

Network Video Recorder

NVR

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## SAFETY INSTRUCTION

Please carefully read the following safety instruction so as to avoid personal injuries and prevent the equipment and other connection devices from being damaged.

1. Power sources (note: please use the power supply attached or specified by the manufacturer)

Never operate the equipment by using unspecified power supply.

- 2. Never push objects of any kind through openings of NVR Never push objects of any kind through openings of NVR so as to avoid electric shock or other accidents.
- **3.** Do not put the equipment in the dusty field Do not put the equipment in the dusty field.
- **4.** Do not place the equipment under rain or humid environment Do not place the equipment under humid environment like basement. If the equipment is accidentally in contact with water, please unplug the power cable and immediately contact your local dealer.

#### 5. Keep the surface of the equipment clean and dry

Use soft damp cloth to clean the outer case of NVR (do not use liquid aerosol cleaners)

#### 6. Do not operate if any problems are found

If there are any strange smell or sound from NVR, unplug the power cable and contact the authorized dealer or service center.

#### 7. Do not try to remove the upper cover

Warning: Do not remove the cap of NVR so as to avoid electric shock.

#### 8. Handle with care

If NVR does not work normally because of hitting on the hard object, please contact the authorized dealer for repair or replacement.

## 9. Use standard lithium battery (Note: Use the batteries attached or specified by the manufacturer)

After cutting off the power supply, if the system clock cannot continue to work, please replace the standard 3V lithium battery on the main board.

**Warning:** Turn off NVR before replacing the batteries, or you may be suffered from serious electric shock. Please properly dispose of the used batteries.

10. Put the equipment in a place with good ventilation

The NVR system includes HDD, which produces large amount of heat during operation. As a result, do not block the ventilation openings (on the top, bottom, both sides and the reverse side) for cooling the system during operation. Install or put the equipment in the place with good ventilation.

11. The attached power adapter can only be used for 1 set of NVR. Do not connect more equipment, or NVR may be restarted repeatedly because of insufficient power.

12. Prevent the equipment from water dropping or splashing. Do not place objects containing water, such as flower vase, on the equipment.

13. Do not ingest battery, Chemical Burn Hazard,

This product contains a coin / button cell battery.

If the coin / button cell battery is swallowed, it can cause severe internal burns in just

2 hours and can lead to death.

Keep new and used batteries away from children.

If the battery compartment does not close securely, stop using the product and keep

it away from children.

If you think batteries might have been swallowed or placed inside any part of the

body, seek immediate medical attention

## **Chapter 1 Product Overview**

## 1.1 Rear Panel



Item	Physical Port	Connection Method
1	Power Switch	Startup and shutdown
2	Power Port	Connect the attached power supply
3	AUDIO OUTPUT	Optional. Audio signal output, RCA interface
4	VGA Port	Connect to VGA monitor, such as PC monitor
5	HDMI Port	HDMI high-definition port
6	USB Port	Connect USB devices, such as USB mouse and USB flash disk.
7	WAN/LAN Port	Network input interface of the router / switch
8	PoE Port	Optional. Built-in PoE switch for camera connection.
9	RESET	Optional. Reset button. Press and hold 3 seconds to reset password. Press and hold 10 seconds to load all default settings.
10	E-SATA	Optional. Connect to e-SATA HDD for recording & backup
11	Sensor/Alarm/RS4	Optional. Connect to sensor / alarm device, and RS485 port for PTZ
12	LINE IN	Optional. Intercom voice input

\*The actual product may be different from the manual, please refer to the actual product.

## **1.2 Remote Controller (For Reference Only)**

	No.	lcon	Description
	4	1 0	Numeric keys
	1	1-0	Press to display channel 1~8
	2	9、0	Numeric keys
4 5 6	3	AT 1	Press to display all channels
	5	ALL	Multiple display mode
	4	Menu	Press to enter or exit the Main Menu
3 ALL 0 MENU 4	5	Mute	Mute On/off
	6	Submenu	Go to submenu
5 MUTE SUBMENU	7		Up arrow key; Volume increase
7	8	SEI	Press to enter the selected menu item and
	0	011	edit the setting
10	9		Left/Right key; Decrease/increase parameter
10	Ŭ		value of control bar.
11 12	10		Down arrow key; Volume decrease
13	11	<b>▲</b>	Press to rewind during video playback
	12		Press to fast forward during video playback
	13		Press to play recorded video or enter the
	10		recording search menu
	14		Press to start manual recording
			Press to stop manual recording or stop the
	15		video playback. Press and hold to reset the
			VGA/HDMI output resolution to default value.
	16		Press to pause the video playback or enter
			frame-playback mode

\* Some NVRs are packed without remote controller.

# **Chapter 2 NVR Installation & Connection**

## 2.1 HDD Installation

This NVR supports two 3.5" or 2.5" SATA hard disk drives.

#### **CAUTION:** DO NOT install or remove the hard disk drive while the device power

#### is turned ON

HDD Installation:

- a) Connect the data and power cables to the two hard disk drives and place the hard disk drives on the NVR case.
- b) Carefully flip the NVR case and secure the hard disk drives to the NVR with the eight (8) screws



*Note*: Above procedures are for reference only. The practical operation may be different depending on the NVR you purchased.

## 2.2 Connection Diagram



*Note*: Above diagram is for reference only. The practical connection may be different depending on the NVR you purchased.

## 2.3 Power Supply Connection

Caution: Use only the supplied power adapter that came with the NVR

Connect one end of the power adapter to the power connector on the back of the NVR. Plug the other end of the power adapter into the wall outlet.



For some specific models, you may need to press the Power switch to turn on the power.



## **Chapter 3 NVR Common Operations**

## 3.1 Using the Supplied Mouse



#### 1. Left Button:

- Click to select menu options.
- During live viewing in split-screen view, double-click on a channel to view it in fullscreen. 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

#### 2. Right Button:

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

#### 3. 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 the Virtual Keyboard

You will see the virtual keyboard automatically on the screen when you need to enter data

Click to toggle the keyboard to

upper case and more punctuation



## 3.3 Password

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	ENGLISH 🗸	
Device ID	000000	(000000)
New Admin Name	admin	
New Admin Password		Show Passwor
Confirm Password		Show Password

Language: Choose an OSD language

**Device ID:** Input the device ID in the parentheses. Default ID is 000000. View more about Device ID on <u>5.7.1 General</u>.

New Admin name: To set your own administrator's name.

**New Admin Password:** To set your own password. The password must be a combination of 8 characters.

Confirm Password: Enter your own password again.

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

Device ID 000000	(000000)
there are a set of the	
oser admin	× [
Password •••••	Show Password

**NOTE:** If you forget your password, you will be unable to login the system, please contact your reseller to reset the password. If your NVR has a reset button in the rear panel, press and hold 3 seconds to reset password.

## Chapter 4 NVR Starting up

## 4.1 Start Wizard

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

### 4.1.1 Start Wizard

Click the Start Wizard to proceed to the next step



## 4.1.2 Network Configuration

			Wizar	d			×
Network							
Local Connection							
DHCP							
IP Address							
Subnet Mask							
Gateway							
IPv6 Address							
IPv6 Gateway							
DNS							
DNS1							
DNS2							
Port							
	Service Proto	col Internal Port	External Port	UPNP Status	Maping Stra	itegy U	
						Next	Cancel

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

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

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

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

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 should be enough just to enter the DNS1 server address.

					Wizar	d		×
Network								
DN	S2		08 008 008					
Port								
		Service	Protocol	Internal Port	External Port	UPNP Status	Maping Strategy	U
	1	Web	TCP	00080	02414	Inactive	Manual 🗸	E .
	2	Client	TCP	09000	1816	Activate	Auto 🗸	1
	3	RTSP	TCP	00554		Inactive	Auto 🗸	
	4	Https	TCP	00443		Inactive	Auto 🗸	
PPP <sub>0</sub> E								
Ena	able PPPC	DE 🔲						
Use	a							
Pas	sword				s	how Password		

## Port

Web: This is the port that you will use to log in remotely to the NVR (e.g. using the Web Client). If the default port 80 is already taken by other applications, please change it. Client: This is the port that the NVR will use to send information through (e.g. using the mobile app). If the default port 9000 is already taken by other applications, please change it. RTSP: This is the port that the NVR will be allowed to transmit real-time streaming to other device (e.g. using a streaming Media player.).

**Https:** This is the port that you will use to log in remotely to the NVR by browsers with https protocol.

Internal Port: Used for LAN connection.

External Port: Used for WAN / Internet connection.

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

### 4.1.3 Date/Time

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

## **Date and Time**

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

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

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

Time: Click to set the system time.

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

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

Time Zone: Set the correct time zone.

### NTP

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

Date/Time		
Date and Time NTP	DST	
Enable NTP		
Server Address	pool.ntp.org	~
	Update Now	

Check the "NTP" box, and select the NTP server.

### DST

DST stands for Daylight Savings Time.

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

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

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

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

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

### 4.1.4 IP Camera

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

For PoE NVR, the IP camera will get online automatically if the IP camera is connected to the PoE port on the NVR rear panel.

			Wizar	i				>
IP Camera								
No.	IP Address/Domain	Port	Ν		Channel	Edit	State	IP Addres
				POE	CH1	1		
				POE	CH2	ø		
					CH3	1		
					CH4			
					CH5	1		
			_		CH6	1		
			-		CH7			
					CH8	1		
					CH9	1		
					CH10	1		
					CH11			
					CH12			
					CH13			
Search .								
					Previous	Next	C	ancel

Check more in 5.1.3.1 PoE NVR Connection

#### **USER MANUAL**

For Non-PoE	NVR, you n	eed to	o add the I	P ca	amei	ras f	rom LA	N a	nd/o	r Intei	rnet manually.	
				W	izaro	d						×
IP Camera												
No. IP A	ddress/Domain	Port	Manufacturer				Channel		Edit	State	IP Address/Domain	Sul
1 19	2.168.6.171	9988		C			IP CH1	•				
2 19	92.168.6.173	9988		0			IP CH2	0				
3 19	2.168.6.152	9988		C			IP CH3	0				
4 19	2.168.6.162	9988		C			IP CH4	(0)				
5 19	2.168.6.165	9988		0			IP CH5	0				
6 19	92.168.6.155	9988		0			IP CH6	•				
7 19	92.168.6.168	9988		C	-		IP CH7	.0				
8 19	2.168.6.153	9988		C			IP CH8	•				
9 19	2.168.6.174	9988		0			IP CH9	•				
10 19	2.168.6.172	9988		C			IP CH10	0				
11 19	92.168.6.170	9988		C			IP CH11	•				
12 19	2.168.6.169	9988		0			IP CH12	•				
13 19	92.168.6.159	9988		C								
-1												
Search												
								D				
								Previo	us	Ne	Cancel	

-

Check more in 5.1.3.2 Non-PoE NVR Connection.

#### 4.1.5 Disk

			Wizard			×
Disk						
No. 🛩	Serial No.	Edit	Model	Firmware	Туре	State
1	WD-WCAV93VZ0RHX		WDC WD5000AVDS-73U7B1	01.00A01	RW	Norm:
Overwrite	Auto 🗸	Format HD	D Add NetHDD			

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

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

	Ade	d NetHDD	
Mounting type	NFS	~	
Server IP	000.000.000.000		
Directory Name			
Disk size	Default		GB

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

### 4.1.6 Resolution

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

1280x1024	~
Apply	
	1280x1024 Apply

### 4.1.7 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	RSV1907010420595		
Local Connection			
IP Address	192.168.6.28	200	
Subnet Mask	255.255.255.0	告述词	
Port		EIX-SMICH	
Web Port	80		
Client Port	9000		

### 4.1.8 Summary

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

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

Summary	
System	
Resolution	1920x1080
Date/Time	04/10/2017 16:18:17, GMT+08:00
NTP	OFF
DST	OFF
Network	
DHCP	ON
IP Address	192.168.6.28
Subnet Mask	255.255.255.0
Gateway	192.168.6.1
DNS1	192.168.1.1
DNS2	8.8.8.8
Don't show this window next tim	e.

Camera Title	Status Ic	ons
1	+	
A-CH1	A-CH2	A-CH4 ● ★ ◀
A-CHE B D D D Q Q D A A A A A A A A A A A A A A	A-CH6	CH8 VIDEO LOSS
admin  Search  Setup  Lock Screen  Start Menu	+ No Camera	+ No Camera
Task N	enu Bar	System Date & Time

## 4.2 Live View Screen Overview

#### **Status Icons**

- This indicates that the NVR is currently recording.
- This icon appears when the camera has detected motion.
- ┽ The icon indicates that the external I/O alarm device is triggered
- S This icon indicates that the HDD is in error to work
- D This icon indicates the HDD is unformatted
- E This icon indicates the HDD is full.
- It is icon indicates the HDD is read-only.
- **VIDEO LOSS:** The analog camera is disconnected.
- No Camera: IP camera is disconnected.
- + Click to open Quick Add menu to add IP camera
- Click to edit current IP camera

## 4.2.1 Camera Quick Toolbar

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

### ឌ₀⊡₽₽₽₽₽₽₽₽

Click to manually record the channel immediately. If the manually recording is in process,

the icon will be in red color. Click one more time to stop manual record.

Click to save a snapshot of the current camera image. Manual Capture must be enabled

to use this feature. For details on enabling Manual Capture, see 5.2.3.1 Capture.

Click to play the latest 5 minutes recording of this channel

Click to enter PTZ control panel

 $igodol _{igodol }$  Click to zoom-in the channel. When the igodol icon appears, press and hold the left button of

your mouse to drag the area you want to zoom in.

😥 Click to adjust the image color of the channel. You can adjust the HUE, BRIGHT,

CONTRAST & SATURATION of the image.

10 switch the live view video stream between HD & SD. HD is mainstream live view,

SD is substream live view.

Tag button. It supports to fast search by adding a tag in live view. See more on <u>6.6 Tag</u>
<u>Search.</u>

Al statistics. Hover the mouse upon the icon to view Al statistics when the Al function is activated in your NVR.

### 4.2.2 Taskbar

🏩 🖰 🕡 04/10/2017 16:30:28

Click to open the Start Menu

Click to choose different layout for live view



Click to choose more layouts for live view

Click to start viewing channels in a sequence. You're able to set the sequence display

mode on 5.7.1.3 Output Configuration

Quick playback. You can choose to play the latest recording for all channels from the

beginning of the day, or you can choose the playback from the latest 5s, 10s, 30s, 1Min, 5Min.

Click to adjust audio volume

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

🔄 Click to switch among real-time, balanced, or smooth view. The view effect modes

affect only the live view video quality by bitrate and frame rate but do not affect the recording quality.

To start or stop Manual Record and Manual Alarm.



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

A This icon will appear if the network is disconnected.

## 4.2.3 Start Menu

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



### 4.2.3.1 Unlock and Lock Screen



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

If necessary, you can also lock the screen operation manually. To do so, go to Star 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.

### 4.2.3.2 Shutdown



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

	Shutdown	$\times$	Longuage	THOUGH		
ella	What do you want the computer to o	to?	Device ID User	admin	~	(000000)
$\bigcirc$	C Reboot		Password			Show Password
	OK Cancel				Login	

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

## **Chapter 5 NVR System Setup**

You are able to configure the NVR for Channel, Record, Alarm, Network, Device & System

from Start Menu → Setup.

No Camera		No Camera	No Camera	No Camera
E F F	Channel Live Channel Live Image Control Video Cover i Motion PIR Deterrence Intelligent	Record Encode Record Capture	Alarm Motion PIR Intelligent PTZ Linkage Exception Alarm Schedule Voice Prompts	Al Setup Recognition Alarm Statistics
	Network General DDNS Email FTP IP FILTER Voice Assistant Platform Access	Device Disk Cloud	System General Multi-User Maintennance Pic Renera Mantain Information	Al Scenario Cross Counting Face Attendance
No Camera		No Camera 03/01/2020 <i>1</i>	No Camera	No Camera

## 5.1 Channel

In this section, you are allowed to configure the camera connection, live view display, manage IP cameras, adjust IP camera's image, PTZ setup, Video Cover, Motion, and more.

Setup Channel	Record Alarm Al Network	Device System	
	Channel Config Wireless Camera	IP Channels Protocol Manage POE Pov	ver
∲ Live	Channel	Camera	
Image Control	CH1	Digital	~
	CH2	Digital	~
♥ PTZ	CH3	Digital	~
Video Cover	CH4	Digital	
	CH5	Digital	~
Motion	CH6	Digital	~
PIR	CH7	Digital	~
	CH8	Digital	~
Deterrence	CH9	Digital	~
👳 Intelligent	CH10	Digital	~
	CH11	Digital	~
	CH12	Digital	*
	CH13	Digital	~

## 5.1.1 Channel

### 5.1.1.1 Channel Config

This menu doesn't appear in all NVRs, which only appears when your NVR supports to connect wireless cameras. Maximum 4 wireless IP cameras are allowed to connected to the NVR.

Click the drop-down arrow next to the channel ID and choose the mode. Choose "Digital" if you're using a wired IP camera, chose "Wireless" on the contrary if you want to connect a wireless camera. NVR will be rebooted when the digital mode and wireless mode is exchanged and applied.

01110	Digital	
CH14	Digital	~
CH15	Digital	~
CH16	Wireless	~
CH17	Wireless	>
CH18	Wireless	~
CH19	Wireless	~
CH20	Digital	~
CH21	Digital	>
CH22	Digital	*
CH23	Digital	>

### 5.1.1.2 Wireless Camera

Setup	Channel	Record Alarm	I Al Net	work Device Sy	stem						
		Channel Config	Wireless C	amera IP Channels	Protoc	ol Manage POE Power					
Live		Channel	Pair State	Post Recording		Camera Version	Battery	Pair	Activate	Switch	
Image Control		W CH1	Paired	Continuous	~	V1.01.056_5.4a	96%	*	•	ON	~
		W CH2	Paired	30 s	~	V1.01.056_5.2a	55%	*		ON	~
♥ PTZ		W CH3	Paired	30 s	~	V1.01.056_5.3a	48%	2	•	ON	~
Video Cover		W CH4	Not Paired					4			
Motion											

You can configure the connection of compatible wireless IP cameras in this page which is disappeared if none of the channels is set to Wireless mode in the Channel Config page.

Click Pair 🚣 icon, and then click the camera's pairing button to do pairing.

Click Activate > icon to activate the camera and check the camera image.

Channel: Wireless camera name

Pair State: Paired & Not Paired

**Post Recording:** You can set how long after an event occurs that the NVR will continue to record. Options include 10 seconds, 20 seconds and 30 seconds. If your wireless camera is powered by an external DC adapter, a "Continuous" option will be available to choose for continuous recording.

Camera Version: Firmware version of wireless camera.Battery: Remaining power of the camera battery.Switch: To turn on of turn off the wireless camera.

## 5.1.1.3 IP Channels

Setup Channe	Record Alarm Al Net	vork Device Sy	stem			• 04/22/2021 11:23:52	×
Channel	Channel Config Wireless C	amera IP Channels	Protocol Manage	POE Power			
O Live	No. Edit IP Address/Domai	n 🔨 Port 🛛 M	lanufacturer	Device Type	MAC Address Software Version		
2010/00/00/00/00	1 1 172.20.19.11	9000		N5208EN	88-B2-37-6C-69-DE V8.1.0-20210413		
Image Control	2 📝 172.20.19.13	9000		IP CAMERA	00-23-63-78-AA-06 V4.33.5.2_200605		
PTZ	3 📝 172.20.19.13	2 9000		IP CAMERA	00-23-63-7C-30-D3 V10.35.7.0_201114		
	4 📝 172.20.31.52	80 HIKVISI	ON DS-IPC-B12H-I		10-12-FB-1C-0A-27		
Video Cover	5 📝 172.20.31.53	9000		IP CAMERA	00-23-63-7C-30-9C V12.45.7.0_210122		
Motion	6 172.20.31.54	9000		N5432P	88-C9-64-4A-3B-06 V8.1.0-20201105		
	7 172.20.31.55	9000		N5064N	88-8F-68-8B-49-51 V8.1.0-20210419		
PIR	8 📝 172.20.31.56		ONVIF		00-18-AE-B6-50-D8		
Deterrence	9 172.20.31.59	9000		Panda NVR 32.MT	00-23-63-6E-97-97 V8.1.0-20190319		
	10 📝 172.20.31.60	9000	REDLINE	RS-CH258H1ND-DF-A2812PW	00-26-63-25-77-05 V15.25.7.0_210303		
Intelligent	Search Add	Add All					
	Channel Switch Mode ~	POE Mode 🗸	Edit State IP	Address/Domain Subnet Mask Port	Manufacturer Device Type	Protocol MAC Address	
	IP CH1 Manual	Auto		72.20.52.57 255.255.255.0 9000	RS-CH281M8ND-DF-WA2812PW	Private 00-23-63-A5-1E-2D	
	IP CH2 Manual	Auto 📠	17 🖸 🌈 17	72.20.52.27 255.255.255.0 9000	IP CAMERA	Private 00-23-63-6D-0C-B6	
	IP CH3 Manual	Auto 💼	17 🖸 🎽 🖉	72.20.52.28 255.255.255.0 9988	SNC-99445BF IP CAMERA	Private 00-16-6C-FC-C7-39	
	IP CH4 Manual	Auto 🥫	17 🖸 🎽 🖉	72.20.52.29 255.255.255.0 9000	IP CAMERA	Private 00-23-63-6D-0D-75	
	IP CH5 Manual	Auto		72.20.52.30 255.255.255.0 9989	IPCAMERA	Private 00-23-63-6B-C4-AC	
	IP CH6 Manual	Auto 💼		72.20.52.31 255.255.255.0 9988	IP CAMERA	Private 00-23-63-6D-0A-1E	
	IP CH7 Manual	Auto 👘	17 🖸 🎼 17	72.20.52.32 255.255.255.0 9988	IP CAMERA	Private 00-16-6C-F7-A5-39	
	IP CH8 Manual	Auto 🥫	🧪 🖪 📝 17	72.20.52.32 255.255.255.0 9988	IP CAMERA	Private 00-23-63-6D-0A-2C	
	IP CH9 Manual	Auto 💼		72.20.52.33 255.255.255.0 9988	SNC-99445BF IP CAMERA	Private 00-16-6C-FC-C7-57	
	IP CH10 Manual	Auto 🧰		72.20.52.34 255.255.255.0 9000	IP CAMERA	Private 00-23-63-6D-0A-3E	
	Auto Assign IP to Camera(s)	nannel Delete Default	Password		Total Band Width:	320Mbps, Used Band Width:65.062	Mbps

In this section, you are able to configure the connection of your wired IP cameras. If your NVR comes with PoE ports, please go to 5.1.3.1 PoE NVR Connection, if your NVR comes without PoE port, please go to 5.1.3.2. Non-PoE Connection

#### 5.1.1.3.1 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.

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.

PoE not only provides power over ethernet but only supports plug & play connection for IP cameras.

				and the second second
CH1	Auto	Auto	ø	123
CH2	Auto	Auto		
CH3	Auto	Auto		
CH4	Auto	Auto		
CH5	Auto	Auto		
CH6	Auto	Auto		
CH7	Auto	Auto		
CH8	Auto	Auto	1	
CH9	Auto	Auto		

**Switch Mode: Auto** mode supports Plug & Play connection via PoE port. If you want to add camera(s) manually then change the mode to **Manual**.

**Switch Mode: Auto** mode limits the maximum bandwidth to 100Mbps, **EPOE** mode limits the maximum bandwidth to 10Mbps. 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.

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

	Edit Connection In	ormation		×
Channel				
Switch Mode	Manual	~		
POE Mode	Auto	~		
Alias	CH1			
IP Address/Domain	192.168.254.151			
Subnet Mask	255.255.255.000			
Port	9000			
Protocol	Private	~		
User Name	admin			
Password	admin		Show Passw	ord
			OK	Cancel
			UK	Gander

**Default Password:** To configure the default user name and password of Private, Onvif and RTSP protocol connection. Default password is "admin".

Set Th	e Protocol Def	1	×	
Protocol	User Name		Password	
Private	admin		•••••	
Onvif	admin		•••••	
RTSP	admin		••••	
	Default	Save	Cancel	

#### **USER MANUAL**

#### State: Show the connection status of the camera.

		Add	Add All			
	Channel	Switch Mode ~	POE Mode 🗸	Edit	State	IP Address/Domain
	CH1	Auto	Auto			192.168.254.151
UE.	CH2	Auto	Auto	1	D	192.168.254.152
Œ	CH3	Auto	Auto	, e*		192.168.254.153
	CH4	Auto	Auto			192.168.254.154
	CHS	Acres 1	8708×			

lcon with green background color: camera is well-connected.

Icon with green grey color: failed to connect camera. Click the icon to show 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.

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.

#### 5.1.1.3.1.1 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 cameras.
- 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 <u>5.5.1.1 Network → General</u>.
- 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.
- 6. Check the connection status: if the icon is be then the camera is well-connected; if the icon is be then the camera is failed to connect. Click the icon to check the failure reason. If the reason is "User name or password error", that means the default user name and password is not same with the camera's. Click the edit icon state to modify the user name and password which is same with the camera's.

	Edit Connection Information	×
Channel		
Switch Mode	Auto	
POE Mode	Auto 🗸	
Alias	CH2	
IP Address/Domain	10.10.25.152	
Subnet Mask	000.000.000	
Port	80	
Protocol	Onvif 🗸	
User Name	admin	
Password	••••• Show Password	
	1 2 3 4 5 6 7 8 9 0 🔶	
	qwertyuiop[]\ Cancel	
Auto Auto	asdfghjkl; '	
Auto Auto		

#### 5.1.1.3.1.2 Steps to Connect External Cameras in the LAN

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

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

#### **USER MANUAL**

Channel	Switch Mode *	POF 11-1-
CH1	Auto	Auto
CH2	Auto	Manual
СНЗ	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.

	Edit Conne	ction Information
Channel	СНБ	
Switch Mode	Auto	~
POF Mode	Auto	
	Manual	×
Alias		7

#### 5.1.1.3.1.2.1 Add Individual Camera in the LAN

1. Click Search button, all available cameras in the LAN will be displayed.

	No.	Edit	IP Address/Domain 🔺	Port	Manufacturer	Device Type	MAC Address	Software Version	
			192.168.5.122	9000		N5316N	00-23-63-70-85-96	V8.1.0-20210224	
			192.168.5.127	80	IPC		00-23-63-78-C1-2F		
			192.168.5.142	9000		IP CAMERA	00-23-63-75-B6-F6	V3.31.50.2_200722	
Search	1	Add	Add All						

Or click the Add icon 😯 in the channel list to add a camera to an individual channel. Click **Search** button, all available cameras in the LAN will be displayed.

Channel	Switch Mode ~	POE Mode ✓		Edit	State	
CH1	Manual	Auto	0			
CH2	Manual	Auto	0	1		

2. Select the camera you want to connect and then click Add button. Input the user name and password of the camera and then click Add button.

			Ad	ld IP Camera	3		>
No.		IP Address/Domain	Port	Manufacturer	Device Type	MAC Address	Software V
	+	192.168.5.122	9000		N5316N	00-23-63-70-85-96	V8.1.0-202
2		192.168.5.127	80	IPC		00-23-63-78-C1-2F	
3		192.168.5.142	9000		IP CAMERA	00-23-63-75-B6-F6	V3.31.50.2_
IP Address/Do	omain	192.168.5.122					
Alias		CH5					
Port		9000					
Protocol		Private			~		
User Name		admin					
Password		•••••				Show Passwor	d
Bind channe	ł	CH5			~		

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

**Port:** Camera communication port. Do not change the number if you're not a professional. **Protocol:** To select the connection protocol.

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

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

Channel	Switch Mode ~	POE Mode 🗸		Edit	State		IP Address/Domain	Subnet Mask	Port	Manufacturer
CH1	Manual	Auto			D	1	192.168.5.127	255.255.255.0	80	HD_PRO
CH2	Manual	Auto	0							

#### 5.1.1.3.1.2.2 Add Multiplex Cameras in the LAN

1. Click **Search** button, all available cameras in the LAN will be displayed.

	No.	Edit	IP Address/Domain 🔺	Port	Manufacturer	Device Type	MAC Address	Software Version	
			192.168.5.122	9000		N5316N	00-23-63-70-85-96	V8.1.0-20210224	
			192.168.5.127	80	IPC		00-23-63-78-C1-2F		
			192.168.5.142	9000		IP CAMERA	00-23-63-75-B6-F6	V3.31.50.2_200722	
Searc	h	Add	Add All						

Or click Add All button, the NVR will search & add all available cameras in the LAN.

2. 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.

	ŀ	Add IP Camera		×
Port			Auto	
Protocol		× .	🖌 Auto	
User Name	Default			
Password	Default		Show Password	
			Add	Cancel
3. The added cameras will be displayed in the channel list.

Channel	Switch Mode ~	POE Mode ~		Edit	State	IP Address/Domain	Subnet Mask	
CH1	Manual	Auto			Þ	192.168.5.122-1	255.255.255.0	
CH2	Manual	Auto				192.168.5.127	255.255.255.0	
CH3	Manual	Auto				192.168.5.142	255.255.255.0	
CH4	Manual	Auto	0					
CH5	Manual	Auto	0					
CH6	Manual	Auto	0					
CH7	Manual	Auto	0					
CH8	Manual	Auto	0					
CH9	Manual	Auto	0					

#### 5.1.1.3.1.2.3 Add Cameras from Other NVR in the LAN

The NVR allows to add cameras from other NVR in the local network.

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

No.	Edit	IP Address/Domain 🔺	Port	Manufacturer	Device Type	MAC Address	Software Version
	+	192.168.5.122	9000		N5316N	00-23-63-70-85-96	V8.1.0-20210224
2		192.168.5.127	80	IPC		00-23-63-78-C1-2F	
		192.168.5.142	9000		IP CAMERA	00-23-63-75-B6-F6	V3.31.50.2_200722

2. Click the edit icon + and select the camera channels one by one or check the box **m** to select all cameras. Click icon to go back to search list.



	No.	Edit	IP Address/Domain 🔺	Port	Manufacturer	Device Type	MAC Address	Software Version	
	1	+	192.168.5.122	9000		N5316N	00-23-63-70-85-96	V8.1.0-20210224	
Sa	arch	Add	Add All						
Sa	arch	Add	Add All						

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.

