunday of a particular month.
- Date: Select the start date (click the calendar icon 🗎), end date, and time when Daylight Saving starts and ends.

5.7.1.4 - Output Configuration

This menu allows you to configure video output parameters.

General Date and Time	DST Output Configuration	HDMI2	
Video Output	LIVE-OUT	~	
Seq Mode	Layout1	~	
SEQ Dwell Time			
Output Resolution	4K(3840x2160)	~	Automatic recognition
Scale And Offset	Setup		
Cursor Hidden Delay	5s	~	
Cursor Acceleration	•		
Transparency	•		



Video Output: Leave the default selection.

SEQ Mode: Select how many video channels you would like to display at a time when your NVR is in sequence mode.

SEQ Dwell Time: Enter in seconds the maximum length of time you would like to display a video channel(s) in sequence mode before displaying the next video channel(s) (300 seconds is the maximum).

VGA/HDMI Resolution: Set the VGA/HDMI output resolution. Check Auto Recognition will automatically set the resolution compatible with the monitor you connected when the DVR boots. The system will suggest to modify the resolution if it detects a higher resolution available each time when the system starts.

Scale and Offset: To set the image scale and offset. Click **Setup** button to configure.

Scale: To adjust the size of the display window.

X Offset: To move the display window towards left or right.

Y Offset: To move the display window towards up or down.

Tick on ratio button of which you want to set, and then click or long press the *<* or *>* button, or using scroll wheel of your mouse to adjust accordingly.

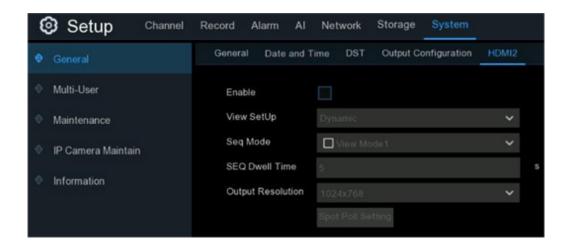
Cursor Hidden Delay: Click the drop-down menu to select the time your NVR will hide the mouse cursor when idle. You can also disable this by selecting **OFF**.

Cursor Acceleration: Adjust the moving speed of the mouse cursor.

Transparency: Click and hold the slider left or right to change how transparent the Menu Bar and Main Menu will appear on-screen. Adjust accordingly.

5.7.1.5 - HDMI2

You can set the display output parameters of the secondary screen (only supported by some devices).



		Notice		×
Mo	nitor supports 4k	resolution?	o you want to change th Cancel	ie
	 Scale 	• X Offset	• Y Offset	
	<	100%	•	



Enable: Used to set whether to enable the secondary screen display.

View SetUP: View setting, including two options: Static and Dynamic. If Dynamic is selected, images are previewed on the secondary screen in a sequential manner.

SEQ Mode: Select the number of video channels to be displayed when the NVR is in HD 2 SEQ mode.

SEQ Dwell Time: Used to set the SEQ dwell time on the secondary screen in seconds.

Output Resolution: Select the display resolution suitable for the secondary screen.

Spot Poll setting: Select the channels for sequential display on the secondary screen in dynamic mode.

5.7.2 - Users

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

Enable DST	✓						
Time Offset	1Hour	~					
DST Mode	Week	~					
Start Time	Mar.	~	The 2nd	~	Sun.	~	02:00:00
End Time	Nov.	~	The 1st	~	Sun,	~	02:00:00

The system supports the following account types:

ADMIN: System administrator has full control of the system, and can change the password of both administrator and users and enable/disable password protection.

USER: Normal users only have access to live viewing, search, playback, and other functions. You may set up multiple user accounts with varying levels of access to the system.

Default User: Select the default user to login the system when the system starts. Admin is the default user account. If multiple user accounts have been created, click the drop-down menu to turn this off.

5.7.2.1 - Edit Users

You're able to edit the user's password, to enable or disable a user, set the limitation of remote access.

Multi-User					
	User Name	Level	User Enable	User Edit	Permission
	admin	ADMIN	Enable	P	
2	user1	USER1	Disable	P	۲
	user2	USER2	Disable		۲
	user3	USER3	Disable		
	user4	USER4	Disable		۲



- 2. For the Admin, you can proceed:
 - To change **password**: The password must be a combination of 8 to 16 characters, which is combined with at least 2 kinds of different characters from uppercase letters, lowercase letters, digit numbers and special symbols. Enter your new password again to confirm, and then click **Save** to save your new password. You will be required to input your old password to authenticate.
 - To enable or disable **Unlock Pattern**: if this is enabled, you can draw your pattern and save. You can unlock the NVR by drawing the pattern when you login the system next time.
 - To set the Limitation of Remote Access: this will limit the maximum number of remote accesses with this user account at the same time. Remote accesses include but not limited to webpage, CMS/VMS, mobile app, 3rd party platform.
- 3. For a normal user, you can proceed:
 - To enable or disable this user.
 - To give a user name and password to the user.
 - To set the Limitation of Remote Access. This will limit the maximum number of remote accesses with this user account at the same time. Remote accesses include but not limited to webpage, CMS/VMS, mobile app, 3rd party platform.

5.7.2.2 - Edit User Permissions

The administrator account is the only account that has full control of all system functions. You can enable

or disable access to certain menus and functions of each user account.

1. Click the Permission button of the user you want to configure.

r Edit		×
	📝 Draw	
		Default Save



	User Edit				×
Level	USER1				
User Enable	Enable				
User Name	usert				
Password Strength					
Password					
Confirm					
Limitation of Remote Access					
		Defa	uit .		

ti-User					
	User Name	Level	User Enable	User Edit	Permission
	admin	ADMIN	Enable	P	
2	user1	USER1	Disable	Ð	۲
	user2	USER2	Disable		۲
	user3	USER3	Disable		۲
	user4	USER4	Disable		۲



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

k Pa Mar al Capture Mar 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 Live 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 P
 1
 2
 3
 4
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 6
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5.7.3 - Maintenance

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

Multi-User	Start Date 2023-0	3-01	🗎 Start Tim	00.00.00			
	End Date 2023-0	3-01	End Time	23.59.59			
IP Camera Maintain	Log Type All				Search		
							Playback
Information	онз	Alarm	2023-03-01 00:00:04	Motion Start		Yes	
		Alarm		Motion End			
	00	Alarm	2023-03-01 00:00:31	Motion End		Yes	
		Alarm		Motion Start			
	CH23	Alarm	2023-03-01 00:00.42	Motion Start			
		Alarm	2023-03-01 00:01:40	Motion End			
		Alarm	2023-03-01 00:01:50	Motion Start			
		Alarm	2023-03-01 00:01:58	Motion End			
	0153	Alarm	2023-03-01 00:02:01	Motion Start			
		Alarm		Motion End			
	043	Alarm	2023-03-01 00:02:41	Motion Start		Yes	
		Alarm	2023-03-01 00:02:43	Motion End			D
	CH23	Alarm	2023-03-01 00:02:58	Motion Start			
		Alarm		Motion End			

5.7.3.1 - System Log

All actions and events that your NVR performs and detects are logged. These log files can be searched, viewed and copied to a USB flash drive for safekeeping.

art Date 07/03		1 Start Time				
d Date 07/0:		End Time	23.59.59			
g Type All	2			3 Search		
Channel	Туре	TIME	CON.	Access Source	RECORD	Playback
	Configuration	07/03/2022 09:04:57	Channel Add	Local		
	Configuration	07/03/2022 09 04:57	Display Settings	Local		
	Alarm	07/03/2022 09:04:59	Motion Start			
CH6	Alarm	07/03/2022 09 05 02	Motion Start		No	
CH2	Alarm	07/03/2022 09:05:03	Motion Start			
CH4	Alarm	07/03/2022 09 05 04	PIR Start		No	
CH10	Alarm	07/03/2022 09:05:07	Motion Start	<u>, N</u>	No	
CH7	Alarm	07/03/2022 09 05 16	Motion Start		Yes	4
CH8	Alarm	07/03/2022 09:05:17	Motion Start		Yes	•
	Configuration	07/03/2022 09:05:18	Video Settings	Local		
CH8	Alarm	07/03/2022 09:06:08	Motion End		Yes	
CH10	Alarm	07/03/2022 09:06:47	Motion End		Yes	D
CH10	Alarm	07/03/2022 09:06:52	Motion Start		Yes	D
CH2	Alarm	07/03/2022 09:07:19	Motion End		Yes	
					5	I< < 1 /64 >
						Backup



- 1 **Start/End Date & Start/End Time:** Click the calendar icon to select the month, year and date that you would like to search on. Click the dialogue box to enter a specific start and end time.
- 2 **Log Type:** Leave the default selection or click the drop-down menu to select a specific action that you would like to search for.
- 3 **Search:** Click this to display a list of log files that match your search criteria. Double-click a file to display information about that log.
- 4 **Playback:** Click play button 🗉 to play the video segment of the event.
- 5 Click the arrow buttons to turn the page of the search list.
- 6 **Backup:** Insert a USB flash drive into your NVR, then click this to copy the log files that match your search criteria.

5.7.3.2 - Load Default

Reset the NVR settings to its out-of-box state. You can choose to reset all settings at once, or just settings

on specific menus. Restoring default settings will not delete recordings and snapshots saved to the hard drive.

Tick the checkbox of the item(s) you want restore,

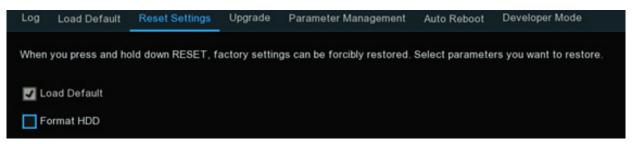
or check Select All to choose all items.

Click **Apply** to load default settings of your chosen items.

Log	Load Default	Reset Settings	Upgrade	Parameter Management	Auto Reboot	Developer Mode
	Select All					
•	Channel					
	Record					
	Alarm					
	Network					
	Device					
	System					

5.7.3.3 - Reset Settings

If your NVR comes with a reset button on the rear panel, you will see this menu.



By default, when you press and hold 10 seconds on the reset button with a small pin till the NVR beeps, the NVR will restore default settings. You can tick the checkbox to format HDD if needed.



5.7.3.4 - System Upgrade

You can upgrade the firmware by USB flash drive or online.



5.7.3.4.1 - Upgrade by USB Flash Drive

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

5.7.3.4.2 - Online Upgrade

The device supports over-the-air upgrade. To use this function, you need to set up the upgrade server in

advance, create a directory for storing files on the server, and upload the upgrade firmware.

Username: Used to set the server user name. If the server is not configured with any user, the parameter value can be null.

Password: Used to set the server password. If the server is not configured with any password, the parameter value can be null.

Server Address: Used to set the server address. You need to set the upgrade address to the directory for storing the upgrade files.

Online Upgrade		
User Name	admin	
Password	•••••	
Server Address	ftp://172.20.53.3/XXX	
Server Address example:		
protocol://hostname[:port]/path		
ftp://192.168.1.100:23/device/upgradePackage		
http(s)://192.168.1.100:80/device/upgradePackage		
Automatic Detection		
Detect	Upgrade	

Automatic Detection: If this option is selected, the device will periodically check and upgrade the firmware on the server at startup and during operation. If there is upgradeable firmware, a prompt message will pop up.

Detect: Click this button to manually detect whether the server has upgradeable firmware.

Upgrade: When it is detected that the server has upgradeable firmware, this button is available. You can click it to confirm the upgrade operation on the device.

	Upg	rade	
There is a newer fir		o upgrade, would; w?	you like to upgrade
	Yes	No	



You can export the system settings to a USB flash drive, or import a system setting file from USB flash

drive to the NVR.

Save Settings: Click this button to **export** a configuration file containing all the settings that you have customized.

Load Settings: Click this button to **import** a configuration file containing all the settings that you have customized.

5.7.3.6 - Auto Reboot

This menu allows the system to auto reboot the NVR regularly. It is recommended to leave this function

enabled, as it maintains the operational integrity of your NVR.

Auto Reboot: Tick to enable.

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

5.7.3.7 - Developer Mode

This is an advantage feature on some certain models, which is used to acquire debug log for authorized

professionals when you report a defective complaint.

Telnet: This is used for an authorized technician to connect to your NVR remotely. Please keep it disabled unless you're required by an authorized technician.

Debug Log: It is used for authorized professionals to learn the system running status

- **Disabled:** Debug log won't be saved.
- Output to Terminal: Debug log will be outputted to terminal port.
- Output to Disk: Debug log will be saved to hard disk drive.