		Add IP Camera	×
Port		🗹 AL	uto
Protocol		🗸 🛃 At	uto
User Name	admin		
Password	•••••	St	how Password
			Add Cancel

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

Channel	Switch Mode ~	POE Mode 🗸		Edit	State	IP Address/Domain	Subnet Mask	Port
CH1	Manual	Auto				192.168.5.122-1	255.255.255.0	9000
CH2	Manual	Auto				192.168.5.122-2	255.255.255.0	9000
CH3	Manuai	Auto			23	192.168.5.122-3	255.255.255.0	9000
CH4	Manual	Auto				192.168.5.122-4	255.255.255.0	9000
CH5	Manual	Auto				192.168.5.122-5	255.255.255.0	9000
CH6	Manual	Auto				192.168.5.122-6	255.255.255.0	9000
CH7	Manual	Auto	0					
CH8	Manual	Auto	0					

#### 5.1.1.3.1.3Add 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 sear	ch page.
---------------------------------	----------

	No.	Edit	IP Addre	ss/Domain	Port	Manufacturer	De
Searc	h	Add	N	Add All			
			7				

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

		Ad	d IP Camera	1		×
No.	IP Address/Domain	Port	Manufacturer	Device Type	MAC Address	Software Version
IP Address/Domain	127 89 64 231					
Alias	CH7					
Port	9968					
Protocol	Private			~		
User Name	admin					
Password	•••••				Show Pa:	ssword
Bind channel	CH7			~		
Search	Default Password				Add	Cancel

#### 5.1.1.3.2 Non-PoE NVR Connection

For Non-PoE NVR connection, please refer to 5.1.3.1.2 Steps to Connect External Cameras

From LAN.

### 5.1.1.4 POE Power

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

2 28W 4 68W 2 43W 2 43W 2 62W 3 42W 1 -8 m m m m m m m m m m m m m m m m m m	P Channels POE Pow	
Actual power: 17.86W surplus power: 138.14W Note: 1. The rated power of the POE port of the device is 156W.	2.28W 4.68W 1 - 8	2 43W 2 43W 2 52W 3 42W
Actual power: 17.85W surplus power: 138:14W Note: 1. The meta power of the POE port of the device is 156W.		115
surplus power: 138.14W Note: 1. The nated power of the POE point of the device is 156W. The manual downed downed over the POE point of the device is 156W.	Actual power: 17.85W	
Note: 1. The rated power of the POE port of the device is 156W. 3. The research exemptions for each POE part is 0, 12W.	surplus power: 138.14W	
2. The same of normal work for each DOE each is 0, 1231	Note: 1. The rated power of the I	POE port of the device is 156W.
2. The lange of normal work to each POCE prists 0 = 13V. 3 POC actual power than the table (power, in descending order of POC port closed until actual power below the rated power.	2. The range of normal w	ark for each POE port is 0–13W. The cated reverse in decreating order of POE port closed until actual rever before the rated rever

# 5.1.2 Live

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

Setup Channel	Record Alarm	Al Netv	vork Device	System							O9/08/202	1 16:11:27	×
Channel	Live												
• Live		Setup		Channel Name	Show Name 🗸	Date Format				Show Time 🗸	Refresh Rate		
Image Control	CH1	٢		front door		MM/DD/YYYY	×	24 Hour	×		50Hz	~	
⊕ PT7	CH2	۲		back door		MM/DD/YYYY	~	24 Hour	×	<b>Z</b>	60Hz	*	
· · · · · ·				Camera		MM/DD/YYYY		24 Hour		<b>N</b>			
Video Cover				street		MM/DD/YYYY		24 Hour					
Motion				Camera	×	MM/DD/YYYY		24 Hour		2			
	CH6			Camera		MM/DD/YYYY		24 Hour		Y	60Hz		
© PIR													
Deterrence													
Intelligent													

**Convert**: To hide the camera images in live view. If the covert is opened, only live view images will be hidden. Recording image won't be affected.

Channel Name: Give a name to the camera

**Show Name**: To display the channel name in the images or not. It affects both live view & recording images.

Date Format: To choose a date format.

Time Format: To choose a time format.

**Show Time**: To display date and time in the images or not. It affects both live view & recording images.

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



#### Setup: Click 🙆 icon for more setup.

# 5.1.3 Image Control

This menu allows you to control image settings for supported IP cameras. Onvif IP camera might be not supported to configure.

Setup Channel	Record /	Alarm	Al Network	Device S	ystem								( <u>)</u>	9/09/2021 15	43:55 🗙
Channel	Image Co	ntrol													
0 Live		Setup	Image Setting	IR-CUT Mode	IR-CUT Delay		Angle Flip	Angle Trad		3D Noise Reduction	DWDR		White Balance	Time Exposure	Defog Level
Image Control	CH1	0		GPIO Auto		OFF	OFF	180	OFF	Auto	OFF	Middle	Auto	Auto	Disable
⊕ PT7				GPIO Auto						Auto			Auto	Auto	Disable
V PIZ				GPIO Auto						Disable			Auto	Auto	Disable
Video Cover				GPIO Auto						Disable			Auto	Auto	Disable
Motion				GPIO Auto						Disable			Auto	Auto	Disable
PIR	CH6	۲		GPIO Auto	2	OFF	OFF	180	OFF	Auto	OFF		Auto	Auto	Disable

Setup: Click 🙆 icon into the setup page.

#### **USER MANUAL**

Channel	CH6	×	→ Choose a channel to
IR-CUT Mode	GPIO Auto	× -	Select the desired built-in IR cut filter mode
IR-CUT Delay	•	2	Set the delay time of IR-CUT
Supplement Light	Auto	~	Set the IR LED / Supplement lights
Lens Flip	□		→ Flip vertical
Angle Flip			── Flip horizontal
Corridor Mode			→ To enable the corridor mode
Angle Trad	180	× _	→ Rotation 180°
Back Light	Disable	× -	→ To enable or disable back light
3D Noise Reduction	Auto	× -	→ To enable or disable 3D noise
WDR	Enable	~	→ To enable or disable
Level		128	→ Set the WDR
HLC	Disable	~	To enable or disable the high light
AGC		64	Automatic Gain
White Balance	Auto	~	→ Configure white balance
Shutter	Auto	× -	→ Set the shutter
Time Exposure	1/30	~	Choose the exposure time of the
Defog Mode	Disable	<b>×</b>	Use in foggy environments to improve the video
	Default		→ Load default values

**IR-CUT Mode:** If you want the camera to switch the image between colorful and black & white automatically, then choose "**GPIO Auto**"; If you want the camera to record colorful images all the time, then choose "**Color Mode**"; If you want the camera to record black & white images all the time, then choose "**Black White Mode**"; If you want the camera to record black & white images in a certain period, then choose "**Schedule(B/W)**", and then set the start and end time.

**WDR/DWDR:** Enable to allow automatically adjust the brightness and contrast of the video when shooting in the darkness with bright light sources.

IR-LED / Supplement Light: Set the IR/Supplement lights on/off.

# 5.1.4 PTZ

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

Setup	Channel	Record Alarm	Al Networ	k D	evice Syste	m									
Ochannel		PTZ													
Dive		Channel	Signal Ty	08 V	Protocol		Baudrate		DataBit		StopBit		Parity		Address
Image Control		CH2	Analog	~	Pelco-D	~	9600	~	8	~	1	×	None	×	2
• PTZ		CH6	Digital	×	Pelco-D	~	9600	~	В	*	d)	~	None	*	6

Channel: Channel name

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

Below items need to be set 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-capable camera, to configure this setting.

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

# 5.1.5 Video Cover

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



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

# 5.1.6 Motion

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



Switch: Enable or disable motion detection.

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

Setup: Click 🙆 icon into the setup page.



#### **Motion Detection Area:**

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

If your IP camera supports SMD (Smart Motion Detection), you can choose the camera to alert only when the camera detects **Pedestrian** (people) and/or **Vehicle**.

# 5.1.7 PIR

This menu allows you to configure PIR parameters. When PIR 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: Click 🙆 icon into the setup page.



#### **PIR Detection Area:**

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

Switch: Enable or disable PIR detection.

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

# 5.1.8 Deterrence

This menu allows you to configure the deterrence parameters.

🞯 Setu	0 Channel	Record	Alarm Al	Network [	Device System						🕒 <del>19/03</del>	/2021 11:39:42	×
Channel		Deterr	ence										
Live								Light 🗸					
Image Cont			CH1	٢	٢	4	~		30		10		
Video Cover													
Motion			CH3	٢	٢								
									60				
© PIR													
Deterrence													
Intelligent													

Channel: channel name.

Setup: Click 😳 icon into the setup page.



Light Switch: Enable or disable light warning. Siren Switch: Enable or disable siren warning.

#### **Deterrence Area:**

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

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

Schedule: click 🙆 icon to open the configure the schedule.



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

# 5.1.9 Intelligent Analysis

The optional intelligent Analysis functions, including PID (Perimeter Intrusion Detection), LCD (Line Crossing Detection), SOD (Stationary Object Detection), PD (Pedestrian Detection), FD (Face Detection), and CC (Cross Counting), SOD (Sound Detection) and Video Tampering. Note: Intelligent Analysis function is not AI function.

Setup Channel	Record Alarm Al Network D	evice System			<b>()</b> 19/03/2021 10:
© Channel	PID LCD PD SOD FD CO	Sound Detection Video Tampering Sc	hedule Cross Counting Statistics		
Live					
Image Control	Channel	Setup	Switch	OFF	Sensitivity V
w image Control	CH2		V		~
Video Cover				ON	
Ø Motion					
• PIR					
Deterrence					
Intelligent					

# 5.1.9.1 PID (Perimeter Intrusion Detection)

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

1	PID	LCD	PD	SOD	FD	СС	Sound Detection	Video Tampering	Scheo	dule	Cross Counting Statistics				
			c	hannel				Setup			Switch			Sensitivity	
				CH2				0				OF	F		~
												ON	1		

Switch: Check the box to enable PID function.

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

Channel CH1 A Rule Number 1 Rule Switch Rule Type A.>B Remove Remove All Save A

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

Channel: Select the channel you want to configure

Rule Number: Max. 4 rules available.

Rule Switch: Activate or inactivate the rule

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

 $A \rightarrow B$ : 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.

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

#### Notes:

- 1) The perimeter shall not be too close to the edges/corners of the camera picture, since it may fail to trigger the detection when the target pass through the edges/corners.
- 2) The shape of the regions shall not be too narrow/small, since it may fail to trigger the detection when the target passes through outside the perimeter.





#### 5.1.9.1.1 Alarm Setup

Click Alarm icon to configure alarm settings.

#### **USER MANUAL**



In the page, you can configure the alarm action when an alert is triggered.



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

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

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

**Record**: To choose the record channel(s) when a PID alert happens.

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

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

**Send Email:** If an alarm is triggered, an Email will be sent to your preset email account. **FTP Picture Upload**: To upload alarm images to FTP server when motion is detected. To enable FTP, please view.

**FTP Video Upload**: To upload alarm video to FTP server when motion is detected. To enable FTP, please view <u>5.4.4 FTP</u>.

**Picture to Cloud:** To upload alarm images to cloud server when motion is detected. To enable Cloud, please view 5.6.2 Cloud.

**Video to Cloud:** To upload alarm video to Cloud server when motion is detected. To enable Cloud, please view <u>5.6.2 Cloud.</u>

**Full Screen**: If this function is enabled and an alert is detected in a channel, you will see its full screen images in live view.

**Voice Prompts**: If your NVR connects with a speaker, you can select an customized alert voice when the alarm happens. See how to add customized alert voice on <u>5.3.8 Voice</u> <u>Prompts</u>

Channel	<b>V</b>	ocal 🚺				
Voice Prompts		Alarm-Siren	~	00:00:00	23:59:59	(\$
	Θ	None	~	00:00:00	23:59:59	40
	÷	None Dog-Barking danger zone,please leave				
		leave Alarm-Siren				

### 5.1.9.2 LCD (Line Crossing Detection)

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

Setup	Channel	Record	Alam		Network	Dev	ice System				(C) 19/03/	15 X
Channel			LCD					Video Tampering				
© Live												
									Switch		ivity	
Image Control				CH:	2			۲		OFF	~	
Video Cover										ON		
Motion												
PIR												
Deterrence												
Intelligent												

Switch: Check the box to enable LCD 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 line in the camera image.



Channel: Select the channel you want to configure

Rule Number: Max. 4 rules available.

Rule Switch: Activate or inactivate the rule

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

3. Choose a **Rule Type**.

 $A \rightarrow B$ : NVR will only detect the action from side A to side B;

 $B \rightarrow A$ : NVR will only detect the action from side B to side A;

 $A \leftarrow \Rightarrow B$ : NVR will detect the action from either side B to side A or side A to side B.

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

#### Note:

1) The lines shall not be too close to the edges of the camera picture, to avoid any failure to trigger an alarm when the target cross through it.

2) The lines shall not be set too short, to avoid any failure to trigger an alarm when the target passes outside it.



For Alarm setup, please refer to 5.1.9.1.1 Alarm Setup

### 5.1.9.3 SOD (Stationary Object Detection)

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

#### **USER MANUAL**

🞯 Setup 🔄	Channel	Record	Alam	n Al	Netwo	k Devi	ice System					5	19/03/202	1 10:32:51	х
Channel					SOD FI			Video Tampering	Schedu						
Image Control					nannel			Setup		Switch	OFF	Sensitivity			
					CH1			0				-			
Video Cover											UN				
Motion															
Deterrence															
Motion PIR Deterrence Intelligent															

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.

		Į.	nside:	0 Available:	50	
Channel	CH5	*		1.Legacy		
Rule Number	1	~				
Rule Switch	0					
Rule Type	Legacy	~	Í			
Dynamic Marking	Enable	~				
	Remove					
	Remove All		Í			
	Save					

Channel: Select the channel you want to configure

Rule Number: Max. 4 rules available.

Rule Switch: Activate or inactivate the rule

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

Legacy: NVR will only detect the left-over objects; Lost: NVR will only detect the lost objects;

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

- 4. Use your mouse to click 4 points in the camera picture to draw a virtual region. The sharp of the region should be a convex polygon. Concave polygon will be not able to save.
- 5. Click **Save** to save your settings.
- 6. If you want to adjust the size of the region, click the red box in the region, the borders of the region will be changed to red color. Long press the left button of your mouse to move

the whole region, or drag the corners to resize the region.

7. If you want to remove one of the regions from the camera picture, click the red box in the region and then click **Remove** button. Click **Remove All** will delete all regions.

#### 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.



For Alarm setup, please refer to 5.1.9.1.1 Alarm Setup

### 5.1.9.4 FD (Face Detection)

Face Detection function detects the faces of moving people appear in a pre-defined region.

୍ତ	Setup Channel	Re	ecord A	arm Al	Netwo	rk Devic	e S	ystem					
•	Channel		PID LCD	PD & VD	SOD	FD CC	Sou	nd Detection	Video T	ampering	Schedule	Cross Counting Statistics	
	Live												
			CI	annel		Setup		Switch	~				
0	Image Control			CH7		۲							
Φ	РТΖ												
ф	Video Cover												
•	Motion												
Φ	PIR												
•	Deterrence												
٠							k						

**Switch:** Check the box to enable FD function. Click **Setup** icon 🙆 to draw a virtual region in the camera image.

Channel	СН7	~		
Rule Number	1	~		
Rule Switch				
Rule Type	Normal	~		
	Remove			
	Remove All			
	Save			

Channel: Select the channel you want to configure

Rule Switch: Activate or inactivate the rule

- 1. To enable the detection in **Rule Switch**.
- 2. Use your mouse to click 4 points in the camera picture to draw a virtual region. The sharp of the region should be a convex polygon. Concave polygon will be not able to save.
- 3. Click **Save** to save your settings.
- 4. 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.
- 5. If you want to remove one of the regions from the camera picture, click the red box in the region and then click **Remove** button. Click **Remove All** will delete all regions.

For Alarm setup, please refer to 5.1.9.1.1 Alarm Setup

# 5.1.9.5 CC (Cross Counting Detection)

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

#### **USER MANUAL**

6	Setup Channel	Recor	d Alarm	AI	Netwo	rk	Device	Syst	em			
	Channel	PID	LCD PI	0 & VD	SOD	FD	cc	Sound	Detecti	on Video	Tamperin	g Sched
	Live				C-t					Constant of		
	Image Control		Channel CH7		Setup		Sw		~	1	~	
	РТΖ											
	Video Cover											
	Motion											
	PIR											
	Deterrence											

Switch: Check the box to enable CC 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 line in the camera image.

Channel	сн7	~	
Rule Number	1	~	
Rule Switch			
Rule Type	A->B	~	
	Remove		B ^
	Remove All		
	Sava		
	Save		

Channel: Select the channel you want to configure Rule Number: Max. 4 rules available.

Rule Switch: Activate or inactivate the rule

- 1. To enable the detection in **Rule Switch**.
- 2. Choose a Rule Type.

 $A \rightarrow B$ : If a target 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.

 $B \xrightarrow{>} A$ : If a target object is detected moving from side B to side A, the system will count 1 to enter number; if a target object is detected moving from side A to side B, the system will count 1 to exit number.

- 3. Use your mouse to click 2 points in the camera picture to draw a virtual line.
- 4. Click **Save** to save your settings.
- 5. 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.
- 6. If you want to remove one of the lines from the camera picture, click the red box in the line and then click **Remove** button. Click **Remove** All will delete all lines.

For Alarm setup, please refer to 5.1.9.1.1 Alarm Setup

### 5.1.9.6 SD (Sound Detection)

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

🞯 Setup 🔤	hannel	Record Alarm Al Net	work Device Syste					19/03/2021 10:33:27	×
Channel			FD CC Sound Dete	ction Video Tampering	Schedule Cross C				
O Live									
Image Control		Channel	Switch V		Rise Sensitivity	Sound Intensity	Decline	Decline Sensitivity	
		CH1		Enable 🗸		50	Disable V		
Video Cover		CH2		Disable 🗸			Disable 🗸		
Motion									
PIR									
Deterrence									
Intelligent									

Switch: enable or disable sound detection.

**Rise:** enable or disable sound rise detection.

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

**Sound Intensity:** set a threshold of sound intensity, the lower value, the more sensitivity. **Decline:** enable or disable sound Decline detection.

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

For Alarm setup, please refer to 5.1.9.1.1 Alarm Setup

### 5.1.9.7 Video Tampering

0	3 Setup	Channel	Record	Alam		Netw	rork	Device	e Syster					Θ		×
•	Channel									Video Tamp	ering Sche					
© 1	Live															
					Ch	annel				Switch		Sensitivity				
© 1	Image Control				C	CH2				<b>S</b>						
¢ 1	Video Cover															
• I	Motion															
¢ I	PIR															
@ [	Deterrence															
۲																

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

Switch: Enable or disable the VD 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.

For Alarm setup, please refer to 5.1.9.1.1 Alarm Setup

## 5.1.9.8 Intelligent Schedule



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

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

# 5.1.9.9 Cross Counting Statistics

Setup Channel	Record Alarm Al Network Device System		O 19/03/2021 10:33:47	×
Channel	PID LCD PD SOD FD CC Sound Detection Video Tampering Schee	ule Cross Counting Statistics		
Live	Channel None V Date 19/03/2021 🛗 Report Type Daily Report			
Image Control	Cross Type Cross In V	Column Chart	Line Chart Search Export	
Video Cover	<sup>10</sup> r			
Motion				
PIR	8 -			
Deterrence	6 -			
Intelligent	4 -			
	2 -			
		0		_
		None		

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

# 5.2 Record

This menu allows you to configure the recording parameters.

# 5.2.1 Encode

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

Setup Channel	Record Alarm A	Network	Device Syste	m					(b) 19/	/03/202	1 10:36:4	5 ×
e Encode	Mainstream Subs	stream Mobile:										
Record	Channel		Resolution			Video Encode Typ		Bitrate Mode				× 1
© Capture	CH1	Normal	2592 x 1944		25	H.265	CBR	Predefined	4096		<b>~</b>	
		Normal	2592 x 1944			H.265	CBR	Predefined	4096			
	Total Band Width:1	28Mbps, Used Ba	and Width:10.75Mb	ps							Арр	y

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

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

Video Encode Type: H264/H.265. Some cameras might be supported MJPEG.

**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.

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

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

Audio: enable or disable audio encode.

I Frame interval: configure the I frame interval of camera. Keep it default if you're not a professional.

ETR: setting different streams for normal and alarm recording.

In the Audio section, you can define the input/output volume, and encode type of the audio.

## 5.2.2 Record

This menu allows you to configure the channel recording parameters.

### 5.2.2.1 Record

Setup Channel	Record Alarm Al Netwo	rk Device System			(b) 19/03/2021 10:37:13 ×
Encode	Record Record Schedule				
Record		Record Switch 🗸	Stream Mode	PreRecord 🗸	
© Capture	CH1		Mainstream		
	CH2		Mainstream	El .	
			Mainstream	N	
			Mainstream	N N	
	CH5	<b>M</b>	Mainstream	S.	
	CH6	<b>S</b>	Mainstream	<b>N</b>	
	CH7	<b>V</b>	Mainstream	M	
	CH8		Mainstream	<b>N</b>	
					Copy Default Apply

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

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

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

### 5.2.2.2 Record Schedule

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

Record	Record Schedule									
Channel	CH6	*								
			6							
SUN									•	Normal
MON									0	Motion
TUE									0	10
WED									•	PIR
THU										
FRI										
SAT										
							Copy	Default	Apply	
								Delault	supprj	

Channel: Select the channel to set its recording parameters.

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

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

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

**PIR**: When the time slot is marked purple, this indicates the channel records when the PIR is triggered during that time slot.

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

Click **Apply** to save your settings.

# 5.2.3 Capture

This menu allows to configure the image capture function.

### 5.2.3.1 Capture

Setup Channel	Record Alarm	Al Network [	evice System				9	19/03/2021 10	0:37:39	×
Encode	Capture Captu									
Record		Auto Capture 🗸	Stream Type 🗸							
Capture	CH1		Mainstream 💙	5 s	~	5 s 🗸 🗸				
	CH2		Mainstream 💙							
	CH3	×	Mainstream 🗸							
			Mainstream 😪			5 s 🗸 🗸				
	CH5	M	Mainstream 💙							
			Mainstream 🗸	5 s		5 s 🗸 🗸				
	CH7	<u>&gt;</u>	Mainstream 💙							
	CH8		Mainstream 🗸							
	A Digital chann							Default	Apply	

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

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

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

Alarm Interval: Time interval to capture an image when motion, IO alarm or PIR is triggered Manual Capture: Enable or disable manual capture in the channel

### 5.2.3.2 Capture Schedule

Setup Channel	Record Alarm Al Network Device System	19/03/2021 10:3	37:53 🗙
Encode	Capture Capture Schedule		
Record	Channel CH1 V		
Capture			
		<ul> <li>Normal</li> <li>Motion</li> </ul>	
		0 10	
		O PIR	
	SAT CONTRACTOR OF		
		Copy Default	Apply

Channel: Select the channel to set its capture parameters.

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

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

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

**PIR**: When the time slot is marked purple, this indicates the channel capture images when the PIR is triggered during that time slot.

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

# 5.3 Alarm

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

# 5.3.1 Motion

Setup Channel	Record Al	arm Al Networ	k D	evice Sys	tem						9	19/03/2021 10:39:14	×
Motion	Motion												
	Channei	Buzzer		Alarm Out	Latch Time			I ✓ Post Recording		Show Message 🗸	Send Email 🗸	FTP Picture Upload 🗸	F
© I/O	CH1	Disable	~	۲	10 s	~	۲	ON 30 s	~	<b>Z</b>	<b>Z</b>		
🔶 Intelligent		Disable			10 s			Record Channel				⊻	
PTZ Linkage								123456					

#### Channel: Channel name

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

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

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

**Record**: Click (icon and choose which channel(s) you want to record when an alarm is triggered.

	🛃 Re	ecord	Ch	ann	el				
1 2 3 4 5 6 7 8		2	3	4	5	6	7	8	

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

**Show Message**: Check the box to display  $\stackrel{\bigstar}{}$  icon on the live view screen when an alarm is triggered.

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

**FTP Picture Upload**: To upload alarm images to FTP server when an alarm is triggered. To enable FTP, please view.

**FTP Video Upload**: To upload alarm video to FTP server when an alarm is triggered. To enable FTP, please view <u>5.4.4 FTP</u>.

**Picture to Cloud:** To upload alarm images to Cloud server when an alarm is triggered. To enable Cloud, please view <u>5.6.2 Cloud.</u>

**Video to Cloud:** To upload alarm video to Cloud server when an alarm is triggered. To enable Cloud, please view <u>5.6.2 Cloud.</u>

**Full Screen**: If this function is enabled and an alarm is triggered in a channel, you will see its full screen images in live view.

**Voice Prompts**: If your NVR or IP camera connects with a speaker, you can select an customized alert voice when the alarm happens for different time period. See how to add customized alert voice on <u>5.3.8 Voice Prompts</u>

Channel	<b>V</b> L	ocal 🚺				
Voice Prompts		Alarm-Siren	Ŷ	00:00:00	23:59:59	4)
	Θ	None	~	00:00:00	23:59:59	40
	÷	None Dog-Barking danger zone,please leave				
		leave				
		Alarm-Siren				

## 5.3.2 PIR

This menu allows you to configure parameters of PIR Alarm.

Channel: Channel name

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

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

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

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



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

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

**Send Email**: You can let the NVR to send you an auto-email when an alarm is triggered. **FTP Picture Upload**: To upload alarm images to FTP server when an alarm is triggered. To enable FTP, please view <u>5.4.4 FTP</u>.

**FTP Video Upload**: To upload alarm video to FTP server when an alarm is triggered. To enable FTP, please view <u>5.4.4 FTP</u>.

**Picture to Cloud**: To upload alarm images to Cloud server when an alarm is triggered. To enable Cloud, please view 5.5.2 Cloud.

**Video to Cloud**: To upload alarm video to Cloud server when an alarm is triggered. To enable Cloud, please view <u>5.5.2 Cloud.</u>

**Full Screen**: If this function is enabled and an alarm is triggered in a channel, you will see its full screen images in live view.

**Voice Prompts**: If your NVR or IP camera connects with a speaker, you can select an customized alert voice when the alarm happens for different time period. See how to add customized alert voice on <u>5.3.8 Voice Prompts</u>.

Channel	<b>V</b>	ocal 📶				
Voice Prompts		Alarm-Siren	Ŷ	00:00:00	23:59:59	(4)
	Θ	None	~	00:00:00	23:59:59	40
	÷	None Dog-Barking danger zone,please leave				
		leave				
		Alarm-Siren				

# 5.3.3 I/O

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

Alarm In	Alarm Type	Buzzer	Alarm Out 🗸	Latch Time	Record 🗸	Post Reco	ording 🗸	Show Message 🗸	Send Email 🗸	Full Screen 🗸
IO-1	Normally-Open	Disable		10 s	ON	30 s		>	>	
IO-2	Normally-Open	Disable		10 s	🙆 ON	30 s				
IO-3	Normally-Open	Disable		10 s	ON	30 s		>	>	
IO-4	Normally-Open	Disable		10 s	🙆 ON	30 s		M	V	

Alarm In: I/O channel.

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

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

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

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

**Record**: Click (i) icon and choose which channel(s) you want to record when an alarm is triggered is triggered.



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

**Show Message:** Check the box to display "I" letter icon on the screen when an alarm is triggered.

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

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

**FTP Picture Upload**: To upload alarm images to FTP server when an alarm is triggered. To enable FTP, please view <u>5.4.4 FTP</u>.

**FTP Video Upload**: To upload alarm video to FTP server when an alarm is triggered. To enable FTP, please view <u>5.4.4 FTP</u>.

**Picture to Cloud**: To upload alarm images to Cloud server when an alarm is triggered. To enable Cloud, please view <u>5.5.2 Cloud</u>.

**Video to Cloud**: To upload alarm video to Cloud server when an alarm is triggered. To enable Cloud, please view <u>5.5.2 Cloud</u>.

**Full Screen**: If this function is enabled and an alarm is triggered in a channel, you will see its full screen images in live view.

**Voice Prompts**: If your NVR or IP camera connects with a speaker, you can select an customized alert voice when the alarm happens for different time period. See how to add customized alert voice on <u>5.3.8 Voice Prompts</u>.

Channel	<b>∠</b> L	ocal 📶				
Voice Prompts		Alarm-Siren	~	00:00:00	23:59:59	4)
	Θ	None	~	00:00:00	23:59:59	4)
	÷	None Dog-Barking danger zone,please leave				
		leave Alarm-Siren				

# 5.3.4 Intelligent

You can configure the PID / LCD/ PD&VD / SOD / FD / Sound Detection / Video Tampering alarm function here.

Setup Channel Record Alarm Al Network Device System											2 X			
Motion					nd Detection Video	Tamper	ring							
9 PIR									Post Recording		Show Message 🗸		FTP Picture Upload 🐱	
0 <i>V</i> O	CH1	Disable		۲	10 s			ON	30 s					
🖨 Intelligent		Disable			10 s				30 s				M	
• mangan		Disable			10 s				30 s		×.	>	M	
PTZ Linkage		Disable							30 s				M	
Exception	CH6	Disable	×	٢	10 s	~	۲	ON	30 s	×				
Alarm Schedule														
Voice Prompts														

#### Channel: Channel name

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

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

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

**Record**: Click (2) icon and choose which channel(s) you want to record when an alarm is triggered.



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

**Show Message**: Check the box to display "S" icon on the live view screen when an alarm is triggered.

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

**FTP Picture Upload**: To upload alarm images to FTP server when an alarm is triggered. To enable FTP, please view <u>5.4.4 FTP</u>.

**FTP Video Upload**: To upload alarm video to FTP server when an alarm is triggered. To enable FTP, please view <u>5.4.4 FTP</u>.

**Picture to Cloud**: To upload alarm images to Cloud server when an alarm is triggered. To enable Cloud, please view <u>5.5.2 Cloud</u>.

**Video to Cloud**: To upload alarm video to Cloud server when an alarm is triggered. To enable Cloud, please view <u>5.5.2 Cloud.</u>

**Full Screen**: If this function is enabled and an alarm is triggered in a channel, you will see its full screen images in live view.

**Voice Prompts**: If your NVR or IP camera connects with a speaker, you can select an customized alert voice when the alarm happens for different time period. See how to add customized alert voice on <u>5.3.8 Voice Prompts</u>.

Channel	<b>V</b>	ocal 🚺				
Voice Prompts		Alarm-Siren	~	00:00:00	23:59:59	$\triangleleft$
	Θ	None	~	00:00:00	23:59:59	40
	ŧ	None Dog-Barking danger zone,please leave				
		leave				
		Alarm-Siren				

## 5.3.5 PTZ Linkage

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

Setup Channel	Record Alarm	Al Network D	evice System				(C) 09/13/20	21 11:10:20 🗙
Motion	PTZ Linkage							
0 PIR			Motion ~					
0 I/O	CH1			2	OFF	OFF	OFF	OFF
Intelligent			M	2				
			2	S				
PTZ Linkage			M	D				
Exception								
				M				
Alarm Schedule								
Voice Prompts								

Switch: Enable or disable the PTZ linkage function.

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

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

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

# 5.3.6 Exception

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

Setup Channel	Record Alarm	Al Networl	k Device S	ystem					④ 19/03/2021 10:41:46 X
Motion	Exception								
PIR	Event Type	Switch 🗸				Latch Time	Show Message 🗸		
I/O	No Space on Disk	~	Disable		٢		<b>~</b>	~	
🐵 Intelligent	Disk Error		10 s			10 s			
antengent.	Video Loss	Y					Y	Y	
PTZ Linkage									
Exception									
Alarm Schedule									

Event Type: Select the event type from below options:

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

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

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

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

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

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

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

# 5.3.7 Alarm Schedule

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



Channel: Select the channel to set its capture parameters.

To set the schedule, choose one channel and one of the alarm types then drag the cursor to mark the slots. The green blocks in the time slots will be active for alarm. 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.

# **5.3.8 Voice Prompts**

If your NVR or IP camera connects with a speaker, you can select an customized alert voice when the alarm happens. In the page, you're able to manage your customized voice files.

Setup Channel	Record Alarm	Al Network Device System	
Motion	Voice Prompts		
PIR	Channel	🗹 Local 🚺 🔄	
⊕ I/O	Voice Prompts	None	~
Intelligent	Model	Import Files	~
PT71 inkage			Import
· ···			
Exception			
Alarm Schedule			
Voice Prompts			

The system provides 3 different methods to create customized voices: **Import Files**, **Local Conversion** and **Internet Server Conversion**.

**Import Files:** Supports to import MP3, WMA and WAV files from USB memory and/or web page.
Choose **Import Files** Models, 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.

	Voice Prompts			×
Driver List: 📿			≣~ + <b>≣</b>	i. 🗇
USB1-1	Name		Last Modify	
	System Volume Information		05/26/2021 17:18:42	
	■ 111.pcapng	0.000B	06/21/2021 10:32:42	
	E Abnormal Attendance.mp3	20.856KB	04/20/2021 09:02:48	
	Afternoon off duty.mp3	33.231KB	04/20/2021 09:02:48	
	E Alarm-Siren.wav	125.043KB	04/19/2021 19:24:16	
	Dog-Barking.wav	205.754KB	04/19/2021 19:24:18	
	E Don't leave early.mp3	59.106KB	04/20/2021 09:02:48	
	Midnight.mp3	43.356KB	04/20/2021 09:02:48	
	E Morning Attendance.mp3	33.231KB	04/20/2021 09:02:50	
	Night time off duty.mp3	30.981KB	04/20/2021 09:02:46	
	E Noon Attendance.mp3	33.231KB	04/20/2021 09:02:50	
	Noon Off duty.mp3	32.106KB	04/20/2021 09:02:50	
	Overtime attendance.mp3	32.106KB	04/20/2021 09:02:46	
Remain:/Total:	Location: usb1-1			
25.876GB/29.492GB	Selected File:			• •
Format	Refresh finished !		OK Can	cel

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

Choose Local Conversion Models, 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.

Voice Prompts			
Channel	🗹 Local 🚺 🔄		
Voice Prompts	private zone	~	1
Model	Local Conversion	~	
Language		*	
Name	private zone		
Plain Text	Warning: this is private zone, do not enter!		
	Import		

**Internet Server Conversion:** The system supports to convert your plain text into multilanguage audio file by internet server.

Choose Local Conversion Models 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.

Voice Prompts		
Channel	🔽 Local 🚺 🔄	
Voice Prompts	private zone1 ~	
Model	Internet Server Conversion	
Language	ENGLISH	
Name	private zone1	
Plain Text	Warning: this is private zone, do not enter!	
	Import	
	7	

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

# 5.4 Al

You will see this section if your NVR has capacity for AI. The NVR will support to realize AI functions including FD (Face Detection), PD & VD (Human & Vehicle Detection), PID (Perimeter Intrusion Detection), LCD (Line Crossing Detection), CC (Cross Counting), HM (Heat Map), CD (Crowd Density Detection) and QD (Queue Length Detection) with AI powered IP cameras.

£	🕄 Setup	Channel	Record	Alarm	AI	Network	De	svice	Syste				
÷			FD	PD & VD	PID	LCD		HM		Schedule			
Φ	Recognition												1
					Cha	nnel				Setup		witch	
Φ	Alarm				C	H6							
0	Statistics												

You would need to configure the AI setup, recognition setup, alarm setup to fulfill the complete AI functions.

# 5.4.1 Setup

In this page, you're able to configure the conditions to trigger the AI detections.

# 5.4.1.1 FD (Face Detection)

**Switch:** To enable or disable the face detection. Click 🙆 to configure the face detection conditions.

Channel	CH6	~
Snap Mode	Optimal Mode	~
Apply Mode	Realtime Mode	
Min Pixel	Optimal Mode	
Max Pixel	640	(320-1080)
Face Enhance	Disable 🗸	
Face Attribute	Disable 🗸	
Detection Mode	Static Mode	¥
Rule Kind	Rect	~
Detection Range	Full Screen	~
Dynamic Marking	Enable	~
	Save	

Channel: Channel selection

**Snap Mode:** There are "**Optimal Mode**" (automatically select & push the best image from all face images of the same person whose faces were captured during his/her duration of stay), "**Realtime Mode**" (push the first captured face image and push again the last captured face image from the same person) and "**Interval Mode**" (customized the capture time and interval).

Channel	CH6	~
Snap Mode	Optimal Mode	~
Apply Mode	Realtime Mode	
Min Pixel	Interval Mode	
Max Pixel	640	(320-1080)
Face Enhance	Disable	~
Face Attribute	Disable	~
Detection Mode	Static Mode	~
Rule Kind	Rect	~
Detection Range	Full Screen	~
Dynamic Marking	Enable	~
	Save	

**Apply Mode:** Set the face detection angle, including **"Frontal View**", **"Multi Angle**" and **"Customize**" mode.

**Roll Range**: Set the range of face rotation under the customize mode.

Pitch Range: Set the range of face pitch under the customize mode

Yaw Range: Set the range of face horizontal flipping under the customize mode.

**Min Pixel:** Set the minimum detection pixel box. The face can be recognized only when it is larger than the pixel box.

**Max Pixel:** Set the maximum detection pixel box. The face can be recognized only when it is smaller than the pixel box.

**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 mask, glasses and facial expression.

**Detection Mode:** Motion Mode will detect moving faces. Static Mode will detect both moving faces and still faces.

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

If you choose **Rect** mode, you can choose "**Full Screen**" or "**Customize**" to adjust the shape of rectangular detection zone in the camera image. Faces appear in this zone will be detected and captured.



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 you enable this option, a capture box will be displayed upon the face image in both live view images and recording files.

## 5.4.1.2 PD & VD (Human & Vehicle Detection)

£	🕄 Setup	Channel	Record	Alarm	Al	Network	De	evice	Syste	m			
			FD	PD & VD	PID	LCD	СС	НМ	CD	QD	Schedule		
	Recognition												
	Alarm				Cha	nnel					Setup	Switch	×
	Marin				Cł	H6						M	

**Switch:** To enable or disable the Human & Vehicle detection. Click 🙆 to configure the detection conditions.

Channel	CH1	~
Snap Mode	Interval Mode	~
Snap Num	1	~
Snap Frequency	2	s/pic
Min Pixel	64	(64-1080)
Max Pixel	320	(320-1080)
Sensitivity	2	(0-100)
Detection Type	🔽 Pedestrian	🔽 Vehicle
Detection Mode	Static Mode	~
Detection Range	Customize	×
Dynamic Marking	Disable	~
	Savo	
	Save	

#### Channel: Channel selection

**Snap Mode:** There are "**Optimal Mode**" (automatically select & push the best image from all captured images of the same vehicle during its duration of stay), "**Realtime Mode**" (push the first captured image and push again the last captured image from the same vehicle) and "**Interval Mode**" (customized the capture time and interval).

**Min Pixel:** Set the minimum detection pixel box. The target objects can be recognized only when it is larger than the pixel box.

**Max Pixel:** Set the maximum detection pixel box. The target objects can be recognized only when it is smaller than the pixel box.

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

**Detection Type:** Choose the detection target objects.

**Detection Mode:** Motion Mode will detect moving objects. Static Mode will detect both moving faces and still objects.

**Detection Range:** Set the detection zone. You can choose "**Full Screen**" or "**Customize**" to adjust the shape of rectangular detection zone in the camera image. Target objects appear in this zone will be detected and captured.

**Dynamic Marking:** If you enable this option, a capture box will be displayed upon the detected objects in both live view images and recording files.

## 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.

🞯 Setup	Channel	Record	Alarm	AI	Network	De	vice	Syster	n			
		FD	PD & VD	PID	LCD	сс	HM	CD	QD	Schedule		
				Perime	ter Intrusi	ion Dete	ction					
Recognition												
			Channel		Setu	p		Switch		Sensitivity	~	
Alarm												
			CH6		0					2	~	
A we we we we												

Switch: To enable or disable the Perimeter Intrusion Detection.

Click 🙆 to configure the detection conditions.



Channel: Channel selection

**Detection Type:** Choose the detection target objects.

Rule Number: Max. 4 rules available.

Rule Switch: Activate or inactivate the rule.

**Rule Type:** Detection direction from  $B \rightarrow A$ ,  $A \rightarrow B$  or  $A \leftarrow A$ 

**Dynamic Marking:** If you enable this option, the border of the detection zone will be displayed in both live view images and recording files.

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

 $A \rightarrow B$ : NVR will only detect the objects move from side A to side B;

 $B \rightarrow A$ : NVR will only detect the objects move from side B to side A;

 $A \leftarrow \Rightarrow B$ : NVR will detect the objects move from either side B to side A or side A to side B.

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

#### Notes:

- 1) The perimeter shall not be too close to the edges/corners of the camera picture, since it may fail to trigger the detection when the target pass through the edges/corners.
- 2) The shape of the regions shall not be too narrow/small, since it may fail to trigger the detection when the target passes through outside the perimeter.



## 5.4.1.4 LCD (Line Crossing Detection)

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

Setup Channel	Record	Alarm	AI	Network	De	vice	Syste	em		
Setup	FD	PD & VD	PID		cc	HM	CD	QD	Schedul	3
Recognition				Line Cros	sing Di	election				
• Recognition		Channel		Setup	s	Switch	*	Sen	sitivity	,
Alarm		0110		~						
		CH6		()				2	`	*
Statistics										

Switch: Check the box to enable the LCD function.

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

Click **Setup** icon 🙆 to configure the detection conditions.

Channel	СН6	~				
Detection Type	Pedestrian	Vehicle				
Rule Number	1	~				
Rule Switch						
Rule Type	A->B	~				
Dynamic Marking	Enable	~	A	→B		
	Remove					
	Remove All					
	Save					

Channel: Select the channel you want to configure

**Detection Type:** Choose the detection target objects.

Rule Number: Max. 4 rules available.

Rule Switch: Activate or inactivate the rule

**Dynamic Marking:** If you enable this option, the border of the detection zone will be displayed in both live view images and recording files.

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

 $A \rightarrow B$ : NVR will only detect the action from side A to side B;

 $B \rightarrow A$ : NVR will only detect the action from side B to side A;

 $A \leftarrow \Rightarrow B$ : NVR will detect the action from either side B to side A or side A to side B.

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

#### Note:

1) The lines shall not be too close to the edges of the camera picture, to avoid any failure to trigger an alarm when the target cross through it.

2) The lines shall not be set too short, to avoid any failure to trigger an alarm when the target passes outside it.



## 5.4.1.5 CC (Cross Counting)

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

🞯 Setup	Channel	Record	Alarm	AI	Network	Device	System		
Ø Setup		FD	PD & VD	PID	LCD		CD QD	Schedule	
Recognition					(	Cross Countin	g		
			Channel		Setup	Swi	tch 🗸	Sensitivity	~
♥ Alarm			CH6					2	~

Switch: Check the box to enable the function.

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

Channel	CH6	~
Туре	Person	~
Alarm Number	1	
Start Time	00:00:00	
End Time	23:59:59	
	Reset Count	
Rule Number		
Rule Number		ř
Rule Switch		
Rule Type	A->B	*
Dynamic Marking	Enable	~
	Remove	
	Remove All	
	Save	
	10000	

Channel: Select the channel you want to configure

Type: Choose the detection target objects. Motion will detect all moving objects, Person will detect human beings only, Vehicle will detect vehicles only.

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>200, then the NVR will send an alert. Start Time: Set the detection start time.

End Time: Set the detection end time.

Reset Count: Clear the counting number.

Rule Number: Only 1 rule available.

Rule Switch: Activate or inactivate the rule.

- 1. Choose the detection target type.
- 2. Set the Alarm Number, Start Time and End Time.
- 3. To enable the detection in **Rule Switch**.
- 4. Choose a Rule Type.

 $A \rightarrow B$ : If a target 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.

 $B \xrightarrow{>} A$ : If a target object is detected moving from side B to side A, the system will count 1 to enter number; if a target object is detected moving from side A to side B, the system will count 1 to exit number.

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

### 5.4.1.6 HM (Heat Map)

Automatically regular detect and count the movement of objects in the monitoring area. The frequency of people flows will be identified by different colors.

🞯 Setup	Channel	Record	Alarm	AI	Network	D	evice	Syste	m		
Setup		FD	PD & VD	PID	LCD	CC	HM	CD	QD	Schedule	
Recognition							neat m	ap			
Alarm			Channel		Setu	p		S	witch	~	
↓ Alaim			CH6		0						

Switch: Check the box to enable LCD function.

Channel	CH6	<b>-</b>		
Rule Number	1	~		
Rule Switch				
	Remove			
	Remove All			
	Save			

- 1. To enable the detection in **Rule Switch**.
- 2. Use your mouse to click 4 points in the camera picture to draw a virtual region. The sharp of the region should be a convex polygon. Concave polygon will be not able to save.

- 3. Click **Save** to save your settings.
- 4. 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. Click and hold the left button of your mouse to move the position of the region, or drag the corners to resize the region.
- 5. If you want to remove one of the regions from the camera picture, click the red box in the region and then click **Remove** button. Click **Remove All** will delete all regions.

### 5.4.1.7 CD (Crowd Density Detection)

Crowd density detection is used to detect crowd gathering to maintain a controllable order in certain area.

🞯 Setup	Channel	Record	Alarm	AI	Network	De	vice	Syste	m	
Setup		FD	PD & VD	PID	LCD	сс	ΗM	CD	QD	Schedule
Recognition								Clowe	Density	Detection
Alarm		C	nannel	Setup	) Sw	itch 🕚	¥ .	Sensi	tivity	~
			CH5	0		X		2		~

Switch: Check the box to enable the CD function.

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

			Inside:	0 Available:	50		
Channel	CH5	~		_			
Min Pixel	32	(32-1080)					
Max Pixel	640	(320-1080)					
Max Detection	50	(1-500)					
Detection Range	Customize	~					
Rule Number	1	~					
Rule Switch							
Dynamic Marking	Disable	~					
	Remove						
	Remove All						
	Save						
						-	

**Min Pixel:** Set the minimum detection pixel box. The people can be recognized only when he/she is larger than the pixel box.

**Max Pixel:** Set the maximum detection pixel box. The people can be recognized only when he/she is smaller than the pixel box.

**Max Detection:** The NVR will send an alert if the number of people inside the detection area exceeds the Max Detection number.

**Dynamic Marking:** If you enable this option, the border of the detection zone will be displayed in both live view images and recording files.

- 1. Set the min. pixel and max. pixel.
- 2. Set the limitation number in Max. Detection.
- 3. To enable the detection in **Rule Switch**.
- 4. Set the **Detection Range** to be full screen or customize.
- 5. If you choose customized detection range, you will need to use your mouse to click 8 points in the camera picture to draw a virtual region.
- 6. Click **Save** to save your settings.
- 7. 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. Click and hold the left button of your mouse to move the position of the region, or drag the corners to resize the region.
- 8. If you want to remove one of the regions from the camera picture, click the red box in the region and then click **Remove** button. Click **Remove All** will delete all regions.

## 5.4.1.8 QD (Queue Length Detection)

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

Setup Channe	Record	Alarm	AI	Network	Device	Sys	tem		
Setup	FD	PD & VD	PID	LCD	CC HM	N CD		Schedule	
Recognition							Queue	Length Detect	ion
		Channel	4	Setup	Switch	~	Sensit	ivity 🐱	
Alarm		CH5		0			2	~	

Switch: Check the box to enable the QD function.

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

Channel	CH5	~	Inside: 0 Available: 50	
Min Dival	22	(32,1080)		<b>_</b>
	34	(320 4090)		
Max Pixel	640	(320-1080)		
Max Detection	10	(1-100)		
Max Pro Time	60	(1-3600)		
Detection Range	Customize	~		
Rule Number	1	~		
Rule Switch				
Dynamic Marking	Enable	~		
	Remove			
	Remove All			
	Save			

**Min Pixel:** Set the minimum detection pixel box. The people can be recognized only when he/she is larger than the pixel box.

**Max Pixel:** Set the maximum detection pixel box. The people can be recognized only when he/she is smaller than the pixel box.

**Max Detection:** The NVR will send an alert if the number of crowds in the line inside the detection area exceeds the Max Detection number.

**Max. Pro Time:** The NVR will send an alert if the stagnation time of the queue is longer than the given processing time.

**Dynamic Marking:** If you enable this option, the border of the detection zone will be displayed in both live view images and recording files.

- 1. Set the min. pixel and max. pixel.
- 2. Set the limitation number in Max. Detection.
- 3. Set the limitation number in Max. Pro Time, the unit is second.
- 4. To enable the detection in **Rule Switch**.
- 5. Set the **Detection Range** to be full screen or customize.
- 6. If you choose customized detection range, you will need to use your mouse to click 8 points in the camera picture to draw a virtual region.
- 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. Click and hold 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 picture, click the red box in the region and then click **Remove** button. Click **Remove All** will delete all regions.

### 5.4.1.9 LPD (License Plate Detection)

License Plate Detection, detect the pass vehicles which is unfamiliar vehicle or the vehicle that has been entered into the database. At the same time. It can be also back up the unfamiliar vehicle license plate information to the database, or retrieve the license plate detection and alarm information on playback. License plate detection currently only supports two regions license-Europe and America.

In this menu, you can set the relevant parameters of the license plate detection.



# Setup:Click Oto enter setup page.

Switch: Enable or disable LPD function.



Channel: Channel selection

**Snap Mode:** Snap mode,there are optimal mode (select the best quality picture push during the period from vehicle license plate appears), real-time mode (push once when license plate appears, push once again when disappears) and interval mode (customized number of push sheets and time interval).

**Min pixel:** Minimum recognition pixel box, the license plate must be greater than the set minimum pixel to be recognized.

**Max pixel:** Maximum recognition pixel box, the license plate should be less than the set maximum pixel to be recognized.

**Sensitivity:** Sensitivity, the larger the value, the easier to detect the target.

**Detection Type:** Detect type, there are two kinds of license plate:

European license plate: the European license plate,

American license plate: American license plate.

Detection Mode: License plate detection mode, there are two modes.

Static Mode: Check the static license plate in the picture

**Motion Mode:** Filter out the stationary vehicles and their license plates to detect only the license plates in the dynamic process.

**Detection Range:** There are two areas for license plate detection as follows:

Full Screen: Full-screen detection,

Customize: Custom detection area.

Dynamic Marking: Tracking box.

### 5.4.1.10 RSD (Rare Sound Detection)

🕲 Setup	Channel	Record Alarm	Al Network Device	System			04/11/2022 19:56:08	×
Setup		FD PD & VD	PID LCD CC HM		LPD RSD Schedule			
Recognition								
<ol> <li>Alarm</li> </ol>			Channel		Setup	Switch 🗸		
<ul> <li>Alanni</li> </ul>			IP CH2			Z		
Statistics			IP CH6			N		
			*					
							Арр	ly

Setup:Click 🙆 to enter setup page.

Switch: Enable or disable RSD function.



Channel: channel selection Sensitivity: Sensitivity, 1 is the minimum,100 in the maximum. Detection Type: detection type

**Baby Crying Sound:** Click to check baby crying. **Dog Barking:** Click to check barking sound.

## 5.4.1.11 Schedule



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

To set the schedule, choose one channel then click on one of the detection items on the right side, then drag the cursor to mark the slots. 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.

# 5.4.2 Recognition

The system supports face recognition only, you would need to configure the face recognition algorithm model and database.

## 5.4.2.1 Model Configuration

To choose the face algorithm model. Auto select recognition model is recommended.

Setup Channel	Record Alarm Al Network	Device System		(C) 09	9/15					
∲ Setup	Model Configuration Database Man	lagement								
Recognition	Recognition     Auto select face recognition model									
Alarm	Alam									
	Device/Channel	Face Recognition Model	Face Detection Model	Enable Face Recognition						
Statistics	Local	V0.0.0.0.1-release								
		V0.4.0.0.2-release	V0.4, 1.6.1-release							
		V0 2.0.5.1-beta	V0.2.1.2.1-release							

## 5.4.2.2 Database Management

You're able to create the face database to classify different faces.

Setup Channel	Record Ala	arm Al Network Device System		
Ø Setup	Model Conf	iguration Database Management		
	Import Dat	tabase Backup Database		
Alarm		Group Name	*/- Ed	iit Enable 🗸
Statistics	1 🔲	Allow List	e	2 🗹
		Block List		3 🗹
	3	Stranger		×

There are 3 default groups: Allow List, Block List and Stranger. You can use add icon  $\bigoplus$  and delete icon  $\overline{m}$  to add or delete customized groups.

Import Database: Import database from USB memory.

Backup Database: Export database to USB memory.

**Enable:** Check to enable the group.

Edit: Click edit icon 📝 to edit the group.

		Group 1								
Search										
					Detail Information					
	Import		Download Import Template							

**Import:** Click the Import button to import face images. You're able to import files from NVR local storage and/or external storage.

Import from	×
Local Storage Device	
External Storage Device	
Cancel	

Click Local Storage Device to import face images which were captured and saved in the NVR local HDD storage.

			Please selec	t face image			X
From 17/03/2021	00:00:00	To 17/03/2021 🛗	23:59:59	( 1 Day 🗸 🕨	Channels	Search	
			<b>k</b>				Select All Delete
							Similarity 70 %
17/03/2021 10:56:38	17/03/2021 10:57:04	17/03/2021 10:57:15	17/03/2021 10:58:26	17/03/2021 10:58:29	17/03/2021 10:59:08	17/03/2021 11:00 34	17/032021 11:00:51
[CH5]	[CH5]	[CH5]	[Сн5]	[CH5]	[Сн5]	[сн5]	[CH5]
1/03/02/11/0051	17/02/0411101:10	1002001110134		17022021110141	1/02/02111013/	17032021110200	1/03/2011102:55
[Сн5]	[CH5]	[CH5]	[CH5]	[CH5]	[CH5]	[CH5]	[CH5]
17/032021 11 0324	17/03/2021 11 03 48 [CH5]	17/03202+11+0252 	[CH5]	172032021 1105 07	(CH5)	172032021 11:06:49 [CH6]	(CH5)
Select All	< < 7 /20						Cancel

1. Choose the start time and end time manually. Or you can select the time interval from 1 day, 2 days, 3 days, 4 days, 5 days, 6 days, 1 week and 1 month, and then click the < or > button to move to left or right period.

2. Choose the channels you want to search.

3. Click **Search** button.

4. The result will be displayed in the bottom window.

5. Check the box upon the face images you want to add, or click **Select All** to add all images.

6. If you want to narrow the search result, you can choose one or multiplex images in the bottom window as target face(s), and then set the **Similarity** value. Click **Search** again, the system will search and display the faces which are similar with your target face(s).

7. Click **OK** to add images. You can edit the personal information for the faces you want to import.

8. Click **Import** button to import the face images.

In	nport	×
1 F76 💟 2 F77 💟 3 F78 💟	Detail Informat	ion:
	Name	F78
	Gender	Male 🗸
	Age	
	Country	
	Nationality	
	Native Place	
	Phone Number	
	Email	
	ID Code	
	Occupation	
	Residence	
	Remark	
✓ Select All  < < 1 /1 > >		Import Exit

Use the same method to add face images from external USB storage devices.

### 5.4.2.3 License Plate Management

This menu provides a license plate information database for comparing the detected license plate information.



**Import Database:** import the exported packet data into the device. **Backup Database:** export all the groups to a U disk. **Group Name:** The name of the database group, allow list, black list, stranger group, you can add up to 61 custom groups, a total of 64 groups, one group can accommodate up to 5000 license plate information, the whole database can accommodate 10000 license plate information.

Click (), (The default first three license plate groups can not be deleted)

Edit: Click Edit to enter the edit license plate group interface.

Enable: enable or disable LPD.

Setup	Channel Record Alarm Al Network Device System	O2/22/2022 12:55:06 X
Setup	Allow List	×
Recognition	Search Input license plate here Total 2	
🗢 Alarm	Edt: License Plate Color Car Brand Car Type Owner Gender ID Code Phone Number Occupation Residence Remark	
Statistics	KG428753 Blue tavgy m Male 3632774 2443155664	
	KT888888 Blue LUHU caoxiansheng Male 354258 13666665736 deguo	
	Import X	
	License Plate  ③	
	Color Blue 🗸	
	Car Brand Car Type	
	Owner Gender Male V	
	ID Code Occupation	
	Phone Number	
	Pressoence Bomark	
	Alarm Channel (0)	
	Import Ext	
	IC C 1 /1 >> Import Import From CSV Import From Loca Move To Delete Export	
		Apply

Search: filtering license according to keywords.

Total: Total number of license plate data in this group.

Click Modify the corresponding license plate data information. There are three ways to add

license plate information: Import (manually added), Import From CSV (CVS table import), and Import From Local (local import).

Click Import button to manually add a single license plate information,

Click **Export** to export the entire group information to the external U disk.

Alarm Channel:Set the channel to alarm after the license plate is detected and successfully aligned.

**Move to...**:Check the re-check box of the license plate information and Click it again to transfer the license plate information to another group.

**Delete:** Check the re-check box of the license plate information and then Click this button to delete the license plate information.