Export Debug Log: Export the debug log file from hard disk drive to your USB flash drive.

Delete Debug Log: Delete the debug file from the hard disk drive.

	Load Default	Reset Settings	Upgrade	Parameter Management	Auto Reboot	Developer Mode
Te	Inet					
De	bug Log	Output to Te	rminal 🗸			
	Export Debug Lo		elete Debug L	og		







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5.7.4 - IP Camera Maintain

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

General	Upgrade Load Default						
Multi-User							
Maintenance		011	172.20.53.9	On-Ine	V95 45 8 2 3,220827		
P Camera Mantain							
			172 20 53 23	On-line			
Information							
				On-line	V21.45.8.2.3,221019		
		CH7	172 20 53 29	On line	V31.35.8.2.3_221019		
				On-line			
	Automatic De	faction					

5.7.4.1 - Upgrade IP Camera

Upgrade Load Defau	II Reboot IPC	Parameter Management	Format IPC		
	Channel	IP Address	State	Software Version	Upgrade
					Opgrade
	CH1	10.10.25.151	On-line	V21.45.7.0_210309	
	CH2	10.10.25.152	On-line	V10.35.7.0_210412	
	CH3	10.10.25.153	On-line	V14.45.5.0_200529	
	CH4	10.10.25.154	On-line	V6.21.5.2_210309	
	CHIS	10.10.25.156	On-line	V31.35.7.1_210810	
		10.10.25.157	On-line	V21.45.8.2.2_220416	
	CHIB	10.10.25.158	On-line	V31.35.8.2.2_220301	
		10.10.25.160	On-line	V4.1.3.6_171027	
Select File				4 Þ	IPC Uncrate
Celectrie					
Automatic D	Detection				
Detect					

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

For some certain IP cameras which support online upgrade, you can tick **Automatic Detection** if you want to automatically check the upgrade file from server at regular intervals.

Click **Detect** button to check if new firmware is available instantly. If new firmware is available, follow the on-screen instructions.



5.7.4.2 - Load Default Settings of IP Camera

- 1. Choose the IP camera(s) you want to restore.
- Click Load Default to restore settings. You will be required to input the Admin's password to authenticate.

	Load Default					
	× .					
	~		10.10.25.151	On-line	V21.45.7.0_210309	
	≤					
				On-line	V14.45.5.0_200529	
		CH5	10.10.25.155	On-line	V6.21.5.0_200617	
			10.10.25.157	On-line	V21.45.8.2.2_220416	
		CH10	10.10.25.160	On-line	V4.1.3.6_171027	
Load	Default					
2000	Deruen					

5.7.4.3 - Reboot IP Camera

In case of any issues, choose the camera(s) and then click **Reboot IPC** button to reboot selected camera(s).

Upgrade	Load Default	Reboot IPC	Parameter Management	Format IPC		
		*				
	~			On-line	V21.45.7.0_210309	
	~					
				On-line	V14.45.5.0_200529	
				On-line	V6.21.5.0_200617	
				On-line		
Reb	oot IPC					

5.7.4.4 - Parameter Management

Select the camera(s), and then click **Save Settings** to export the configuration file containing all the settings that you have customized to your USB flash drive.

Load Settings: Click this button to import a configuration file containing all the settings that you have customized and apply to the selected camera(s).

Save	Settings	Load Settings			
		CH8	10.10.25.158	On-line	V31.35.8.2.2_22030
		CH6	10.10.25.156	On-line	V31.35.7.1_210810
		СНЗ	10 10 25 153	On-line	V14.45.5.0_200529
	2		10.10.25.152	On-line	
	~	CH1	10.10.25.151	On-line	V21.45.7.0_210309
					Software Version
			*		

5.7.4.5 - Format IP Camera

To format the SD card installed on the supported IP camera.

Select the camera, and then click **Format** to format its SD card.



5.7.5 - System Information

In the System Information menu, you can view the system information, channel information, record information & network status.

Setup Channel	Record Alarm Al Network	Storage System	
General	Information Channel Information	Record Info Network State	
Multi-User	Device ID	000000	
Maintenance	Device Name	N7032	
IP Camera Maintain	Device Type	N7032-8HDD	
Information	Hardware Version	DM-470	1. A.
· ·····	Software Version	V8.2.3.2-20230114	2
	IE Client Version	V1.3.1.69	高級
	Video Format	NTSC	
	HDD Volume		
	IP Address	172.20.53.43	
	IPv6 Address	fe80: 223.63ff.fe9e.7ce5 / 64	
	Http:Https/RTSP	80,80	
	Client	9000,9000	
	MAC Address	and the second second	
	Network State	Connected	
	P2P ID		
	P2PID		

5.7.5.1 - System Information

This tab displays technical information about your NVR, such as hardware/software version, IP address, network ports, MAC address, etc.

Setup Channel	Record Alarm Al Network	Storage System	
General	Information Channel Information	Record Info Network State	
Multi-User	Device ID	000000	
Maintenance	Device Name	N7032	
IP Camera Maintain	Device Type	N7032-8HDD	
Information	Hardware Version	DM-470	1.00
• Enormation	Software Version	V8.2.3.2-20230114	10
	IE Client Version	V1.3.1.69	
	Video Format	NTSC LIST 21	See al
	HDD Volume		
	IP Address	172.20.53.43	
	IPv6 Address	fe80:::223:63ff:fe9e:7ce5 / 64	
	Http/Https/RTSP	80,80	
	Client	9000,9000	
	MAC Address		
	Network State	Connected	
	P2P ID		

If your NVR supports P2P function, you will find the P2P ID & P2P QR code in the information page. You can scan this QR code with mobile app to remote view the NVR.



5.7.5.2 - Channel Information

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

nformation	Channel Inform	ation Record	Info Network State				
			Mainstream	Substream	Mobilestream		Privacy Zone
CH1	CH1	On-line	2592x1944, 30Fps, 4Mbps	1280x 720, 20Fps, 1024Kbps	640x 480, 10Fps, 512Kbps	Support	Support
		On-line	1920x1080, 25Fps, 4Mbps	1280x 720, 20Fps, 1024Kbps	640x 480, 25Fps, 512Kbps	Support	Support
СНЗ	СНЗ	On-line	3840x2160, 15Fps, 4Mbps	1280x 720, 10Fps, 1.5Mbps	Nonsupport	Support	Support
		On-line	2592x1944, 15Fps, 4Mbps	640x 480, 15Fps, 2Mbps	Nonsupport	Support	Support

5.7.5.3 - Record Information

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

Information	Channel Informa	ation Record In	fo Network S	tate		
Channel	Record State	Record Switch	Stream Type	Resolution	FPS	Bitrate
CH1	ON	Enable	DualStream	2592x1944 1280x720	30Fps 20Fps	4Mbps 1024Kbps
CH2	ON	Enable	DualStream	1920x1080 1280x720	25Fps 20Fps	4Mbps 1024Kbps
СНЗ	ON	Enable	DualStream	3840x2160 1280x720	15Fps 10Fps	4Mbps 1.5Mbps
CH4	ON	Enable	DualStream	2592x1944 640x480	15Fps 15Fps	4Mbps 2Mbps

5.7.5.4 - Network State

Displays the network settings used by your NVR.

Total Bandwidth: Total input bandwidth available for the NVR.

Used Bandwidth: Used input bandwidth.

Information	Channel Information	Record	Info	Network State				
	Attribute			Value				
WAN								
IP .	Address	192.168.5.110						
Su	Subnet Mask			255.255.255.0				
Ga	iteway			192.168.5.1				
MA	AC Address			00-23-63-91-5B-FC				
IPv	/6 Address			e80::223:63ff:fe91:5bfc / 64				
IPv	/6 Gateway			fe80::/64				
DH	ICP	Disable						
Internal In	terface	Connected						
IP .	IP Address			10.10.25.100				
Su	bnet Mask	255.255.0.0						
DNS1				172.18.1.222				
DNS2				8.8.8				
PPPoE				Disable				
Port								
Htt	tp/Https/RTSP		1	3180,13180,Inactive,Disable				
Cli	ent		1	3181,13181,Inactive,Disable				
Total Ban	d Width:	256Mbps						
Used Ban	d Width:	58.488Mbps						



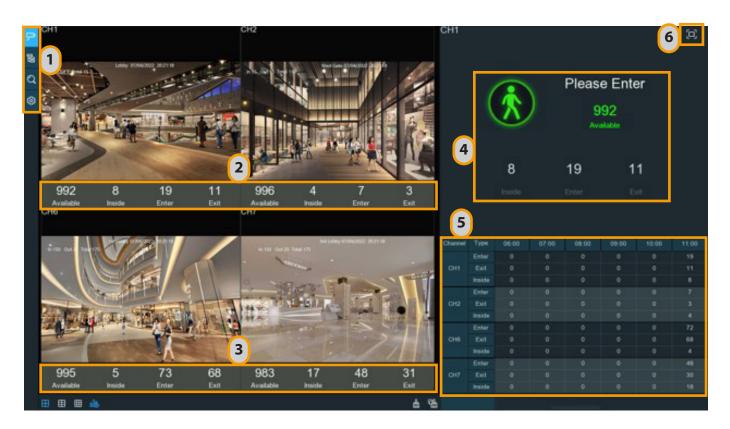
6 - AI SCENARIO

Al Scenario function provides Al applications for different specific scenarios. Click the submenu title in the main setup page to get into the individual function setup page.



6.1 - Cross Counting

This is an AI application based on cross counting function, which helps to control the attendance number of customers/visitors/vehicles in public places, like restaurants, parks, zoos, theaters, museums, car parks, etc.





6.1.1 - Real-Time Display & Controls

1 – Navigation Bar

Button	Function
P	Channel View Mode: To count and view the real-time result by individual camera(s). Mostly used for small place with single entrance & exit.
80	Group View Mode: To count and view the real-time result by group(s). Mostly used for big place with multiplex entrances & exits which are monitored by multiplex cameras.
Q	Data Search: To search the counting data
0	Configuration: To configure the settings

2 – 2 - Real-Time Counting Statistics

Available: Remaining allowed attendance number
Inside: Current attendance number inside the control area
Enter: Recorded number of total entrants
Exit: Recorded number of total leaving attendance.

3 - Screen Display Controls

Button Function						
	Screen display layout of 4/6/9 channels. Continuously click a button to display next page.					
<u>ال</u> ه	D To show or hide the real-time data display.					
盀	Clear counting data for the selected channel					
Clear counting data for all channels						

4 – Real-Time Counting Statistics Information Bar

This bar will display the real-time counting statistics for the selected channel.

Available: Remaining allowed attendance number

Inside: Current attendance number inside the control area

Enter: Recorded number of the total entrants

Exit: Recorded number of the total leaving attendance.



If the available number is more than 0, the cartoon figure will be in green color.

If the available number is 0, the cartoon figure will be in red color.



5 – Statistics Data Chart

The all-day counting statistical data of all activated channels will be displayed here. Use the mouse wheel to move the timeline toward left or right.

Channel	Туре	09:00	10:00	11:00	12:00	13:00	14:00
	Enter	0	0	34	48	29	21
CH1	Exit	0	0	28	8	15	17
	Inside	0	0	6	46	60	64
	Enter	0	0	38	5	28	42
CH2	Exit	0	0	27	16	28	29
	Inside	0	0	11	0	0	13
	Enter	0	0	183	53	239	296
CH6	Exit	0	0	165	63	210	293
	Inside	0	0	18	8	37	40
	Enter	0	0	134	47	152	197
CH7	Exit	0	0	118	63	147	197
	Inside	0	0	16	0	5	5

6 – Full Screen Display

Click the 🖂 button to display the Real-time Counting Statistics Information Bar in full screen. Right click your mouse to **exit**.

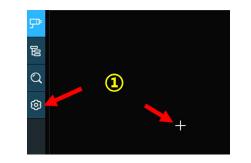


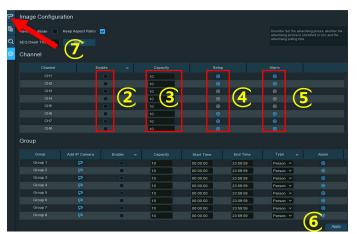
6.1.2 - Settings of Channel View Mode

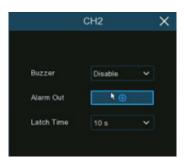
- 1 Click the add icon + or setup icon ⊗ to go to the configuration page.
- 2 Tick the checkbox of Enable of the channel(s) you want to realize the counting. The Setup & Alarm icon (a) will be in blue color if the camera in that channel supports Al function; on the contrary if the camera doesn't support Al function, the icon (a) will be in grey color.
- 3 Set the **Capacity** number for each channel, which is the maximum limitation of the attendance.
- 4 Click the Setup button in of the camera that you want to configure the detection conditions. Check more on 5.4.1.5. CC (Cross Counting Detection).
- 5 Click the Alarm setup button (a) of the camera that you want to configure the alarm actions when the Available number is 0.
 - **Buzzer:** Set the buzzer duration in seconds when the Available number is 0.
 - Alarm Out: If your NVR support to connect to external alarm device, you can set to emit an alarm tone.
 - Latch Time: To configure the external alarm time when the Available number is 0.