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

6	В	C	DE	F	G	Н	I	J K	L	я	Б	0	Р	Q	R	S	Т	U	V	v	X	Y	z
1 License	FColor	Car Bra	ncCar Type Owner	Sex	Id Code	hone Oc.	upatic	ResidenceRemark															
2 RC-3R5	25blue	HIHTH	VolkswageYHI	nale	2222	2212211	22222	46461 FFQFQF	Q														
3 A-HP-23	3 white	HTH	NORAL UYUU	nale	101	11111 LLI	L	KKLKLK FOFOWO															
4 MCT164T	black	BBBB	NOMAL QQQQ	fenale	102	2145435 DA	FOROR	FVEQV QTVF															
5 FLB-360	black	R23R2AD	KDGS QRQD	fenale	103	432525 SFI	FS	GGAGA GWTTWE															
6 MA 5465	Cwhite	THWACA	SFSWF FVFFVF	fenale	104	532535 FRI	FA	FAGA FWFWA															
7 GC 9671	Cwhite	RGWTVZG	EAWEGWIG WIAZHRI	female	105	2.35E+09 WA	AGEG	AGHAG AGBY															
S LH66 BU	E white	GASRJHD	FJWTASDSF ATYDFZD	OYNmale	106	3.47E+08 Ft	ta	agshsrh agrega	egea														
9 R21 R0Y	white	HEH	T4T34 AVETAT	nale	107 :	SIYTEFC HR.	FFXHD	STUUROFYBETOKH															
10 DE14 LV	P white	ETUURHS	4YAGRG ABRTWY	OFEmale	108	45634 WE	ARGA	AFSGS KUKTT															
11 1218 LC	] white	HSHRTHS	T YEYCD CSY5DCE	OXCmale	109	1673T387£ SGI	IC.	SDGSHHRTF TRYRTH	FX														
12 ¥12 FRA	yellow	GREGAGA	G AGBAGE GA4TGZV	7Z female	110	4546363 FG	SHA	GSG WGAA															
13 ¥13 PRA	blue	HJHJH	WEGWIG GSY5DGE	OXCmale	112	2212223	22222	46473 FFQFQF	9														
14 ¥14 PRA	blue	HJHJH	WEGWIG GSY5DGE	OXCmale	113	2212224	22222	46474 FQFQVC															
15 ¥15 PRA	blue	HJHJH	WEGWIG GSY5DGE	DXCmale	114	2212225	22222	46475 QTVF															
16 ¥16 FRA	blue	HJHJH	WECWIC CSY5DGE	OXCmale	115	2212226	22222	46476 GWTTWE															
17 V17 PRA	blue	HJHJH	WEGWIG GSY5DGE	DXCmale	116	2212227	22222	46477 FWFWA															
18 ¥18 PRA	blue	HJHJH	WEGWIG GSY5DGE	OXCaale	117	2212228	22222	46478 AGEY															
19 ¥19 FRA	blue	HJHJH	WEGWIG GSY5DGE	OXCmale	118	2212229	22222	46479 agrega	egea														
20 ¥20 FRA	blue	HJHJH	WEGWIG GSY5DGE	OXCmale	119	2212230	22222	46480 ETOKH															
21 ¥21 FRA	blue	HJHJH	WECWIG CSY5DGE	OXCmale	120	2212231	22222	46481 KUKTT															
22 W22 FRA	blue	HJHJH	WEGWIG GSY5DGE	DXGmale	121	2212232	22222	46482 TRYRTH	FX														
23 ¥23 FRA	blue	HJHJH	WEGWIG GSY5DGE	OXCaale	122	2212233	22222	46483 WGAA															
24 ¥24 FRA	blue	HJHJH	WEGWIG GSY5DGE	OXCmale	123	2212234	22222	46484 FFQFQF	Q														
25 ¥25 FRA	blue	HJHJH	WEGWIG GSY5DGE	OXCmale	124	2212235	22222	46485 FQFQVQ															
26 ¥26 FRA	blue	HJHJH	WECWIC CSY5DGE	OXCmale	125	2212236	22222	46486 QTVF															
27 W27 FRA	blue	HJHJH	VolkswageGSY5DGE	OXCmale	126	2212237	22222	46487 GWTTWB															
28 ¥28 FRA	blue	HJHJH	VolkswageGSY5DGE	OXCaale	127	2212238	22222	46488 F#F#A															
29 ¥29 PRA	blue	HJHJH	VolkswageGSY5DGI	OXCmale	128	2212239	22222	46489 AGBY															
30 WS0 PRA	blue	HJHJH	VolkswageGSY5DGE	OXCmale	129	2212240	22222	46490 agrega	egea														
31 ¥31 FRA	blue	HJHJH	VolkswageGSV5DGE	OXCmale	130	2212241	22222	46491 ETOKH															
32 ¥32 FRA	blue	HJHJH	VolkswageGSY5DGE	OXCmale	131	2212242	22222	46492 KUKTT															
33 ¥33 PRA	blue	HJHJH	Volkswage GSY5DGE	OXCmale	132	2212243	22222	46493 TRYRTH	FX														
34 ¥34 PRA	blue	HJHJH	VolkswageGSY5DGI	OXCmale	133	2212244	22222	46494 WGAA															
35 WS5 PRA	blue	HJHJH	VolkswageGSY5DGE	OXCmale	134	2212245	22222	46495 FFQFQF	Q														
36 ¥36 FRA	blue	HJHJH	VolkswageGSY5DGE	OXCmale	135	2212246	22222	46496 FQFQVQ															
37 ¥37 PRA	blue	HJHJH	VolkswageGSY5DGE	OXCmale	136	2212247	22222	46497 QTVF															
38 ¥38 PRA	blue	HJHJH	Volkswage GSY5DGE	OXCmale	137	2212248	22222	46498 GWTTWE															
39 ¥39 FRA	blue	HJHJH	VolkswageGSY5DGI	OXCmale	138	2212249	22222	46499 F#F#A															
40 ¥40 FRA	blue	HJHJH	VolkswageGSY5DGE	OXCaale	139	2212250	22222	46500 AGEY															
41 ¥41 PRA	blue	HJHJH	VolkswageGSY5DGI	OXCaale	140	2212251	22222	46501 agrega	egea														
	1.1	10000	W.11	owdeel.	1.41	0010080	00000	ASEOD PTOPH															

Setup	Channel Record Alarm Al Netwo	ork Device System		O2/23/2022 10:52:18	×
Setup		Allow List		×	
		Please select a .csv file	×		
Alarm     Statistics	Search Input license Edit License Pla KG42875	Name	III マ 中 読 面 Last Modify		
		172 20 52 22 Al Map PC升級品。 PC分数 System Volume information auditog data ing mv升級品。 ing bab i日志 和本利公のCasy 787.331KB	02122022 16.58.44 11/2602021 14.49.26 11/262021 14.49.26 11/262021 14.45.28 12/03/2021 06.54.46 11/26/2021 14.45.38 12/03/2021 06.15.10 12/01/2021 06.48.54 12/03/2021 06.08.24 02/14/2022 03.06.50 11/26/2021 06.27.14 02/23/2021 01.00.78 11/26/2021 02.27.14		
	Remain./Total:         24.3960B/28.9680B           Format         Format	Location: usb1-1 Selected Fiel [139]/6당入5000 csv Refresh finished 1 Import From CSV Import From Local Meyer 10 Delete	CK Cancel	Apply	

Click **Import From CSV** button to pop up the above interface, select the CSV license plate file to be imported, and Click the OK button. Popup the following below:

Setup	Chan	nel	Record Al	am	Al Net	work Devi	ce System								C 02/2	3/2022 10:53:21	×
Setup									Im	port					×		
Recognition		State			Car Brand			Gender	ID Code	Phone Number	Occupation I	R Opera	ation finis	hed ! 4995 succeeded and 5 failed.			
Alarm		۲	W4982 PRA	Blue	HJHJH	Volkswagen	GSY5DGDXGH	Male	5081	2217192	22222	Licen	se Plate				
and the second of			W4983 PRA	Blue		Volkswagen	GSY5DGDXGH	Male				Color					
<ul> <li>Statistics</li> </ul>	~		W4984 PRA	Blue		Volkswagen	GSY5DGDXGH	Male	5083	2217194	22222	Color		Blue			
			W4985 PRA	Blue		Volkswagen	GSY5DGDXGH	Male				Car B	Irand	нјнјн			
	<b>~</b>		W4986 PRA	Blue		Volkswagen	GSY5DGDXGH	Male	5085		22222	Car T	ype	Volkswagen			
			W4987 PRA	Blue		Volkswagen	GSY5DGDXGH	Male	5086	2217197	22222	Owne		үнј			
	~		W4988 PRA	Blue		Volkswagen			No	otice		×	er	Male			
			W4989 PRA	Blue		Volkswagen							e Numbe	2212211			
			W4990 PRA	Blue		Volkswagen						0	de				
			W4991 PRA	Blue		Volkswagen						2					
	<b>~</b>		W4992 PRA	Blue	нјнјн	Volkswagen	The number of	plates in	n the curre	nt group has reacl	hed the upper lin	niti 🧃	pation				
			W4993 PRA	Blue		Volkswagen						2					
	<b>~</b>		W4994 PRA	Blue	HJHJH	Volkswagen						٤	lence				
		٢	W4995 PRA	Blue		Volkswagen						6					
	~		W4996 PRA	Blue		Volkswagen											
			W4997 PRA	Blue		Volkswagen	GSY5DGDXGH	Male	5096			Rema	ark				
	<b>~</b>		W4998 PRA	Blue		Volkswagen	GSY5DGDXGH	Male			22222	FFQ	FQFQ				
			W4999 PRA	Blue		Volkswagen		Male									
	$\sim$		W5000 PRA	Blue		Volkswagen	GSY5DGDXGH	Male	5099		22222						
			W5001 PRA	Blue		Volkswagen	GSY5DGDXGH	Male									
			1407 5		-												
					importin	tourry	Develo								C.XII		
																Apply	

Click **Import/Modify** button to add a batch, and you can also modify one license plate information. When more than 5000 data are added, the message box with the content of "Add data has reached the upper limit of the group" will popup.



Click Import From Local button to import the license plate information locally to the database.

Select date, duration and channels then Click **Search** to search license plates saved by all devices during this time.

**Channels:** License plate detection events triggered by each channel. **Select All:** Select all the license plate information.

Setup	Channel Record Alarm Al Network Device System	▶ 02/23/2022 10:40:39 ×
Setup	Import	×
Recognition	State License Plate Color Car Brand Car Type Owner Gender ID Code Phone Number Occupation Residence Operation finished 11 successed and 0 failed	
Alarm	Extreme Male      International Action      International Action      International Action      International Action      International Action      International Action      Internation      Internatinternation      Intern	
Statistics	Z         Blue         Color         Blue           Car Brand         Car Brand         Car Brand         Car Brand	
	Car type	
	Owner E	
	Phone Number	
	ID Code	
	Occupation	
	Residence	
	Remark	
	IX X 1 /1 >>I Import/Modify Delete	Exit
		Apply

Click one of data to edit the license plate information and Click **Import/Modify** button to modify, if the modification is successful. will become

# 5.4.3 Al Alarm

## 5.4.3.1 Face Recognition

When faces added in the group were detected, it'll be a series of alarm settings.

Setup	Channel	Record A	larm AI Network Device S	System				(	04/11/2022 20:01:09	×
Ø Setup		FR AD	LPR PD & VD PID LCD C	C CD QD LPD	RSD					
Recognition			Group Name	Enable Alarm 🗸	Policy	Similarity	Alarm	Alarm Schedule	Alarm Channel	
Alarm		1 🔲	Allow List		Allow	≥ 70 %	۲	۲	٢	
		2 📕	Block List	<b>×</b>	Deny					
Statistics		3	Stranger	<b>M</b>	Stranger					
			X							
									Default App	ay

Enable alarm: enable or disable face detection Policy: set up face group alarm countermeasures Similarity: similarity settings

Alarm: Click <sup>(i)</sup>to enter alarm setting interface.

Setup	Channe	I Record	Alam	n Al Net	twork Device	∋ S	System				90	4/11/2022	20:01:29	×
Setup		FR /	ND L	PR PD & V	d PID LCC	0 0	C CD QD LF	D RSD						
							Alar	m[Allow List]				×		
Recognition														
Alarm	Channel	Buzzer		Alarm Out	Latch Time		Face Capture 🗸	Save Background 🗸	Show Thumbnail 🗸	Send Email 🗸	FTP Picture Upload 🗸	Picture		
A Charlister		Disable			10 s		<b>×</b>	Y	<u>×</u>		×			
	CH2	Disable					Y	Y	Y		×			
		Disable			10 s			Y	Y		$\mathbf{\nabla}$			
	CH4	Disable			10 s		<b>M</b>	Y	V		<b>V</b>			
	CH5	Disable			10 s		M	×	<b>N</b>					
	CH6	Disable			10 s		<b>M</b>	<b>X</b>	S		<b>M</b>			
	CH7	Disable			10 s		<b>M</b>	<b>&gt;</b>	S		M			
	CH8	Disable			10 s		<b>X</b>	<b>N</b>	>		×			
	CH9	Disable			10 s		×	× 🖂	>		×			
	CH10	Disable			10 s		<b>X</b>	Y						
	CH11	Disable			10 s		<b>×</b>	Y	<b>V</b>		×			
	CH12	Disable			10 s		<b>M</b>	Y	V		<b>V</b>			
	CH13	Disable			10 s		<b>M</b>	Y	V		<b>N</b>			
	CH14	Disable					<b>M</b>	Y	V		<b>V</b>			
		Disable			10 s		<b>M</b>	V	V					
	CH16	Disable			10 s		<b>M</b>	Y	<b>V</b>		<b>V</b>			
	IP CH1	Disable			10 s		<b>M</b>	<b>X</b>	<b>V</b>		<b>V</b>			
	IP CH2	Disable			10 s		2	<b>V</b>	<b>V</b>		<b>X</b>			
											Default Sav			
												Default	Apply	

ି	Setup	Channel	Record Al	arm	AI Network D	evice System					04/11/2022	20:01:33	×
¢.	Setup		FR AD	LPR	PD & VD PID	LCD CC CD Q	D LPD RSD						
	Desservition						Alarm [ Allow Lis	t]			×		
	Alarma	Alarm Out	Latch Time		Face Capture 🗸	Save Background 🗸	Show Thumbnail 🗸	Send Email 🗸	FTP Picture Upload 🗸	Picture to Cloud 🐱	Voice Prompts		
		0	10 s		~	~	~		<b>~</b>		۵		
¢	Statistics	۲	10 s		~	~	~		~		۵		
		0	10 s		<b>~</b>	V	~				0		
		۲	10 s		<b>~</b>	<b>V</b>	~		×		۲		
			10 s		×	V	×		×				
		۲	10 s		×	×	×		<b>×</b>		0		
					×	>	×		<b>×</b>				
		0	10 s		×	>	×		<b>X</b>				
			10 s		×	<b>S</b>	×		<b>S</b>				
		0	10 s		×	Y	×		<b>N</b>		0		
			10 s		×	×	×				0		
					×	Y	×		<b>×</b>				
			10 s		×	>	>						
		۲	10 s		X	<b>S</b>	×		<b>S</b>				
			10 s		×	Y	×						
			10 s		×	>	<b>X</b>						
			10 s		~	>	>		×				
			10 s			×	<b>X</b>		×				
								k		Default			
											Default	Apply	

**Alarm Out:** optional function. If your DVR supports connecting to an external alert device, you can set up an external alert device.

Latch Time: Set up the external alarm time when the face is detected.

Save Face: The face is saved when the face is detected.

Save Background: When FD is detected, the entire preview image is saved.

Show Thumbnail: When FD is detected, a thumbnail prompt pops up on the preview.

Send Email: When FD is detected, the picture is sent to the set mailbox.

**FTP Picture Upload**: To upload alarm images to FTP server when an alarm is triggered. To enable FTP, please view <u>5.4.4 FTP</u>.

**FTP Video Upload**: To upload alarm video to FTP server when an alarm is triggered. To enable FTP, please view <u>5.4.4 FTP</u>.

**Picture to Cloud**: To upload alarm images to Cloud server when an alarm is triggered. To enable Cloud, please view <u>5.5.2 Cloud.</u>

**Video to Cloud**: To upload alarm video to Cloud server when an alarm is triggered. To enable Cloud, please view <u>5.5.2 Cloud.</u>

Alarm Schedule: Click Oto enter schedule setting interface.



Check the time period **Exit** and **Apply,Copy** copy the current setting ti other channels. **Voice Prompts:** Voice prompt, when the alarm is triggered, the audio file is imported by the voice prompt (the IPC needs to support the voice prompt function),Please view <u>5.3.8 Voice</u> <u>Prompts</u>

## 5.4.3.2 AD (Attribute Detection)

Setup Channel	Record Ala	arm Al Networ	k Device S	ystem					<b>(</b> ) 04/1	1/2022 20:02	11 ×
Ø Setup	FR AD	LPR PD & VD	PID LCD C	C CD QI	D LPD F	RSD					
Recognition	Channel	Alarm Type 😽	• Buzz	er 🗸	Alarm Out	Latch Time	Record 🗸	Post Recording	Show Message 🗸	Send Email	✓ Full
	IP CH6	Close	OFF		٢	10 s	ON	30 s		~	
Statistics				×.							
									Copy De	efault	Apply

Satup     Recognition     Airm     Airm     Statistics     Statistics     Image: Statistic state     Image: State	Setup Channe	Record Alarm Al	Network Device S	ystem					<b>04/11/2022</b>	20:02:14
• Recognition       • Buzzer • Atam Out       Latch Time • Record • Pet Recording • Show Message • Send Email • Full Screen • Vaice Prompt.         • Atam       • OFF • • • • • • • • • • • • • • • • •	∲ Setup	FR AD LPR PD	& VD PID LCD C	C CD QD LPD	RSD					
• Alam         • OFF         • ③ 10 s         • ③ 0N 20 s         •          ●	Recognition	✓ Buzzer	✓ Alarm Out	Latch Time 🗸 🗸	Record 🗸	Post Recording	✓ Show Message ✓	Send Email 🗸	Full Screen 🗸	Voice Prompts
Statistics		✓ OFF				30 s	× 🗹	V		
κ	Statistics									
κ										
κ										
κ										
κ										
<b>k</b>										
						×				
Copy Default Apply								Copy	Default	Apply

Configure the face attribute alarm function here.

#### Channel: Channel name

Alarm Detection: Set up face attribute detection type, there are three kinds of detection type .Close No Mask Wear Mask.

**Buzzer:** DVR internal buzzer. You can set the buzzer duration time (in seconds) for triggering a face attributes alarm.

Alarm out: Check the external alarm device when the pedestrian and vehicle alarm is triggered. Latch Time: set the duration of triggering the external alert devices (10s, 20s, 40s, and 60s). Record: Click icon, select the channel to record when triggering pedestrian and vehicle alarms.



**Post Recording:** set the duration of continuous DVR recording after the event occurs. The suggested recording time is 30 seconds, but can be set to up to 5 minutes.

Show Message: Select this box to show **\$** icon when face attendance alarms are detected.

**Send Email:** DVR send an automatic email when face attendance alarms are detected. **FTP Picture Upload**: To upload alarm images to FTP server when an alarm is triggered. To enable FTP, please view <u>5.4.4 FTP</u>.

**FTP Video Upload**: To upload alarm video to FTP server when an alarm is triggered. To enable FTP, please view <u>5.4.4 FTP</u>.

**Picture to Cloud**: To upload alarm images to Cloud server when an alarm is triggered. To enable Cloud, please view <u>5.5.2 Cloud.</u>

**Video to Cloud**: To upload alarm video to Cloud server when an alarm is triggered. To enable Cloud, please view <u>5.5.2 Cloud.</u>

**Full Screen:** If this feature is enabled and face attendance are detected in the channel, you will see the channel in full-screen mode.

**Voice Prompts:** Voice prompt, when the alarm is triggered, the audio file is imported by the voice prompt (the IPC needs to support the voice prompt function), Please view in <u>5.3.8 Voice</u> <u>Prompts</u>

## 5.4.3.3 License plate recognition

When license plate added in the group were detected, it'll be a series of alarm settings.

Setup Channel	Record Alarm Al Network							02/23/202	22 09:44:23 🗙
0 Setup	FR AD LPR PD&VD				1				
Recognition				Fau	t olerant	Alarm	Alarm Schedule	Alarm Channel	
Alarm	1 🖪 Allow List	<b>~</b>	Allow	≤ 1	character(s)	۲	۲	۲	
SAL MANN	2 📕 Block List				character(s)	۲		۲	
Statistics	3 🗌 Unkown	<b>×</b>	Unkown		character(s)	۲		۲	
	4 📃 Group 1		Allow 🗸		character(s)	0		۲	
	5 📃 Group 2		Allow 👻		character(s)	۲		۲	
	6 📕 Group 3		Allow ~		character(s)	۲		۲	
								Default	Apply

Group Name: group name.

Enable alarm: Enable or disable license plate detection.

Policy: Set up license plate group alarm countermeasures.

**Fault-tolerant:** Fault tolerance rate, for example, when set to three characters, the white list in the group is B594SB, and also triggers alarms when a license B734KB enters the monitoring area. That is, the detection license plate number has 0~3 characters and the database license plate number is different will alarm.

Alarm Channel:Set the alarm channel after the license plate is detected and successfully aligned.

Alarm: Click Oto enter the settings interface.

Setup	Channel	Record	Alarm	Al Net	work Device	e S	ystem				04/11/2022	20:02:48
Setup		FR A	D LF	PR PD & V	d PID LCC	) C	C CD QD LPD RSE	)				
Recognition							Alarm [ Allo	w List ]			×	
	Channel	Buzzer		Alarm Out	Latch Time		License Plate Caputre 🗸	Save Background 🗸	Show Thumbnail 🗸	Send Email 🗸	FTP Picture Upload 🗸	
	IP CH1	Disable		۲	10 s		<b>~</b>	~	<b>~</b>			
Statistics	IP CH2	Disable		0	10 s		<b>V</b>	Y				
	IP CH3	Disable			10 s		×	Y				
	IP CH4	Disable		0			<b>S</b>	Y	<b>2</b>			
	IP CH5	Disable					<b>S</b>	Y	<b>2</b>			
	IP CH6	Disable			10 s		<b>×</b>	×				
	IP CH7	Disable					<b>×</b>	×				
	IP CH8	Disable			10 s		<b>×</b>	×	2			
	IP CH9	Disable					<b>S</b>	<b>N</b>	<b>~</b>			
	IP CH10	Disable			10 s		<b>S</b>	Y	2			
	IP CH11	Disable			10 s		<b>S</b>	~	<b>2</b>			
	IP CH12	Disable			10 s		<b>S</b>	<b>X</b>	<b>M</b>			
	IP CH13	Disable			10 s		×	×	2			
	IP CH14	Disable					<b>S</b>	<b>X</b>	<b>M</b>			
	IP CH15	Disable			10 s		×	×				
	IP CH16	Disable			10 s		×	<b>X</b>				
	IP CH17	Disable			10 s		×	×				
	IP CH18	Disable			10 s		<b>V</b>	<b>V</b>	2			
										Copy De	fault Save	
											Default	Apply

Setup	С	hannel Rec	ord	Alarm Al Network D	evice System					04/11/2022	20:03:15	$\times$
Setup		F	R A	D LPR PD & VD PID	LCD CC CD Q	D LPD RSD						
Recognition						Alarm [ Allow Lis	t]			×		
• Recognition	Out	Latch Time		License Plate Caputre	Save Background	Show Thumbnail 🗸	Send Email 🗸	FTP Picture Upload	Picture to Cloud	Voice Prompts		
Alarm		10 e								@		
O Statistics		10 s	~							6		
		10 s			5			~				
		10 s		~	~	<b>Z</b>		~		ø		
		10 s		<b>V</b>	<b>V</b>	×		×		0		
		10 s		<b>×</b>	×			×				
		10 s		×	>	×		>				
		10 s		<b>V</b>	V	<b>M</b>		V				
		10 s		×	Y	×		×				
		10 s		<b>×</b>	Y	×		<b>×</b>				
		10 s		<b>N</b>	Y			×				
		10 s		<b>N</b>	<b>N</b>	M		<b>×</b>				
		10 s		×	<b>&gt;</b>	M		>				
		10 s		×	×	<b>M</b>		×				
		10 s		×	Y	<b>M</b>		<b>V</b>				
		10 s		<b>Y</b>	Y	M		×				
		10 s		<b>V</b>	V	×		×				9
				×	×	<b>V</b>		×				
									Default			
										Default	Apply	

**Buzzer:** DVR internal buzzer. You can set the buzzer duration time (in seconds) for triggering a license plate alarm.

License Plate Capture: License plate number picture capture.

**Save Background:** save the background.

**Show Thumbnail:** show the little thumbnails.

Send Email: When the license plate is detected, the picture is sent to the mailbox.

FTP Picture Upload: When the license plate is detected, the picture is sent to the FTP.

Picture to Cloud: When the license plate is detected, the picture is sent to the Cloud.

**Voice Prompts:** When the alarm is triggered, good audio files will be imported through voice prompts.

Setup Channel	Record	d Alam	m Al	Netw	iork D	)evice	System	n							O2/23/2022 0	09:48:09 X
			LPR													
© Recognition				Group Na			Enat									
	1 🔳							Ala	m Sch	edule [ All	ow List ]			×		
A Challeding	2															
• Statistics	3	Channe													0	
	5														0	
	6	SUN							TT							
		- COSIN														
		MON														
		TUE														
		-														
		WED														
		тни														
		EDI														
		1.154														
		SAT														
													Default			
															Default	Apply

Alarm Schedule: Click 🙆 to enter schedule interface.

Check the time period that you want to alarm, Click **Apply** to save. Click **Copy** to copy the current channel parameters to other channels.

# 5.4.3.4 PD & VD (Human & Vehicle Detection)

Setup Channel	Re	cord Ala	arm	Al Netwo	rk D	evice Syst	em					G	04/11/2022 20:03:43	$\times$
Setup		FR AD	LPR	PD & VD	PID		CD QD LPD	RSE						
Recognition		Channel		Buzzer		Alarm Out	Latch Time		Record 🗸	Post Recording	Show Message 🗸	Send Email 🗸	FTP Picture Upload 🗸	
Alarm		CH1	OFF			٢	10 s		ON	30 s	<b>2</b>	~	~	
		CH2	OFF						ON	30 s	M		V	
Statistics			OFF				10 s			30 s	<b>M</b>	<b>×</b>	¥	
		CH4	OFF						ON	30 s	<b>N</b>	<b>~</b>	V	
	k	CH5	OFF				10 s			30 s	Y	~	V	
		CH6	OFF				10 s		ON	30 s	Y	~	Y	
			OFF				10 s			30 s	M	×	V	
		CH8	OFF				10 s		ON	30 s	<b>M</b>	~	¥	
		CH9	OFF				10 s		ON	30 s	Y	~	<b>V</b>	
			OFF				10 s		ON	30 s	<b>X</b>	×	V	
			OFF							30 s	Y	~	V	
		CH12	OFF				10 s		ON	30 s	M	<b>×</b>	V	
			OFF				10 s			30 s	<b>×</b>	~	×	
		CH14	OFF				10 s		ON	30 s	<b>N</b>	×	<b>N</b>	
			OFF				10 s			30 s	Y	×	V	
			OFF				10 s		ON	30 s	Y	~	V	
		IP CH2	OFF				10 s			30 s	M	×	V	
		IP CH6	OFF				10 s		ON	30 s	<b>X</b>	~	¥	
												Сору	Default Apply	

Setup Channel	Record Alarm Al	Network D	evice System					04/11/2022	20:03:49 🗙
Setup	FR AD LPR PD	& VD PID		LPD RSD					
Recognition	London Section 1	Desert		Chow Massage		CTD Distance Units of			
· · · · · · · · · · · · · · · · · · ·	Latch Time V	Record V	Post Recording V	Show Message 🗸	Send Email 🗸	FTP Picture Opioad V	Picture to Cloud 🗸	Full Screen V	voice Prompts
Alarm	10 s 🗸	ON ON	30 s 🗸	~	~	~	<u>×</u>		0
Statistics	10 s 🗸	ON (	30 s 🗸	×	>	<b>×</b>	×		۲
	10 s 🗸	ON	30 s 🗸	×	~	×	<u>~</u>		
		ON	30 s 🗸 🗸	Y	>	×	<b>N</b>		
	10 s 🗸 🗸		30 s 🗸 🗸	Y	>	×	Y		
	10 s 🗸	ON	30 s 🗸 🗸	×	>	×	<b>N</b>		
	10 s 🗸		30 s 🗸	<b>N</b>	>	<b>&gt;</b>	<b>M</b>		
	10 s 🗸 🗸	ON	30 s 🗸 🗸	Y	>	<b>S</b>	<b>×</b>		
	10 s 🗸 🗸		30 s 🗸	Y	>	V	Y		
	10 s 🗸 🗸	ON (	30 s 🗸	V	×	<b>V</b>	Y		
			30 s 🗸	Y	>	<b>V</b>	Y		
	10 s 🗸	ON (	30 s 🗸	<b>X</b>	>	<b>N</b>	<b>×</b>		
			30 s 🗸	×	>	>	<b>X</b>		
		ON (	30 s 🗸	<b>X</b>	×	×			۲
	10 s 🗸	ON	30 s 🗸 🗸	×	<b>N</b>	>	2		0
	10 s 🗸	ON	30 s 🗸	V	<b>V</b>	>	Y		٢
	10 s 🗸	ON ON	30 s 🗸	V	×	<b>V</b>	N		0
	10 s 🗸	ON ON	30 s 🗸	×	~	~	<b>2</b>		0
			k						
							Сору	Default	Apply

Configure the pedestrian and vehicle alarm function

#### Channel: channel name

**Buzzer:** DVR internal buzzer. You can set the buzzer duration time (in seconds) for triggering a pedestrian and vehicle alarm.

Alarm out: Check the external alarm device when the pedestrian and vehicle alarm is triggered. Latch Time: Set the duration of triggering the external alert devices (10s, 20s, 40s, and 1Min). Record: Click icon to set channels that pedestrian and vehicle alarms.



**Post Recording:** set the duration of continuous DVR recording after the event occurs. The suggested recording time is 30 seconds, but can be set to up to 5 minutes.

Show Message: Select this box to show **S** icon when pedestrian and vehicle alarms are

#### detected.

**Send Email:** DVR send an automatic email when pedestrian and vehicle alarms are detected. **FTP Picture Upload**: To upload alarm images to FTP server when an alarm is triggered. To enable FTP, please view <u>5.4.4 FTP</u>.

**FTP Video Upload**: To upload alarm video to FTP server when an alarm is triggered. To enable FTP, please view <u>5.4.4 FTP</u>.

**Picture to Cloud**: To upload alarm images to Cloud server when an alarm is triggered. To enable Cloud, please view <u>5.5.2 Cloud.</u>

**Video to Cloud**: To upload alarm video to Cloud server when an alarm is triggered. To enable Cloud, please view <u>5.5.2 Cloud</u>.

**Full Screen:** If this feature is enabled and the pedestrian and vehicle alarms are detected in the channel, you will see the channel in full-screen mode.

**Voice Prompts:** Voice prompt, when the alarm is triggered, the audio file is imported by the voice prompt (the IPC needs to support the voice prompt function), Please view in <u>5.3.8 Voice</u> <u>Prompts</u>

### 5.4.3.5 PID (Perimeter Intrusion Detection)

Setup Channel	Record Ala	arm <u>Al</u> Net	work D	evice Syst	em						9	04/11/2022 20:05:41	$\times$
Setup		LPR PD & VI	D PID		CD QD LPD	RSI							
Recognition	Channel	Buzzer		Alarm Out	Latch Time		Record V	Post Recording		Show Message 🗸	Send Email 🗸	FTP Picture Upload 🗸	
A Alarma	CH1	OFF		6	10 s		ON	30 s		<b>~</b>	~		
▼ Alam	CH2	OFF		6	10.5	~	ON ON	30 s	~				
Statistics	СНЗ	OFF		0	10 s		ON	30 s			~	~	
	CH4	OFF		0	10 s		ON	30 s			~	~	
	CH5	OFF		0	10 s		ON ON	30 s				<b>V</b>	
	CH6	OFF		۲	10 s		ON ON	30 s			~	V	
		OFF						30 s			×	V	
	CH8	OFF			10 s		ON	30 s			~	<b>X</b>	
	CH9	OFF					ON ON	30 s			~	>	
		OFF			10 s		ON ON	30 s			×	×	
		OFF						30 s		<b>M</b>	~	×	
	CH12	OFF			10 s		ON ON	30 s			×	V	
		OFF			10 s			30 s			×	×	
	CH14	OFF			10 s		ON	30 s			~	V	
		OFF			10 s			30 s			×	V	
		OFF			10 s		ON	30 s		<b>M</b>	~	Y	
	IP CH2	OFF			10 s			30 s			×	Y	
	IP CH6	OFF			10 s		ON	30 s		<b>M</b>	<b>×</b>	Y	
											Сору	Default Apply	

Setup Channel	Record Alarm Al	Network Device	System					04/11/2022	20:05:47 🗙
Ø Setup	FR AD LPR P	D&VD PID LCD		LPD RSD					
Recognition	Deet Decention	Rhow Massaga	Sand Email	FTD Distance Haland	ETD Video Unload	Ristory to Alloyd	Midaa ka Olaad	Full Carrow	Voine Deserves
	Post Recording	<ul> <li>Show message </li> </ul>	Send Email V	FTP Picture Opioad V		Picture to Cloud 🗸	video to Cioud	Full Screen V	voice Prompts
Alarm	30 s 🛰		<u>~</u>	×					
Statistics	30 s 🗸	× <u>×</u>	$\sim$	~					0
	30 s 💊		$\mathbf{\sim}$	~	×				٢
	30 s	*	~	~	×	<b>×</b>			۲
	30 s 🔻	· 🗹	~	<b>×</b>	<b>M</b>				
	30 s		<b>×</b>	<b>Y</b>	Y	<b>N</b>			
	30 s 💊	<ul> <li>Maintaine</li> </ul>	<b>V</b>	<b>Y</b>	Y	<b>M</b>			
	30 s	<ul> <li>Sector</li> </ul>	×	<b>×</b>	<b>M</b>	<b>M</b>			
	30 s	<ul> <li>Image: Second sec</li></ul>	$\checkmark$	<b>S</b>	<b>S</b>	<b>M</b>			
	30 s	· 🗹	<b>×</b>	$\checkmark$	<b>M</b>				
	30 s		$\checkmark$	<b>×</b>	<b>N</b>	<b>2</b>			
	30 s 💊	<ul> <li>✓</li> </ul>	<b>×</b>	Y	<b>X</b>	<b>X</b>			
	30 s 💊		~	<b>X</b>	Y				
	30 s	· 🖂	$\sim$	<b>N</b>	<b>N</b>				
	30 s	· 🖂	<b>×</b>	V	M				
	30 s		~	<b>V</b>	<b>X</b>				
	30 s	· 🗹	<b>V</b>	<b>N</b>	<b>S</b>				
	30 s	· 🖂	~	<b>V</b>					
								Default	Apply

Configure the perimeter intrusion alarm function

Channel: channel name

**Buzzer:** DVR internal buzzer. You can set the buzzer duration time (in seconds) for triggering a perimeter intrusion alarm.

Alarm out: Check the external alarm device when perimeter intrusion alarm is triggered.

Latch Time: Set the duration of triggering the external alert devices (10s, 20s, 40s, and 1Min). Record: Click 🙆 icon to set channels that pedestrian and vehicle alarms.



**Post Recording:** set the duration of continuous DVR recording after the event occurs. The suggested recording time is 30 seconds, but can be set to up to 5 minutes.

Show Message: Select this box to show S icon when perimeter intrusion alarm are detected.

**Send Email:** DVR send an automatic email when perimeter intrusion alarm are detected. **FTP Picture Upload**: To upload alarm images to FTP server when an alarm is triggered. To enable FTP, please view <u>5.4.4 FTP</u>.

**FTP Video Upload**: To upload alarm video to FTP server when an alarm is triggered. To enable FTP, please view <u>5.4.4 FTP</u>.

**Picture to Cloud**: To upload alarm images to Cloud server when an alarm is triggered. To enable Cloud, please view <u>5.5.2 Cloud</u>.

**Video to Cloud**: To upload alarm video to Cloud server when an alarm is triggered. To enable Cloud, please view <u>5.5.2 Cloud.</u>

**Full Screen:** If this feature is enabled and the perimeter intrusion alarm are detected in the channel, you will see the channel in full-screen mode.

**Voice Prompts:** Voice prompt, when the alarm is triggered, the audio file is imported by the voice prompt (the IPC needs to support the voice prompt function), Please view in <u>5.3.8 Voice</u> <u>Prompts</u>
## 5.4.3.6 LCD (Line Crossing Detection)

Setup Channel	Record Ala	arm Al Ne	twork D	evice Syst	tem					9	04/11/2022 20:06:11	×
Setup		LPR PD & \	D PID	LCD CC	CD QD LPD	RS						
Recognition	Channel	Buzzer		Alarm Out	Latch Time		Record 🗸	Post Recording	Show Message 🗸	Send Email 🗸	FTP Picture Upload 🗸	
Alarm	CH1	OFF		٢	10 s		ON	30 s	<b>2</b>	~	~	
	CH2	OFF					ON (	30 s	<b>M</b>	<b>V</b>		
Statistics		OFF			10 s			30 s		<b>S</b>	$\checkmark$	
	CH4	OFF			10 s		ON	30 s		~	$\mathbf{\sim}$	
	CH5	OFF			10 s			30 s		$\checkmark$	<b>×</b>	
	CH6	OFF			10 s		ON	30 s		>	<b>M</b>	
		OFF			10 s			30 s		<b>X</b>		
	CH8	OFF			10 s		ON	30 s		>	<b>S</b>	
	CH9	OFF			10 s			30 s		<b>V</b>	<b>M</b>	
	CH10	OFF			10 s		ON	30 s		×	<b>M</b>	
		OFF						30 s	<b>M</b>	×	<b>M</b>	
		OFF			10 s		ON	30 s	M	<b>×</b>	M	
		OFF			10 s			30 s		×	<b>S</b>	
	CH14	OFF			10 s		ON	30 s		×	<b>M</b>	
		OFF			10 s			30 s		×	×	
		OFF			10 s		ON	30 s	<b>M</b>	×	<b>M</b>	
	IP CH2	OFF			10 s			30 s	M	<b>×</b>		
	IP CH6	OFF			10 s		ON	30 s		×	<b>S</b>	
										Сору	Default Apply	

Setup Channel	Record Alarm Al N	etwork Device	System					04/11/2022	20:06:14 🗙
Setup	FR AD LPR PD &	VD PID LCD		LPD RSD					
© Recognition	Post Recording 🗸	Show Message 🗸	Send Email 🗸	FTP Picture Upload 🐱	FTP Video Upload 🗸	Picture to Cloud 🗸	Video to Cloud	Full Screen 🗸	Voice Prompts
Alarm	30 s 🗸	<b>~</b>	~	<b>~</b>					0
	30 s 🗸	<b>S</b>	<b>V</b>	<b>S</b>		<b>S</b>			
Statistics	30 s 🗸 🗸	<b>S</b>	<b>×</b>	<b>M</b>	<b>M</b>	<b>M</b>			
	30 s 🗸 🗸	<b>V</b>	~			M			
	30 s 🗸	V	$\checkmark$	<b>N</b>		M			
	30 s 🗸 🗸	>	~	<b>Y</b>	<b>X</b>	2			
	30 s 🗸 🗸	M	<b>S</b>	<b>N</b>		2			
	30 s 🗸 🗸	<b>M</b>	×	<b>S</b>					
	30 s 🗸 🗸	S	>						
	30 s 🗸 🗸	<b>N</b>		<b>M</b>					
	30 s 🗸 🗸	<b>X</b>	×	×.	<b>M</b>	<b>M</b>			
	30 s 🗸 🗸	<b>V</b>	<b>×</b>	M	<b>N</b>	2			
	30 s 🗸 🗸	×	×	M	<b>M</b>	<b>M</b>			
	30 s 🗸 🗸	M	$\checkmark$	<b>S</b>	2	M			
	30 s 🗸 🗸	M	$\checkmark$	<b>N</b>	<b>M</b>	M			
	30 s 🗸 🗸	Y	×	<b>Y</b>	M	M			
	30 s 🗸 🗸	M	×	M		M			
	30 s 🗸 🗸	Y	×	Y		M			
		k							
								Default	Apply

Configure the Line cross detection alarm function.

Channel: channel name

**Buzzer:** DVR internal buzzer. You can set the buzzer duration time (in seconds) for triggering a Line Cross detection alarm.

Alarm out: Check the external alarm device when Line cross alarm is triggered.

Latch Time: Set the duration of triggering the external alert devices (10s, 20s, 40s, and 1Min). Record: Click 🙆 icon to set channels that pedestrian and vehicle alarms.



**Post Recording:** set the duration of continuous DVR recording after the event occurs. The suggested recording time is 30 seconds, but can be set to up to 5 minutes.

Show Message: Select this box to show **S** icon when LCD alarm are detected.

Send Email: DVR send an automatic email when LCD alarm are detected.

**FTP Picture Upload**: To upload alarm images to FTP server when an alarm is triggered. To enable FTP, please view <u>5.4.4 FTP</u>.

**FTP Video Upload**: To upload alarm video to FTP server when an alarm is triggered. To enable FTP, please view <u>5.4.4 FTP</u>.

**Picture to Cloud**: To upload alarm images to Cloud server when an alarm is triggered. To enable Cloud, please view <u>5.5.2 Cloud</u>.

**Video to Cloud**: To upload alarm video to Cloud server when an alarm is triggered. To enable Cloud, please view <u>5.5.2 Cloud</u>.

**Full Screen:** If this feature is enabled and the LCD alarm are detected in the channel, you will see the channel in full-screen mode.

**Voice Prompts:** Voice prompt, when the alarm is triggered, the audio file is imported by the voice prompt (the IPC needs to support the voice prompt function), Please view in <u>5.3.8 Voice</u> <u>Prompts</u>

## 5.4.3.7 CC (Cross Counting)

Setup Channel	Record Ala	arm Al Netw	vork D	evice Syst	tem					9	04/11/2022 20:06:36	×
Ø Setup		LPR PD & VD	PID	LCD CC	CD QD LPD	RS						
© Recognition	Channel	Buzzer		Alarm Out	Latch Time		Record 🗸	Post Recording	Show Message 🗸	Send Email 🗸	FTP Picture Upload	
Alarm	IP CH2	OFF		۲	10 s		ON	30 s	<b>Z</b>	≤	~	
Statistics	IP CH6	OFF					ON	30 s		M	V	
		h										
											Default App	ly
Setup Channel	Record Ala	arm Al Netw	vork D	evice Syst	tem					9		×

∲ Setup	FR AD LPR F	D&VD PID LCD	CC CD QD	LPD RSD					
© Recognition	Post Recording	🗸 Show Message 🗸	Send Email 🗸	FTP Picture Upload 🗸	FTP Video Upload 🗸	Picture to Cloud 🐱	Video to Cloud	Full Screen 🗸	Voice Prompts
	30 s	/	≤	<b>×</b>		$\mathbf{M}$			٢
Statistics	30 s	× 🗹		M					
		•							
							Сору	Default	Apply

Configure Cross-Counting function in this interface.

Channel: Channel name

**Buzzer:** DVR internal buzzer. You can set the buzzer duration time (in seconds) for triggering a Cross-Counting alarm.

Alarm out: Check the external alarm device when Cross-Counting is triggered.

Latch Time: Set the duration of triggering the external alert devices (10s, 20s, 40s, and 1Min). Record: Click 🙆 icon to set channels that pedestrian and vehicle alarms.



**Post Recording:** set the duration of continuous DVR recording after the event occurs. The suggested recording time is 30 seconds, but can be set to up to 5 minutes.

Show Message: Select this box to show S icon when CC alarm are detected.

Send Email: DVR send an automatic email when CC alarm are detected.

**FTP Picture Upload**: To upload alarm images to FTP server when an alarm is triggered. To enable FTP, please view 5.4.4 FTP.

**FTP Video Upload**: To upload alarm video to FTP server when an alarm is triggered. To enable FTP, please view <u>5.4.4 FTP</u>.

**Picture to Cloud**: To upload alarm images to Cloud server when an alarm is triggered. To enable Cloud, please view <u>5.5.2 Cloud</u>.

**Video to Cloud**: To upload alarm video to Cloud server when an alarm is triggered. To enable Cloud, please view <u>5.5.2 Cloud.</u>

**Full Screen:** If this feature is enabled and the CC alarm are detected in the channel, you will see the channel in full-screen mode.

**Voice Prompts:** Voice prompt, when the alarm is triggered, the audio file is imported by the voice prompt (the IPC needs to support the voice prompt function), Please view in <u>5.3.8 Voice</u> <u>Prompts</u>

## 5.4.3.8 CD (Crowd Density Detection)

Setup Channel	Record Ala	irm Al Netwo	ork D	evice Syst	em					9	04/11/2022 20:	07:18
♦ Setup		LPR PD & VD	PID		CD QD LPD	RSD						
Recognition	Channel	Buzzer		Alarm Out	Latch Time		Record 🗸	Post Recording	Show Message 🗸	Send Email 🗸	FTP Picture Up	oload 🗸 🕴
	IP CH2	OFF		۲	10 s		ON	30 s	×	<b>×</b>	<b>~</b>	
Statistics	IP CH6	OFF			10 s		ON	30 s		<b>N</b>	<b>×</b>	
					×							
										Сору	Default	Apply

#### **USER MANUAL**

Setup Channel	Record Alarm Al	Network Device	System					04/11/2022	20:07:19
♦ Setup	FR AD LPR P	D&VD PID LCD	CC CD QD	LPD RSD					
Recognition	Post Recording	✓ Show Message ✓	Send Email 🗸	FTP Picture Upload 🗸	FTP Video Upload 🗸	Picture to Cloud 🗸	Video to Cloud	Full Screen 🗸	Voice Prompts
	30 s 🗸	<ul> <li></li> </ul>		<b>~</b>		<b>M</b>			٢
Statistics	30 s 🗸	<ul> <li>Image: Second sec</li></ul>		M					
			N						
								Default	Apply

Configure Crowd Density Detection in this interface.

#### Channel: channel name

**Buzzer:** DVR internal buzzer. You can set the buzzer duration time (in seconds) for triggering a Crowd Density alarm.

Alarm out: Check the external alarm device when Crowd Density alarm is triggered.

Latch Time: Set the duration of triggering the external alert devices (10s, 20s, 40s, and 1Min). Record: Click () icon to set channels that pedestrian and vehicle alarms.



**Post Recording:** set the duration of continuous DVR recording after the event occurs. The suggested recording time is 30 seconds, but can be set to up to 5 minutes.

Show Message: Select this box to show **S** icon when CD alarm are detected.

Send Email: DVR send an automatic email when CD alarm are detected.

**FTP Picture Upload**: To upload alarm images to FTP server when an alarm is triggered. To enable FTP, please view <u>5.4.4 FTP</u>.

**FTP Video Upload**: To upload alarm video to FTP server when an alarm is triggered. To enable FTP, please view <u>5.4.4 FTP</u>.

**Picture to Cloud**: To upload alarm images to Cloud server when an alarm is triggered. To enable Cloud, please view 5.5.2 Cloud.

**Video to Cloud**: To upload alarm video to Cloud server when an alarm is triggered. To enable Cloud, please view <u>5.5.2 Cloud</u>.

**Full Screen:** If this feature is enabled and the CD alarm are detected in the channel, you will see the channel in full-screen mode.

**Voice Prompts:** Voice prompt, when the alarm is triggered, the audio file is imported by the voice prompt (the IPC needs to support the voice prompt function), Please view in <u>5.3.8 Voice</u> <u>Prompts</u>

Setup	Channel	Record Ala	m <mark>Al</mark> N	etwork [	Device Sy	stem					(	04/11/2022	20:07:53 🗙
Ø Setup			LPR PD &	VD PID		CD QD	LPD RS	D					
Recognition		Channel	Buzze		Alarm Out	Latch	Time 🗸	Record v	Post Recording	✓ Show Messag	e 🗸 🛛 Send Email -	✓ FTP Pictur	e Upload 🗸 🛛 F
Alarm		IP CH2	OFF		٢	10 s		ON	30 s	<ul> <li>✓</li> </ul>			~
Statistics		IP CH6	OFF			10 s		ON	30 s	× 🗹			<b>V</b>
								k					
											Copy	Default	Apply
											Сору	Derault	Арріу
Setup	Channel	Record Ala	m <mark>Al</mark> N	etwork [	Device Sy	stem					(	04/11/2022	20:07:55 🗙
Setup	Channel	Record Alar FR AD	m AI N	etwork [ VD PID	Device Sy LCD CC	stem	LPD RS	D			(	04/11/2022	20:07:55 🗙
<ul> <li>Setup</li> <li>Setup</li> <li>Recognition</li> </ul>	Channel	Record Alar FR AD	m Al N LPR PD&	etwork [ VD PID Show Mes	Device Sy LCD CC ssage v S	Stem CD QD Send Email 🗸	LPD RS	D re Upload 🗸	FTP Video Upload 🗸	Picture to Cloud	( → Video to Cloud	● 04/11/2022 Full Screen →	20:07:55 X Voice Prompts
<ul> <li>Setup</li> <li>Setup</li> <li>Recognition</li> <li>Alarm</li> </ul>	Channel	Record Alar FR AD Post Reco	m Al N LPR PD& rding V	etwork [ VD PID Show Mes	Device Sy LCD CC ssage V S	CD QD Send Email V	LPD RS	D re Upload 🗸	FTP Video Upłoad 🗸	Picture to Cloud	( ✓ Video to Cloud	O 04/11/2022 Full Screen ↓	20:07:55 X Voice Prompts
Setup     Setup     Recognition     Alarm     Statistics	Channel	Record Alar FR AD Post Reco 30 s 30 s	m Al N LPR PD & rding V	etwork [ VD PID Show Mes	Device Sy LCD CC ssage v S	Stem CD QD Send Email V V V	LPD RS	D re Upload 🗸	FTP Video Upload 🗸	Picture to Cloud	Video to Cloud	O 44/11/2022 Full Screen ↓	20:07:55 X Voice Prompts ©
Setup     Setup     Recognition     Aiam     Statistics	Channel	Record Alar FR AD Post Reco 30 s 30 s	m Al N LPR PD & rding V	etwork [ VD PID Show Mes	Device Sy LCD CC ssage V S	Send Email V	LPD RS	D re Upload 🗸 V	FTP Video Upload 🗸	Picture to Cloud	Video to Cloud	© 04/11/2022	20:07:55 X Voice Prompts ③
Setup     Setup     Recognition     Alarm     Statistics	Channel	Record Alam FR AD Post Reco 30 s 30 s	m Al N LPR PD & rding ~	etwork [ VD PID Show Mer	Device Sy LCD CC ssage ~ S	stem CD QD Gend Email V V	LPD RS	D re Upload 🗸	FTP Video Upload 🗸	Picture to Cloud	Video to Cioud	O4/11/2022	20:07:55 X Voice Prompts ©
Setup     Recognition     Alarm     Statistics	Channel	Record Alar FR AD Post Reco 30 s	m Al N LPR PD & rding V	etwork [ VD PID Show Mes	Device Sy LCD CC ssage V S	Stem CD Stend Email ↓ ♥ ♥	LPD RS	D re Upload 🗸	FTP Video Upload 🗸	Picture to Cloud	Video to Cloud	● 04/11/2022	20:07:55 X Voice Prompts ©
Setup     Setup     Recognition     Aurm     Statistics	Channel	Record Alat FR AD Post Reco 30 s 30 s	m Ál N LPR PD & rding V	etwork [ VD PID Show Mes	Device Sy LCD CC issage V S	Stem CDCD Stend Email v Y	LPD RS	D re Upload 🐱	FTP Video Upload 🗸	Picture to Cloud	Video to Cloud	● 04/11/2022	20:07:55 X Voice Prompts ©
Setup     Setup     Recognition     Alam     Statistics	Channel	Record Alar FR AD Post Reco 30 s 30 s	m Al N LFR PD & rding ~	etwork [ VD PID Show Mee	Device Sy LCD CC sage V S	stem CD OC Stend Email V V	LPD RS	D Tre Upload v	FTP Video Upload 🗸	Picture to Cloud	Video to Cioud	€ 04/11/2022 Full Screen ↓	20:07:55 X Voice Prompts ©
Setup     Setup     Recognition     Alarm     Statistics	Channel	Record Alar FR AD Post Reco 30 s 30 s	m Al N LPR PD& rding ~ ~	etwork [ VD PID Show Mes	Device Sy LCD CC sage \$	stem CD O Send Email V V	LPD RS	D re Upload 🗸	FTP Video Upload 🗸	Picture to Cloud	Video to Cloud	€ 04/11/2022	20.07.55 X Voice Prompts ©
Setup     Recognition     Atarm     Statistics	Channel	Record Alas FR AD Post Reco 30 s 30 s	m Al N LPR PD& rdling ~	etwork ( VD PID Show Mes	Device Sy LCD CC ssage v 1	stem CD QD Send Email V V	LPD RS	D re Uplcad v	FTP Video Upload 🗸	Picture to Cloud	Video to Cloud	● 04/11/2022           Full Screen ∨	20:07:55 X Voice Prompts ©
Setup     Recognition     Atarm     Statistics	Channel	Record Alar FR AD 30 s 30 s	m Al N LIPR PD& rdling ~	etwork ( VD PID Show Mer	Device Sy LCD CC ssage v 4	stem CD QD Send Email ~ X	LPD RS	D re Upload 🗸	FTP Video Upload 🗸	Picture to Cloud	Video to Cloud	● 04/11/2022           Full Screen ∨	20:07:55 X Voice Prompts ©
Setup     Setup     Recognition     Atam     Statistics	Channel	Record Alar FR AD 90st Reco 30 s 30 s	m Al N LPR PD \$ rdling ~ ~	etwork ( VD PID Show Mes	Device Sy LCD CC ssage V S	stem	LPD RS	D re Upload v	FTP Video Upload 🗸	Picture to Cloud	Video to Cloud	Guide         64/11/2022           Full Screen ∨         □           □         □	20.07.55 X Voice Prompts ©
Setup     Recognition     Aarm     Statistics	Channel	Record Alar FR AD 30 s 30 s	m Al N LPR PD & rding ~	etwork ( VD PID Show Mes	Device Sy LCD CC ssage V S	stem CD Send Email ~ Y	LPD RS	D re Upload v	FTP Video Upload 🗸	Picture to Cloud	Video to Cioud	General Content         General Content           Full Screen ∨         General Content           General Content         General Content	20:07:55 X Voice Prompts ©
Setup     Setup     Recognition     Alarm     Statistics	Channel	Record Alar FR AD 30 s 30 s	m Al N LPR PD &	etwork [ VD PID Show Mes	Device Sy LCD CC ssage V S	stem CD OD Send Email V V	LPD RS	D re Upload 🗸	FTP Video Upload V	Picture to Cloud	Video to Cloud	€ 04/11/2022	20.07.55 X Voice Prompts ©
Setup     Recognition     Atarm     Statistics	Channel	Record Alar FR AD 30 s 30 s	m Al N LPR PD& rdling ~	etwork [ VD PID Show Mer	Device Sy LCD CC ssage v S	stem CD QD Send Email ~ X	LPD RS	D re Upload v	FTP Video Upload	Picture to Cloud	Video to Cloud	● 04/11/2022	20:07:55 X Voice Prompts ©
Setup  Recognition  Statistics	Channel	Record Alar FR AD 30 s 30 s	m Al N LPR PD \$ rdling ~ ~	etwork [ VD PID Show Mes	Device Sy LCD CC	stem	LPD RS	D Te Upload v	FTP Video Upload	Picture to Cloud	Video to Cloud	• 04/11/2022	20.07.55 X Voice Prompts ©
Setup     Recognition     Alam     Statistics	Channel	Record Alar FR AD 30 s 30 s	m Al N LPR PD &	etwork ( VD PID Show Mer	Device Sy LCD CC ssage V S	stern	LPD RS	D Te Upload v	FTP Video Upload 🗸	Picture to Cloud	Video to Cioud	• 04/11/2022	20.07.55 X Voice Prompts ©
Setup  Recognition  Statistics	Channel	Record Alar FR AD 30 s 30 s	m Al N LPR PD &	etwork ( VD PID Show Mes	Device Sy LCD CC ssage V S	stem	LPO RS	D re Upload v	FTP Video Upload v	Picture to Cloud	Video to Cloud	© 04/11/2022	20.07.55 X Voice Prompts ©

## 5.4.3.9 QD (Queue Length Detection)

Configure Queue Length detection in this interface.

Channel: channel name

**Buzzer:** DVR internal buzzer. You can set the buzzer duration time (in seconds) for triggering a Queue Length alarm.

Alarm out: Check the external alarm device when Queue Length alarm is triggered.

Latch Time: Set the duration of triggering the external alert devices (10s, 20s, 40s, and 1Min). Record: Click 🙆 icon to set channels that pedestrian and vehicle alarms.



**Post Recording:** set the duration of continuous DVR recording after the event occurs. The suggested recording time is 30 seconds, but can be set to up to 5 minutes.

Show Message: Select this box to show **S** icon when QD alarm are detected.

Send Email: DVR send an automatic email when QD alarm are detected.

**FTP Picture Upload**: To upload alarm images to FTP server when an alarm is triggered. To enable FTP, please view <u>5.4.4 FTP</u>.

**FTP Video Upload**: To upload alarm video to FTP server when an alarm is triggered. To enable FTP, please view <u>5.4.4 FTP</u>.

**Picture to Cloud**: To upload alarm images to Cloud server when an alarm is triggered. To enable Cloud, please view 5.5.2 Cloud.

**Video to Cloud**: To upload alarm video to Cloud server when an alarm is triggered. To enable Cloud, please view <u>5.5.2 Cloud</u>.

**Full Screen:** If this feature is enabled and the QD alarm are detected in the channel, you will see the channel in full-screen mode.

**Voice Prompts:** Voice prompt, when the alarm is triggered, the audio file is imported by the voice prompt (the IPC needs to support the voice prompt function), Please view in <u>5.3.8 Voice</u> <u>Prompts</u>

# Setup FR Record Marm Othere PP CH8 </tabl

## 5.4.3.10 LPD (License Plate Detection)

#### **USER MANUAL**

Channel Channel		Network Device	System					04/11/2022	20:08:17
e Setup				100 000				O off the ball	20100111
Setup	FR AD LPR PD	A VU PID LCD		LPD RSD					
Recognition	Post Recording 🗸 🗸	Show Message 🗸	Send Email 🗸	FTP Picture Upload 🐱	FTP Video Upload 🗸	Picture to Cloud 🗸	Video to Cloud	Full Screen 🗸	Voice Prompts
	30 s 🗸	<b>M</b>	$\mathbf{\mathbf{v}}$	<u>×</u>					
Statistics									
			k						
							Сору	Default	Apply

Channel: channel name

**Buzzer:** DVR internal buzzer. You can set the buzzer duration time (in seconds) for triggering a License plate detection.

Alarm out: Check the external alarm device when License plate detection is triggered. Latch Time: Set the duration of triggering the external alert devices (10s, 20s, 40s, and 1Min). Record: Click icon to set channels that License plate detection alarms.

Record Channe																
Analog Channels	1	2				6	7			10	11	12	13	14	15	16
IP Camera		2	3		5	6	7	8	9	10	11	12	13	14	15	16
	17		19	20	21	22	23									

**Post Recording:** set the duration of continuous DVR recording after the event occurs. The suggested recording time is 30 seconds, but can be set to up to 5 minutes.

Show Message: Select this box to show **S** icon when LPD alarm are detected.

Send Email: DVR send an automatic email when LPD alarm are detected.

**FTP Picture Upload**: To upload alarm images to FTP server when an alarm is triggered. To enable FTP, please view <u>5.4.4 FTP</u>.

**FTP Video Upload**: To upload alarm video to FTP server when an alarm is triggered. To enable FTP, please view <u>5.4.4 FTP</u>.

**Picture to Cloud**: To upload alarm images to Cloud server when an alarm is triggered. To enable Cloud, please view <u>5.5.2 Cloud.</u>

**Video to Cloud**: To upload alarm video to Cloud server when an alarm is triggered. To enable Cloud, please view <u>5.5.2 Cloud.</u>

**Full Screen:** If this feature is enabled and the LPD alarm are detected in the channel, you will see the channel in full-screen mode.

**Voice Prompts:** Voice prompt, when the alarm is triggered, the audio file is imported by the voice prompt (the IPC needs to support the voice prompt function), Please view in <u>5.3.8 Voice</u> <u>Prompts</u>.

Copy Default Apply

## 5.4.3.11 RSD (Rare Sound Detection)

Setup Channel	Record Alarm Al	Network Device Sys	tem				Ċ	04/11/2022	20:09:14	×
Setup	FR AD LPR PD	& VD PID LCD CC	CD QD LP	PD RSD						
Recognition	Channel Buz:	zer 🗸 Alarm Out	Latch Time	✓ Record ✓	Post Recording	<ul> <li>Show Message </li> </ul>	Send Email 🗸	FTP Picture	Upload 🗸	
Alarm	IP CH2 OFF	<ul> <li>✓ (a)</li> </ul>	10 s	✓ (a) ON	30 s 🗸	· · · · · · · · · · · · · · · · · · ·	~		2	
<ul> <li>Statistics</li> </ul>	IP CH6 OFF			✓	30 s 🗸		<b>N</b>			
♦ Statistics				k			-			
							Сору	Default	Apply	
Setup Channel	Record Alarm Al	Network Device Sys	tem				(L	04/11/2022 :	20:09:15	×
<ul> <li>Setun</li> </ul>	FR AD LPR PD	& VD PID LCD CC	CD QD LP	PD RSD						
<ul> <li>Recognition</li> </ul>	Post Recording V	Show Message 🗸 S	end Email 🗸 🕞	TP Picture Upload 🗸	FTP Video Upload 🗸	Picture to Cloud 🗸	Video to Cloud	Full Screen 🗸	Voice Promp	ts
Alarm	30 s ~	S S	×						0	
Statistics										

Configure the Rare Sound Detection in this interface.

Channel: channel name

**Buzzer:** DVR internal buzzer. You can set the buzzer duration time (in seconds) for triggering a Rare Sound Detection.

Alarm out: Check the external alarm device when Rare Sound Detection is triggered.

Latch Time: Set the duration of triggering the external alert devices (10s, 20s, 40s, and 1Min). Record: Click 🙆 icon to set channels that Rare Sound Detection alarms.



**Post Recording:** set the duration of continuous DVR recording after the event occurs. The suggested recording time is 30 seconds, but can be set to up to 5 minutes.

Show Message: Select this box to show **S** icon when RSD alarm are detected.

Send Email: DVR send an automatic email when RSD alarm are detected.

**FTP Picture Upload**: To upload alarm images to FTP server when an alarm is triggered. To enable FTP, please view <u>5.4.4 FTP</u>.

**FTP Video Upload**: To upload alarm video to FTP server when an alarm is triggered. To enable FTP, please view <u>5.4.4 FTP</u>.

**Picture to Cloud**: To upload alarm images to Cloud server when an alarm is triggered. To enable Cloud, please view <u>5.5.2 Cloud.</u>

**Video to Cloud**: To upload alarm video to Cloud server when an alarm is triggered. To enable Cloud, please view <u>5.5.2 Cloud.</u>

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

**Voice Prompts:** Voice prompt, when the alarm is triggered, the audio file is imported by the voice prompt (the IPC needs to support the voice prompt function), Please view in <u>5.3.8 Voice</u> <u>Prompts</u>

# 5.4.4 Statistics

You are able to check and manage the statistics of AI functions in this section.

## 5.4.4.1 FD (Face Recognition)

You can check the face recognition statistics in a certain period.

#### **USER MANUAL**



1. Choose the group(s) and channel(s).

2. Select the period from day, week, month, quarter and year.

3. Click the calendar icon to choose the date, and click < or > button to move to last or next period.

4. The statistics will be displayed in pie chart and column chart.

5. Click **Export** button if you want to export the data to USB memory.

### 5.4.4.2 PD & VD (Human & Vehicle Detection)

You can check the face recognition statistics in a certain period.



- 1. Choose the detection type in Intelligent.
- 2. Choose the channel(s).
- 3. Select the period from day, week, month, quarter and year.

4. Click the calendar icon to choose the date, and click < or > button to move to last or next period.

- 4. The statistics will be displayed in pie chart and column chart.
- 5. Click **Export** button if you want to export the data to USB memory.

## 5.4.4.3 CC (Cross Counting)

You can check the face recognition statistics in a certain period.



- 1. Choose the channel & date.
- 2. Choose the **Report Type**: Daily, Weekly, Monthly or Annually.
- 3. Choose the Cross Type: Cross In or Cross Out.
- 4. Choose the **Detection Type**: Motion, Person or Vehicle.
- 5. Click Search button, the result will be displayed in either Column Chart or Line Chart.
- 6. Click **Export** button if you want to export the data to USB memory.

## 5.4.4.4 HM (Heat Map Statistics)

You can check the heat map statistics in a certain period.