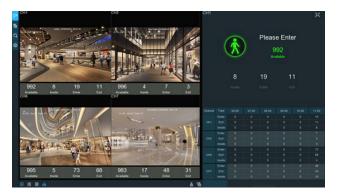
Right click your mouse to exit the alarm setup page, and then click **Save** button to save the settings.

- 6 Click Apply to save.
- 7 Click the Channel View icon
 [™] to view the live images & counting data of all activated channels.











6.1.3 - Settings of Group View Mode

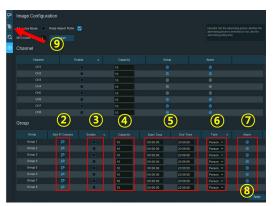
- Click the add icon + or setup icon to go to the configuration page.
- 2 Click the Add IP Camera icon P to add channel(s) to the group. Max. 8 groups can be set, and each individual channel can be added to 1 group only. If a channel is enabled in the Channel View mode, it will be not allowed to add to any group.
- 3 Tick the checkbox of **Enable** of the group you want to activate.
- 4 Set the **Capacity** number for each group, which is the maximum limitation of the attendance.
- 5 Set the **Start/End Time** of each group.
- 6 Choose the detection targeted **Type** from **Person, Vehicle** or **Motion**.
- 7 Click the Alarm setup button (a) of the group that you want to configure the alarm actions when the Available number is 0.
 - **Buzzer:** Set the buzzer duration in seconds when the Available number is 0.
 - Alarm Out: If your NVR support to connect to external alarm device, you can set to emit an alarm tone.
 - Latch Time: To configure the external alarm time when the Available number is 0.
 - Right click your mouse to exit the alarm setup page, and then click **Save** button to save the settings.
 - 8. Click **Apply** to save.
 - 9. Click the **Group View** button 语 to view the live images & counting data of all activated groups.
 - 10. You can choose which group you want to view the real-time live images and counting data.
- 11. Furthermore, it supports to display the counting data in Map mode. Click the **Map** button to configure the settings.

Click Button to add a map image from your USB memory.

Click button to adjust the site of the IP cameras. Click and hold the channel icon and move one by one to adjust the position of your IP cameras on the map.

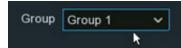
You can click <a>button to display the map in full screen, click <a>button to exit full screen.















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6.1.4 - Advertise Mode

The system supports to demonstrate your advertising pictures with the Cross Counting functions.

- 1. Click the **Configuration** button in the Navigation bar to go to the configuration page.
- 2. Tick the checkbox of Advertise Mode
- 4. Tick the checkbox of **Keep Aspect Ratio** if you want to display the images with their original aspect ratio. Uncheck the box if you want the pictures to be stretched and displayed full screen.
- 5. Set the **SEQ Dwell Time** in seconds which will decide how long each picture will stay in the screen.
- 6. Click **Apply** button to save your settings.







7. Go back to Channel View mode or Group View mode, click the full screen button ◻ on the right upper corner to display your advertising pictures and the real-time counting data for the selected channel(s) or group(s).

6.1.5 - Search Counting Data

- 1. Click Search button ^Q in the Navigation bar to search page.
- 2. It is allowed to search for Channels or Groups separately. Choose the channel(s) or group(s) you want to search, set the search duration by day, by week, by month or by year and then choose the targeted type you want to search. Click the search button Q, the result will be displayed on the right side of the window.
- D Click to display the result in column chart
- 🗠 Click to display the result in tendency chart
- E Click to display the result in detail chart
- Click to export the result into your USB flash drive





6.2 - Face Attendance

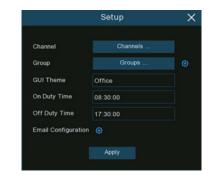
Face Attendance is an AI application based on face detection function. You're able to view and check the real-time statistical data of attendance management visually.

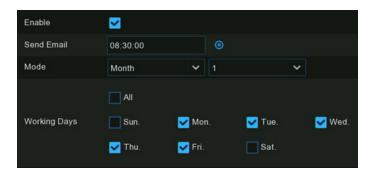


- 1 Customized title of the face attendance.
- 2 Overall attendance statistical data of all selected groups.
- 3 Individual attendance statistical data of each selected group:
- 4 R The total number of people who need to check attendance
- 5 & The number of people who have checked attendance already
- 6 R The number of people who haven't checked attendance.
- 7 Live view screen: to display the live camera images. Click the screen split buttons □□□⊞ to change the display layout. Continuously click a button to display next page.
- Push notifications of latest persons who have checked the attendance, including the Name/ ID of the person, captured face image, group, clock in time and clock out time. Normal clock in & clock out time will be displayed in green color. Abnormal check-in & check-out time will be displayed in red color. Click the screen split icons 12 to change the display layout.
- 9 Click search icon Q to search the face attendance data. Check more on 7.1.9.6 Face Attendance.



- 10 Click Setting icon loss to configure the face attendance settings:
- 11 **Channels:** Click to choose face attendance channel(s)
- 12 Group: Click to choose face attendance group(s). If you want to edit the group database, click the icon to edit. Check more on 5.4.2.2. Face Recognition Database Management.
- 13 **GUI Theme:** To give a customized title to the face attendance.
- 14 **On Duty Time:** To set the on-duty time.
- 15 **Off Duty Time:** To set the off-duty time.
- 16 Email Configuration: To send the attendance statistical data by email. click the
 icon to edit the email configuration.
- 17 **Enable:** Check the box if you want to send the attendance statistical data by email.
- 18 **Send Email:** Set the preset time for sending the email.
- 19 Mode: Choose to send the email once in every Day, every Week, or every Month.
- 20 **Day:** Send the attendance statistical data of previous day once a day.
- 21 Week: Send the attendance statistical data of last 7 days once a week.
- 22 Month: Send the attendance statistical data of last month once a month.
- 23 Working Days: To select the working days. It will affect the attendance statistical data.
- 24 Click the setting
 button to configure your email configuration. Check more on 5.5.3.1 Email Configuration.







6.3 - Object Classification

Object Classification is an AI application based on face detection, human and vehicle function, which is used to classify and count the number of detected faces, human beings, motor vehicles and non-motor vehicles in a certain period.



- 1 Customized title of the object classification.
- 2 Live view screen: to display the live camera images. Click the screen split buttons $\Box \Box \blacksquare$ to change the display layout. Continuously click a button to display next page.
- 3 Notifications of detected face images. Use the mouse wheel to move up and down.
- 4 Notifications of detected human images. Use the mouse wheel to move up and down.
- 5 Notifications of detected motor vehicles. Use the mouse wheel to move left and right.
- 6 Notifications of detected non-motor vehicles. Use the mouse wheel to move left and right.
- 7 Statistical data of detected objects in a selected period.
- 8 Click the icons to display or hide relative object:
- 鬼 🕏 To display or hide face images.
- 🎄 🎄 To display or hide human images.
- 🛤 🛱 To display or hide motor vehicle images.
- 🖡 🖗 To display or hide non-motor vehicle images.
- 9 Click search icon Q to search the recording of human & vehicle detection events. Check more on 7.1.9.3 Human & Vehicle.
 Click Setting icon

 to configure the object classification settings:
- **GUI Theme:** To give a customized title to the object classification.
- **Statistics:** To select the time period you want to show the data.
- **Channels:** Click to choose channel(s) of which you want to show the data





7 - SEARCH, PLAYBACK / BACKUP

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



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

7.1 - Search & Play in General





- 1 **Search Options:** the system provides various search & playback methods: General, Events, Sub-periods, Smart, Tag, External File, Picture, Slice & Al. Click the tab to search different event recordings.
- 2 **Search Date:** click the calendar icon to select a date to search on. A red underline on a date indicates recordings on those particular dates.
- 3 **Search Type:** this is the event type that you can search for. You can leave all event types enabled if you want to search for all, or you can select specific event types to narrow your search.
- 4 Select the video stream to search for. Mainstream is the default option. Substream can be selected if dual-stream recording is enabled.
- 5 **Channel Selection:** to choose the channels you want to search & play.
- 6 **Playback Control Bar:** to control the video playback.

Button	Function
臼	Enlarge the video playback to full screen
<	Rewind button, subsequent presses of the button will change the rewind speed.
ID	Slow Play, subsequent presses of the button will change the play speed
\triangleright	Play in normal speed
00	Pause
Ŋ	Play frame by frame. Click once to play a frame of the video
	Stop playing
\square	Fast forward button, subsequent presses of the button will change the speed.
Ð	Select a camera, click this button then use the scroll button on the mouse to zoom. Use the picture-in-picture screen to select a different area to view. Right-click to exit.
X	This button allows you to edit the video by setting mark in and mark out points which you can then copy to a USB flash drive. View more on 7.1.1. Video Segment Backup.
C)»	Click to adjust audio output volume
0	Click to take a snapshot and save to your USB flash drive
\$	Tagging allows you to record information such as a person or object within the video. Click on a camera to select, pause the video when you see a person or object to be tagged, then press this button (multiple tags can be created).
ত ্ব	Same as above, but you can name the tag.
^S 3	Click to switch the image scale for all playing cameras between original and stretch.

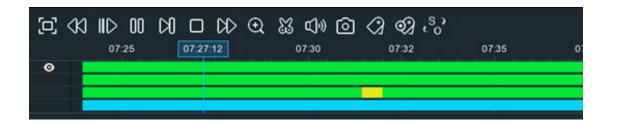
- 7 **Timeline:** Quick locate the playback position by clicking on the time line. You can zoom in or zoom out the timeline by using the timeframe options O 24h O 2h O 1h O 30m for precise location.
- 8 Indicates the video type on the timeline.

📕 Normal 📕 Motion 📕 IO 🔛 PIR 📕 Intelligent 📕 Alarm 📕 Manual

9 – Playback Status: display the playing status.



7.1.1 - Video Segment Backup



- 1. Insert your USB flash drive to the NVR.
- 2. Search & start a video recording playback.
- 3. Move your mouse cursor and click on the timeline where you want to cut a segment.
- 4. Click 🛛 button. You will see two white triangles on the timeline. Move them left or right on the section of the video that you want to edit. If want to select multiplex channels, you can click on the position of the start time, and then hold and drag your mouse to select more channels, release your mouse at the position of the end time.
- 5. The 🐰 icon is changed to 🔳 icon now, click 🔳 to save the video segment.
- 6. Select a file type for your backup files, and then click Save button to save the video segment(s). Please make sure your USB driver has enough space to save the video segment(s).





7. Choose the directory in your USB flash drive where you want to save the video segment(s), and then click OK. The progress bar at the bottom of the window shows the backup progress.