- 1. Choose the channel & date.
- 2. Choose the **Report Type**: Daily, Weekly, Monthly or Annually.
- 3. Choose the Cross Type: Cross In or Cross Out.
- 4. Click Search button, the result will be displayed in either Column Chart or Line Chart.
- 5. The result can be displayed by Space & Time.

# 5.5 Network

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

# 5.5.1 General

## 5.5.1.1 General

Setup Channel	Record Alarm A	N Network Device System			(C) 19/03/2021 10:36:26	×
• General	General PPPoE	Port Configuration				
• DDNS	WAN		Internal Interface			
Email	DHCP	<b>▼</b>				
FTP	IP Address	172.020.031.060	IP Address	010.010.025.100		
IP FILTER	Subnet Mask		Subnet Mask	255.255.000.000		
	Gateway					
	IPv6 Address					
	IPv6 Gateway					
	DNS1					
	DNS2					
	Web Compati	bility Mode 🛛 😡				

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

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

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

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

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

#### 5.5.1.2 PPPoE

Setup Channel	Record Alarm A	Network Device System	
General	General PPPoE	Port Configuration	
♦ DDNS	Enable PPPOE		
Email	User	pppoe	
♦ FTP	Password		Show Password
	IP Address		
	Subnet Mask		
	Gateway		
	DNS1		
	DNS2	008.008.008	

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

Check the "Enable PPPOE" box, and then enter the User name & Password of the PPPoE. Click **Apply** to save, system will reboot to active the PPPoE setting.

## 5.5.1.3 Port Configuration

Setup Channel	I Record Alarm AI Network Device System									
🕈 General	General PPPol	General PPPoE Port Configuration								
© DDNS		Service	Protocol	Internal Port	External Port	UPNP Status	Maping Strategy	UPNP		
Email		Web	TCP	00080	00080	Inactive	Auto 🗸	×		
FTP		Client	TCP	09000		Inactive	Auto 💙			
		RTSP	TCP	00554	00554	Inactive	Auto 🗸	>		
V IPPILIEK		Https	ТСР	00443		Inactive	Auto 🗸			
	Instruction:									
	IP Channel: rt	sp://IP:Port/chA/B								
	A:01(ch1),02(c	:h2)								
	B:0(main strea	m),1(sub stream)								
	External IP									
	P2P Switch									

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

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

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

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

Mapping Strategy: Setting up manual mode, it could be manually set up External Port.

## 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 first need to open an account on the DDNS service provider's web page.

Setup Channel	Record Alarr	n Al <u>Network</u> Device System	
© General	DDNS		
• DDNS	DDNS	>	
© Email	Server	NO_IP 🗸	
FTP	Domain	cheng202010.ddns.net	
	User	1850302199@qq.com	
	Password	•••••	Show Password
		Test DDNS	

**DDNS**: Check to enable DDNS.

**Server**: Select the preferred DDNS server (DDNS\_3322, DYNDNS, NO\_IP, CHANGEIP, DNSEXIT).

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

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

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

# 5.5.3 Email

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

Setup Channel	Record Alarm	Al <u>Network</u> Device System	<b>(b)</b> 19/03/2021 10:43:57	×
Ø General	Email Configuration	Email Schedule		
• DDNS	Email			
🔮 Email	Encryption			
♦ FTP	SMTP Port	00025		
	SMTP Server			
V IP FILTER	User Name			
	Password			
	Sender			
	Receiver 2			
	Receiver 3			
	Interval			

## 5.5.3.1 Email Configuration

Email Configuration	Email Schedul	e		
Fmail				
Linan				
Encryption	Auto		~	
SMTP Port	00025			
SMTP Server				
User Name				
Password				Show Password
Sender				
Receiver 1				
Receiver 2				
Receiver 3				
Interval	3 Min		~	
	Test Email			

Email: Check to enable.

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

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

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

User Name: Enter your email address.

Password: Enter the password of your email.

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

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

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

## 5.5.3.2 Email Schedule

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

Setup Char	nnel Record	Alarm Al	Network	Device	System								<b>(</b> ) 19/03/	20
General		Configuration	Email Sched	ule										
DDNS	Channel													
Email	0	2	4	6	8	10	12	14	16	18	20	22	24	
♦ FTP	SUN												<ul> <li>Motion</li> </ul>	
	MON												O IO	
V IPFILIEK	TUE												<ul> <li>In-Analysis</li> </ul>	
	WED												o pir	
	THU													
	FRI													
	SAT													

The color codes on email schedule have the following meanings:

Green: Slot for Motion detection.

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

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

Blue: Slot for Intelligent Analysis detection.

**Purple**: Slot for PIR detection.

# 5.5.4 FTP

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

Setup Channel Record Alarm Al Network Device System							
General	FTP	FTP Schedule					
DDNS FTP End		FTP Enable	M				
🔮 Email		Server IP	172.20.32.2			Test FTP	
€ FTP		Port	00999				
		User Name	admin				
		Password	•••••			Show Password	
		Picture Resolution 1280 x 720 Picture Quality Higher			~		
				Higher 🗸			
		Video Stream Type	Substream		*		
		Max Package Interval	30 Min		~		
		Directory Name	URMET			N.	
		Upload Alarm Video	Motion	PIR Alarm Settings			
	opidad Alarm Video		I/O	Intelligent			

FTP Enable: Click to enable FTP function.

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

**Port**: Enter the FTP port for file exchanges.

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

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

**Test FTP**: Click to test the FTP settings.

#### **FTP Schedule:**



The color codes on email schedule have the following meanings:

Yellow: Slot for Motion detection.

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

Purple: Slot for PIR detection.

Blue: Slot for Intelligent Analysis detection.

# 5.5.5 IP FILTER

IP filter helps to control the remote login devices by using Allow List and Block List to filter the IP address.

Setup Channel Record Alarm Al Network Device System								2 X	
🕆 General	IP FILTER								
• DDNS	Fnah	P	🔦 Enable Allow List 🔿 Enable Bloc	k Liet					
Email				A LID					
Φ FTP	Restricted	Туре	Allow List V						
	Start Addre	:55	192.168.2.99	Ne	single Add				
Voice Assistant									
Platform Access		No. 1	Start Address 192, 168 2, 99	End Address 192 168 2 99		Edit C	Delete		
			192,168.2.99	192.168.2.111					
								Default App	

- 1. If you want to activate this function, check the **Enable** box.
- 2. Choose either **Enable Allow List** or **Enable Block List**. Allow List will only allow those IP address in the list to visit the NVR. Block List will block those IP address in the list to visit the NVR.
- 3. Choose one of the **Restricted Types** you want to set.
- 4. Set the Start IP address and End IP Address.
- 5. Click **Single Add** to add individual IP address.
- 6. Click **Network Segment Add** to add the IP range from the start IP address to the end IP address.
- 7. Click Edit 🖍 icon to edit the IP address.
- 8. Click Delete icon **t** to delete the IP address. Choose multiple IP address, and click Remove IP to delete multiple IP address at one time.

# 5.5.6 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 to your TV monitor by voice control.

Setup Channel	Record Alarm Al Network Device Sy	/stem
General	Amazon Google	
DDNS	User	The user here need to be the account of AWS.
🔮 Email	Bind UnBit	
⊕ FTP		
• IP FILTER	Screen stream Substream	~
Voice Assistant		
Platform Access		

## 5.5.6.1 Voice Assistant with Amazon Fire TV Stick

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

Am	azon	Google			
		User	voiceassist@		The user here need to be the account of AWS.
		Bind			
	Scr	een stream	Substream	~	

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

🞯 Setup	Channel	Record Alarr	n Al Ne	twork Devic	e System		
Channel		Live					
Live		Channel	Setup	Covert 🗸	Channel Name	Show Name 🗸	
Image Control		CH1	۲		front door	<b>~</b>	М
	5		۲		office	<b>~</b>	Y
PTZ	₱ PTZ	СНЗ	0		car gate	<b>~</b>	М
Video Cover		CH4	۲		Camera k	<b>~</b>	М
Motion		CH5	0		back door	<b>~</b>	М

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.

Home				\$
C. Notifications	Account & Profile Settings	(((° Network	्र Display & Sounds	Applications
Equipment Control	(A) Live TV	ြို့ Controllers & Bluetooth Devices	O Alexa	 
Constraints My Fire TV	Accessibility	? Help		

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.

	LOOKS LIKE YOU HAVE SOME AMAZON PROFILES. Create a new profile or add an existing one. Create a New Profile	
Add profile	rsks888 From your Amazon Account	
	ACCOUNT & PROFILE SETTINGS	
$\bigcirc$	Amazon Account Hello, TuringSue	Deregister your Amazon Account and register a new one.
	Sync Amazon Content	
Account & Profile Settings	Prime Video	
	Kids Settings	

5. Search cand 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.

🔿 amazon alexa
Sign-In
Forgot password?
Email (phone for mobile accounts)
Amazon password
Show password
SIGN-IN
By continuing, you agree to Amazon's Conditions

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



7. Touch the search icon on the right top corner.



8. Input the keyword: smart camera view, and search.

<	SEARCH	
Search		
Keyword or skill name smart camera view		×
smart camera view		

Touch the "Smart Camera View" in the search result list.



#### Touch "ENABLE TO USE".



9. 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 X	< Link Account X
Done a.account.amazon.com AA 🖒	Done 🔒 kills-store.amazon.com 🗚 🖒
amazon	amazon alexa
Sign-In Forgot password?	
TTEL2HITHTIGHT COM	
•••••• ×	Smart Camera View has been successfully linked.
Show password	What to do next:
Keep me signed in. Details	$\rightarrow$ Close this window to discover smart-home devices you can control with Alexa.
Sign-In	

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



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

SETUP	< SETUP
Choose which connected device to set up first	Where is your camera?
You can delete connected devices any time from the device settings page	Add your device to a group so you can control devices together and say things like, "Alexa, turn on the Living Room".
	YOUR GROUPS
ch16 🗸	Bedroom
ch13	Family room
ch14	Kitchen
ch8	Living room
	COMMON GROUPS
ch9	Master bedroom
ch11	SKIP
SET UP DEVICE	ADD TO GROUP

12. Repeat setup 11 to add all cameras and then touch **Done** to finish.



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



14. 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".



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





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

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

#### 5.5.6.2 Voice Assistant with Google Chromecast

1. 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 to your TV monitor.

Ę	🕽 Setup	Channel	Record	Alarm	AI	Network	Device	System		
$\oplus$	General		Amazo	n Goog	jle					
¢	DDNS			User		-	@gmail.c	om		The user here need to be the
¢	Email			Bind	k					
¢	FTP									
¢	IP FILTER			Screen str	eam	Substrea	m		~	
0	Voice Assistant									

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

🞯 Setup	Channel	Record Alarn	n Al Ne	twork Device	e System		
Channel		Live					
		Channel	Setup	Covert 🗸	Channel Name	Show Name 🗸	
Image Control		CH1	0		front door	<b>~</b>	М
		CH2	٢		office	<b>~</b>	Ŷ
♥ PTZ		CH3	0		car gate	$\checkmark$	М
Video Cover		CH4	6)		Camera	<b>V</b>	М

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".



Input the Home nickname and address and then touch "Next".

		<	Home address	•••
Home nickname & address		Your home ad like directions	dress will be used for thi	ings
Your home nickname helps you identify your home. The address will be used for things like directions.		United State	ates (US)	
		Address line 1		
Home nickname				
Mike's Home		Address line 2		
11 / 20				
Home address		City		
		State		(j)
Next		Skip		Next
Home nickname Mike's Home 11/20 Home address Next	-	Address line 2 City State Skip	✓ ZIP code	(î) Next

To allow location access for the app.

#### Location Access





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**.



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



#### 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.



#### Touch Next and Skip and finish the 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**.



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



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

Done 🔒 d2cb8.firebaseapp.com 🗚 💍	Done 🔒 d2cb8.firebaseapp.com 🗚 👌
0	0
Sign in with your Google account.	
By signing in, you are authorizing Google to access	Sign in with your Google account.
your devices.	By signing in, you are authorizing Google to access your devices.
G Sign in with Google	TRANSPORT Internation
Note:In order to successfully cast.pld — set up your device and chromecast on the same and a.	Allow Manage Account
	Note: In order to successfully cast, please set up your device and chromecast on the same LAN.

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



13. 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.


14. Repeat step 13 to add all cameras.

+							
	Ho	me					
	٥))	÷ġ:					
Media	Broadcast	Routines	Settings				
	Back door 3 devices						
	<b>e</b> *						
back	door	Insi	de				
Winc	<b>P</b> dow						
Backyard							
Â	<b>n</b> (4	e e	F				

13. Search and install Google Assistant app to your mobile phone from app store.

14. Run the Google Assistant, login your google account which is same as the one you bind to the NVR.

15. 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 o	ffice car	nera on	Mike TV
OK, strea	aming Of	fice on	Mike TV.	
		0 h h	k door	Show

# 5.5.7 Platform Access

This function is mainly used to connect 3<sup>rd</sup> party platform, like ECMS/NVMS via Onvif protocol.

Setup Channel	Record Alarm Al Networ	k Device System	
Ø General	Onvif		
• DDNS	Server	*	
🔍 Email	Enable		
♥ FTP	Authentication	Digest/WSSE V	
	Protocol	нттр 🗸	
♥ IP FILTER	User Name	root	
Platform Access	Password	•••••	Show Password

**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 3<sup>rd</sup> 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.

**Note:** Only data from channel 1 can be transferred to the 3<sup>rd</sup> party.

# 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 Disk

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

Disk S.N	MART								
No. 🗸	Serial No.	Edit	Model	Firmware	Туре	State	Free/Total	Free/Total Time	
	WD-WCAV93VZ0RHX		WDC WD5000AVDS-730781	01.00A01	RW	FULL	0M/465G	0c/36Hour	
Overwrite	Auto 🗸	Format HDD	Add NetHDD					Default	Apply

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

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

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

If your NVR supports to install multiple HDDs, the edit icon  $\boxed{1}{100}$  appears in your system, you can click it to edit the HDD as below:

	HDD	×
HDD ID:	Disk 1	~
Disk Type	Read Write Disk	~
Disk Group	Record Disk Group 1	~

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

Read-write mode is the normal status for a HDD to save recording or search recording to play.

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

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

### 5.6.1.1 S.M.A.R.T

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

Setup Channel	Record Alarm	Al Network Device Sys	tem						<b>(b)</b> 19/03/2021 10:44:56	×
	Disk S.M.A.R	Nex SMART								
Cloud	HDD ID: Self-check State:	WD-WCAV95YV9XTZ Not detected		Self-check	Type: Short					
	TEMP(°C):	40		Utility Time	a(d): 45					
	Whole Evaluation	PASSED		Chec	ĸ					
	S.M.A.R.T. Info	ć								
		Attribute Name			Value		Threshold	Raw Value		
	0x1	Raw Read Error Rate	ок	2f	200	200	51			
		Spin Up Time						3458		
	0x4	Start Stop Count	ок		100	100		604		
	0x5	Reallocated Sector Ct								
	0x7	Seek Error Rate			200	200				
	0x9	Power On Hours								
	0xa	Spin Retry Count								
	0xb	Calibration Retry Count								
	0xc	Power Cycle Count	ОК		100	100		576		
	0xc0	Power-Off Retract Count								
		Load Cycle Count	ОК		200	200				
	0xc2	Temperature Celsius								
	0xc4	Reallocated Event Count			200	200				
	0xc5	Current Pending Sector				200				
	0xc6	Offline Uncorrectable	ок		100	253				
		UDMA CRC Error Count								
	0xc8	Multi Zone Error Rate			100					

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

Self-check Type: There are three types available:

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

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

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

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

## 5.6.2 Cloud

Cloud function allows to upload pictures and videos to your cloud storage. It supports Dropbox and Google Drive storage now.

🞯 Setup	Channel	Record	Alarm	AI	Network	Device	System		
Ø Disk		Cloud							
Cloud		CI	oud Stora	ge	X				
		CI	Cloud Type		DROPBOX			~	Activate Cloud
		CI	oud Statu	S					
		Ca	apacity			1	5%		325.31MB/2.00GB
		CI	oud Overv	vrite	Auto			~	
		Vi	deo Type		MP4			~	
			Chann	iel		Folde	r Name		
			CH1		с	H1安联			
			CH2		c	H2			

**Cloud Type:** To choose Dropbox or Google Drive.

**Cloud Overwrite:** Use this option to overwrite the old recordings on the storage when it is full. For example, if you choose the option 7 days then only the last 7 days recordings are kept on the storage. To prevent overwriting any old recordings, select **OFF**. If you have disabled this function, please check the cloud storage status regularly, to make sure the capacity is not full. Recording will be stopped if the space is full. **Video Type:** To choose the video format you want to upload.

Take Dropbox as example:

- 1. Check Cloud Storage to enable the function.
- 2. Choose Dropbox from **Cloud Type**.
- 3. Set the **Overwrite**.
- 4. Choose the Video Type.
- 5. Define the folder name for each channel.
- 6. 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.

	Activate Cloud	×
The a email:r	ctivation mail has been sent successfully, plea @foxmail.com and activate the cloud to in about 3 minutes	ase check hrough the link
	ОК	

7. 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?

8. Input the DVR local IP address and web port, and then click **Authorize**.

Dropbox needs PC is on the se address of the Network sectio	to be activated for ame network as the device below. The n of the device sett	r this device. Please make sure the e device and enter the local IP IP address can be found in the tings.
	IP Address	172.16.3.90
	Port	13181   Authorize

9. Input the DVR user name and password and then click OK.

Use	er Authentication					
Username	e					
Password	Password					
	ОК					

10. Authorization finished; the webpage will turn to your Dropbox.

Authorization succeeded!ReturnDropbox It will automatically jump in 1 seconds!

11. 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.

Dropbox	
<u>↑ upload &gt;</u> + create > ···	
name 🛧	
Firmware	
IP CAMERA	
Manual	_
NVK 1616P-88-0F-19-B2-B6-87	
SDK	

# 5.7 System

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

# 5.7.1 General

## 5.7.1.1 General

Setup Channel	Record Alarm Al Network [	Device System	
😌 General	General Date and Time Output C	Configuration	
♦ Multi-User	Device Name	N7708	
Maintenance	Device ID	000000	
👳 IP Camera Maintain	Language	English 🗸	
0 Information	Video Format	PAL 🗸	
• Information	Menu Timeouts	OFF 🗸	
	Web Session Timeout (min)	1440	✓ Preview/Playback Session Timeout
	Show wizard		

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

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

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

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

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

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

## 5.7.1.2 Date and Time

Setup Channel	Record Alarm Al Network	Device System					
	General Date and Time Out	General Date and Time Output Configuration					
Ø Multi-User	Date and Time						
Maintenance	Date	19/03/2021	崮				
🕸 IP Camera Maintain	Time	10:45:20					
A Information	Date Format	DD/MM/YYYY	$\sim$				
♥ Information	Time Format	24Hour	~				
	Time Zone	GMT+08:00	·~•				
	NTP Settings						
	Enable NTP	<b>~</b>					
	Server Address	pool.ntp.org	~				
		Update Now					
	DST Settings						
	Enable DST	<b>Y</b>					
	Time Offset	1Hour 🗸					
	DST Mode	Week 🗸					
	Start Time	Mar. 🗸	The last 🗸	Sun. 🗸	02:00:00		
	End Time	Oct. 🗸	The last 🗸 🗸	Sun. 🗸	03:00:00		

#### Date & Time

Date: Click the calendar icon to change the date.

Time: Click the dialogue box to change the time.

**Date Format**: Select the preferred date format.

Time Format: Select the preferred time format.

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

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

eneral Date and Tir	ne Output Configuration	
Date and Time		
Date	10/20/2017	ä
Time	16:08:59	
Date Format	MM/DD/YY	*
Time Format	24Hour	~
Time Zone	GMT+08:00	~
NTP Settings		
Enable NTP	$\checkmark$	
Server Address	pool.ntp.org	~
	Update Now	

Check to enable the **NTP**, and select a **Server Address**, click Update Now to manually sync the date & time.

Click **Apply** to save your settings.

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

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

Date and Time							
Date	10/20/2017			iii			
Time	16:14:04						
Date Format	MM/DD/YY			~			
Time Format	24Hour			~			
Time Zone	GMT+08:00			~			
NTP Settings							
Enable NTP							
Server Address	pool.ntp.org			~			
	Update Now						
DST Settings							
Enable DST							
Time Offset	1Hour	~					
Enable DST	Week	~					
Start Time	Mar.	*	The 2nd	~	Sun.	~	02:00:00
							m.m.m

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

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

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

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

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

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

## 5.7.1.3 Output Configuration

This menu allows you to configure video output parameters.

Setup Channel	Record Alarm Al Ne	twork Device System		
General	General Date and Time	Output Configuration		
♦ Multi-User	Video Output	LIVE-OUT	*	
Maintenance	Seq Mode	Layout1	~	
🖤 IP Camera Maintain	SEQ Dwell Time			
	VGA/HDMI Resolution	1080P(1920x1080)	~	Value Automatic recognition
♥ Information	Scale And Offset	Setup		
	Cursor Hidden Delay	55	~	
	Cursor Acceleration			
	Transparency	•		

Video Output: To choose the output options:

**SEQ Mode:** To choose the display layout when you display the live view cameras in sequence.

**SEQ Dwell Time:** Set the sequency dwell time.

VGA/HDMI Resolution: Set the VGA/HDMI output resolution. Check Automatic

**recognition** will automatically set the resolution compatible with the monitor you connect when the DVR boots.

Scale and Offset: To set the image scale and offset. Click Setup button to configure.



**Cursor Hidden Delay:** To set how long the mouse cursor will be hidden if there is no operation with it.

Cursor Acceleration: To set the moving sensitivity of the mouse.

**Transparency:** To set the GUI display transparency.

## 5.7.2 Multi-user

Setup Channel	Record Alarm	Al Network	Device Syste	m			
Ø General	Multi-User						
Multi-User	No.	User Name	Level	User Enable	User Edit	Permission	
Maintenance		admin	ADMIN	Enable			
👳 IP Camera Maintain		user1	USER1	Enable			
6 Information		user2	USER2	Disable		0	
	4	user3	USER3	Disable			
		user4	USER4	Disable		0	
		user5	USER5	Disable			
		user6	USER6	Disable		0	
	Default User a	dmin	~				

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

The system supports the following account types:

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

## 5.7.2.1 Changing Password

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

		User Edi	t		×
Level	USER1				
User Enable	Enable		*		
User Name Password Strength	user1				
Password	•••••				
Confirm	••••				
			Default	Save	Cancel

		×		
User	admin			
Password		×	Show Password	
			Authenticate	Cancel

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

## 5.7.2.2 Add New Users

Multi-User							
No.	User Name	Level	User Enable	Password Enable	User Edit	Permission	
1	admin	ADMIN	Enable	Enable	Ð		
2	user1	USER1	Enable	Enable		0	
3	user2	USER2	Disable	Disable		0	
4	user3	USER3	Disable	Disable	Ð	0	
5	user4	USER4	Disable	Disable		0	
6	user5	USER5	Disable	Disable	Ð	0	
7	user6	USER6	Disable	Disable	Ð	0	
Default User ad	Imin	~					

1. Select one of the user accounts that is currently disabled, click the User Edit icon  $\mathbf{b}$ .

		User Edit		×
Level	USER1			
User Enable	Enable	~		
User Name	user1			
Password Enable	Enable	~		
Password	•••••		Show P	assword
Confirm	•••••		Show P	assword
		Default	Save	Cancel

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

### 5.7.2.3 Setting User Permissions

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

Multi-User							
No.	User Name	Level	User Enable	Password Enable	User Edit	Permission	
1	admin	ADMIN	Enable	Enable	Ð		
2	user1	USER1	Enable	Enable		٢	
3	user2	USER2	Disable	Disable		۲	
4	user3	USER3	Disable	Disable		٢	
5	user4	USER4	Disable	Disable		٢	
6	user5	USER5	Disable	Disable		٢	
7	user6	USER6	Disable	Disable		0	
Default User	idmin '	~					

1. Click the edit icon 🙆 under Permission tab.

		User Permi	ssion		×
User Name	user1				
✓ Log Search	🔽 Parameter	Solution	Auto Reboot	🛃 Man	ual Record
<b>V</b> Disk	🔽 Remote Log	in 🔽	SEQ Control	🔽 Man	ual Capture
🛃 Audio	🔽 Database M	anagement			
🛃 Backup					
🔽 IP Camera 🚹 2 3 🦂	4 5 6 7 8				
-					
VIP Camera 1 2 3	45678				
V Playback					
VIP Camera 1 2 3	4 5 6 7 8				
		All	Clear	Save	Cancel
		7.11	Oleal	Save	Gancer

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

# 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 and manager system auto reboot.

Setup Channel	Record Alam	n Al Network Devic	e System				(b) 19/03/2021 10:45:52	×
General	Log Load D		eter Management Auto Reboot					
Multi-User	Start Date 19/0	03/2021	🛗 Start Time 00.	00:00				
Maintenance	End Date 19/0	03/2021	End Time 23	59:59				
	Log Type All				Search			
W IP Camera Maintain						Playback		
Information		System	19/03/2021 00:08:10	NTP				
			19/03/2021 00:23:01	Motion Start				
	CH2	Alarm	19/03/2021 00:23:01	VT Start	Yes			
		Alarm	19/03/2021 00:23:28	Motion End		Þ		
	CH2	Alarm	19/03/2021 00:23:28	VT End	Yes			
		Alarm	19/03/2021 00:23:41	Motion Start				
	CH2	Alarm	19/03/2021 00:24:08	Motion End	Yes			
		Alarm	19/03/2021 00:28:24	Motion Start				
		Alarm	19/03/2021 00:28:51	Motion End	Yes			
		Alarm	19/03/2021 01:26:01	Motion Start				
	CH2	Alarm	19/03/2021 01:26:28	Motion End				
		Alarm	19/03/2021 07:35:57	Motion Start	Yes			
	CH2	Alarm	19/03/2021 07:35:57	VT Start				
		Alarm	19/03/2021 07:36:20	Motion Start	Yes	Þ		
						6.1		
							Backu	ıp

## 5.7.3.1 Log

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

Log Load Def	fault Upgrade Para	meter Management Auto Reboot				
Start Data 19/03/	2021	He Start Time oo	00.00			
Start Date 19/03/	2021		50.50			
End Date 19/03/	2021	End Time 23:	59:59			
Log Type All				Search		
Channel	Туре	TIME	CON.	RECORD	Playback	
	System	19/03/2021 00:08:10	NTP			
CH2	Alarm	19/03/2021 00:23:01	Motion Start	Yes	•	
CH2	Alarm	19/03/2021 00:23:01	VT Start	Yes		
CH2	Alarm	19/03/2021 00:23:28	Motion End	Yes	•	
CH2	Alarm	19/03/2021 00:23:28	VT End	Yes		
CH2	Alarm	19/03/2021 00:23:41	Motion Start	Yes		
CH2	Alarm	19/03/2021 00:24:08	Motion End	Yes		
CH1	Alarm	19/03/2021 00:28:24	Motion Start	Yes	Þ	
CH1	Alarm	19/03/2021 00:28:51	Motion End	Yes		
CH2	Alarm	19/03/2021 01:26:01	Motion Start	Yes		
CH2	Alarm	19/03/2021 01:26:28	Motion End	Yes		
CH2	Alarm	19/03/2021 07:35:57	Motion Start	Yes	<b>I</b>	
CH2	Alarm	19/03/2021 07:35:57	VT Start	Yes		
CH1	Alarm	19/03/2021 07:36:20	Motion Start	Yes		
		10/02/2021 07-26-24	Motion End		1:1	
						K < 1 /20 > >I
						Backup

#### Log Searching and Backing Up:

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

#### 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.

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



### 5.7.3.3 Upgrade

🞯 Se	etup <sup>Channel</sup>	Record	Alarm Al	Network	Device System					19/03/2021 10:46:12	×
Ø General	al		Load Default	Jpgrade	Parameter Management Auto Reboot						
Multi-U	Jser									_	
			Select File					Upgi	rade		
♥ Maintei					Update			×			
🔶 IP Cam	nera Maintain		Driver List:	0			<b>≣ ~ ~ </b> • •	Ē			
Information	ation		👱 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				
					🔤 fbgrab		19/03/2021 02:45:55				
					E CH01-20210318-000416-000457-0010000000	19.851MB	18/03/2021 11:11:02				
					E CH04-20210318-163337-163413-0030000000	27.359MB	18/03/2021 08:34:52				
					<pre>cross_in_daily_report_ch1_20210316.csv</pre>	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				
			Description		Location: usb1-1						
			13.805GB/14	11: .431GB	Selected File:		•	►			
					Refresh finished !		OK Canc				

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

#### 5.7.3.4 Parameter Management

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

6	Setup	Channel	Record	Alarm A	Al Network	Device	System	
🔶 Ge	eneral		Log	Load Defaul	t Upgrade	Parameter	Management	Auto Reboot
🔶 Mu	ılti-User			Save	Settings	Lo	ad Settings	
🔶 Ma	aintenance							
∲ IP	Camera Maintain							
🔶 Inf	formation							
7								

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

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

### 5.7.3.5 Auto Reboot

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

Setup Channel	Record Alarm	Al Network	Device System	
🔮 General	Log Load Def	fault Upgrade	Parameter Management	Auto Reboot
Multi-User	Auto Reboot	Y		
Maintenance	Time	Every Week		~
👳 IP Camera Maintain		Sun.		~
		00:00		

Auto Reboot: Check to enable.

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

#### 5.7.3.6 Developer Mode

This menu will allow to collect some debug information for professionals to analyze the system situation.

6	3 Setup	Channel	Record	Alarm	Al	Network	Device	System		
	General		Log	Load Def	ault	Upgrade	Parameter	Management	Auto Reboot	Developer Mode
¢	Multi-User		Tel	net		0				
۲			Col	lect logs		0				
¢	IP Camera Maintain									
٢	Information									
				Exp	ort Log		D	elete Log		

Telnet: Only enable it when the after sales professionals require to do.

Collect logs: Only enable it when the after sales professionals require to do.

**Export Log:** To export the system logs to your USB memory.

Delete Log: Delete the saved system logs.

## 5.7.4 IP Camera Maintain

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

Setup Channel	Record Alarm Al	Network Device	System				🕒 <sup>19/</sup>
🔮 General	Upgrade Load Defai	ult Reboot IPC Para	imeter Management				
Ø Multi-User		Channel	IP Address	State	Software Version	Upgrade	
Maintenance		CH1	172.20.31.73	On-line	V21.45.7.0_210305		
A IB Comera Maintain		CH2	172.20.31.24	On-line	V12.45.7.0_201028		
Information							

## 5.7.4.1 Upgrade IP Camera

Setup Channel	Record Alarm Al	Network Device S	ystem				( <u>)</u> 19
In the second	Upgrade Load Defa	ult Reboot IPC Param	eter Management				
Multi-User		Channel	IP Address	State	Software Version	Upgrade	
Maintenance		CH1	172.20.31.73	On-line	V21.45.7.0_210305		
a maintentantio		CH2	172.20.31.24	On-line	V12.45.7.0_201028		
IP Camera Maintain							
Information							
Setup Channel Re	cord Alarm Al Netwo	rk Device System				<b>(</b> ) 19/03/202	1 10:46:41 🛛 🗙
General	Upgrade Load Default Rel	boot IPC Parameter Managen					
♦ Multi-User		Selec	t an upgrade file for	PC	×		
Maintenance	Driver List: 😋						
IP Camera Maintain	USB1-1	Nam			Last Modify		
Information		.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 Informat	ion		07/01/2021 16:48:16		
		fbgrab			19/03/2021 02:46:38		
		E CH01-20210318-000416	6-000457-0010000000	19.851MB	18/03/2021 11:11:02		
		E CH04-20210318-163337	7-163413-0030000000	27.359MB	18/03/2021 08:34:52		
		cross_in_daily_report_ch	1_20210316.csv	643.000B	16/03/2021 11:18:08		
14		face-attendance-202103	317-20210317-192643	204.000B	17/03/2021 11:26:42		
	50	face_statistics_2021031	6_000000_20210316_	3.063KB	16/03/2021 11:17:36	rade	
		faces-2020_01_07-10_1	8_50.db	6.566MB	07/01/2020 10:18:54		
		faces-2021_03_17-14_4	11_37.db	160.000KB	17/03/2021 06:41:36		
	Demoin/Tetal	Location: usb1-1					
	13.759GB/14.431GB	Selected File:			< ►		
		Refresh finished !			OK Cancel		

This menu allows you to upgrade the IP camera's firmware.

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

Setup Channel	Record Alarm Al	Network Device	System			
🔮 General	Upgrade Load Defau	IIt Reboot IPC Para	ameter Management			
Multi-User		Channel	IP Address	State	Software Version	
Maintenance	₩	CH1	172.20.31.73	On-line	V21.45.7.0_210305	
IP Camera Maintain		CH2	172.20.31.24	On-line	V12.45.7.0_201028	
Information						
	Load Default	1				

## 5.7.4.2 Load Default Settings for IP Camera

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

## 5.7.4.3 Reboot IPC

Setup Channel	Record Alarm Al	Network Device	System			(b) 19/03/2021 10:46:57	×
Ø General	Upgrade Load Defai	It Reboot IPC Pari	ameter Management				
Ø Multi-User		Channel	IP Address		Software Version		
Maintenance		CH1	172.20.31.73	On-line	V21.45.7.0_210305		
🔶 IP Camera Maintain			172.20.31.24	On-line	V12.45.7.0_201028		
Information							
	Bahaat IDC						
	Republic						

To reboot the IP camera you select.

Setup Channel	Record Alarm Al	Network Device	System		
Ø General	Upgrade Load Defau	t Reboot IPC Para	ameter Management		
Ø Multi-User		Channel	IP Address	State	Software Version
Maintenance	<b>~</b>	CH1	172.20.31.73	On-line	V21.45.7.0_210305
IP Camera Maintain		CH2	172.20.31.24	On-line	V12.45.7.0_201028
Information					
	Save Settings	Load Settings			

## 5.7.4.4 Parameter Management

Select the IP camera, click **Save Settings** to export its setting values to your USB memory. Select the IP camera, click **Load Settings** to import setting values from your USB memory.

# 5.7.5 System Information

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

## 5.7.5.1 Information

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

Setup Channel	Record Alarm Al Network Devic	e System
🗇 General	Information Channel Information Reco	rd Info Network State
Multi-User	Device ID	000000
Maintenance	Device Name	N7708
🔮 IP Camera Maintain	Device Type	N7708
	Hardware Version	DM-443
• Information	Software Version	V8.1.0-20210309
	IE Client Version	V1.0.0.99
	Video Format	PAL
	HDD Volume	465G
	IP Address	172.20.31.60
	IPv6 Address	fe80::8a43:88ff:fe67:c4c9 / 64
	Web	80,80
	Client	9000,9000
	MAC Address	88-43-88-67-C4-C9
	Network State	Connect success
	P2P ID	and the second

If your NVR supports P2P function, you will find the P2P ID & P2P QR code in the information page. You can scan this QR cord 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.

### 5.7.5.3 Record Information

Setup Channel	Record Alarn	n Al Netwo	ork Device	System					<b>()</b> 19/03/2021 10:47:12	×
General		Information Channel Information Record Info								
✤ Multi-User			Record Switch	Stream Type	Resolution	FPS				
Maintenance	CH1	ON	Enable	Mainstream	2592x1944	25Fps	4Mbps			
IP Camera Maintain			Enable	Mainstream	2592x1944	20Fps	4Mbps			
• Information										

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

#### 5.7.5.4 Network State

Setup Channel	Record Alarm Al Network Devi	ce System	O 19/03/2	021 10:47:15 🗙
Ø General		ord Info Network State		
Ø Multi-User	Attribute	Value		
Maintenance	WAN			
	IP Address	172.20.31.60		
🔮 IP Camera Maintain	Subnet Mask	255.255.255.0		
	Gateway	172.20.31.1		
	MAC Address	88-43-88-67-C4-C9		
	IPv6 Address	fe80::8a43:88ff.fe67:c4c9 / 64		
	IPv6 Gateway	fe80::/64		
		Enable		
	Internal Interface	Connected		
	IP Address			
	Subnet Mask	255.255.0.0		
	DNS1	172.18.1.222		
	DNS2	8.8.8.8		
	PPPoE	Disable		
	Port			
	Web	80,80,Inactive,Enable		
	Client	9000,9000,Inactive,Enable		
		554,554,Inactive,Enable		
	Https	443.443, Inactive, Enable		
	Total Band Width:	128Mbps		
	Used Band Width:	10.75Mbps		

View network information.

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

# 5.8 Al 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.



# 5.8.1 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.



#### 1. Navigation bar on the left side:



#### 2. Real-time data display:

6	4	13	9
Available	Inside	Enter	Exit

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. Real-time counting data display:



Screen display layout of 4/6/9 channels.

To show or hide the real-time data display.



Clear counting data for the selected channel



Clear counting data for all channels

#### 4. Real-time counting data information bar



This bar will display the real-time counting data 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 carton figure will be in green color.



If the available number is 0, the carton figure will be in red color.

#### 5. Full Screen Button:

Click the full screen icon [] to display the real-time counting data for the selected channel(s) or group(s).



If you have enabled the **Advertise Mode**, your advertising pictures will be displayed with the real-time counting data together in the full screen mode. Learn more for **Advertise Mode** on <u>5.8.1.3 Advise Mode</u>.



Right click your mouse to exit the full screen mode.

Channel	Туре	12:00	13:00	14:00	15:00	16:00	17:00
	Enter	6	11	12	1	0	0
CH2	Exit	9	11	12	1	0	0
	Inside	o	0	0	0	o	o
	Enter						
СНЗ	Exit						
	Inside						
	Enter	47	27	36	8	o	13
CH5	Exit	26	13	16	3	o	9
	Inside	100	114	134	139	139	143
	Enter	0	0	0	0	0	0
CH6	Exit	0	0	o	o	o	0
	Inside	0	o	0	0	0	0

#### 6. Statistic 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.

#### 5.8.1.1 Channel View Setup

1. Click the add icon + or setup icon O to get to the configuration page.



2. To enable the channel(s) you want to realize the counting function in the **Channel** list. The Setup & Alarm icon 🙆 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 🙆 will be in grey color.

<del>م</del> ح	Image Configration										
B	Advertise Mode 🗌 Keep Aspect Ratio 🌌 Describe. Set the advertising picture, whether the advertising picture is stretched										
٩	SEQ Dwell Time 3										
0	Channel										
	Channel	Enab			Capacity		Setup			Alarm	
	CH1				10		٢			0	
	CH2		2		10						
					10		۲			٢	
			•		10						
			2		10		۲			۲	
		(s			10						
					10						
					10						
	Group										
	Group Ad	id IP Camera	Enable		Capacity					Туре	
	Group 1	P			10		00:00:00	23:59:5	9	Persc 🗸	۲

3. Set the **Capacity** number for each channel, which is the maximum limitation of the attendance.

4. Click one of the **Setup** icons 🙆 to configure the detection conditions.



Switch: Activate or inactivate the detection.

**Type:** Choose the detection target objects. **Motion** will detect all moving objects, **Person** will detect human beings only, **Vehicle** will detect vehicles only.

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

Rule Type:

 $A \rightarrow B$ : If a target 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.

 $B \rightarrow A$ : If a target object is detected moving from side B to side A, the system will count 1 to enter number; if a target object is detected moving from side A to side B, the system will count 1 to exit number.

Start Time: Set the detection start time.

End Time: Set the detection end time.

**Dynamic Marking:** If you enable this option, the border of the detection zone will be displayed in both live view images and recording files.

#### **Configuration Steps:**

- i. Activate the Switch.
- ii. Choose the detection target type.
- iii. To set the **Sensitivity**.
- iv. Choose a Rule Type.
- v. Set the Start Time and End Time.
- vi. Use your mouse to click 2 points in the camera picture to draw a virtual line.
- vii. Click **Save** to save your settings.

- viii. 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. Click and hold the left button of your mouse to move the line, or drag the terminals to modify the length or position of the line.
- ix. If you want to remove one of the lines from the camera picture, click the red box in the line and then click **Remove** button.
- x. Right click your mouse to exit the setup page.
- 5. Repeat step 3 to finish the configuration for all channels you want to activate the function.
- 6. Click one of the Alarm icons (2) to configure the alarm actions when the Available number is 0.

Chi	Chnanel 2						
Buzzer	Disable	~					
Alarm Out							
Latch Time	10 s	~					

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.

7. Click the **Channel View** icon P to view the live images & counting data of all activated channels.

#### 5.8.1.2 Group View Setup

1. Click the add icon + or setup icon O to get to the configuration page.



2. Click the Add IP Camera icon 🖓 to add channel(s) to the group. Max. 8 groups can be set, but each one 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.

Group							
Group	Add IP Camer	Enable 🗸	Capacity	Start Time	End Time	Туре 🗸	Alarm
Group 1	🕶 🦯		50	00:00:00	23:59:59	Persc 🗸	۲
Group 2	<b>P</b>		10	00:00:00	23:59:59	Persc 🗸	
Group 3	<b>P</b>		10	00:00:00	23:59:59	Persc 🗸	0
Group 4	₽		10	00:00:00	23:59:59	Persc 🗸	
Group 5			10	00:00:00	23:59:59	Persc 🗸	۲
Group 6	<b>P</b>		10	00:00:00	23:59:59	Persc 🗸	
Group 7	çe		10	00:00:00	23:59:59	Persc 🗸	0
Group 8	P		10	00:00:00	23:59:59	Persc 🗸	Ø

- 3. Check the Enable box to activate the group.
- 4. Set the Capacity number, Start Time, End Time of each group.
- 5. Choose the detection target **Type** from **Person**, **Vehicle** and **Motion**.
- 6. Click one of the Alarm icons (2) to configure the alarm actions when the Available number is 0.

Chr	Chnanel 2					
Buzzer	Disable	~				
Alarm Out						
Latch Time	10 s	~				

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.

7. Click the close icon  $\times$  or right click your mouse to go back to previous configuration page, and then click **Apply** button to save the settings.

8. Click the **Group View** icon 🔁 to view the live images & counting data of all activated groups.



9. You can choose which group you want to view the real-time live images and counting data.



10. Furthermore, it supports to display the counting data in Map mode. Click the Map button to configure the settings.



- 11. Click the 🖽 icon to add a map image from your USB memory.
- 12. Click icon 🖽 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 icon to display the map in full screen.

#### 5.8.1.3 Advertise Mode

The system supports to demonstrate your advertising pictures with the Cross Counting functions.

1. Click the **Configuration** icon (2) to in the **Navigation bar** to get to the configuration page.



#### 2. Check the Advertise mode in the

₽	Image Configration				
60	Advertise Mode	Keep Aspect Ratio			
Q	SEQ Dwell Time 3	Image			
0	Channel				

3. Click **Image** button to load advising pictures from your USB memory. It supports to add maximum 16 pictures with jpg, png and bmp format, and the maximum resolution should be no more than 2560x1600. Click the add icon  $\bigoplus$  to add new picture(s) and click delete icon  $\bigoplus$  to delete the added picture one by one. Click the close icon  $\times$  or right click your mouse to go back to previous configuration page.



4. Check the Keep Aspect Ratio box 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.

₽	Image Config	grat	ion	
6	Advertise Mode	-	Keep Aspect Ratio	
Q	SEQ Dwell Time 3	3	Image	
0	Channel			

- 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).



#### 5.8.1.4 Search Counting Data

1. Click the **Search** icon  $\bigcirc$  to search the counting data.



2. It is allowed to search separately for Channels and Groups. 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 choose the target type you want to search. Click the search icon  $\mathbb{Q}$ , the result will be displayed on the right of the window.



#### 5.8.2 Face Attendance

Face Attendance is an AI application based on Face Detection. You're able to view and check the real-time statistical data of attendance management visually.



- 1. Custom title.
- 2. Overall attendance statistical data of all selected groups.

3. Individual attendance statistical data of each selected group.

R The total number of people who need to check attendance

A The number of people who have checked attendance already

 $\mathbb{A}$  The number of people who haven't checked attendance.

4. Live view screen: to display the live camera images. Click the screen split icons , , , , + to change the display layout.

5. 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 clock in & clock out time will be displayed in red color. Click the screen split icons , 12, to change the display layout.

6. Click search icon  $\bigcirc$  to search the face attendance data. Check more on <u>6.10.5 Face</u> <u>Attendance</u>.

Click Setting icon (2) to configure the face attendance settings.



**Enable**: Check the box if you want to send the attendance statistical data by email. **Send Email**: Set the preset time for sending the email.

Mode: Choose to send the email once in every Day, every Week, or every Month.

Day: Send the attendance statistical data of previous day once a day.

Week: Send the attendance statistical data of last 7 days once a week.

Month: Send the attendance statistical data of last month once a month.

Working Days: To select the working days. It will affect the attendance statistical data.

Click the setting (2) icon to configure your email configuration. Check more on <u>5.5.3.1 Email</u> Configuration.

	E	mail Configuration				×
Email						
Encryption			<			
SMTP Port	00025					
SMTP Server						
User Name						
Password				Sh	ow Password	
Sender						
Receiver 1						
Receiver 2						
Receiver 3						
Interval	3 Min		~			
			De	fault	Apply	

# **Chapter 6 Search, Playback & Backup**

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

# 6.1 Using Search Function

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



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

#### 

- D Enlarge the video playback to full screen
- Rewind, x2, x4, x8 and x16
- II> Slow Play, 1/2, 1/4 and 1/8, 1/16 speed
- Play
- []] Pause
- Play frame by frame. Click once to play a frame of the video

- Stop
- ▷ Fast Forward, x2, x4, x8 and x16
- ① Digital Zoom: Click to zoom in then click-and-drag on a camera image during playback to zoom in on the selected area. Right-click to return to regular playback.
- Video Clip. Quickly save a section of video to a USB flash drive. View more on <u>6.1.1.1</u>
  <u>Video Clip Backup</u>
- Save Video Clip.
- IN Volume Control: scroll the slider bar to increase or decrease volume.
- Snapshots: to capture a snapshot image to your USB flash drive. If the video playback is in split-screen view, move the mouse cursor to the channel you want to capture, and then click the o icon to save the snapshot.
- 6. **Timeline:** Continuous recordings are shown with colored bars to represent different types of recording (legend shown in the bottom-right corner of the display). Use the

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

Different types of recording shown in different colors:

📕 Normal 📕 Motion 📕 IO 📑 PIR 📕 Intelligent 📕 Alarm 📕 Manual

Continuous Recording in **Green** color; Motion Recording in **Yellow** color; I/O Recording in **Red** color; PIR Recording in **Purple** color; Intelligent Recording in **Blue** color; Motion & I/O Recording in **Orange** color; Manual Recording in **Green** color;

7. Playback Status: display the video play status.

#### 6.2 Search & Play Video in General

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



- 1. Select a date to search for video recording from the calendar.
- 2. Choose a search type.
- 3. Check channels you would like to search, or check **Channel** to search all connected channels.
- 4. The search result will display on the timeline from 00:00 to 24:00.
- 5. Click  $\triangleright$  button to start playback.
- 6. Control the playback with buttons on Video Playback Controls.
- 7. Use the timeframe options 24h 2h 1h 30m to view a smaller or larger time period.
- 8. If you want to quickly save a section of video during playing back to a USB flash drive, use the 🐰 Video Clip backup function.
- 9. Add Tag function: click ② to add customized tag, click ② to add default tag, enable to make mark in the current channel current time point. After adding, in tag playback page it will be able to jump to the "Tag" point playing.

#### 6.2.1 Video Clip Backup

⊡ <k id<="" th=""><th>≫ Q ≞ I) ©</th><th></th><th></th><th></th></k>	≫ Q ≞ I) ©			
00.00	.00 00:11:33 00:15		00.30	
2				
<b>2</b>				
2			N	
•		 		
			10/23/2017	

1. Insert your USB flash drive to the NVR.

2. Start a video recording playback.

- 3. Click 🐹 icon.
- 4. Check the channel(s) you want to make a video clip backup.
- 5. Move the mouse cursor to the timeline where you want to start the video clip.
- 6. Press and hold the left button of your mouse, and drag the drag the cursor to the timeline where you want to end the video clip.
- 7. The  $\bigotimes$  icon has been changed to  $\square$  icon, click  $\square$  to save the video clip.
- 8. Select a file type for your backup files, click **Save** button to save the video clips. Please make sure your USB driver has enough space to save the video clips.

	Васкир Туре 🛛 🗙							
o RF	O AVI	MP4						
Channel:	CH1,							
Size:	20.449MB							
Start Time:	00:04:16							
End Time:	00:04:57							
	Save	Cancel						

- 9. The backup drive menu appears. Navigate to the folder you want the backup files to save in.
- 10. Click **OK** to begin. The progress bar at the bottom of the window shows you the progress of the backup.

	Backup		×				
Driver List: C							
💾 USB1-1	Name		Last Modify				
	.Spotlight-V100	18/01/2021 17:53:46					
	fseventsd	18/01/2021 17:53:46					
	111		01/03/2021 05:49:46				
	22		17/03/2021 10:07:02				
	System Volume Information	07/01/2021 16:48:16					
	fbgrab	fbgrab					
	E CH04-20210318-163337-163413-0030000000	27.359MB	18/03/2021 08:34:52				
	<pre>cross_in_daily_report_ch1_20210316.csv</pre>	643.000B	16/03/2021 11:18:08				
	E face-attendance-20210317-20210317-192643	204.000B	17/03/2021 11:26:42				
	<pre>face_statistics_20210316_000000_20210316_</pre>	3.063KB	16/03/2021 11:17:36				
	<pre>     faces-2020_01_07-10_18_50.db </pre>	6.566MB	07/01/2020 10:18:54				
	<pre>     faces-2021_03_17-14_41_37.db </pre>	160.000KB	17/03/2021 06:41:36				
	beatmap_daily_report_ch1_20210316.csv	572.000B	16/03/2021 11:17:00				
Remain:/Total:	Location: usb1-1						
14.104GB/14.431GB	Selected Directory: usb1-1		< ▶				
Format	1/1 75%		OK Cancel				

# 6.3 Event Search, Playback & Backup

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



#### To search, play & back up for events:

- 1. Choose the date & time you want to search.
- 2. Check the recording types you want to search, or check Search Type to choose all.
- 3. Choose the channels you want to search, or check Channel to choose all channels.
- 4. Click 🔍 icon to start search.
- 5. Events fitting your search criteria are displayed in list form. You can double click the left button of your mouse upon one of the events to play the video immediately.
- 6. Click  $|| \langle \langle 1 \rangle \rangle ||$  (250  $| \rangle \rangle$ ) icons in the bottom-right corner of the menu to browse

between pages of events, or input the page you want to browse.

- 7. You can switch the view of list form in by clicking below icons which is show at the right bottom corner of the screen:
  - **Thumbnails view.** You can view the snapshots of the events.
  - **List view.** The events will be displayed in list.

Q Search Genera	al Events Sub-perio	ods Smart Tag	External File Picture	Slice Al			<b>(</b> ) 18/03	/2021 19:09:44 🛛 🗙
Date 18/03/2021	9 CH1 01:03:10	2 CH1 00:03:5	1 3 CH1 00:12:20 9 11 CH1 01:20:07	4 CH1 00:20:48	5 CH1 00:29:17	6 CH1 00:37:45	7 CH1 00:46:14	8 CH1 00:54:42     16 CH1 02:02:29
Time 00:00:00 * 23:59:59	17 CH1 02:10:58 25 CH1 03:18:45	18 CH1 02:19:2	6 <b>19 CH1</b> 02:27:55 3 <b>27 CH1</b> 03:35:42	20 CH1 02:36:23 28 CH1 03:44:10	21 CH1 02:44:51 29 CH1 03:52:39	22 CH1 02:53:20 30 CH1 04:01:07	23 CH1 03:01:48	24 CH1 03:10:17 32 CH1 04:18:04
Search Type 🔽	33 CH1 04:26:32	34 CH1 04:35:0	1 35 CH1 04:43:29	36 CH1 04:51:57	37 CH1 05:00:26	38 CH1 05:08:54	39 CH1 05:17:23	40 CH1 05:25:51
🔽 Normal 🛛 Motion	41 CH1 05:34:19	42 CH1 05:42:4	8 🔲 <b>43 CH1</b> 05:51:16	44 CH1 05:59:45	45 CH1 06:08:13	6 CH1 06:16:42	47 CH1 06:25:10	48 CH1 06:33:38
🗹 IO 🛛 🔽 PIR	49 CH1 06:42:07	50 CH1 06:50:3	5 📃 <b>51 CH1</b> 06:59:04	52 CH1 07:07:32	53 CH1 07:16:00	54 CH1 07:24:29	55 CH1 07:31:43	56 CH1 07:32:43
V PID V LCD	57 CH1 07:41:12	58 CH1 07:49:4	0 59 CH1 07:58:08	60 CH1 08:06:01	61 CH1 08:06:29	62 CH1 08:07:01	63 CH1 08:09:27	64 CH1 08:09:55
SOD VD & VD	65 CH1 08:10:43	66 CH1 08:11:4	3 67 CH1 08:14:23	68 CH1 08:16:03	69 CH1 08:16:41	70 CH1 08:17:17	71 CH1 08:17:57	72 CH1 08:20:48
ED Attribute Detecti	73 CH1 08:21:18	74 CH1 08:22:0	8 75 CH1 08:24:58	76 CH1 08:25:30	77 CH1 08:26:30	78 CH1 08:27:06	79 CH1 08:28:20	80 CH1 08:30:02
CC Sound	81 CH1 08:38:31	82 CH1 08:46:5	9 83 CH1 08:55:27	84 CH1 09:03:56	85 CH1 09:12:24	86 CH1 09:12:58	87 CH1 09:16:38	88 CH1 09:18:44
VT Sound	97 CH1 09:19:37	90 CHI 09.20.2	7 99 CH1 09.23.47	92 CH1 09.24.19	93 CHI 09.25.57	94 CHI 09.28.35	95 CHI 09.29.49	96 CH1 09.31.23
	105 CH1 09:49:42	106 CH1 09:52:3	4 <b>107 CH1</b> 10:27:17	108 CH1 10:27:44	109 CH1 10:29:36	110 CH1 10:30:06	111 CH1 10:36:00	112 CH1 10:36:22
Change Trees	113 CH1 10:38:18	114 CH1 10:39:4	4 115 CH1 10:40:14	116 CH1 10:40:40	117 CH1 10:41:25	118 CH1 10:42:13	119 CH1 10:44:37	120 CH1 10:52:21
Mainstream Y	121 CH1 10:52:57	122 CH1 10:53:1	5 123 CH1 10:54:39	124 CH1 10:56:22	125 CH1 10:57:50	126 CH1 10:58:22	127 CH1 10:59:04	128 CH1 10:59:42
Channel 🔽	129 CH1 11:00:36	<b>130 CH1</b> 11:06:2	6 🔲 131 CH1 11:06:56	132 CH1 11:08:52	133 CH1 11:10:06	134 CH1 11:16:56	135 CH1 11:17:06	136 CH1 11:17:44
	<b>137 CH1</b> 11:19:54	138 CH1 11:25:2	3 🔲 139 CH1 11:27:45	140 CH1 11:28:15	141 CH1 11:30:13	<b>142 CH1</b> 11:31:15	143 CH1 11:31:45	144 CH1 11:33:19
CH1	145 CH1 11:38:41	146 CH1 11:39:5	5 147 CH1 11:40:33	148 CH1 11:41:28	149 CH1 11:44:10	150 CH1 11:44:54	<b>151 CH1</b> 11:47:14	152 CH1 11:47:44
CH3	153 CH1 11:49:30	154 CH1 11:57:2	6 155 CH1 11:57:52	156 CH1 11:58:50	157 CH1 11:59:50	158 CH1 12:06:10	159 CH1 12:07:28	160 CH1 12:09:18
CH4	161 CH1 12:10:20	162 CH1 12:12:1	4 163 CH1 12:12:52	164 CH1 12:13:34	165 CH1 12:13:56	166 CH1 12:16:16	167 CH1 12:16:50	168 CH1 12:17:20
🗹 🔜 CH5	169 CH1 12:17:54	170 CH1 12:18:2	2 171 CH1 12:19:18	172 CH1 12:20:32	173 CH1 12:21:02	174 CH1 12:21:30	175 CH1 12:21:52	176 CH1 12:22:22
🗹 📰 СН6	177 CH1 12:22:58	178 CHI 12:23:3	2 179 CHI 12:24:02	180 CH1 12:29:22	181 CH1 12:30:22	182 CH1 12:37:02	183 CHI 12:37:30	184 CH1 12:40:04
	193 CH1 12:54:19	194 CH1 12:55:0	7 195 CH1 12:56:45	196 CH1 12:59:51	197 CH1 13:00:57	198 CH1 13:01:39	199 CH1 13:04:05	200 CH1 13:05:15
	201 CH1 13:06:11	202 CH1 13:06:4	5 203 CH1 13:07:15	204 CH1 13:08:37	205 CH1 13:09:07	206 CH1 13:09:21	207 CH1 13:09:37	208 CH1 13:11:01
0	209 CH1 13:11:31	210 CH1 13:15:2	8 211 CH1 13:16:22	212 CH1 13:17:16	213 CH1 13:17:22	214 CH1 13:19:18	215 CH1 13:20:06	216 CH1 13:22:10
Ч	217 CH1 13:22:50	218 CH1 13:23:3	0 219 CH1 13:24:40	220 CH1 13:24:58	221 CH1 13:26:12	222 CH1 13:33:18	223 CH1 13:38:01	224 CH1 13:41:09
Information	225 CH1 13:41:33	226 CH1 13:42:3	5 227 CH1 13:45:29	228 CH1 13:46:09	229 CH1 13:48:51	230 CH1 13:49:35	231 CH1 13:54:33	232 CH1 13:55:25
Observation Old	233 CH1 13:57:49	234 CH1 14:05:4	2 235 CH1 14:06:12	236 CH1 14:06:36	237 CH1 14:07:26	238 CH1 14:08:04	239 CH1 14:09:12	240 CH1 14:10:12
Time: 00:00:01-00:03:51								
Type: N							K	
Size: 115MB	Descending Orde	Select				Selected: 0 Total Si	ze:0B Browse Typ	pe: 00 000 000

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

1	CH1	N	18/03/2021	00:00:01	00:03:51	115MB		6
2	CH1	N	18/03/2021	00:03:51	00:12:20	254MB	Þ	6
3	CH1		18/03/2021	00:12:20	00:20:48	254MB	Þ	20
4	CH1		18/03/2021	00:20:48	00:29:17	254MB	Þ	6
5	CH1	Ν	18/03/2021	00:29:17	00:37:45	254MB	Þ	6
6	CH1		18/03/2021	00:37:45	00:46:14	254MB	Þ	6
7	CH1		18/03/2021	00:46:14	00:54:42	254MB	Þ	20
8	CH1		18/03/2021	00:54:42	01:03:10	254MB	Þ	20
9	CH1	Ν	18/03/2021	01:03:10	01:11:39	254MB	Þ	25
10	CH1		18/03/2021	01:11:39	01:20:07	254MB	Þ	6
11	CH1		18/03/2021	01:20:07	01:28:36	254MB	Þ	25
12	CH1		18/03/2021	01:28:36	01:37:04	254MB	Þ	6
13	CH1		18/03/2021	01:37:04	01:45:32	254MB	Þ	25
14	CH1		18/03/2021	01:45:32	01:54:01	254MB	Þ	6
15	CH1	N	18/03/2021	01:54:01	02:02:29	254MB	Þ	6
16	CH1	N	18/03/2021	02:02:29	02:10:58	254MB	Þ	6

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

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

icon into event playback control window to play the video.

#### 6.3.1 Event Playback Control



- 1. Event List, you can select the events here.
- 2. Click 📄 icon to save your selected event videos to USB flash drive. Click ▶ icon to play video.
- 3. Control the playback with buttons on Video Playback Controls. You can click 🗇 icon or click right button of your mouse to exit the playback and return to event search window.
- 4. The event you are playing now will be displayed on the timeline.
- 5. Use the timeframe options 24h 2h 1h 30m to view a smaller or larger time period.
- 6. Add Tag function: click 💓 to **add customized tag**, click 🟈 to **add default tag**, enable to make mark in the current channel current time point. After adding, in tag playback page it will be able to jump to the "Tag" point playing.

# 6.4 Sub-periods Playback

Sub-periods playback allows you to play multiple normal recordings and motion events simultaneously from a single channel. With normal and event recordings, the video is divided evenly depending on the split-screen mode that has been selected. For example, if the video is an hour long and you have selected Split-screens x 4, each split-screen will play for 15 minutes.



#### To search & play video in sub-periods:

- 1. Choose the date & time you want to search.
- 2. Choose the split-screens you want the videos to be played in.
- 3. Check the recording types you want to search, or check Search Type to choose all.
- 4. Choose the channels you want to search. Please note that this function only supports to search & play one channel at a time.
- 5. Click the play button > to start playing. Control the playback with buttons on Video Playback Controls.
- 6. Videos are being played in split-screens.
- 7. Click the left button of your mouse upon a particular split-screen, 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 videos you have searched.