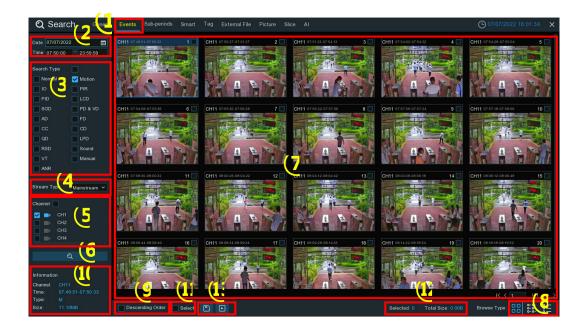
		Backup			×
Driver List:	C				↓
💾 USB1-1		Name		Last Modify	

		.Spotlight-V100		18/01/2021 17:53:46	
		.fseventsd		18/01/2021 17:53:46	
				01/03/2021 05:49:46	
		22		17/03/2021 10:07:02	
		System Volume Information		07/01/2021 16:48:16	
		i fbgrab		18/03/2021 11:10:51	
		E CH04-20210318-163337-163413-003000000	27.359MB	18/03/2021 08:34:52	
		cross_in_daily_report_ch1_20210316.csv	643.000B	16/03/2021 11:18:08	
		face-attendance-20210317-20210317-192643	204.000B	17/03/2021 11:26:42	
		face_statistics_20210316_000000_20210316_	3.063KB	16/03/2021 11:17:36	
		faces-2020_01_07-10_18_50.db	6.566MB	07/01/2020 10:18:54	
		faces-2021_03_17-14_41_37.db	160.000KB	17/03/2021 06:41:36	
		heatmap_daily_report_ch1_20210316.csv	572.000B	16/03/2021 11:17:00	
Remain:/Total:		Location: usb1-1			
14.104GB/14.4	31GB	Selected Directory: usb1-1		K	



7.2 - Search, Play and Back Up Event Recordins

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



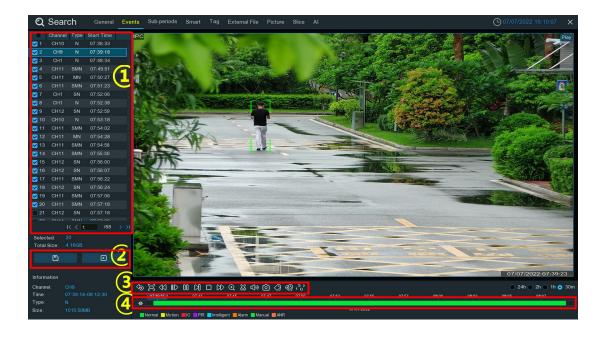
- 1 Click the **Events** tab.
- 2 Click the calendar icon to select a date to search on. A red underline on a date indicates recordings on those particular dates. For time, you can search over 24 hours or you can use the keypad to enter a specific start and end time.
- 3 **Search Type:** this is the event type that you can search for. You can leave all event types enabled if you want to search for all, or select specific event types to narrow your search.
- 4 Select the video stream to search for. Mainstream is the default option. Substream can be selected if dual-stream recording is enabled.
- 5 Select from one or all cameras that you would like to search on. A blue camera indicates which cameras match your search criteria.
- 6 Click Search button to commence a search.
- 7 You will see a thumbnail of each event that matches your search criteria displayed on the result window. Use the arrow buttons to turn page or use the keypad to navigate to a specific page.
- Click these buttons to change how the events are displayed. The default view is Thumbnail but, you can change it to List or Detail. In the detailed view mode, you can lock the events to keep them from being overwritten in the hard disk drive. Click the
 icon to lock or click
 to unlock the events.

V 11	CH11	SMN	07/07/2022	07:54:02	07:54:32	7.93MB	⊡	æ
2 12		MN		07:54:28	07:55:04	9.52MB		æ
2 13	CH11	SMN	07/07/2022	07:54:58	07.55.36	10.00MB		26

- 9 Tick the checkbox to view the events in descending order.
- 10 Click on an event thumbnail, relative information will be displayed on the left bottom corner.
- 11 Tick the checkbox above each event thumbnail to select it, or tick the checkbox of **Select** to select all events in current page.
- 12 The number and total size of selected event(s) will be displayed here.
- 13 Click backup button 🖹 to save all selected events to your USB flash drive directly. Or you can click play button 🕞 to enter the playback window. See more on 7.2.1. Event Playback Control.



7.2.1 - Event Playback Control



- 1 Event List, you can select the events here. Use the arrow buttons to turn page or use the keypad to navigate to a specific page. Double-click on an event to play it directly.
- 2 Click 📄 icon to save selected events to your USB flash drive. Click 🕒 button to play selected events.
- 3 Video Playback Controls: to control the video playback.

Button	Function
Ś	Return to event search page
þ	Enlarge the video playback to full screen
<<	Rewind button, subsequent presses of the button will change the rewind speed.
ID	Slow Play, subsequent presses of the button will change the play speed
\triangleright	Play in normal speed
00	Pause
Ŋ	Play frame by frame. Click once to play a frame of the video
	Stop playing
	Fast forward button, subsequent presses of the button will change the speed.
€	Select a camera, click this button then use the scroll button on the mouse to zoom. Use the picture-in-picture screen to select a different area to view. Right-click to exit.
X	This button allows you to edit the video by setting mark in and mark out points which you can then copy to a USB flash drive. View more on 7.1.1. Video Segment Backup.
L)»	Click to adjust audio output volume
6	Click to take a snapshot and save to your USB flash drive
4	Tagging allows you to record information such as a person or object within the video. Click on a camera to select, pause the video when you see a person or object to be tagged, then press this button (multiple tags can be created).
ত %	Same as above, but you can name the tag.
S	Click to switch the image scale for all playing cameras between original and stretch.



Timeline: Quick locate the playback position by clicking on the time line. You can zoom in or zoom out the timeline by using the timeframe options

7.3 - Sub periods Playback

Sub-periods playback allows you to play multiple video segments with different time periods simultaneously from a single channel. The recordings in selected time period are divided evenly depending on the split-screen mode that has been selected. For example, if the time length of the video is an hour and Split-screens is 4, the video will be divided in to 4 segments with length of 15 minutes and played individually in each screen.



- 1 Click the **Sub-periods** tab.
- 2 Click the calendar icon to select a date to search on. A red underline on a date indicates recordings were taken on those particular dates. For time, you can search over 24 hours or you can use the keypad to enter a specific start and end time.
- 3 Select a number on the Split-screens, it indicates the number that how many video segments you want the recordings to be divided evenly and played in each screen.
- 4 Check the recording types you want to search, or tick the checkbox of **Search Type** to select all.
- 5 Select the video stream to search for. Mainstream is the default option. Substream can be selected if dual-stream recording is enabled.
- 6 Choose the channel you want to search. It supports to search & play one channel only at a time.
- 7 Click the play button \triangleright to start playing.





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Button	Function
臼	Enlarge the video playback to full screen
(1)	Rewind button, subsequent presses of the button will change the rewind speed.
IID	Slow Play, subsequent presses of the button will change the play speed
\triangleright	Play in normal speed
00	Pause
K	Play frame by frame. Click once to play a frame of the video
	Stop playing
C C C	Fast forward button, subsequent presses of the button will change the speed.
Ð	Select a camera, click this button then use the scroll button on the mouse to zoom. Use the picture-in-picture screen to select a different area to view. Right-click to exit.
ы ы	This button allows you to edit the video by setting mark in and mark out points which you can then copy to a USB flash drive. View more on 7.1.1. Video Segment Backup.
c]»	Click to adjust audio output volume
6	Click to take a snapshot and save to your USB flash drive
	Tagging allows you to record information such as a person or object within the video. Click on a camera to select, pause the video when you see a person or object to be tagged, then press this button (multiple tags can be created).
ବ୍ୟ	Same as above, but you can name the tag.
. ⁸ 7	Click to switch the image scale for all playing cameras between original and stretch.

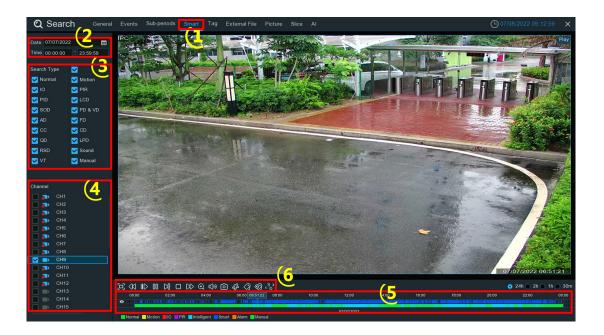
 Click on any one of the split-screens, the time period of the video split-screen will be displayed on the timeline. The color bar on the top of the timeline indicates the time span of the video split-screen you have clicked. The color bar on the bottom of the timeline indicates the time span for the whole recordings you have searched.



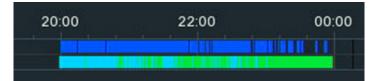


7.4 - Smart Search & Playback

With Smart search function, you will be able to quickly search and play the motion events in a supported camera, no matter the motion detection is enabled in this camera or not. Especially, it allows you to define one or more specific areas of the video, to make it easier to find what you are searching for.



- 1 Click the **Smart** tab.
- 2 Click the calendar icon to select a date to search on. A red underline on a date indicates recordings were taken on those particular dates. For time, you can search over 24 hours or you can use the keypad to enter a specific start and end time.
- 3 Check the recording types you want to search, or tick the checkbox of **Search Type** to select all.
- 4 Choose the channel you want to search. It supports to search & play one channel only at a time.
- 5 The Smart search result will be displayed in the time slot in dark blue color.



6 − Click the play button > to start playing.





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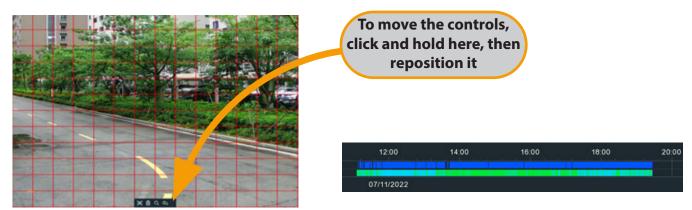
Button	Function
臼	Enlarge the video playback to full screen, right-click to restore.
X	Rewind button, subsequent presses of the button will change the rewind speed.
	Slow Play, subsequent presses of the button will change the play speed
\triangleright	Play in normal speed
00	Pause
Ŋ	Play frame by frame. Click once to play a frame of the video
	Stop playing
DD	Fast forward button, subsequent presses of the button will change the speed.
Ð	Select a camera, click this button then use the scroll button on the mouse to zoom. Use the picture-in-picture screen to select a different area to view. Right-click to exit.
8	This button allows you to edit the video by setting mark in and mark out points which you can then copy to a USB flash drive. View more on 7.1.1. Video Segment Backup.
c]»	Click to adjust audio output volume
0	Click to take a snapshot and save to your USB flash drive
- Sp	Smart Search button.
	Tagging allows you to record information such as a person or object within the video. Click on a camera to select, pause the video when you see a person or object to be tagged, then press this button (multiple tags can be created).
ବ୍ୟ	Same as above, but you can name the tag.
^ی د ک	Click to switch the image scale for all playing cameras between original and stretch.

- 7 It supports to narrow the search by define one or more specific areas of the video. Click the solution on the Playback Control bar, the camera will be shown full screen, and the Smart mode controls will be visible.
 - 🗷 Select a full-screen detection area.
 - Delete all areas created.
 - ^Q Search and play video based on the areas defined.
 - ⇐ Return to the playback interface.

To define one or more specific areas, please do the following:

Click is button to delete all aeras, and then drag to select the area that you want to define. Multiple areas can be defined.

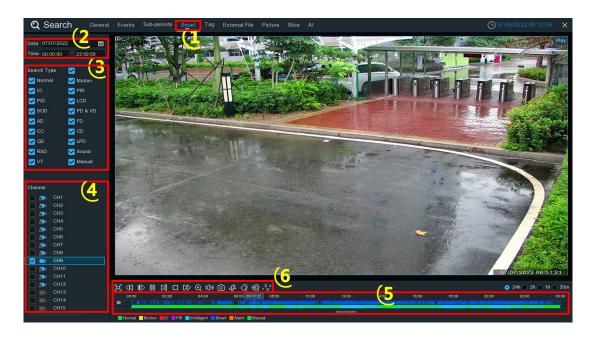
When finished, click the Search button \mathbb{Q} to search recordings based on the areas defined. You'll be returned back to the playback interface. Segments matching your search criteria will be shown on the timeline in dark blue color.





7.5 - Tag Search & Playback

You can search, play and manage the contents by tags that you added in live view or playback.



- 1 Click the **Tag** tab.
- 2 Click the calendar icon to select a date. A red underline on a date indicates tags were created on those particular dates. For time, you can use the keypad to enter a specific start and end time.
- 3 If you have created one or more customized tags, click this to input the tag name (tag names are case sensitive).
- 4 Select the channel(s) you want to search.
- 5 Click Q button to search.
- 6 Tags matching your search criteria will be displayed on the right window.
- 7 Click the play button 🕒 to start playing.



8 – If you want to modify the tag name, click 💉 button. Click 💼 button to delete the tag.



7.6 - Play External File

The NVR supports to play the videos that you have copied to a USB flash drive.



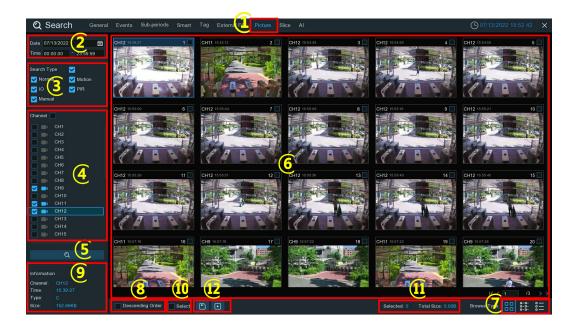
- 1 Click the External File tab.
- 2 If multiple USB flash drives are connected, click the drop-down menu to select the drive that you want to read from.
- 3 Select the file type you want to search and play. Leave default to search all supported formats.
- 4 Select the directory folder where the video files are saved. Double-click an event to play.
- 5 If you want to refresh the USB flash drive, click this button.
- 6 Play control buttons:

Button	Function
口	Enlarge the video playback to full screen, right-click to restore.
IID	Slow Play, subsequent presses of the button will change the play speed
\triangleright	Play in normal speed
00	Pause
Ŋ	Play frame by frame. Click once to play a frame of the video
	Stop playing
CD	Fast forward button, subsequent presses of the button will change the speed.
¢]»	Click to adjust audio output volume



7.7 - Search & Video Snapshots

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

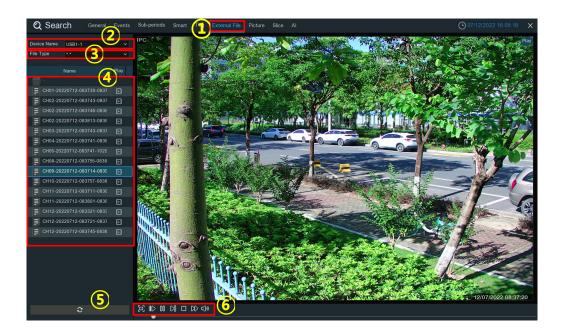


- 1 Click the **Picture** tab.
- 2 Click the calendar icon to select a date to search on. A red underline on a date indicates snapshots were taken on those particular dates. For time, you can search over 24 hours or you can use the keypad to enter a specific start and end time.
- 3 **Search Type:** this is the event type that you can search for. You can leave all event types enabled if you want to search for all, or select specific event types to narrow your search.
- 4 Select from one or more cameras that you would like to search on. A blue camera indicates which cameras match your search criteria.
- 5 Click Search button to commence a search.
- 6 You will see a thumbnail of each snapshot that matches your search criteria displayed on the result window. Use the arrow buttons to turn page or use the keypad to navigate to a specific page.
- 7 Click these buttons to change how the snapshots are displayed. The default view is Thumbnail but, you can change it to List or Detail.
- 8 Tick the checkbox to view the snapshots in descending order.
- 9 Click on a thumbnail, relative information will be displayed on the left bottom corner.
- 10 Tick the checkbox above each snapshot thumbnail to select it, or tick the checkbox of **Select** to select all snapshots in current page.
- 11 The number and total size of selected snapshot(s) will be displayed here.
- 12 Click backup button ☐ to copy all selected snapshots to your USB flash drive directly. You can click play button to enter the slideshow window. See more on 7.7.1. Playing Slideshow.



7.7.1 - Playing Slideshow

The selected snapshots will be played in a slideshow.



1 – Play control buttons:

Button	Function
00	Click to pause slideshow.
ĸ	When the slideshow is paused, you can click this button to view previous snapshot.
\triangleright	Click to play slideshow.
Ŋ	When the slideshow is paused, you can click this button to view next snapshot.

- 2 To select how many snapshots that you want to view at once in the screen.
- 3 Selected snapshots will be displayed here. Use the arrow buttons to turn page or use the keypad to navigate to a specific page.
- 4 Select a snapshot, then click this button to copy it to a USB flash drive.
- 5 To display snapshot information.
- 6 Click this to go back to the previous screen.



7.8 - Slice Search

This function is able to slice the recordings into each one minute, which helps to quickly search what you want to see.

- 1 Click the **Slice** tab.
- 2 Select the video stream to search for. Mainstream is the default option. Substream can be selected if dual-stream recording is enabled.
- 3 Select the View Mode:
 - **Channel:** Your search will focus primarily on what happen in different time period in the selected camera.
 - **Time:** Your search will focus primarily on what happened in different cameras in a certain time period.
- 4 To choose the channel you want to search for. Only one channel allowed to search at once.
- 5 To choose the time (by hour) you want to search for.
- 6 When the channel and hour has been selected, the available one-hour recordings will be sliced into 60 segments from the first minute to the last of the hour, and the thumbnail images of each minute will be displayed on the screen.
- 7 Click on any one of the thumbnail images, the video will be played on the left bottom corner.
 Click on the time bar to adjust the play position. Click [i] button, you can view the playback on full screen and make a backup.





7.9 - Al Search

In the AI search section, you'll be able to search events of face detection, license plates, human & vehicle detection, PID & LCD, repeat visitors and face attendance.

7.9.1 - Face Detection Events

Click **Face** tab to enter the face search section, if you have enabled the face detection in camera(s), you will see the face images captured by all cameras on current day.



- 1 You can change the search time. Click the calendar icon to select a date to search on. A red underline on a date indicates face images were taken on those particular dates. For time, you can use the keypad to enter a specific start and end time.
- 2 The system searches all channels by default. You can click the **Channels** button to select specific channel(s) that you want to search for.
- 3 Click **Search** button to commence a search.
- 4 Use the arrow buttons to turn page or use the keypad to navigate to a specific page.
- 5 Click these buttons to change how the events are displayed. The default view is Thumbnail, but you can change it to List or Detail.
- 6 You can change to display the images in ascending or descending order by time.
- 7 You can narrow your search by selecting specific alarm group(s).
- 8 Tick the checkbox above each image to select it, or tick the checkbox of **Select** to select all images in current page.



9 - Click backup button I to copy all selected face images to your USB flash drive. If you want to save video files also, tick the checkbox of **Record**, and then select the video format, adjust the length of time before and after the events.



7.9.1.1 - Playing Events



- 1 Event List. Use the arrow buttons to turn page or use the keypad to navigate to a specific page. Double-click on an event to play it directly.
- 2 You can add time duration before and after the event and then click button to play.
- 3 Video Playback Controls: to control the video playback





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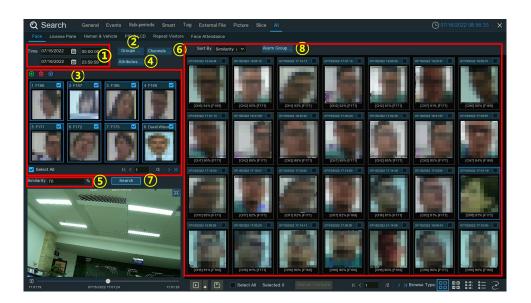
Button	Function
ক	Return to event search page
臼	Enlarge the video playback to full screen
	Rewind button, subsequent presses of the button will change the rewind speed.
ID	Slow Play, subsequent presses of the button will change the play speed
\triangleright	Play in normal speed
00	Pause
K	Play frame by frame. Click once to play a frame of the video
	Stop playing
DD	Fast forward button, subsequent presses of the button will change the speed.
Ð	Select a camera, click this button then use the scroll button on the mouse to zoom. Use the picture-in-picture screen to select a different area to view. Right-click to exit.
X	This button allows you to edit the video by setting mark in and mark out points which you can then copy to a USB flash drive. View more on 7.1.1. Video Segment Backup.
L)»	Click to adjust audio output volume
6	Click to take a snapshot and save to your USB flash drive
2	Tagging allows you to record information such as a person or object within the video. Click on a camera to select, pause the video when you see a person or object to be tagged, then press this button (multiple tags can be created).
ଡ ନ୍ନ	Same as above, but you can name the tag.
53 23	Click to switch the image scale for all playing cameras between original and stretch.

4 – **Timeline:** Quick locate the playback position by clicking on the time line. You can zoom in or zoom out the timeline by using the timeframe options O 240 210 11 0 30m for precise location.

7.9.1.2 - Search & Compare Face Images (Recognition)

You can appoint one or more face profiles selected from face recognition data base and then search, the

system will compare and display the face images that match your search criteria.

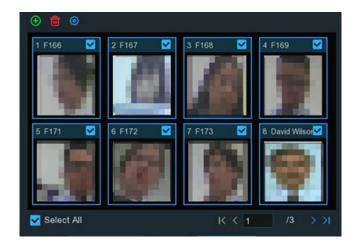




- Click the calendar icon to select a date to search on. A red underline on a date indicates snapshots were taken on those particular dates. For time, you can search over 24 hours or you can use the keypad to enter a specific start and end time.
- 2 Click Groups button, and then select the groups where your targeted face profiles are saved in.
- All face profiles exist in your selected group(s) will be displayed in the display window:

All face profiles are selected by default. You can untick the checkbox of "Select All" to deselect all.

Tick or untick the checkbox above each image to select or deselect it.



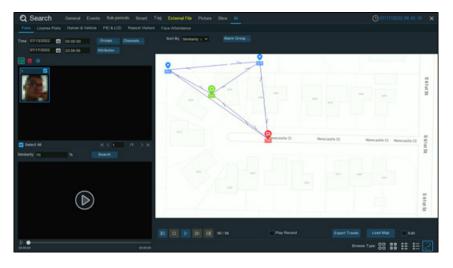
- 4 If you have enabled the Face Attributes detection (5.4.1.1. FD), you can click here to appoint the attribute(s) you want to search.
- 5 Set the Similarity: Set how closely, in percentage terms, the detected face must match a targeted face to be considered a recognized match. The default threshold is 70%. A higher similarity % will result in fewer false recognition results.
- 6 The system searches all channels by default. You can click the **Channels** button to select specific channel(s) that you want to search for.
- 7 Click **Search** button to commence a search.
- 8 The face images that match your search criteria will be displayed. You can narrow your search by selecting specific alarm group(s).

7.9.1.3 - Tracking Face

You can load a map and replace your cameras on the map. With the tracking function, you can easily

to see someone's appearance/ disappearance time & position in your appointed cameras, and his/her

movement track during the selected time period.





1 – On the Face search page, click the tracking button \ge to enter the operation page.



- 2 Click Load Map button to load a map image from your USB flash drive.
- 3 Tick the checkbox of **Edit**, you will see site icons which are equal with the number of your NVR channels. You can move the cameras to the positions where you want them to be placed on the map.



4 – Click add button, and then select a face image from internal or external storage device.

NOTE: The system supports to track only one face each time.

- 5 Click the calendar icon to select a date to search on. A red underline on a date indicates snapshots were taken on those particular dates. For time, you can search over 24 hours or you can use the keypad to enter a specific start and end time.
- 6 The system searches all channels by default. You can click the "Channels" button to select specific channel(s) that you want to search for.
- 7 Set the Similarity: Set how closely, in percentage terms, the detected face must match a targeted face to be considered a recognized match. The default threshold is 70%. A higher similarity % will result in fewer false recognition results.
- 8 Click Search button to commence a search.
- 9 After a while, several camera site icons are displayed on the map with different colors and illustrations. It displays when and where the person appeared at the first time, and when and where the person was last detected by a camera.





- 10 Click to choose **Time** \uparrow to sort the events from oldest to newest.
- 11 Click > button to start playing an animation demonstration of the person's movement track. You can control the playing with below buttons:

K	Click to display previous movement
	Stop
\triangleright	Play
00	Pause
C C C	Click to adjust the play speed
D1	Click to display next movement

- 12 If you tick the checkbox of **Play Record**, the animation of movement track will be played together with the event recording.
- 13 Export the tracking data for the selected time period to a USB flash drive. The file will be saved as an excel file. You can open the file in Excel (or similar software) to further analyze the data.

7.9.2 - Search License Plate

Click License Plate tab to enter the license search section, if you have enabled the license plate detection

in camera(s), you will see the license detection events captured on current day.





- 1 Click the calendar icon to select a date to search on. A red underline on a date indicates license plates were taken on those particular dates. For time, you can use the keypad to enter a specific start and end time.
- 2 The system searches all channels by default. You can click the **Channels** button to select specific channel(s) that you want to search for.
- 3 Click **Search** button to commence a search.
- 4 The search result will be displayed on the right side of the screen.
- 5 You can change to display the images in ascending or descending order by time.
- 6 Use the arrow buttons to turn page or use the keypad to navigate to a specific page.
- 7 Click these buttons to change how the events are displayed. The default view is Thumbnail, but you can change it to List or Detail.
- 8 Tick the checkbox above each event to select it, or tick the checkbox of **Select** to select all events in current page.
- 9 Click backup button 🔄 to copy all selected face images to your USB flash drive. If you want to save video files also, tick the checkbox of **Record**, and then select the video format, adjust the length of time before and after the events.

You can click play button 🕒 to play the selected events, or click 🔺 to add time duration before and after the event and then play. See more on 7.9.1.1. Playing Events.

10 – You can input the license number and set the number of **Fault Tolerance** to narrow your search.

Fault Tolerance: Varies in image resolution, light strength, camera angles, moving speed of the vehicle and etc., character(s) in the license plate number might be failed to recognize. Set the Fault Tolerance that how many characters the detected license allowed to be different from the license number saved in the group. If the number of difference characters between the detected license number and a license profile in the group is no more than the set value, the detected license will be considered a recognized match.

Recognized License Numbers	Input Numbers	Fault Tolerance	Recognition Results
AB123C	AB-123-C	≤2 characters	True
AB123C	AB-123-C	≤0 or 1 character	False
A8I23C	AB123C	≤2 characters	True
A8I23C	AB123C	≤0 or 1 character	False
B594SB	В734КВ	≤3 characters	True
B594SB	В734КВ	≤2 character	False
AB132C	AB123C	≤2 characters	True
AB123C	AB123C	≤1 or 1 character	True

I NOTE:

Only English letters and digit numbers will be recognized by the system, special symbols, like underline _, virgule /, hyphen -, will be excluded from being recognized. Please set the Fault Tolerance accordingly if you have input special symbols in the license number when creating a license profile.



7.9.3 - Human & Vehicle

Click Human & Vehicle tab to enter the human & vehicle search section, if you have enabled the human & vehicle detection in camera(s), you will see the human & vehicle detection events captured on current day.



- 1 Click the calendar icon to select a date to search on. A red underline on a date indicates human and/or vehicles were taken on those particular dates. For time, you can use the keypad to enter a specific start and end time.
- 2 Select the target type(s) you want to search for.
- 3 The system searches all channels by default. You can click the **Channels** button select specific channel(s) that you want to search for.
- 4 Click Search button to commence a search.
- 5 The search result will be displayed on the right side of the screen.
- 6 You can change to display the images in ascending or descending order by time.
- 7 Use the arrow buttons to turn page or use the keypad to navigate to a specific page.
- 8 Click these buttons to change how the events are displayed. The default view is Thumbnail, but you can change it to List or Detail.
- 9 Tick the checkbox above each event to select it, or tick the checkbox of **Select** to select all events in current page.
- 10 Click backup button 📄 to copy all selected face images to your USB flash drive. If you want to save video files also, tick the checkbox of **Record**, and then select the video format, adjust the length of time before and after the events.

You can click play button \blacktriangleright to play the selected events, or click \blacktriangle to add time duration before and after the event and then play. See more on 7.9.1.1. Playing Events.





7.9.4 - PID & LCD

Click **PID & LCD** tab to enter the PID (Perimeter Intrusion Detection) & LCD (Line Crossing Detection) event search section, if you have enabled the PID and/or LCD in camera(s), you will see the detection events captured on current day.



- 1 Click the calendar icon to select a date to search on. A red underline on a date indicates human and/or vehicles were taken on those particular dates. For time, you can use the keypad to enter a specific start and end time.
- 2 Select the target type(s) you want to search for.
- 3 Select PID and/or LCD in Vigilance.
- 4 The system searches all channels by default. You can click the **Channels** button to select specific channel(s) that you want to search for.
- 5 Click **Search** button to commence a search.
- 6 The search result will be displayed on the right side of the screen.
- 7 You can change to display the images in ascending or descending order by time.
- 8 Use the arrow buttons to turn page or use the keypad to navigate to a specific page.
- 9 Click these buttons to change how the events are displayed. The default view is Thumbnail, but you can change it to List or Detail.
- 10 Tick the checkbox above each event to select it, or tick the checkbox of **Select** to select all events in current page.
- 11 Click backup button 📄 to copy all selected face images to your USB flash drive. If you want to save video files also, tick the checkbox of **Record**, and then select the video format, adjust the length of time before and after the events.

You can click play button **▶** to play the selected events, or click ▲ to add time duration before and after the event and then play. See more on 7.9.1.1. Playing Events.

		Back	ир Туре		×
🔽 Imag	e				
<mark> Reco</mark>	rd		o RF 🔵) MP4
Pre-play	10s	~	Post-play	10s	~
	s	ave	Cancel		



7.9.5 - Repeat Visitors

This is a function to fast search the frequency of occurrence of persons in a certain time period.



- 1 Click the calendar icon to select a date to search on. A red underline on a date indicates human and/or vehicles were taken on those particular dates. For time, you can use the keypad to enter a specific start and end time.
- 2 The system searches all channels by default. You can click the **Channels** button to select specific channel(s) that you want to search for.
- 3 Click **Search** button to commence a search.
- 4 The search result will be displayed on the right side of the screen. **Appeared Times** under each thumbnail image indicates how many times the person was captured during your search period.
- 5 You can input a number of **Minimum Occurrences** to hide the search result whose appeared time is less than the number of minimum occurrences.
- 6 You can change to display the images in ascending or descending order by time or frequency.
- 7 Use the arrow buttons to turn page or use the keypad to navigate to a specific page.
- 8 Tick the checkbox above each event to select it, or tick the checkbox of **Select** to select all events in current page.
- 9 Click backup button 🖱 to copy all selected face images to your USB flash drive. If you want to save video files also, tick the checkbox of **Record**, and then select the video format, adjust the length of time before and after the events.

You can click play button \blacktriangleright to play the selected events, or click \blacktriangle to add time duration before and after the event and then play. See more on 7.9.1.1. Playing Events.



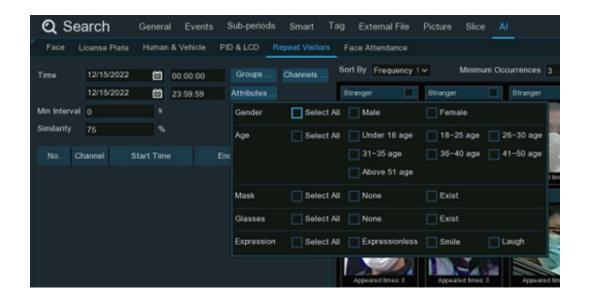


10 – You can narrow your search by adjusting the **Min. Interval** time and the percentage of **Similarity**.

Min. Interval is used to reduce the quantity of searched face images that repeatedly captured within a short period time. For example, if the Min. Interval is set to 20 seconds, then starting from the time of the first face image searched on the selected date, all the similar face images that appear within 20 seconds will only display the first image. The system will display the first image captured in every 20 seconds.

Similarity is used to set how closely, in percentage terms, the searched faces must match each other to be considered a recognized same person. A higher percentage of similarity will result in fewer false recognition results.

11 – Furthermore, you can select the face features to execute refined search. Click **Attributes** button, and then select the features you want to search for, and then click **Search** button again.



12 – By default, the system will search and display all captured face images during your searching time period. If you want to search for the persons whose face profiles had been stored in the groups, click the Group button and choose the face group(s) accordingly.



7.9.6 - Face Attendance

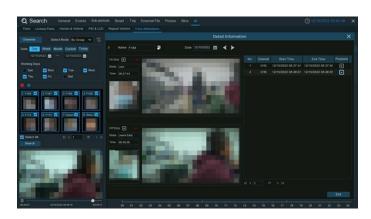
Face Attendance is used to assist in attendance checking by faces. It will help to analyze the absenteeism, coming late and leaving early.

I NOTE:

E: In case of failure, do NOT take the face attendance function as your only measure to check attendance.

Channels Select Mode By Group 🗸 🏹		On Duty Tir	ne 08:30:00	5		off Duty Time	17:30:00						
Date Day Week Month Custom Today	No. 2	Name F167	Group Allow List	Detail	12/05		12/07	12/08				Late	Lei
			Allow List										
Working Days		F169	Allow List					0	0				
Sun. 🗹 Mon Tue. 🗹 Wed.			Allow List										
🗹 Thu. 🗹 Fri. 4 Sat.		F173	Allow L										
• •			Block L										
1 F166 🗹 2 F167 💟 3 F168 🗹 4 F169 🗹		Anna Joyce	Block List	2									
		Nora Martins	Block List	2									
		Shelly Clinton	Block List	2									
6 F172 Ø 6 F173 Ø 7 David Ø Anna JØ		1 /1 >>	I.			/ Normal	🗕 Late	+ Les	we Early	🌇 Late a	nd Leave Early) Abse
✓ Select All 6 I< < 1 /3 > >1 Search 6	12.5												

- 1 Select the channel(s).
- 2 Select search by Group or by Person. If you choose By Group, all the persons in the selected group(s) will be searched. If you choose By Person, only your selected person(s) will be searched. Click the filter icon *T*⁼ to choose group(s) or person(s). Your selected person(s) will be displayed on the left middle side of the window.
- 3 Select the search date by an individual day, week, month, current day or customized date.
- 4 Set the Working Days.
- 5 Set the On Duty Time and Off Duty Time.
- 6 Click **Search** button, the result will be displayed on the right side of the window.
- 7 You can export the data to your USB flash drive or send by email.
- 8 Click on the detail icon
 you will see the captured images and videos of the first occurrence and the last occurrence of the person in the day. Click on the play button
 to have a quick playback.





7.10 - Exported Video File

The exported video File(s) will be optionally password protected and contain checksums to detect file manipulation.

When searching the video file you want to download, Insert the USB disk into the device and click < 🕴 > to download the video file, the prompt "Does the video file need to be encrypted" appears in the

screen.

hate 04/04	2023								
learch Type				Backup					×
🛃 Normai	Motion	Driver List:	0			≣ ~	+	Ξ.	÷
V 10	PIR 🔤	US81-1		Name		Last Mod			
🛃 PID	CD LCD			Name		Last Mod			
🖌 sod	PD & VD								
V AD	FD		562			29/03/2023 1	0.54 2		
🗸 oc	CD		566			29/03/2023 1	0:54:3	4	
v 00	UPD LPD		EL			04/04/2023 1	5:46.3	6	
RSD	Sound		S	Information	×	07/03/2023 1	4:00:2	6	
VT 🔽	Manual					03/04/2023 0	8-25-0		
ANR									
				Does the video file need to be encrypted?		01/04/2023 1			
) e			04/04/2023 0	9:22:0	8	
Channel 🗹			E N			03/04/2023 1	6:39:1	0	
CH1			1			01/04/2023 0	5.58.1	8	

- 1. Click <ok> to enter into the following menu and set the video's password
- 2. Click <ok> to start the backup

	E	Encryted Dialog	×
	ut		
E		Password	
	a		
E	Ν	OK Cancel	





8 - REMOTE ACCESS THROUGH THE WEB CLIENT

You can use the web client on a PC to access the device remotely at any time. Before using the web client, you need to ensure that the device network is normal.

8.1 - Basic System Environment Requirements

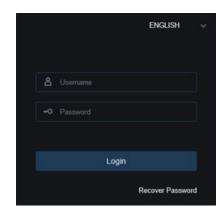
The minimum requirements for the hardware and operating system for running the web client are as follows.

Item	Minimum Value	Recommended Value
CPU	Intel® Core™ i5 CPU	Intel® Core™ i5 CPU or higher
RAM	\geq 4 GB	≥ 8 GB
Hard disk drive	≥ 500 GB	≥ 1000 GB
Video memory	$\geq 2 \text{ GB}$	≥ 4 GB
Display resolution	1280*1024	1920*1080
OS	Windows 7 or above Mac OS X°10.9 or above	
DirectX	DirectX 11	
Direct3D	Acceleration Function	
Ethernet adapter	10/100/1000 M Ethernet adapter	
Internet Explorer (IE) web browser	Microsoft Internet Explorer (version: V11, V10)	
Firefox web browser	V52 or above	
Google Chrome web browser	V57 or above	
Apple Safari web browser	V12.1 or above	
Edge web browser	V79 or above (using the Chromium core)	

8.2 - Web Plug in Downloading and Installation

To access the Web client, perform the following steps:

 Open the web browser, enter the IP address or "DDNS + port number" of the device in the URL bar to open the user information verification page. Then, enter the correct user name and password to log in to the web client. (If you enter an incorrect password for consecutive five times, your account will be locked for 180 s.)





2. When you access the web client through the IE for the first time, the system requires you to install a plug-in. Click Download and install the player to download the plug-in and install it on the computer.

							Live	Playback	Remote Setting	Local Settings	0
Channel	i Lia	MainStream	SubStream	MobileStream							රී සි
CH4											
CHS											
CHS											
сня											
				Live video can be played only after	the player plug-in is installed Dow	you have installed the player,	restart your b	rowser. (Allow the	a player in your browser.)		
		660	1012	ଇତେଦ∗∳ଣ୍ଡ							

- 3. After installing the plug-in, refresh the page, and click Allow in the pop-up dialog box at the bottom of the page. Then, images can be displayed properly.
- **I NOTE:** If you use the Apple Safari, Google Chrome, Firefox, or Microsoft Edge web browser, you do not need to download the plug-in and can directly log in to the device.

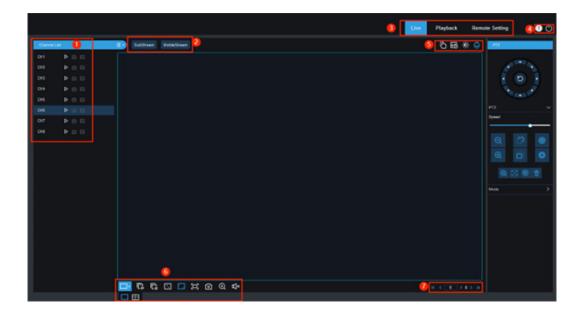
🔀 Setup - SurveillancePluginV2 —		×
Ready to Install Setup is now ready to begin installing SurveillancePluginV2 on your computer.	6	R
Click Install to continue with the installation, or dick Back if you want to review or change any settings.		
Destination location: C:\Program Files (x86)\SurveillancePluginV2\NVR	^	
Start Menu folder: SurveillancePluginV2\WVR		
<	>	
Instal	Cance	



8.3 - Web Client Management

8.3.1 - Live View Page

After user information is verified on the web client, the live view page of the device is displayed, on which you can enable or disable the live view, manually record video to the local computer, and perform screen snapshot, PTZ control, and color adjustment.



1 – Channel list

Click this icon to display the channel list.

Click this icon to enable or disable live video streaming. When live video streaming is enabled, the icon is displayed in blue.

Click this icon to start recording streaming video manually. Click this icon again to stop recording. The manually recorded video is stored on the computer. During recording, the icon is blue.

Manual snapshot icon. Click this icon to store the real time snapshot currently displayed on the computer.

Bit rate icon. For cameras, main stream, substream, or mobile stream video settings can be used. The mobile stream setting is applicable to IP channels only.

2 – Stream switching

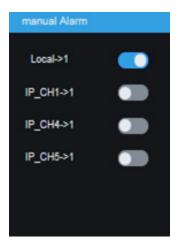
The web client is automatically switched to main stream mode when videos are viewed in a single split-screen and substream mode when videos are viewed in multiple split-screens. You can select the appropriate stream mode for video viewing in accordance with the actual network environment.



3 – Main menu

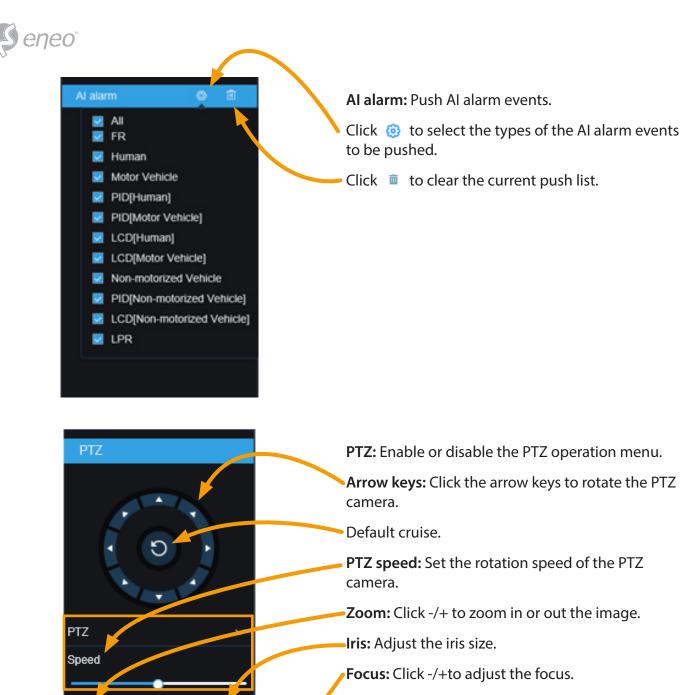
Live: Get video streams of the device in real time.Playback: Remotely play the videos stored on the device.Remote Setting: Remotely set parameters of the device.

- 4 Information
 - II Hover the mouse to display system user and web version information.
 - Exit the web client.
- 5 Manual Alarm



Color								
Hue								
Bright								
Contras	Contrast Saturation Sharpness							
Saturat	Saturation							
Contrast								
	Default							
	Refresh							

Color: Show or hide the color controls.



- 3D PTZ
- Automatic focusing
- Preset point resetting
- 😚 Watch mode
- 🚯 Manual tracking mode

PTZ rotation mode. There are six modes: PTZ, PRESET, Line Scan, Watch Mode, Tour, and Pattern Scan. For detailed information, see 5.1.4.1 Highspeed PTZ Camera Control.

Cruise: Start/stop PTZ cruise.

Preset points: Modify the names of preset points, and go to, add, or delete preset points.

 (\pm)

Mode

1

2

3

Preset Cruise

point 1

point 2

point 3

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3 ∂ @ X



Mode		~
Line Scan		~
Area scan	9 +	
Speed	Low	~
Cruise	⊳	

Mode		~
Tour		~
Track	1	~
Time	20s	~
Interval		
Track 1	$+ \times \uparrow$	$\mathbf{+}$
1	~]
Cruise	△	

Mode		~
Pattern Scar	ı	~
Track	1	~
Record	⊳	
Cruise	⊳	

Line Scan page

Area scan: Click **Q** to record the start position and rotate the PTZ camera, and click **to** record the stop position.

Speed: Select the linear cruise speed.

Click \triangleright to start linear cruise. In this mode, the PTZ camera moves on the same horizontal plane only.

Tour page

Time Interval: Dwell time at each preset point.

- Click + to add a preset point.
- Click \times to delete the preset point.
- Click \uparrow / \downarrow to move up/down the preset point.
- Click \triangleright to start cruise.

Pattern Scan page:

Record:

Click ▷ to start recording the cruise route. Click □ to stop recording.

Cruise:

Click \triangleright to start cruise in accordance with the recorded route and action.



6 – Live View Control Buttons

	36 -	ß	G	4		[0]	B	0	€	€	Q	¢	Q	ଷ୍ପ
≣∙	Switch d	lisplay	/ mode	e in the	chanr	nel area	a.							
Ē	Open all	l chan	nel pre	eviews.										
L.	Close all	chan	nel pre	eviews.										
;	Original	prop	ortions	: The li	ve vide	eo is di	splaye	d in th	e origiı	nal proj	oortio	ns.		
	Stretch:	The liv	ve vide	eo is str	etcheo	d to fit	the en	tire are	a of ea	ich cha	nnel o	n the s	creen.	
[]]	The web	clien	t is enl	arged	to full	screen	•							
8	Manual ı again to													Click this
6	Manual of the com	•		k this i	con to	captu	re the i	mages	of all o	displaye	ed cha	nnels a	and sto	ore them
Ð	Digital zo image to				-	-	-		•		to get	an are	a on th	ne active
ら	Volume	contr	ol: Adjı	ust the	volum	ne by a	djustir	ig the l	evel va	lue.				
€	Silence r	node												
Ŷ	Intercom again to device.)													
Ø	White lig	ght co	ntrol. \	Nhite li	ight de	eterren	ice can	be ena	abled r	nanual	ly (can	nera su	pport	is require
ŝ	Alarm be	ell cor	ntrol. A	larm b	ell can	be en	abled ı	manua	lly (can	nera su	pport	is requ	ired).	
ç	Warning	ı light	contro	ol. Warr	ning lig	ght ala	rm can	be ena	abled r	nanual	ly (can	nera su	pport	is require
Ø	Click this	s icon	to adc	l a cust	om ta	g even	t.							

7 – Display tab switching



8.3.2 - Playback Page

On this page, you can search and play back the videos stored on the hard disks of the device, and can download videos to a PC.



Searching Videos:

- 1. Click **Playback** in the top right corner to open the **Playback** page.
- 2. Select the date for video query on the calendar. The days with video recording are underlined in red.
- 3. In the **Search type** area, select the recording types to be queried. You can also select All to query all recording types.
- 4. Select the video streams to be searched and played.
- 5. In the **Channel List** area, select the channels of which videos are to be played back. (You can search at most four channels for video playback at the same time.)
- 6. Click the **Search** button to search videos.
- 7. The searched videos are displayed on the timeline. Click the video clip to be played, and click ► to play the video.



8.3.2.1 - Playback Control Icons

- **Play** a single video.
- Pause a single video.

Stop playing the video of a single channel.

Play videos frame by frame: Move forward by one frame, that is, move the frames one by one through playback. It is available only when the synchronous playback option is not selected.

- Synchronous playback: Click this icon to synchronously play the videos of the selected channels in the same time period.
- Click this icon to select a **channel** being played, and then click the record icon to record the current video to the computer. Click this icon again to stop recording.
- Select a channel being played, and click this icon to take a **snapshot** and store it on the computer.
- Click this icon to open the **download** page, on which you can select the videos of the selected time ranges of selected channels.

Select the files to be downloaded, and click the **Start Download** button to start downloading. The download status is displayed. Click the **Stop Download** button to stop downloading.

- Rewind videos: It is available only when
 the synchronous playback option is not selected.
- 2021-02-20 00:00:00 2021-02-20 00:06:01 180.91M Not Do 2021-02-20 00:06:01 2021-02-20 00:14:28 Not Do 253.81M 2021-02-20 00:14:28 2021-02-20 00:22:58 Not Do 253.99M 2021-02-20 00:22:58 2021-02-20 00:31:24 253.73M 2021-02-20 00:31:24 2021-02-20 00:39:49 253.62M 253.86M 2021-02-20 00:56:49 253.90M 2021-02-20 00:56:49 253.83M 253.55M 2021-02-20 01:05:18 2021-02-20 01:13:44 2021-02-20 01:22:10 253.46M 2021-02-20 01:13:44 Not Do 253.67M 2021-02-20 01:22:10 2021-02-20 01:30:36 Not Do 2021-02-20 01:30:36 2021-02-20 01:39:06 253.98M Not Dov 2021-02-20 01:39:06 2021-02-20 01:47:35 Not Downloaded 253 62M 2021-02-20 01:47:35 2021-02-20 01:56:01 253.58M Not Downloaded 1 / 14Page > 14 Row / Page Start Download Stop Download
- Playback speed: Click this icon to select the playback speed.
- **Play all channels:** Click this icon to play all channels of the selected search types. It is available only when the synchronous playback option is not selected.
- **Stop playing all channels:** Click this icon to stop playing all channels. It is available only when the synchronous playback option is not selected.
- Digital zoom: Click a video being played, and drag and drop the mouse to get an area on the video to zoom it in. Right-click the area to return to normal view.
- **Original proportions:** The video is displayed in the original proportions.
- **Stretch:** The video being played is stretched to fit the entire area of each channel on the screen.
- The web client is enlarged to **full screen**.



8.3.2.2 - Image Playback

After the capture function is enabled for the device, you can search the captured images on this page. A

maximum of 5000 images can be searched at a time, and the time interval can be modified as needed.

Searching images:

- 1. Click **Playback** in the top right corner of the page.
- 2. Select **Picture** from the drop-down list in the top left corner of the page.
- 3. Select the day to be searched on the calendar. The dates with snapshots are underlined in red.
- 4. Select the image types to be searched from the **Search Type** menu, or select **All** to search all image types.
- 5. Select the channels of which videos are to be searched.
- 6. Click Search.
- The images meeting the search conditions are displayed in the right pane. If you double-click an image, the videos with the time periods before and after the image will be played back. Click to return to the previous page.

8.3.2.3 - Smart Playback

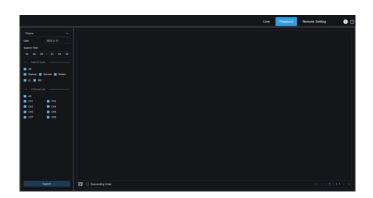
After the motion detection function is enabled for the device, if there are motion detection alarms

triggered, you can search the smart playback videos.

- Click sto display the smart setting area.
- Click 🕱 to select all areas.
- Click 💼 to clear all selected areas.











8.3.2.4 - Playback by Tag

						Live	Playback Remote S	Setting Local S	settings
Тад		No.	Name	Channel	Date	Time	Playback	Edit	Dele
Start time			Tag	CH2	10/27/2022	11.54:41		a_	8
2022-10-27	00 : 00 : 00		yħ	CH2	10/27/2022	11.54.44			1
End time									
2022-10-27	23 : 59 : 59								
Keyword									
Al 🛛									
	CH2								
	Сн4								
	CH6								
	CH8								
	CH10								
	CH14								
CH15	CH16								
CH17	CH10								

On this page you can search all added tags, and edit, play back, or delete them as needed. Select time and channels, and click *Q* to complete the search. Click *I* to jump to the position marked by the tag to play back the video.

8.3.2.5 - Playback

After the AI alarm function is enabled for the device, you can search AI alarm events on this page,

including face detection, license plate detection, pedestrian and vehicle detection, PID&LCD, repeat customers, and face attendance events.

								Live	Playback	Remote Setting	Local Setti	ngs	0
General ^													
ER Picture													
ER Tag													
E AI ^													
Face Detection													
Human & Vehicle Detection													
PIDALCO													
License Plate													
Repeat customer													
Face attendance													
01 02													
06 04													
] OS [] OS													
] OH7 🗌 OH6													
000 000													
0H1 0H12													
0413 0414 0415 0416												0 🗆	-
1 0111												a 🗆	u ,
	0,0, epp	an se	04 <u>90</u>	00,00	60.90	1000	08		16.90	18,08	aojas	20,96	40,9
Search													



8.3.3 - Remote Setting

On this page you can remotely set device parameters, including channel, video, alarm, AI, network, device, and system parameters.

										Une	Playback	Renote Setting	Local Settings	0 (
P Charriel	IF Chantals													
		Channel	CO8.	C4R	Nature	PC Modify Clin	IP Addres	Submet Mask	Put	Wanefacturer	Device Type	Protocol	MAC Address	Software Version
Image Control 1972 Veleo Cover Molece 1993							172.38.44.23	255.255.255.000			9C395X	Phate	10-23-63-69-46-48	V35.11.8.2.3_33601 8
Delemence Intelligent							172 28 44 22	255 255 255 860	9000		IP CAMERIA	Physics	10 23 43 96 66 90	VH-6521(2002 3
B Record		CH3					172.20.04.35	201 205 205 000	9999		IF CAMERA	Phote	10-25-63-23-00-74	VIE357 (210729
Canada Record Capture							172 20 44 40	255.255.255.000			3862+387	Proste	00.23 43 48 44 47	V31.35.8.2.2,32838 1
Alarm		015					172 38 44 35	2111.255.255.000		RS-CHOMINARIS-LTF-LFIKIA PW-M	IP CAMERA	Physics	10-23-63-07-17-68	V34.85.8.2.1,22030 3
Ander VO PRI		CH6												
neligent Continution Alarm														
T2 Linkage Exception														
New Schelule														
faice Prompts														
							172.20.64.46	255 255 255 000	9990		IP CAMERA	Phote	10-23-63-41-47-45	VI2457 L210729
0 AI														
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8.3.4 - Local Setting

On this page you can set where the videos and snapshots taken through the web client are downloaded,

and can select the file type of the video files.

Record Path: Click **to** select the folder where the manually recorded videos are stored on the computer.

Download Path: Click **to** select the folder where the downloaded videos are stored on the computer.

th configuration					
Record Path	D:\Device\Record	d	Đ		
Download Path	D:\Device\Downl	oad	đ		
Snapshot Path	D:\Device\Captur	re	Ð		
File type	MP4				
Capture Type	JPG				
	Save				

Snapshot Path: Click **t** to select the folder where the manually captured snapshots are stored on the computer.

File Type: Select the type of the manually recorded video files.

Save: Click this button to save the changes.



9 - BACKUP VIDEO PLAYING

This chapter describes how to use the VideoPlayer to play the video files backed up from the device.

Minimum Requirements for the Computer System

- CPU: Intel I3 or above
- Operating system: Windows XP/7/8/10/11, MacOS 10
- Memory: 2 GB
- Video memory: 1 GB
 - 1. Install the video player software on the CD and run the program.
- 2. Copy the backup file to the computer.
- Click Open File or click the "+" icon in the Play List pane to load one or multiple video files. The supported video file formats include .rf, .avi, and .mp4. Click ▼ to load a backed up video file folder.

VideoPlayer					0 - 0	×
Play List	+	Ō	4	Ŷ.	Ready 🔟 🕉 🖈	50
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Video Player Control



1 – Play list

🕂 Add files.

Delete files.

- Select play mode: Play a single file and then stop; play all listed files in sequence; play one file repeatedly; play all files repeatedly.
- Filter files by file name.
- 2
 - Hide/Show the play list.
 - Open a file or load a file folder.
- 3 Play control
 - Play the video.
 - Pause playing the video.
 - Stop playing the video.
 - Play the video frame by frame: One frame is played every time this icon is clicked.
 - Play the video on a low speed: You can set the video to be played at 1/2, 1/4, 1/8, or 1/16 of the normal play speed.
 - Fast forward: You can set the video to be played at 2×, 4×, 8×, or 16× of the normal play speed.
- 4 Volume control
 - Multi-screen play. Multiple videos can be played at a time. After clicking this icon, you can drag the videos in the play list to the play page.
- 5 Snapshot 🔯
 - Click this icon to store a video clip on the computer. You can click it to start video clipping, and then click it again to stop video clipping.
 - Keep the video player at the top.
 - Enlarge the video page to full screen.



6 – Advanced setting menu:

Select language for the video player, and configure the player functions.

Basic Settings: Set how to keep the player at the top.

Settings	Basic Capture	×	Settings Bar	No. In Concession of Concessio	×
Sitck on Top:	 Stick on Top When Playing Never Stick on Top Always Stick on Top 		Output Settings: Format: Pl	NG	
Save List File Whe	en Exit		Saving Path: C.	/Users/Administrator/ Browse	
Restore	OK Cancel	Apply	Restore	OK Cancel Apply	

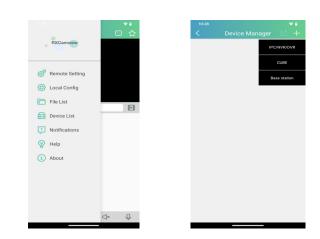
Capture Settings: Set the file format and path for snapshot saving.



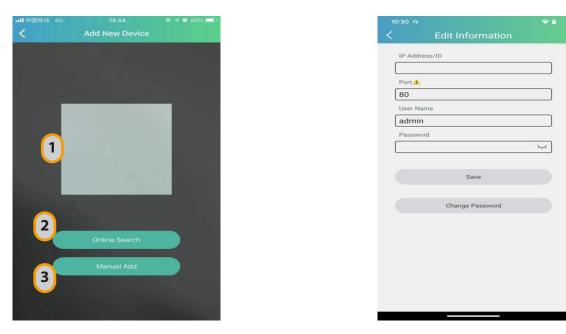
10 - REMOTE ACCESS THROUGH MOBILE DEVICES

The device supports remote access through the mobile devices with Android or iOS operating systems. For such mobile devices with Android or iOS, they can obtain the RXCamView software from Google Store or Apple Store and then install the software.





- 1. Run the program to display the live view screen.
- 2. Click the A icon to open the menu, choose Device List, and then click + to add a device.
- 3. Click Manual Add, and enter the device information to add a new device.



- 1. Scan the QR code: Scan the QR code to add a device.
- 2. Online search: Search and add a device in the same LAN as the device.
- 3. Manual Add:
- IP Address/ID: Enter an IP address or a P2P ID.
- Port: Enter the port number of the device.
- User Name/Password: Enter the user name and password of the device.



- 4. After all settings are completed, click Save. If the device is connected properly, the app will go to realtime display status.
- 1-channel display
- H 4-channel display
- ☐ 6-channel display
- 8-channel display
- 9-channel display
- 16-channel display
- i NOTE: This app can display at most 16 channels on one screen. You can slide a screen to the next screen to view another 16 channels. A total of 80 channels can be displayed.



- Capture: Capture the images of the selected channel, and save them in the file list of the app. You can download the captured images in the file list to a mobile phone.
- Video recording: Record the images of the selected channel, and save it in the file list of the app. You can download the recorded videos in the file list to the mobile phone.
- Audio: Enable or disable the sound.
- PTZ control (camera support required).
- Shut down the channel: This icon appears at the top of the screen when you press and hold the video image. You can drag the video to the icon to close the video preview.



11 - APPENDIX

11.1 - FAQ

1. What should I do if I cannot detect the hard disk?

A: If no hard disk is detected, you need to verify the following:

- (1) The data cable and power cable of the hard disk are well connected.
- (2) The ports of the hard disk on the main board are in good condition.
- (3) The hard disk is supported as described in the specifications.

2. What should I do if I forget the password after I change it?

A: When the administrator forgets the password, you can reset the password through the password retrieval function or restore the factory settings of the device through the physical reset button. It is recommended that you set a password that is both easy to remember and relatively secure.

3. After the device and cameras are connected, the power supply on both ends are normal, but there are no video signals or the outputted images are not normal. Why?

A: Verify that the network cable on the device end is connected properly and is not aging, and verify that the NTSC/PAL system configurations are the same on both ends.

4. What is the effect of heat dissipation on the device itself during operation?

A: Because a certain amount of heat is generated during the device operation, you need to place the device in a safe and well-ventilated environment to prevent the device from having long-term high temperature, which may affect the stability and service life of the system.

5. Why can't the remote control of the device operate while the monitoring screen is normal and the panel buttons can be used?

A: Align the remote control with the IR signal on the front panel of the device when performing check operations. If the remote control still fails, check whether the remote control have sufficient battery capacity. If yes, verify that the remote control is not damaged.

6. Can I use the hard disk drive on my PC in the device?

A: It is recommended that you use a hard disk dedicated for video surveillance to ensure the stability of device operation.

7. Can I play back videos while recording videos?

A: Yes. This device supports that you record videos and play back videos simultaneously.

8. Can I clean up some video records on the hard disk?

A: Considering file security, you cannot clean up some video records. If you really need to delete all the video records, you may format the hard disk.



9. Why can't I log in to the device client?

A: Verify that the network connection configuration is correct and the RJ-45 port has good contact. If the network login password switch is enabled, verify that the user name and password you entered are correct.

10. Why can't I find any recorded information when playing back videos?

A: Verify that the data cable of the hard disk is connected properly and the system time is not adjusted without permission. Try for several times. If the problem persists after restarting, verify that the hard disk is not damaged.

11. Why can't the device control the PTZ?

A: The problem may due to the following causes:

- a) The front-end PTZ is faulty.
- b) The setting, connection, or installation of the PTZ decoder is incorrect.
- c) The PTZ of the device is not configured correctly.
- d) The PTZ decoder protocol does not match the device protocol.

e) The PTZ decoder address does not match the device address.

12. Why doesn't dynamic detection work?

A: Verify that the motion detection time and motion detection area settings are correct, and verify that the sensitivity setting is not too low.

13. Why do the alarms fail?

A: Verify that the alarm setting, alarm connections, and alarm input signals are correct.

14. Why does the buzzer keep ringing?

A: Check the following items: alarm settings, whether the motion detection function is enabled, whether there are always moving objects detected, and whether the I/O alarm is disabled. Verify that the hard disk alarm settings are correct.

15. Why is the device still in recording status even when I click the Stop icon or click Stop Recording in the shortcut menu?

A: If you click the Stop icon or click Stop Recording, only manual recording is stopped. To stop scheduled recording, you need to change the recording status within a certain period of time to not recording. To stop power-on recording, you need to change the recording mode to scheduled recording or manual recording, and then stop recording as described above. Or, you can set the channel status to disabled.



11.2 - Use and Maintenance

- 1. To turn off the hard disk recorder, first turn off the system on the software GUI, and then turn off the power supply. Do not turn off the power supply directly to avoid data loss or even damage of the hard disk.
- 2. Ensure that the hard disk recorder is far away from the places with high temperature heat sources.
- 3. Regularly remove the dust deposited inside the device, and keep good ventilation around the case of the hard disk recorder to facilitate heat dissipation.
- 4. Do not hot-plug the audio and video signal cables and interfaces such as RS-232 and RS-485; otherwise, such interfaces may be damaged.
- 5. Regularly check the power cable and data cable inside the device to prevent them from aging.
- 6. Try to avoid the impact of other electric appliances on audio and video signals, and prevent the hard disk from being damaged by static electricity or induced voltage. If the interface connecting the network cable is frequently plugged in and pulled out, it is recommended that you replace the connection cable regularly to avoid unstable input signals.
- 7. he device is a Class-A product. In the living environment, the product may cause radio interference. In such cases, practical measures should be taken to cope with the interference.





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Videor E. Hartig GmbH Carl-Zeiss-Straße 8 63322 Rödermark / Germany Tel. +49 (0) 6074 / 888-0 Fax +49 (0) 6074 / 888-100 www.videor.com www.eneo-security.com

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