8. Use the timeframe options ( 24h 2h 1h 30m) to view a smaller or larger time

period.

9. Add Tag function: click 💓 to **add customized tag**, click 🟈 to **add default tag**, enable to make mark in the current channel current time point. After adding, in tag playback page it will be able to jump to the "Tag" point playing.

# 6.5 Smart Search

With Smart search function, you will be able to quickly search and play the motion recording videos which were triggered by human beings.



#### To search & play video in Smart Search:

- 1. Choose the date & time you want to search.
- 2. Check the recording types you want to search, or check **Search Type** to choose all.
- 3. Choose the channel you want to search. Smart Search supports to search & play one channel only at a time.
- 4. The Smart Search result will be displayed in the time slot in blue color.



5. Click the play button > to start playing. Control the playback with buttons on Playback Controls.

6. It supports to narrow the search by selecting a certain area in the images. Click the sicon on the **Playback Controls** bar, the aera selection page will be displayed.



The selected aera will be marked with red grids.

(III): select whole image.

m: clear your selection.

<a>
 ⊲⇒: go back to playback interface.

Q: search.

Click  $\overline{m}$  button to clear all selection, and then use your mouse to select the certain areas you want to search in the image. Click  $\bigcirc$  button, the system will search the display the smart search result for the selected areas.



# 6.6 Tag Search

You can search, play and manage the contents with tags you added in live view and/or playback.

Q Search General	Events Sub-period	is Smart Tag	External File Pict	ure Slice Al		
Ob 4 Time		Tag Name	Channel	Date	Time	Playback
Start Time	1	Tag	CH4	09/18/2021	00:30:27	
09/18/2021 🗃 00:00:00	2	Tag	CH4	09/18/2021	00:30:34	•
End Time		Tag	CH4	09/18/2021	00:30:34	•
09/18/2021 🛗 23:59:59		Tag	CH4	09/18/2021	00:30:35	Ē
Keyword		Tag	CH4	09/18/2021	00:30:36	•
Reymold		Tag	CH1	09/18/2021	12:25:53	•
Chappel		Tag	CH3	09/18/2021	12:25:58	
		Tag	CH5	09/18/2021	12:26:04	•
CH1		Tag	CH6	09/18/2021	12:26:08	Ē
CH2						)
🛃 💼 CH3						
🗹 🔤 CH4						
🗹 🔤 CH5						
🔽 💼 CH6						
CH7						

- 1. Select the start time and end time you want to search.
- 2. Select the channel(s) you want to search.
- 3. If you gave customized tag names to the tags, you can input the keyword to narrow your search.
- Click Q button to search. The tags will be displayed on the right window. Click the play button 
   I to start playing.
- 5. If you want to modify the tag name, click  $\checkmark$  button. Click  $\overline{\mathbf{m}}$  button to delete the tag.

# 6.7 Play External File

The NVR supports to play the videos saved in the external USB memories.



Insert your USB memory into the USB port, find out the folder where the video files are saved, and then click the play icon to play the video.

# 6.8 Picture Search & View

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



#### To search, play & back up pictures:

- 1. Choose the date & time you want to search.
- 2. Check the picture capture types you want to search, or check Search Type to choose all.
- 3. Choose the channels you want to search, or check **Channel** to choose all channels.
- 4. Click Q button to start search.
- 5. Pictures fitting your search criteria are displayed in list form. You can double click one of the pictures to get a larger view.
- 6. Click I < < 1 /250 → → icons in the bottom-right corner of the menu to browse between pages of pictures, or input the page you want to browse.
- 7. You can switch the view of list form in by clicking below icons which is show at the right bottom corner of the screen:

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

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

1 CH1 00:00:00	2 CH1 00:00:45	<b>3 CH1</b> 00:18:30	4 CH1 00:44:03	5 CH1 01:10:48
9 CH1 02:01:12	🔄 10 CH1 02:25:38	11 CH1 02:43:17	<b>12 CH1</b> 03:02:08	13 CH1 03:08:37
17 CH1 04:07:23	18 CH1 04:19:35	19 CH1 04:36:40	20 CH1 05:00:20	21 CH1 05:24:12
25 CH1 06:41:12	26 CH1 06:44:25	<b>27 CH1</b> 07:01:42	28 CH1 07:20:43	29 CH1 07:31:23

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

	Channel	Туре	Date	Time	Size	Playback
1	CH1	MIN	10/24/2017	00:00:00	160KB	
2	CH1	MIN	10/24/2017	00:12:01	201KB	Ð
3	CH1	MIN	10/24/2017	00:21:20	401KB	Ð

- 8. When you click the left button of your mouse upon one of the pictures, system will show the picture information on the left bottom corner of the screen.
- 9. Check the box next the number of the event to select files, or check the box next **Select** to select all pictures in the page.
- 10. The number of selected files, total size information will be displayed at the right bottom of the screen.

# C Search General Events Sobepetiols Smatt Tag Extemal File Petae Sice Al C Detaeved Ten 000002 C H N 000022 C H N 000128 C H N 000128 C H N 00128 C H N 00138 C H N 00138 C H N 00138 C H N 00131 C H N 0014 C H N 0

## 6.8.1 Picture Preview Control

- 1. Picture List: to select pictures here.
- 2. Click 📄 button to save your selected pictures to a USB flash drive.
- 3. Press ↔ button to exit preview control window and go back to picture search window. Press 🕕 button to pause, press > to resume slideshow.

Press [k] button to display previous snapshot or group of snapshots, press [k] to display the next snapshot or group of snapshots.

Click D button to view a single snapshot at a time, click D button to view four snapshots at a time, press buttons to view nine snapshots at a time.

# 6.9 Slice Search

This is a function to slice each hour's video into 60 fragments.



Choose the video stream type, channel, date and hour. The system will display 60 thumbnail images of each minute on the screen. Click on any one of the thumbnail images, the video will be played on the left bottom corner.

# 6.10 Al Search

#### 6.10.1 Face

Choose date, time, channel, groups to search all captures faces.



- 1. Click 🕀 icon to add customized faces.
- 2. Choose the **Channels** you want to search.
- 3. You can also set search conditions of the facial features in Attributes.
- 4. Choose the comparation group in Alarm Groups.
- 5. Click 🙆 icon to configure the AI settings.

#### 6.10.1.1 E-Map

E-Map function helps to track a person's faces. Click the  $\ge$  icon to sets the E-Map function.



1. Click Load Map button to load a map image from your USB memory.

2. Check the **Edit** box. Click and hold the channel icon and move one by one to adjust the site of your IP cameras on the map. Uncheck the **Edit** box to quit the edition.



3. Click  $\bigoplus$  icon to select one face image from local storage or external USB storage. Select date & time, group(s), channel(s), set the similarity rate, and then click Search button. The system will display the result on the e-map. If the person was captured by multiple cameras, the system will display his/her moving track on the map.



4. Click upon one of the sites, it will display the captured date & time. Click the Play button, the recorded video will be played on the left bottom corner.



5. Click the play button  $\triangleright$  on the play control, the system will automatically demonstrate the moving track. Check the **Play Record** box, recorded videos will be played meanwhile.



## 6.10.2 Human & Vehicle

The system provides a quick search for human beings and vehicles.

Q Search General Events Sub-periods Smart Tag External File Picture Slice Al									
Face Human & Vehicle PID & LCD Repeat Visitors Face Attended	ince								
Time 17/03/2021 🗰 00:00:00	Sort By Time J								
17/03/2021 🛗 23:59:59 Channels	17/03/2021 14:18:57	03/2021 14 18:56	17/03/2021 14:18:55	17/03/2021 14:18:54	17/03/2021 14:18:54	17/03/2021 14:18:50			
Vehicle Search	100								
Snapped Information:									
Channel	[CH2]	[CH2]	[CH2]	[CH2]	[CH2]	[CH2]			
Start Time	17/03/2021 14:18:45 17/	03/2021 14:18:41	17/03/2021 14:18:28	17/03/2021 14:18:18	17/03/2021 14:18:01	17/03/2021 14:17:49			
		and the second second							
End Time									
D	10.00	Detail Infor	mation		1000				
0	[CH2]	Custom Pla	yback [CH2]	[CH2]	[CH2]	[CH2]			
Туре	17/03/2021 14:17:45	03/2021 14:17:45	17/03/2021 14:17:32	17/03/2021 14:17:28	17/03/2021 14:17:25	17/03/2021 14:17:19			
	10.00								
	[CH2]	[CH2]	[CH2]	[CH2]	[CH2]	[CH2]			
	17/03/2021 14:17:16	03/2021 14:17:12	17/03/2021 14:16:55	17/03/2021 14:16:49	17/03/2021 14:16:46	17/03/2021 14:16:43			
$(\triangleright)$									
	10 10		1000	1000	10 A 10				
	(CH2)	ICH21	(CH2)	ICH21	ICH21	(082)			
	[612]	[012]	[012]	[012]	[012]	[Gin2]			
00.00.00 00.00.00	🗈 🔺 🗈 🔳 Sele	ct All Selected:0	IC (	< 1 /59 > >I	Brows	e Type:			

- 1. Select the date & time, channel(s).
- 2. Choose the detection type: Human and/or Vehicle.
- 3. Click **Search**, the result will be displayed on the right side of the window.
- 4. Click one of the images, the system will show its basic information on the left side of the window, and the video will be played on the left bottom side.

- 5. Right click your mouse upon one of the images, you will have 2 options:
  - A. To view the file information.
  - B. To start playback of the file.



6. Choose one or more files, click the play button ▶, the system will turn to the playback interface to play the selected file(s). Click the ▲ icon to select the time duration you would like to play. Click ♥, to save the selected file(s) to your USB memory.



## 6.10.3 PID &LCD

The system provides a quick search for PID & LCD..



- 1. Select the date & time, channel(s).
- 2. Select PID and/or LCD in Vigilance.
- 3. Choose the detection type: Human and/or Vehicle.

- 4. Click Search, the result will be displayed on the right side of the window.
- 5. Click one of the images, the system will show its basic information on the left side of the window, and the video will be played on the left bottom side.
- 6. Right click your mouse upon one of the images, you will have 2 options:
  - A. To view the file information.
  - B. To start playback of the file.



7. Choose one or more files, click the play button ▶, the system will turn to the playback interface to play the selected file(s). Click the ▲ icon to select the time duration you would like to play. Click to save the selected file(s) to your USB memory.



#### 6.10.4 Repeat Visitors

This is a function to fast search the frequency of occurrence of persons in a certain time period.



- 1. Select the date & time, group(s) & channel(s).
- 2. Set the **Attributes**.
- 3. Set the Min. Interval time (second).
- 4. Click **Search**, the result will be displayed on the right side of the window.
- 5. You can sort the result by **Time** and **Frequency**.
- 6. You can narrow the result by setting the **Minimum Occurrence** number.
- 7. Click one of the images, the system will show its relative information, including channel, captured start and end time on the left side of the window, and the video will be played on the left bottom side.
- 8. Right click your mouse upon one of the images, you will have 2 options:



A. If the face exists in the face database, you are able to edit and check the face information.

B. If the face doesn't exist in the face database, you are able to add and check the face information.

Choose one or more files, click the play button ▶, the system will turn to the playback interface to play the selected file(s). Click the ▲ icon to select the time duration you would like to play. Click ♥, to save the selected file(s) to your USB memory.



#### 6.10.5 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.

**Note**: In case of failure, do NOT take the face attendance function as your only measure to check attendance.

Q Search General Events Sub-periods	Smart Tag	External File	Picture Slic								(C) 09/24/2		56:18 X
Face Human & Vehicle PID & LCD Repeat Visitors Face	Attendance												
Channels Select Mode By Group 🗸 🗸		On Duty Time	08:30:00			ff Duty Time 1	7:30:00						
Date Day Week Month Custom Today		Name		Detail	09/20	09/21	09/22	09/23	09/24	09/25	09/26		Leave Early
09/20/2021 苗 09/26/2021 🛗													
Working Days			Group 1										
Sun. 💟 Mon. 💟 Tue. 💟 Wed.	8	F265	Group 1	Ŧ	0	0	0	0	0	~	$\checkmark$	0	0
🗸 Thu. 🔽 Fri. 🛛 Sat.	9	F266	Group 1		0	0	<b>N</b>	0	0	$\checkmark$	$\checkmark$	1	1
		F268	Group 1				k						
		F266	Group 1	Ŧ									
25 F290 🚺 26 F281 🚺 27 F282 🚺 28 F283 🚺													
		F268	Group 1	E									
29 F284 30 F285 31 F286 32 F287				-									
i 🦉 🚿 🖪						Normal	🗯 Lai	e 🛻 U	eave Early	≒ Late a	nd Leave Early	0	Absence
Select All IK < 4 /5 > >1					06:30:00					7:30:00			
Search													
	9.22												
$\bigcirc$													
$( \triangleright)$	625												
	9.25												

- 1. Select the channel(s).
- 3. Select the search date by individual day, week, month, current day or customized date.
- 4. Set the Working Days, On Duty Time and Off Duty Time.
- 5. Click **Search** button, the result will be displayed on the right side of the window.
- 6. You can export or email the data.

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.



# **Chapter 7 Remote Access via Web Client**

Use the Web Client to remotely access your NVR at any time via a PC. Before you access the Web Client, you need to ensure that the internet settings of the NVR are configured properly.

# 7.1 Basic System Environment Requirements

The minimum requirements for hardware and OS required to run Web Client are given as below.

Item	Minimum	Recommended				
CPU	Intel® Core™ i5 CPU	Intel® Core™ i5 CPU or higher				
RAM	4G or more	8G or more				
Hard Drive	500G or more	1000G or more				
Display RAM	2G or more	4G or more				
Display Resolution	1280*1024	1920*1080				
09	Windows 10 or above					
03	Mac OS X® 10.9 or above					
DirectX	DirectX 11					
Direct3D	Acceleration Function					
Ethernet Adapter	10/100/1000M Ethernet Adapter					
Browser	Microsoft Internet Explorer, Edge, Firefox, Google Chrome, Mac Safari					

# 7.2 Web Plugin Download and Installation

In order to access the Web Client, you would need to install the plug-in for Internet Explorer. It is unnecessary to install plug-in for Edge, Firefox, Google Chrome and Mac Safari.

**1.** Launch the explorer on your PC and enter the NVR IP address or DDNS domain name (Host Name) you have set on NVR in the URL box.

**2.** For the first time you run the web client, system will require to install the web client plugin. Click **download** to download the plugin and install to your computer.



**3.** After installing the plug-in, close & launch again your browser and repeat step 1 to open the login page. Input your user name and password to login the web client.

ප	admin											
-0												
🗖 Re	Remember Password											
	Login											

*Note*: For Microsoft Edge, Firefox, Google Chrome, Mac Safari, you don't need to install the plug-in, but some functions might be limited.

# 7.3 Web Client Manager

The web client supports to fully control the NVR with administrator account. Please make sure to protect your user name & password for preventing illegal login.

#### 7.3.1 Live Interface

This is the first screen that opens after you have logged in to the Web Client. Here you can open or close live preview, record video to local computer manually, take snapshots of the screens, PTZ control, color adjustment, etc.



1- Channel List: Open the channel list for quick camera function

Click button to display the Channel List.

Click 5 button to hide the Channel List.

- Turn the Live video stream on/off. The button is in blue color if the live video stream is on.
- Manual Recording buttons. Click to start manually recording live stream video.
   Click again to stop recording. Manual recordings are saved to your computer.
   While in recording, the button is in blue color.
- Manual snapshot button. Click to save a snapshot of the current live display to your computer.

Bitrate button. Set camera to use mainstream, substream or mobile stream video settings. Mobile stream is available for IP channels only.

#### 2- Live Video Stream Options:

Mainstream: View all live videos using high-quality mainstream video settings.
Substream: View all live videos using middle-quality substream video settings.
Mobile Stream: View all live video using lower-quality mobile stream video settings to conserve bandwidth. Available for IP channels only.

#### 3- Main Menus:

Live: View live video from cameras.

Playback: View recorded video which is saved in NVR's HDD.

Remote Setting: Access functions of the NVR setting menus.

**Local Settings:** Set download locations for recordings and snapshots taken using Web Client, and choose file type for video files.

- 4- Information: Hover over to see system details.
- 5- Exit.
- 6- Color Controls. Click to display or hide the color controls.



7- PTZ Controls: Click to display or hide the PTZ controls for using PTZ cameras.



#### 7.3.2 Playback

You can search & play recording videos stored in the HDD inside the NVR, and download the videos to your computer.



#### To search recordings:

- 1. Click **Playback** in the top-right corner of the window.
- 2. Select a day on the calendar to search for recordings from. Days with recordings appear with a red underline.
- 3. Select the recording type to search for from the dropdown next to **Type**, or select **All** to search for all recordings.
- To choose the video stream you want to search & play. If you want to play Substream recordings, please make sure you had set the NVR to record with Dualstream at <u>5.2.2.1</u> <u>Record</u>.
- 5. Check the channels you would like to search for recordings from. Check **Synchronous playback** to play all channels at once.
- 6. Click Search.
- 7. Recordings that fit your search will be displayed in the timeline. Click a section of video where you would like to begin playback and click the ▶ play button.

#### Live Playback CH02 CH03 IP CH03 CH04 IP CH04 IP CH05 IP CH06 🛨 🖂 Ð 0 Π

#### 7.3.2.1 Playback Control Buttons

Play the recordings

# Pause

Stop

**Go Forward One Frame:** Move frame-by-frame through playback. Only available when

the Synchronous playback option is not checked.

Click upon one of the channels which is being played and then click record button to

record current video to your computer. Click again to stop recording.

Click upon one of the channels which is being played and then click capture button to take a snapshot and save to your computer.

• Opens the Download menu, which allows you to download several video recordings at once.

#### **USER MANUAL**

		Start Time	End Time	Status	File Size							
1	<b>V</b>	2017-10-25 00:00:00	2017-10-25 00:01:04	Completed	47.00M							
2		2017-10-25 00:01:04	2017-10-25 00:06:56	2%	253.76M							
3		2017-10-25 00:06:56	2017-10-25 00:12:48	Not Downloaded	253.71M							
4		2017-10-25 00:12:48	2017-10-25 00:18:41	Not Downloaded	253.91M							
5		2017-10-25 00:18:41	2017-10-25 00:24:34	Not Downloaded	253.64M							
6		2017-10-25 00:24:34	2017-10-25 00:30:27	Not Downloaded	253.68M							
7		2017-10-25 00:30:27	2017-10-25 00:36:18	Not Downloaded	253.75M							
8		2017-10-25 00:36:18	2017-10-25 00:42:10	Not Downloaded	253.90M							
9		2017-10-25 00:42:10	2017-10-25 00:48:03	Not Downloaded	253.74M							
10		2017-10-25 00:48:03	2017-10-25 00:53:56	Not Downloaded	253.63M							
10	~	4 ∢   1 / 10   ▶	N 8	Show from 1 to 1	0, total 95. Per page : 10							
		Start D	lownload	Stop Download								

Choose the files you want to download, press **Start Download** button to begin, you will see the download status. Press **Stop Download** button to stop.

**×1** Playback Speed. Click to choose the playing speed.

**Play All Channels:** Click to play all channels you have chosen to searched. Only

available when the Synchronous playback option is not checked.

T Stop All Channels: Click to stop playing all channels. Only available when the

Synchronous playback option is not checked.

Q Digital Zoom: Click upon on a playing video, then click-and-drag over an area of the video to enlarge. Right-click to return to the normal display.

Original Proportions: Shows the playing video at the original proportions

Stretch: Stretch the playing video to fit the full area for each channel on screen.

To enlarge the web client to full screen.

#### 7.3.3 Remote Setting

Here you can remotely configure the settings of the NVR. Please see "<u>Chapter 5 NVR</u> <u>System Setup</u>" for more details on the NVR settings.

image Control [PT2]       image Control [PT2]       image Control [PT2]         Mode Convert imatigeet       image Control [PT2]       image Control [PT2]         Process       image Control [PT2]       image Control [PT2]		Chan	el		State	IP Adderss	Subnet Mask	Port	Manufacturer	Device Ty				
Moden Detection         IP CR0       IP	Image Control   PTZ	IP CH	1 🗇	0		10.10.25.151	255 255 0.0	9988		IP CAN				
Vale     Cover   maligent       Record     PCM     P     10 10 20 10 3     250 250 0     968 PCM       Encode   Record       PCM     P     P     P     P       Capter     P     P     P     P     P       Alarn     P     P     P     P     P       P     P     P     P     P     P       P     P     P     P     P     P       P     P     P     P     P     P       P     P     P     P     P     P       P     P     P     P     P     P       P     P     P     P     P     P       P     P     P     P     P     P       P     P     P     P     P     P       P     P     P     P     P     P       P     P     P     P     P     P       P     P     P     P     P     P       P     P     P     P     P     P       P     P     P     P     P     P       P     P     P     P     P       P     P     P	Motion Detection	IP CH												
Record     IP C/B     IP C/B     IP C/B       Encode [Record]     IP C/B     IP C/B     IP C/B       IP C/B     IP C/B     IP C/B       IP C/B     IP C/B     IP C/	Video Cover   Intelligent	IP CH	3 🗐	8		10.10.25.153	255.255.0.0	9988		IP CAN				
Encod   flood         Capter       Alarn       Beroit + 0       P CHB + 0	Record	IP CH												
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Alarm   Moden   10   Exception   Network   General   DDNS   Email     PP CHB + 0   P CHB + 0	Capture	IP CH	8 +	1										
Modin    U  Ecception   Network   General    DDNS    Email      FP   Device   Device   Device   Cauck Addl Retreah	Alarm	IP CH	9 +											
Network       General [DDNS] [mail]       FIP       Device       Device       Device       Concert [Multi-Ser]       Mathematics       Information	Motion   I/O   Exception	IP CH												
General [DDS] [mail] FTP Device Deki System Conceral [MitHuber] Mathematics Information	Network	IP CH	13 +											
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#### 7.3.4 Local Setting

Set download locations for recordings and snapshots taken using Web Client, and choose file type for video files.

cal Settings		
Record Path	D:\Device\Record	
Download Path	D:\Device\Download	D
Snapshot Path	D:\Device\Capture	
File type	RF	
	Save	

**Record Path:** Click to browse for and select the folder where you would like the manual video recordings to be saved on your computer.

**Download Path:** Click **t** to browse for and select the folder where you would like to save the download video recordings to your computer.

**Snapshot Path:** Click **to** browse for and select the folder where you would like the manual capture snapshots to be saved on your computer.

**File Type:** Choose your preferred file type for manual recordings. **Save:** Click to save the modifications.

# Chapter 8 Viewing Backed Up Video on PC/Mac

This section will help you to play the backup files with the powerful video player which is attached in the CD or you can download from: <u>http://al8.co</u>

For Mac users, please install the app "VideoPlayer\_x.x.xx\_xxxx\_xx\_dmg", for example: VideoPlayer\_1.0.32.dmg.

For Windows users, please install the software "VideoPlayer\_x.x.xx\_xxxx\_xx\_xx.exe", for example: VideoPlayer\_1.0.41\_2021\_02\_25.exe.

#### **Minimum System Requirements**

- Intel Pentium 4 or above
- Microsoft Windows XP / Vista / 7 / 8 / 10
- 256MB RAM
- 16MB video memory
- 1. Install the Video Player software in the CD and run.

VideoPlayer												⊡ -	- 🗖	×
Play List	+	Ô	t	¥,	Ready						Ø	×	*	20
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					1.000									
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6

- 2. Copy the backup files to your computer.
- 3. Click **Open File** button or click **+** button on the Play List to load single or multiple video files. It supports to add & play ".rf", ".avi", ".mp4", ".264" and ".265" files. Click **■** button to load a folder with backed-up videos.

### Video Player Control



#### 1. Play List

- 🖶 Add files
- Temove files
- To choose play mode: play a single file and stop; play all listed files by sequence; repeat one file; repeat all files.
- 📆 Filter by file name
- 2. 📰 Hide/Show Playlist
  - Click to open files or load a folder.

#### 3. Play Controls

- Play
- 🕕 Pause
- Stop
- Play frame by frame. Click once to play a frame of the video
- ▶ Slow Play, 1/2, 1/4 and 1/8, 1/16 speed
- Fast Forward, x2, x4, x8 and x16

4. Volume control

Multi-screen play. It allows to play multiple videos at a time. When you choose multiscreen, you can drag the video in Play List to the play screen.

5. 🔯 Take snapshot

To save a video clip to your computer. Press once to start, press again to end the video clip.

- Keep the video player on top
- Enlarge the video play screen to full screen

6. Advanced Setup Menu allows to choose the OSD language of the video player, and configure the setting of video player.

Settings	Basic Capture	×
Sitck on Top:	<ul> <li>Stick on Top When Playing</li> <li>Never Stick on Top</li> <li>Always Stick on Top</li> </ul>	
Save List File Wh	en Exit	
Restore	OK Cancel A	apply

Settings	<b>Ç</b> Basic	Capture		×
Output Settings:				
Format:	PNG	<u> </u>		
Saving Path:	C:/Users/Adm	inistrator/ Bro	wse	
Restore		ОК	Cancel	Apply

Capture Settings: Set the format and the path to save snapshots.

# Chapter 9 Remote Access via Mobile Devices

The NVR supports to remote access via mobile devices based on Android & iOS operating system.

- 1. Search RXCamView from Google Play Store for android devices or App Store for iOS devices and install.
- 2. Run the app, the GUI is displayed as below:

3. Touch the 2 icon on the left top corner and then choose Device List to turn to the Device Manager page. Touch the + icon on the right top corner and then select "IPC/NVR/DVR".



The app will open your phone camera to enter the scan mode. If your NVR supports P2P, scan the P2P ID QR code inside your system info page or on the top cover of your NVR. Input the media port, use name & password, and then click save.



5. The added NVR will be displayed in the Device Manger page. Touch the play button to start live view.



6. If your mobile is connecting to the Wi-Fi which is in the same LAN with your NVR, you can choose to add the NVR by using Online Search. Touch on the device in the search result list, and then input the port, use name, password to add.



7. If your NVR doesn't support P2P, you must add the device manually. Touch on the Manual Add button, and then input the IP address or DDNS domain name, port, user name & password, click Save to add the NVR.

For more operations about the app, please check on the Help menu in the app.

## **Chapter 10 Appendix**

## **10.1 Troubleshooting**

- Q: What can I do if the system does not detect the HDD?
   A: Check if the power supply system is properly connected and data cord and power cables are securely connected, and if something wrong with the HDD interface. Or you may check if your HDD is supported by referring to the specifications or descriptions.
- 2. Q: I have changed the password but forget the new password, how can I access the system?

A: If you forget system password, please consult with our technical personnel. We strongly suggest user to set password easy to be remembered and relatively safe. If you have safety requirement, please do not set very simply password, such as 000000.

- Q: We see abnormal video signal or even no video signal by connecting the NVR and camera together. Power supply for both devices is OK. What is wrong?
   A: Check network cable at NVR side to see if the cable is firmly connected and if it is worn out and needs to be replaced, or to check if NTSC or PAL is selected consistently.
- 4. Q: How to prevent NVR from being influenced by heat?A: The NVR needs to dissipate heat while it is running. Please place the NVR in a place with good air circulation and away from heat sources to ensure stability and life of the NVR.
- 5. Q: The remote controller of NVR doesn't work while the monitor screen is OK and panel keys are functional. Why?

A: Operate again by aiming the remote controller at the IR receiver on front panel. If it still doesn't work, please check if the batteries in the remote controller are dying. If not, check if the remote controller is broken.

- Q: I want to take out HDD from my PC and install it in NVR. Can it work?
   A: All HDDs supported by the system can be used. But remember, once NVR runs, the data on your HDD will be lost.
- 7. Q: Can I playback while recording?

A: Yes. The system supports the function of playing while recording.

8. Q: Can I clear some records on HDD of NVR?

A: In consideration of the file security, you may not clear part of records. If you want to remove all the records, you can format HDD.

- Q: Why can't I log in NVR client?
   A: Please check if the network connection settings are correct and RJ-45 port is with good contact. And check if your account and password are correctly input.
- 10. Q: Why can't I find any records during playback?

A: Please check if the data line connection for HDD is OK and system time is properly adjusted. Try a few times and restart. If it still doesn't work, check if the HDD is broken.

- 11. Q: Why NVR cannot control PTZ?
  - A: Please check if:
    - a) PTZ in the front side is malfunctioned.
    - b) Setting, connection and installation of PTZ decoder are not correct.
    - c) NVR's PTZ setting is not correct.
    - d) Protocol of PTZ decoder does not match that of NVR.
    - e) Address of PTZ decoder does not match that of NVR.
    - f) If many decoders are connected, the farthest side of AB line of PTZ decoder should be added 120Ω resistance to realize reflection suppression and impedance matching. Otherwise, PTZ control will be unstable.
- 12. Q: Why doesn't dynamic detection work?

A: Please check if the motion detection time and motion detection regional setting are correct and if the sensitivity is set too low.

13. Q: Why doesn't alarm work?

A: Please check if the alarm setting, alarm connection and alarm input signals are correct.

14. Q: Why does buzzer keep alarming?

A: Please check the alarm setting, check if motion detection function is enabled and object motion is detected all the time and if I/O alarm is set as Always Off. Besides, refer to corresponding HDD alarm setting.

15. Q: Why can't I stop recording by pressing "STOP" button or click "Stop Recording" in context menu?

A: Pressing Stop or Stop Recording can only stop manual record. If you want to stop Scheduled recording in certain time quantum, please change the setting to No Record. To stop Startup recording, please change record mode to scheduled recording or manual recording. Then you may stop recording by the prescribed methods. And another way of stopping recording is to set channel as off status in record setting.

## 10.2 Usage Maintenance

- 1. To shut down NVR, please firstly shut down the system and then turn off the power. Do not turn off the power directly or HDD data will be lost or damaged.
- 2. Please keep NVR away from heat sources or places.
- 3. Clean the internal dust regularly. Make sure the good ventilation of NVR so as to ensure the good heat dissipation.
- Please do not hot plugging audio and video cables, or cables connected to ports like RS-232 or RS-485. Otherwise, the ports will be damaged.
- 5. Please check the HDD cable and data cable regularly to see if they are ageing.

- 6. Please prevent the audio and video signals of NVR from being intervened by other electronic devices, and prevent the HDD from being damaged by static electricity and induced voltage. If the network cable is frequently plugged, it is suggested to replace connecting line regularly, or the input signal may be unstable.
- 7. This is a class A product. It maybe brings wireless interference in life. Under this situation, it need user to make measures.

## **10.3 Accessories (For reference only)**



□ USB mouse



□ Power Adapter

Quick Insta	allation Guide
NVR	

 $\Box$  Warranty Card

### CAUTION RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS