# **Owner's Manual & Safety Instructions**

Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.



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# 8 CHANNEL 4K NVR SECURITY SYSTEM with (2) 4K-UHD Resolution Cameras



	WARNING SYMBOLS AND DEFINITIONS
	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE CAUTION	Addresses practices not related to personal injury.

# **IMPORTANT SAFETY INFORMATION**

# 

Read all safety warnings and instructions.

Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference.

## **Installation Precautions**

- 1. Check federal, state and local surveillance laws before installing video and/or audio surveillance equipment.
- 2. Install only according to these instructions. Improper installation can create hazards.
- 3. Do not overreach when installing this product. Keep proper footing and balance at all times. This enables better control in unexpected situations.
- **Use Precautions**
- 1. This product is not a toy. Do not allow children to play with or near this item.
- 2. Use as intended only.
- Disconnect power supply before opening NVR housing to install storage drives. Do not alter anything else inside NVR.

- 4. Wear ANSI-approved safety goggles during installation.
- 5. Keep installation area clean and well lit.
- 6. Keep children and bystanders out of the area during installation.
- 7. Do not install when tired or when under the influence of alcohol, drugs or medication.
- Maintain product labels and nameplates. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

## Service

Have your NVR equipment serviced by a qualified repair person using only identical replacement parts. *This will ensure that the safety of the equipment is maintained.* 

## **Camera Safety Warnings**

- 1. To prevent electric shock, do not attempt to disassemble Camera. There are no serviceable parts inside.
- 2. Do not expose the Power Adapter to rain or wet conditions. Water entering the Power Adapter will increase the risk of electric shock.

## **NVR Safety Warnings**

- 1. Maintain adequate airflow around NVR.
- 2. Use supplied Power Adapter only.
- 3. To prevent electric shock, do not attempt to disassemble NVR. There are no serviceable parts inside.
- 4. Do not expose the Power Adapter or NVR console to rain or wet conditions. Water entering the Power Adapter or NVR console will increase the risk of electric shock.
- 5. Do not abuse the Power Adapter cord. Never use the cord for unplugging the plug from the outlet. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.

- 3. Do not abuse the Power Adapter cord. Never use the cord for unplugging the plug from the outlet. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- 4. Handle Camera with care. Camera could be damaged by improper handling or storage.
- Maintain labels and nameplates on the unit. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
- 7. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

SAVE THESE INSTRUCTIONS.

#### Grounding

## 



TO PREVENT ELECTRIC SHOCK AND DEATH FROM INCORRECT GROUNDING WIRE CONNECTION:

Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. Do not modify the power cord plug provided with the tool. Never remove the grounding prong from the plug. Do not use the tool if the power cord or plug is damaged. If damaged, have it repaired by a service facility before use. If the plug will not fit the outlet, have a proper outlet installed by a qualified electrician.

2.

1. The included Power Adapters do not require grounding.

The Power Adapters may be used in

either of the 120 volt outlets shown in the

preceding illustration. (See Figure A.)

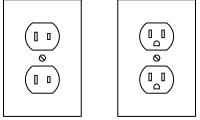


Figure A: Outlets for 2-Prong Plug

## **Extension Cords**

Note: Do not use an extension cord with the Power Adapters.

## Symbology

	Double Insulated	~	Alternating Current
V	Volts	Α	Amperes

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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

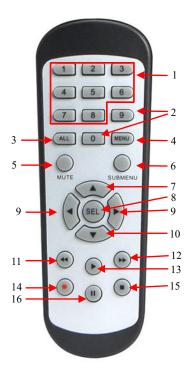
# **Chapter 1 Product Overview**

# 1.1 Rear Panel



- 1) Startup and shutdown
- 2) Connect the attached power supply
- 3) Audio signal output, RCA interface
- 4) Connect to VGA monitor, such as PC monitor
- 5) HDMI high-definition port
- 6) Connect USB devices, such as USB mouse and USB flash disk.
- 7) Network input interface of the router / switch
- 8) Built-in PoE switch for camera connection.
- Reset button. Press and hold 3 seconds to reset password.
   Press and hold 10 seconds to load all default settings.

# **1.2 Remote Controller**

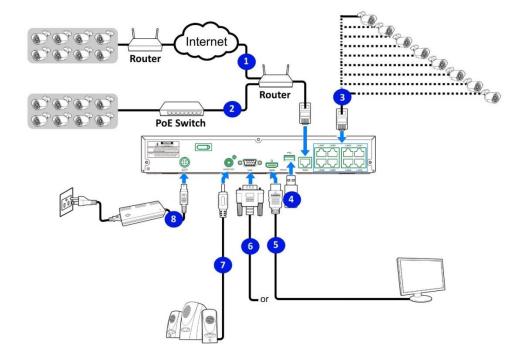


No.	lcon	Description
4	1 0	Numeric keys
1 1-8		Press to display channel 1~8
2	9、0	Numeric keys
3	ALL	Press to display all channels
5	ALL	Multiple display mode
4	Menu	Press to enter or exit the Main Menu
5	Mute	Mute On/off
6	Submenu	Go to submenu
7		Up arrow key; Volume increase
8	SEL	Press to enter the selected menu item and
0	5LL	edit the setting
9		Left/Right key; Decrease/increase parameter
9		value of control bar.
10	▼	Down arrow key; Volume decrease
11	••	Press to rewind during video playback
12	••	Press to fast forward during video playback
13		Press to play recorded video or enter the
15		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
10		frame-playback mode

•

# **Chapter 2 NVR Connection**

## 2.2 Connection Diagram

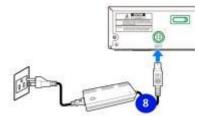


*Note*: Above diagram is for reference only<sub>Speaker</sub> practical connection may be different depending on the NVR you purchased.

# 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.

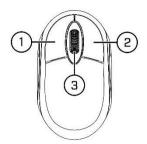


Press the Power switch to turn on the power.



# 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 Password
Confirm Password			Show Password
		Apply	

#### Language: Choose an OSD language

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

New Admin 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.

Language	ENGLISH		<b>×</b>	
Device ID	000000			(000000)
User	admin		<b>×</b>	
Password	•••••			Show Password
		Login		

**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

No Camera		٧	Vizard		×	No Camera
	Network					
	Local Connection					
	DHCP					
	IP Address	172.020.031.108				
	Subnet Mask					
	Gateway					
No Camera	IPv6 Gateway	1e80: 223 63ff 1e8a 6c2a 1e80: 764				No Camera
	DNS					
	DNS1					
	DNS2					
	Port					
	Se	rvice Protocol Internal Port Extern	al Port UPNP Status	Maping Strategy UPNP		
	1 V	Veb TCP 00080 0008	Inactive	Auto 🖌 🔳		
No Camera				Cancel	Next	
				×,		
		10/20/2021 1	1:26:56 AN	Λ		

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				×
letwork										
DN	IS2									
Port										
		Service	Protocol	Internal Port	External Port	UPNP Status	Maping Str	ategy	U	
	1	Web	TCP	00080	02414	Inactive	Manual	~	6	
	2	Client	TCP	09000	1816	Activate	Auto	~	6	
	3	RTSP	TCP	00554		Inactive		~		
	4	Https	TCP	00443		Inactive		~		
PPPoE	able PPP									
Us										
Pa	ssword					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	Ë
Time		15:39:21	
Date Format		MM/DD/YY	~
Time Format	t	24Hour	~
Time Zone		GMT+08:00	~

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

Time: Click to set the system time.

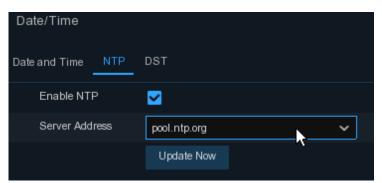
Date Format: Choose from the dropdown menu to set preferred date format.

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.



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

#### DST

DST stands for Daylight Savings Time.

Date and Time	NTP DST						
Enable DST	<b>~</b>						
Time Offset	1Hour	~					
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.

57648 PoE NVR, the IP camera will get online automatically if the IP camera is connected to the PoE port on the NVR rear panel.

		Wizard		Edit State IP Address/Domain Subnet Mas	
IP Camera					
No. IP Address/D	No. IP Address/Domain Port Manufacturer MAC Addr	POE	СН1 🧪	State IP Address/Domain	Subnet Mas
		POE POE POE	СНЗ 🧪		
		POE	СН5 💉		
		POE POE	СН7 🧪		
Search					main Subnet Mas
Juliu			Previo	us Next (	Cancel

### 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			

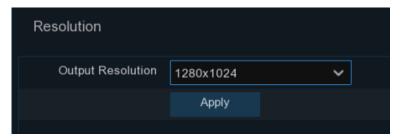
If the HDD is installed in the NVR for the first time, it must be formatted. Select the HDD and then click **Format HDD** button to format the HDD.

**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.

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

## 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.



### 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	
Subnet Mask	255.255.255.0	告诉法律
Port		EDW-EWER
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 Icons	ons	
<b>†</b>	· •	
A-CH1 ●★	A-CH2	A-CH4 ●★
A-CH5 (෪ @ ⊡ ⊕ @ @  ● ★	A-CH6	СН8
↓ Camera Quick Toolbar		VIDEO LOSS
A admin		+ No Camera
	88 E	
Task M	enu Bar	System Date & Time

## 4.2 Live View Screen Overview

#### **Status Icons**

- This indicates that the NVR is currently recording.
- $\uparrow$  This icon appears when the camera has detected motion.
- Since the text of text
- D This icon indicates the HDD is unformatted
- 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.

## ឌ₀๎๛๛฿๗๛๛฿๗ฦ๗

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.

04/10/2017 16:30:28

A З (i)

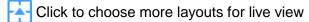
### 4.2.2 Taskbar

ŧ. ⊞ ⊞ ⊞ ₽ ⊕ ₽. <) ﷺ 🗟

Click to open the Start Menu



Click to choose different layout 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)

U. 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.

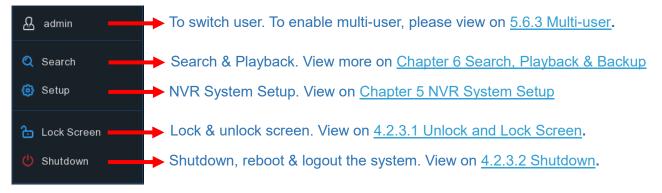
To start or stop Manual Record and Manual Alarm.

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

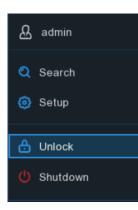
This icon will appear if the network is disconnected.

## 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

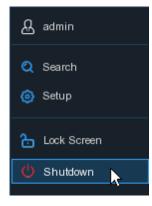


The screen will be locked to protect unauthorized OSD operation while the NVR is not in menu operation 1 minute.

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	$\times$	Longuago		1
	What do you want the computer to do	?	Language Device ID User	ENGLISH ~	(000000)
$\bigcirc$	<ul> <li>Shutdown</li> <li>Reboot</li> <li>Logout</li> </ul>		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  $\rightarrow$  Setup.

No Camera	No Camera	No Camera	No Camera
Channel Ive Image Control Video Cover M PIR "Deterrence Intelligent		Alarm Motion PIR Intelligent PTZ Linkage Exception Alarm Schedule Voice Prompts	Al Setup Recognition Alarm Statistics
Centeral DDNS Email FTP IF FILTER Voice Assistant Platform Access	Device Disk Cloud	System General Mult-User IP Camera Mantain Information	Al Scenario Cross Counting Face Attendance
No Camera	No Camera 03/01/2020 *	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	Channel Config Wireless Camera	IP Channels Protocol Manage POE Power	
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

## 5.1.1.3 IP Channels

	Channel Confi	g Wireless Cam	era IP Chann	nels	Proto	ocol N	lanaç	ge POE Power							
	No. Edit IP	Address/Domain	∧ Port	Ma	nufac	turer			vice Type		MAC Address	Software Version			
Image Control		172.20.19.110	9000					NS	5208EN		88-B2-37-6C-69	DE V8.1.0-20210413			
image control		172.20.19.131	9000					IP (	CAMERA		00-23-63-78-AA	-06 V4.33.5.2_200605			
		172.20.19.132	9000					IP (	CAMERA		00-23-63-7C-30	-D3 V10.35.7.0_201114			
Video Cover		172.20.31.52	80 HIK	VISIO	N DS-	-IPC-E	312H				10-12-FB-1C-04				
VIGEO COVEI		172.20.31.53	9000					IP (	CAMERA		00-23-63-7C-30	-9C V12.45.7.0_210122			
Motion		172.20.31.54	9000					N	15432P		88-C9-64-4A-3E	-06 V8.1.0-20201105			
PIR		172.20.31.55	9000					N	5064N		88-8F-68-8B-49	-51 V8.1.0-20210419			
PIR		172.20.31.56			ONVI						00-18-AE-B6-50	-D8			
Deterrence		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		REDLI	NE		RS-CH258H1	IND-DF-A2812	PW	00-26-63-25-77	05 V15.25.7.0_210303			
Intelligent	Search	Add	Add All												
	Channel	Switch Mode 🗸	POE Mode 🗸		Edit 8	State		IP Address/Domain	Subnet Mask	Port	Manufacturer	Device Type	Protocol	MAC Address	
	IP CH1	Manual	Auto					172.20.52.57	255.255.255.0	9000		RS-CH281M8ND-DF-WA2812PW	Private	00-23-63-A5-1E-2D	
	IP CH2	Manual	Auto					172.20.52.27	255.255.255.0	9000		IP CAMERA	Private	00-23-63-6D-0C-B6	
	IP CH3	Manual	Auto					172.20.52.28	255.255.255.0	9988	SNC-99445BF	IP CAMERA	Private	00-16-6C-FC-C7-39	
	IP CH4	Manual	Auto					172.20.52.29	255.255.255.0	9000		IP CAMERA	Private	00-23-63-6D-0D-75	
	IP CH5	Manual	Auto					172.20.52.30	255.255.255.0	9989		IPCAMERA	Private	00-23-63-6B-C4-AC	
	IP CH6	Manual	Auto					172.20.52.31	255.255.255.0	9988		IP CAMERA	Private	00-23-63-6D-0A-1E	
	IP CH7	Manual	Auto					172.20.52.32	255.255.255.0	9988		IP CAMERA	Private	00-16-6C-F7-A5-39	
	IP CH8	Manual	Auto					172.20.52.32	255.255.255.0	9988		IP CAMERA	Private	00-23-63-6D-0A-2C	
	IP CH9	Manual	Auto					172.20.52.33	255.255.255.0	9988	SNC-99445BF	IP CAMERA	Private	00-16-6C-FC-C7-57	
	IP CH10	Manual	Auto					172.20.52.34	255.255.255.0	9000		IP CAMERA	Private	00-23-63-6D-0A-3E	

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.

Channel	Switch Mode ~	POE Mode ~	Edit	State
CH1	Auto	Auto	.#*	
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 Inf	ormatio	n	>
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 Pass	word

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

Set The	Protocol Def	ault Password	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	Subnet Mask
	CH1	Auto	Auto			192.168.254.151	255.255.255.
N.E.	CH2	Auto	Auto	1	N	192.168.254.152	255.255.255.
PCF.	CH3	Auto	Auto			192.168.254.153	255.255.255.
	CH4	Auto	Auto			192.168.254.154	255.255.255
	CH5	Auto	Auto	2			

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 ▶ then the camera is well-connected; if the icon is ▶ 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 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 🔶	
	q w e r t y u i o p [ ] \ Cancel	
Auto Auto	asdf9hjkl; · ·	
Auto Auto	+ + ⊔ <sup>×</sup> = ↓	

#### 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 14-4
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 Connectio	on Information
Channel	СНБ	
Switch Mode	Auto	~
POE Mode	Auto	
	Manual	
Alias	<b>A</b>	

#### 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	h	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	ø		
CH2	Manual	Auto	0			

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	a		×
No.		IP Address/Domain	Port	Manufacturer	Device Type	MAC Address	Software Ve
1	+	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_2
IP Addres	s/Domain	192.168.5.122					
Alias		CH5					
Port		9000					
Protocol		Private			¥		
User Nam	e	admin					
Password		•••••				Show Passwork	đ
Bind cha	nnel	CH5			~		
s	iearch	Default Password				Add Ca	ancel

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				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.

	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 **x** icon to go back to search list.



M	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
		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.

	Ad	d IP Camera	×
Port		🛃 Auto	
Protocol		🗸 🔽 Auto	
User Name	admin		
Password	•••••	Show Password	
		Add Ci	ancel

#### 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			D	192.168.5.122-1	255.255.255.0	9000
CH2	Manual	Auto				192.168.5.122-2	255.255.255.0	9000
CH3	Manual	Auto				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 search page.

	No.	Edit	IP Address/Domain	Port	Manufacturer	De
Searc	h	Add	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 Pas	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.

IP Channels	E Power			
2 28W 4 1 - 8	.68W 2.43W 2.43W 2.6	200 3 4200 100 100 100 100 100 100 100 100 100 100		
			11%	
Actual power: 17.86	w			
surplus power: 138.	14W			
Note:	of the POE port of the devic	en in 150M		

# 5.1.2 Live

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

Setup Channel		Al Net	work Device	System							(b) 09/08/202		×
	Live												
		Setup		Channel Name	Show Name 🗸	Date Format				Show Time 🗸	Refresh Rate		
Image Control	CH1	٢		front door		MM/DD/YYYY	×	24 Hour	~		50Hz	~	
PTZ	CH2	۲		back door		MM/DD/YYYY	~	24 Hour	×	<b>Z</b>	60Hz	~	
				Camera		MM/DD/YYYY		24 Hour		×			
Video Cover				street		MM/DD/YYYY		24 Hour		M			
Motion				Camera		MM/DD/YYYY		24 Hour		<b>N</b>			
	CH6			Camera		MM/DD/YYYY		24 Hour		×	60Hz		
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

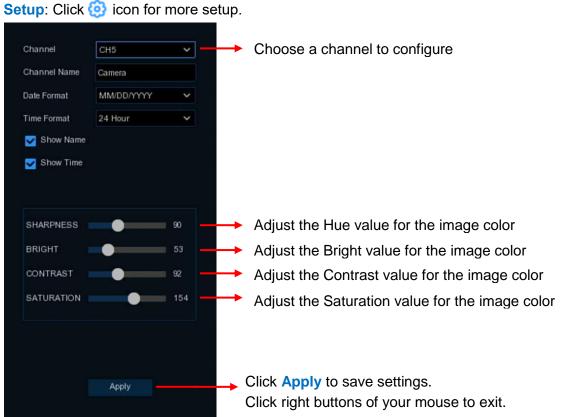
**Show Name**: To display the channel name in the images or not. It affects both live view & recording images.

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.



### 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 Chan	nel Record /		Al Network										9		43:55
	Image Co	ntrol													
		Setup	Image Setting	IR-CUT Mode	IR-CUT Delay		Angle Flip	Angle Trad		3D Noise Reduction	DWDR		White Balance	Time Exposure	Defog Level
	CH1	0		GPIO Auto		OFF	OFF	180	OFF	Auto	OFF	Middle	Auto	Auto	Disable
) PTZ				GPIO Auto						Auto			Auto	Auto	Disable
				GPIO Auto						Disable			Auto	Auto	Disable
Video Cover				GPIO Auto						Disable			Auto	Auto	Disable
Motion				GPIO Auto						Disable			Auto	Auto	Disable
	CH6	6		GPIO Auto	2	OFF	OFF	180	OFF	Auto	OFF		Auto	Auto	Disable

Setup: Click 🙆 icon into the setup page.

#### **USER MANUAL**

		Ĩ.	
Channel	CH6	× -	→ Choose a channel to
IR-CUT Mode	GPIO Auto	× _	Select the desired built-in IR cut filter mode to ensure the camera works properly both in
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	~	→ 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 De	evice Syste	m					
Channel	PTZ									
Live	Channel	Signal Ty	pe 🗸	Protocol		Baudrate	DataBit	StopBit	Parity	Address
Image Control	CH2	Analog	~	Pelco-D		9600			None	
	CH6	Digital	×							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.

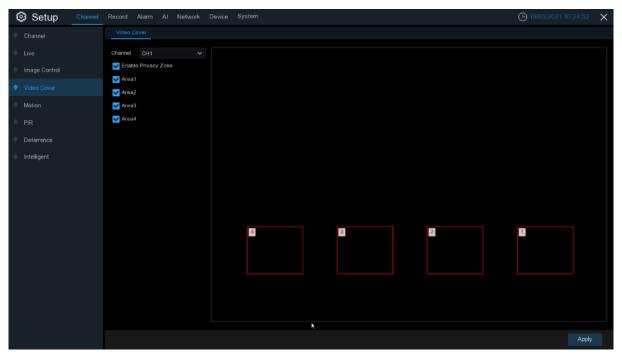
**DataBit / StopBit:** The information between the NVR and PTZ-capable camera is sent in individual packages. The **DataBit** indicates the number of bits sent, while the **StopBit** indicates the end of the package and the beginning of the next (information) package. The available parameters for **DataBit**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

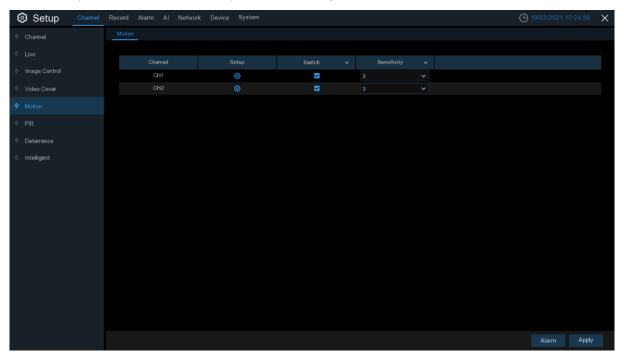
This menu allows you to create privacy zone(s) if you want to partially cover some certain part of the images. You can create up to 4 privacy zones in any size and location on the camera image. Enable the Privacy Zone, and choose how many zones you need. The zone(s) appear as "red box". Click the edge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



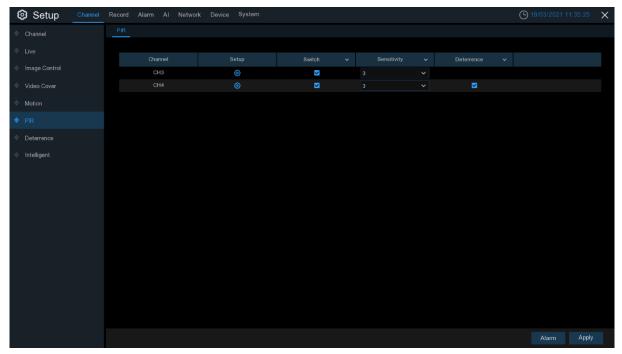
#### **Motion Detection Area:**

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.

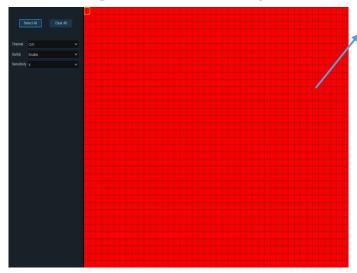
If your IP camera supports SMD (Smart Motion Detection), you can choose the camera to alert only when the camera detects **Pedestrian** (people) and/or **Vehicle**.

# 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.

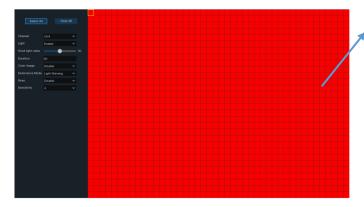
### 5.1.8 Deterrence

This menu allows you to configure the deterrence parameters.

Setup	Channel	Record	Alarm	AI	Network De	evice S	lystem						<b>(</b> ) 19/03	8/2021 11:39:42	×
Ohannel		Dete	rrence												
Eive										Light					
Image Control			CH1		ø		٥	4	~		30		10		
🔶 Video Cover															
Motion			CH3		٢		٢								
Intelligent															

Channel: channel name.

Setup: Click 😳 icon into the setup page.



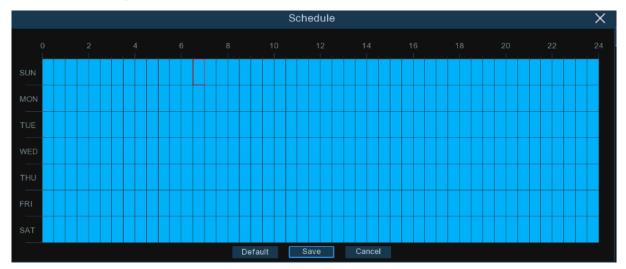
Light Switch: Enable or disable light warning. Siren Switch: Enable or disable siren warning.

#### **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 Devic	ce System			<b>(b)</b> 19/03/2021 10:
Ochannel	PID LCD PD SOD FD CC	Sound Detection Video Tampering Sche	edule Cross Counting Statistics		
© Live			Switch		
Image Control	CH2	0	✓	OFF	~
👳 Video Cover				ON	
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.

PID       LCD       PD       SOD       FD       CC       Sound Detection       Video Tampering       Schedule       Cross Counting Statistics         Channel       Setup       Switch       OFF       OFF       ON													
CH2 (3) CH2	PID LCE	D PD	SOD	FD		Sound Detection	Video Tampering	Schedule	e Cross Counting Statistics				
CH2 (3) CH2 (7) CH2													
CH2 (a) CH2		Ch	nannel				Setup		Switch			Sensitivity	~
		Charmer						0	FF		-		
ON		CH2		٢							~		
										0	N		

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

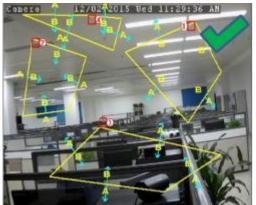
#### Rule Number: Max. 4 rules available.

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**.
- Choose a Rule Type.
   A→B: Camera will only detect the action from side A to side B;
   B→A: Camera will only detect the action from side B to side A;
   A←→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:

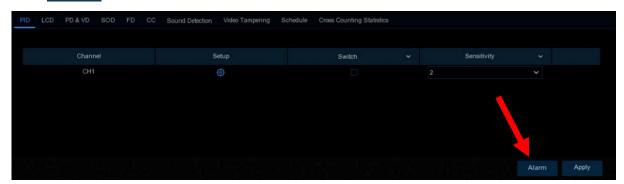
- 1) The perimeter shall not be too close to the edges/corners of the camera picture, since it may fail to trigger the detection when the target pass through the edges/corners.
- 2) The shape of the regions shall not be too narrow/small, since it may fail to trigger the detection when the target passes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





#### 5.1.9.1.1 Alarm Setup

Click Alarm icon to configure alarm settings.



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

PlD Post Recording v Show Message v Send Email v FTP Picture Upload v FTP Video Upload v Picture to C			×
Post Recording V Show Message Send Email FTP Picture Upload FTP Video Upload Picture to C			
	Cloud 🖌 Video to Cloud	Full Screen 🗸 Vo	bice Prompts
s 🗸 🖸 🖸 🔽			٢
	Copy D	Default S	Save

**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.

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	4)
	÷	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	Alarm	Al Netw	ork De	evice System					19/03/202	$\times$
Ochannel		PID L	CD PD		FD CC							
Live     Live												
Image Control				Channel			Setup	Switch	OFF	Sensitivity	~	
Video Cover				CH2				M				
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	CH2	~		
Rule Number		~		
Rule Switch	- <b>-</b>			
Rule Type	A->B	~		
	Remove			
	Remove All			
	Save			B
			1	A

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.

Setup Channel	Record Alarm Al Network Device	System			<b>(b)</b> 19/03/2021 10:32:51	×
© Channel	PID LCD PD SOD FD CC Se					
Live     Live						
Image Control	Channel	Setup	Switch 🗸	OFF		
w image Control	CH1	۲	<u> </u>		~	
👳 Video Cover				ON		
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.

#### **USER MANUAL**

		Inside:	0 Available:	50	
Channel	CH5	~	1 Legency		
Rule Number	1	~			
Rule Switch	0				
Rule Type	Legacy	×			
Dynamic Marking	Enable	*			
	Remove				
	Remove All				-
	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.

#### **USER MANUAL**



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.

୍	Setup Channel	Reco	rd Ala	arm Al	Netwo	rk Devi	ce	System				
Φ	Channel	PID	LCD	PD & VD	SOD	FD CC		ound Detection	Video T	ampering	Schedule	Cross Counting Statistics
•	Live		Ch	annel		Setup		Switch	~			
¢	Image Control			H7		()		Switch	*			
÷	РТΖ											
Φ	Video Cover											
Φ	Motion											
•	PIR											
Φ	Deterrence											
٠							×					

#### 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.

ତ	Setup Channel	Red	ord	Alarm	AI	Netwo	ork	Device	g Sy	stem				
Ф	Channel	PI	D LC	D PC	) & VD	SOD	FD	сс	Sound	d Deteo	ction	Video T	amperin	ig Sched
Φ	Live		cł	annel		Setup		Sv	vitch	~	s	ensitivity	~	
Φ	Image Control			CH7		0					1		~	
Φ	PTZ													
Ф	Video Cover													
Φ	Motion													
Φ	PIR													
Ф	Deterrence													
٠														

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.

#### **USER MANUAL**

			-	
СН7	~			
1	~			
A->B	~			
Remove			<u>B_</u> A	
Remove All				
Save				
Gave				
			<b>—</b>	
	1 A->B Remove	1 V A->B V Remove Remove All	1 V A->B V Remove Remove All	1 V A->B V Remove All A

Channel: Select the channel you want to configure Rule Number: Max. 4 rules available. Rule Switch: Activate or inactivate the rule

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.

 $B \rightarrow A$ : 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.

- 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 Channel	Record Alarm Al N	etwork Device Syste					<b>(b)</b> 19/03/2021 10:33:27	×
© Channel		FD CC Sound Dete	ction Video Tampering					
♦ Live		Switch 🗸		Rise Sensitivity	Sound Intensity		Decline Sensitivity	
Image Control	CH1		Enable 🗸	50	50	Disable 🗸		
♥ Video Cover			Disable 🗸		50	Disable 🗸	50	
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

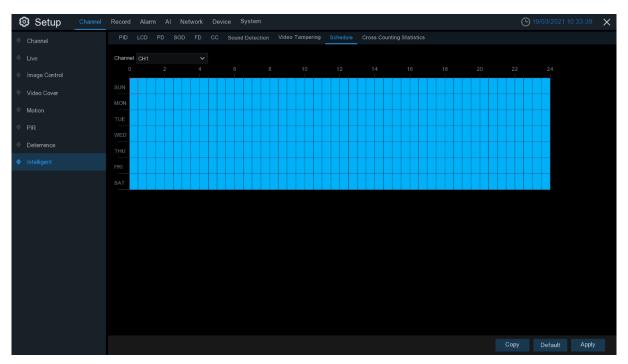
Setup Channel	Record Alarm Al Network	Device System			<b>(b)</b> 19/03/2021 10:33:33	×
Channel		C Sound Detection Video T	ampering Schedu			
Ive						
Image Control	Channel	Switch		Sensitivity		
V Image Control	CH2	<b>X</b>				
Video Cover						
Motion						
IR						
Deterrence						
Intelligent						

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		🕒 19/03/2021 10:33:47 🛛 🗙
Ohannel		Schedule Cross Counting Statistics	
Live     Live	Channel None V Date 19/03/2021 🛗 Report Type Dail	Report 🗸	
Image Control	Cross Type Cross In V	Column Chart	Line Chart Search Export
♦ Video Cover	10 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	Al Network	Device Syste	em							(b) 19	9/03/20	21 10:36:45	×
Encode		Mainstream S	ubstream Mobile												
Record				Resolution			Video Encod	ie Type 🗸		trol 🗸	Bitrate Mode				- 1
O Capture		CH1	Normal	2592 x 1944			H.265		CBR		Predefined	4096		<b>×</b>	
			Normal	2592 x 1944			H.265		CBR		Predefined	4096		<b>N</b>	
		Total David Med	hanna line an											Apple	
		Total Band Widt	h:128Mbps, Used B	and width:10.75M	pps									Apply	

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 Networ	k Device System			(b) 19/03/2021 10:37:13
© Encode	Record Record Schedule				
				PreRecord 🗸	
© Capture	CH1		Mainstream		
			Mainstream		
		M	Mainstream	M	
			Mainstream		
	CH5	<b>M</b>	Mainstream	M	
			Mainstream		
	CH7	<b>X</b>	Mainstream	<b>N</b>	
	CH8		Mainstream		
					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.

Channel (	CH6	~									
			6	8	10	12	14	16	18		
sun 🗖											Normal
MON											Motion
TUE											0
WED											) PIR
тни											
FRI											
SAT											

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.

**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 Net	work Device System			<b>(</b> ) 19/03/	2021 10:37:39 🛛 🗙
Encode	Capture Capture Schedule					
Record	Channel Auto Ca	pture 🗸 Stream Type 🗸				
• Capture	CH1	Mainstream 🗸	5 s 🗸 🗸	5 s 🗸		
	CH2	🖌 Mainstream 🗸	5 s 🗸	5 s 💙		
	СНЗ	🖌 Mainstream				
	CH4	🖌 Mainstream 🗸				
	CH5	🖌 Mainstream				
		🖌 Mainstream 🗸	5 s 🗸 🗸	5 s 🗸 🗸		
		🖌 Mainstream				
	CH8	🖌 Mainstream 🗸				
	Digital channel maximum	n capture resolution is 1080P			Copy Def	ault 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 10:37:53 ×
♦ Encode	Capture Capture Schedule	
Record	Channel CH1 V	
Capture		<ul> <li>Normal</li> </ul>
	SON	Motion
		0 0
		O PIR
		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.

**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 Channe	I Record Al	arm Al Netw	ork D	evice Syst	tem						9	19/03/2021 10:39:14
Motion	Motion											
♦ PIR					Latch Time			Post Recording				FTP Picture Upload 🗸
	CH1	Disable	~	٢	10 s	~	ON	30 s	~	<b>~</b>	<b>~</b>	<b>~</b>
Intelligent	CH2	Disable			10 s		© 🔽	Record Channel			≤	
<ul> <li>PTZ Linkage</li> </ul>								1 2 3 4 5 6	78			

#### 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 ② icon and choose which channel(s) you want to record when an alarm is triggered.

🔽 R	ec	ord	Ch	ann	el		
	1					7	

**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  $\uparrow$  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.

### 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 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 function is enabled and an alarm is triggered in a channel, you will see its full screen images in live view.

Channel	<b>∑</b> L	ocal 📶				
Voice Prompts		Alarm-Siren	Ŷ	00:00:00	23:59:59	
	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.

			nd Detection Video	Tamper	ing						
nel Buzzer					Record ~	Post Recording		Show Message 🗸		FTP Picture Upload 🐱	
Disable			10 s		ON (	30 s					
Disable						30 s		M	<b>×</b>		
Disable			10 s			30 s		M	~		
Disable			10 s			30 s					
Disable	~	۲	10 s	~	ON ON	30 s	~				
	Disable Disable Disable Disable Disable	Disable Disable Disable Disable Disable Disable	Disable v (i) Disable v (i) Disable v (i) Disable v (i) Disable v (i)	Disable     Image: Constraint of the second se	Disable     Image: Constraint of the second se	Disable         v         ©         10s         v         © ON           Disable         v         ©         10s         v         © ON	Disable         Image: Second sec	Disable         ID         ID <t< td=""><td>Disable         Image: Construction of the constructio</td><td>Disable         Image: Constraint of the second second</td><td>Disable         V         IO         IO         V         IO         N         IO         V         IO         V         IO         V         IO         <thio< th="">         IO         <thio< th=""> <thio< th=""></thio<></thio<></thio<></td></t<>	Disable         Image: Construction of the constructio	Disable         Image: Constraint of the second	Disable         V         IO         IO         V         IO         N         IO         V         IO         V         IO         V         IO         IO <thio< th="">         IO         <thio< th=""> <thio< th=""></thio<></thio<></thio<>

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 5.4.4 FTP.

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

**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.

# 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.

	PTZ Linkage						
		Mation 🗸					
	CH1			OFF	OFF	OFF	OFF
Intelligent							
intelligent							
Exception							
Voice Prompts							

Switch: Enable or disable the PTZ linkage function.

Motion: Motion detection 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 Network	Device S	ystem					<b>(</b> ) 19/03/2021 10:41:46	×
Motion	Exception									
PIR	Event Type	Switch 🗸				Latch Time				
I/O	No Space on Disk	<u>~</u>	Disable		٢		×	<b>~</b>		
Intelligent	Disk Error	<b>×</b>	10 s			10 s	<b>_</b>	<b>×</b>		
	Video Loss	>					>	>		
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.

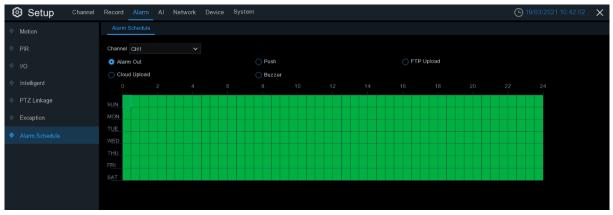
**Buzzer**: Set the buzzer duration when the event occurs (Off/10s/20s/40s/60s). To disable buzzer, select **OFF.** 

**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.

# 5.4 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 Chann	el Record Alarm	Al Network Device	System	
Setup	FD PD & VD	PID LCD CC HM	CD QD Schedule	
Recognition		Channel	Setup	Switch V
Alarm		CH6		
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 c	onfigure the	face dete	ction conditio	ns.	
			640 x 640		-
			64 x 6		
			04 X 0		
Channel	CH6	*			
Snap Mode	Optimal Mode	~			
Apply Mode	Realtime Mode				
	Optimal 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	$\sim$			
Dynamic Marking	Enable	~			
	Save				
	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).

#### **USER MANUAL**

Channel	СН6	×
Snap Mode	Optimal Mode	~
Apply Mode	Realtime Mode	
Min Pixel	Optimal Mode 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.

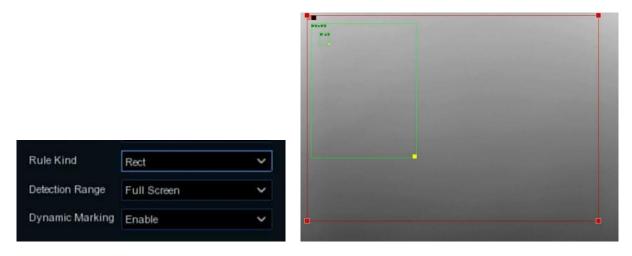
**Face Enhance:** Face enhancement makes it easier to recognize the moving faces, but it may lower the whole picture quality.

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

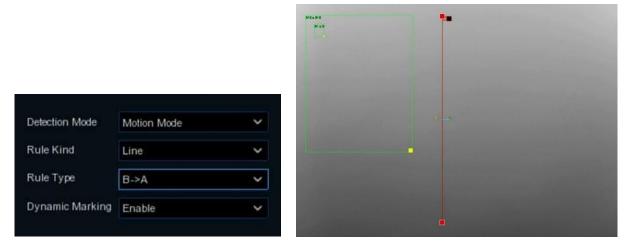
**Detection Mode:** Motion Mode will detect moving faces. Static Mode will detect both moving faces and still faces.

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	HM	CD	QD	Schedule		
Recognition												
Alarm				Cha	nnel					Setup	Switch	
✓ Alaim				Cł	H6						2	

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

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

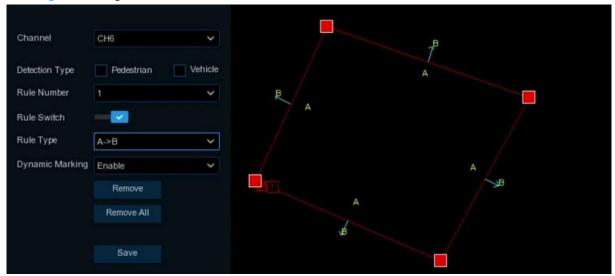
### 5.4.1.3 PID (Perimeter Intrusion Detection)

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	svice	Syster	m			
		FD	PD & VD	PID	LCD	сс	НM	CD	QD	Schedule		
Recognition				Perime	ter Intrus	ion Dete	ection					
			Channel		Setu	P		Switch		Sensitivity	~	
Alarm			CH6		٢					2	~	
A Distance												

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  $A \leftarrow \rightarrow B$ 

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

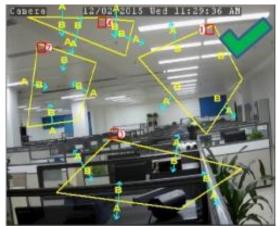
- 1. Choose one of the **Rule Number**. It is the number of LCD lines. Maximum 4 lines you can draw.
- 2. Choose the detection target type.
- 3. To enable the detection in **Rule Switch**.
- 4. Choose a **Rule Type**.

A→B: NVR will only detect the objects move from side A to side B; B→A: NVR will only detect the objects move from side B to side A; A←→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	evice	Syste	em		
		FD	PD & VD	PID	LCD	сс	ΗМ	CD	QD	Schedule	
Recognition					Line Cra	ssing (	Detection				
Alarm			Channel		Setup		Switch	Υ.	Sen	sitivity 🗸	
Alaim			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	l l		
Rule Number	1	~			
Rule Switch					
Rule Type	A->B	~			
Dynamic Marking	Enable	~	A	→ <sup>B</sup>	
	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		
		FD	PD & VD	PID	_	CC HM		) Schedule	
⊕ Recognition						Joss Counting	9		
Alarm			Channel		Setup	Swi	ich 🗸	Sensitivity	~
Alann			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.

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

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

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.

 $B \rightarrow A$ : 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.

- 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	De	svice	Syste	m		
Setup		FD	PD & VD	PID	LCD	СС	HM	CD	QD	Schedule	
Recognition							Heat M	ap			
Alarm			Channel		Setu	ip		S	witch	~	
			CH6		0						

Switch: Check the box to enable LCD function.

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

Channel	CH6	· _		
Rule Number	1	~		
Rule Switch	-			
	Remove			
	Remove All			
	Save	<u> </u>		

- 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.

Ę	🕽 Setup	Channel	Record	Alarm	AI	Network	De	svice	Syste	m	
÷			FD	PD & VD	PID	LCD	CC	ΗМ	CD	QD	Schedule
	Recognition										Detection
	Alarm		C	hannel	Setup	o Sw	vitch	<i>۳</i> .	Sensi	tivity	×
	August			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.

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

			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.

Ę	🕽 Setup	Channel	Record	Alarm	AI	Network	De	vice	Syst	em		
÷			FD	PD & VD	PID	LCD	сс	ΗM	CD	QD	Sche	
	Recognition									Queue	Length	Detection
	Alarm		(	Channel	3	Setup	S	vitch	~	Sensi	tivity	*
	Auth			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.

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

			Inside: 0 Available: 50	
Channel	CH5	~		
Min Pixel	32	(32-1080)		_
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 Schedule

Setup Channel	Record	Alarm	Al	Network		System										C 09/
		PD & VD						Schedule								
Recognition	Channel	CH5			~											
Alarm	0		2	4	6	8	3 I	10	12	14	16	18	20	22	24	
Statistics	SUN															<ul> <li>FD</li> <li>PD &amp; VD</li> </ul>
	MON															O PID & L
	TUE															o cc
	THU															O CD
	FRI															O GD
	SAT															

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 Chan	nel Record Alarm Al Network D	levice System		<b>(</b> ) 09
Setup	Model Configuration Database Mana	gement		
Recognition	✓ Auto select face recognition model			
Alarm				
	Device/Channel	Face Recognition Model	Face Detection Model	Enable Face Recognition
Statistics	Local	V0.0.0.1-release		
	CH5	V0.4.0.0.2-release	V0.4.1.6.1-release	
	CH6	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 Re	ecord Ala	rm Al Network Device Syst	em		
♦ Setup	Model Confi	guration Database Management			
• Recognition	Import Dat	abase Backup Database			
∲ Alarm		Group Name		Edit	Enable 🗸
	1 🔲	Allow List		Ľ	×
		Block List			<b>N</b>
	3	Stranger			<b>&gt;</b>

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

		Gro	oup 1		×
Search Inpu					
				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	X
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	tiii 00:00:00	го 17/03/2021 🛗 :	23:59:59	🕻 1 Day 🗸 🕨	Channels	Search	
			k				Select All
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	17/03/2021 11:00:51
[CH5]	[CH5]	[CH5]	[CH5]	[CH5]	[CH6]	[CH5]	[CH5]
17/03/2021 11:00:51	17/03/2021 11:01:10	17/03/2021 11:01:34	17/03/2021 11:01:39	17/03/2021 11:01:41	17/03/2021 11:01:57	17/03/2021 11:02:00	17/03/2021 11:02:55
[СН6]	[CH5]	[снь]	[Сне]	[CH5]	[CH6]	[CH6]	[СН5]
17/03/2021 11:03:24	17/03/2021 11:03:48	17/03/2021 11:03:52	17/03/2021 11:04:15	17/03/2021 11:05:07	17/03/2021 11:05:22	17/03/2021 11:05:49	17/03/2021 11:06:18
[СНБ]	[СН5]	[СН6]	[СНБ]	[снь]	(СНБ)	[СН5]	[сня]
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  $\triangleleft$  or  $\triangleright$  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.

Im	port	X
1 F76 💟 2 F77 💟 3 F78 💟	Detail Information:	
	Name F78	
	Gender Male	
	Age 0	
	Country	
	Nationality	
	Native Place	
	Phone Number	
	Email	
	ID Code	
	Occupation	
	Residence	
	Remark	
Select All IC C 1 /1 >>I		Import Exit

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

## 5.4.3 Alarm

To configure the alarm action when an AI alert happens.

#### 5.4.3.1 Face Recognition

To configure alarm actions for different face groups when faces detected.

	Fac	e Recoç	nition Attribute Detection Human &										
Recognition				Enable Alarm 🗸									
			Allow List	<b>~</b>	Allow			70	%	۲	۲	0	
	2		Block List	<b>~</b>	Deny		≥	70	%	۲	۲	۲	
Statistics			Stranger	>	Strange				%				
				<b>N</b>	Allow	ř							
			Group 4	×	Allow				%				
			Group 5	<b>N</b>	Deny								
			Group 6	>	Allow				%				
			Group 7	<b>N</b>	Allow								
			Group 8	>	Allow				%				
			Group 9	<b>N</b>	Allow								
			Group 10	>	Allow				%				
			Group 11	<b>N</b>	Allow								
			Group 12	×	Allow				%				
					Allow								
			Group 14	<b>&gt;</b>	Allow				%				
			Group 15	<b>V</b>	Allow								

Enable Alarm: To enable or disable the alarm function.Policy: To set the group to be Allow list or Deny list.Similarity: Set the similarity of comparison.

Alarm Channel: To choose which channel(s) will be applied to the alarm setting. Alarm: Click 😳 to configure the alarm actions.

							Alarm [ Allow List ]				×
Channel	Buzzer		Alarm Out	Latch Time		Save Face 🗸	Save Background 🗸	Show Thumbnail 🗸	Send Email 🗸	FTP Picture Upload 🗸	Picture to Cl
CH1	Disable		۲	10 s		<b>~</b>	<b>~</b>	<b>_</b>	<b>~</b>	<b>~</b>	
CH2	Disable	~		10 s	~	<b>~</b>	<b>_</b>	<b>_</b>	<b>~</b>	<b>—</b>	
CH3	Disable			10 s		<b>~</b>	<b>~</b>	<b>_</b>	<b>~</b>	<b>~</b>	
CH4	Disable	~		10 s		<b>—</b>	<b>_</b>	<b>_</b>	<b>~</b>	<b>—</b>	
CH5	Disable			10 s		<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	✓	
CH6	Disable	~		10 s	~		<b>—</b>	<b>_</b>	<b>~</b>	<b>_</b>	
CH7	Disable			10 s		<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	
CH8	Disable	~		10 s		<b>~</b>	<b>_</b>	<b>_</b>	<b>~</b>	✓	
				k							
									Сору	Default	Save

**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.

**Save Face:** To save the captured face.

Save Background: To save the whole image when an alarm is triggered.

**Show Thumbnail:** To pop-up the thumbnail image in live view screen when an alarm is triggered.

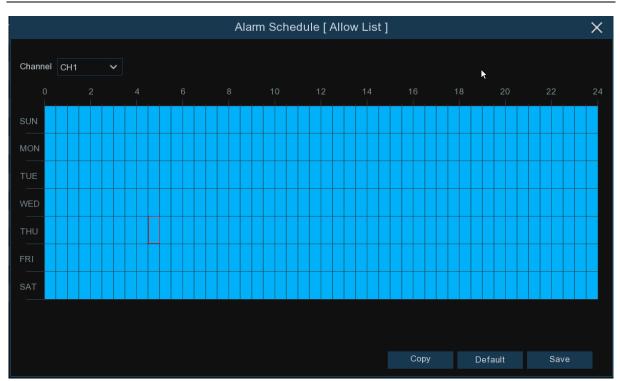
Send Email: You can let the NVR to send you an auto-email when an alarm is triggered.

**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>.

**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>

Alarm Schedule: Click 😳 icon to configure the alarm schedule for each channel.

#### **USER MANUAL**



Channel: Select the channel to set its capture parameters.

To set the schedule, choose one channel then drag the cursor to mark the slots. The blue 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.

### 5.4.3.2 AD (Attribute Detection)

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

Setup Chi	annel Record Ala	arm Al Netw	ork [	Device System								( <u>)</u> 09/	16/2021 10:34:4	16 X
Ø Setup	FR AD													
Recognition		Alarm Type					Latch Time		Record ~	Post Recording		Show Message 🗸		Full S
	CH5	Close	~	Disable	×	٢	10 s	~	ON (	30 s	×	2		
O Statistics	CH6	Close	~	Disable	~	٢	10 s	*	ON	30 s	×	2		

Alarm Type: Select the alarm trigger condition. If the selection is "No Mask", the NVR will send an alarm if it detects a person doesn't wear a face mask. If the selection is "Wear Mask", the NVR will send an alarm if it detects a person wears a face mask.

**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 the 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 the alarm is triggered.

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

**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.

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

To configure alarm actions for PD & VD alarms.

🙆 Setup	Channel	Record Ala	irm <u>Al</u> Netwo	rk D	evice Syst	em						G	16/03/2021 12:09:53	×
⇔ Setup			nition Attribute D		n Human &	Vehicle Detection								
Recognition		Channel			Alarm Out	Latch Time			Post Recording		Show Message 🗸		FTP Picture Upload 🗸	F
Alarm		CH1	Disable	~	٢	10 s	~	ON	30 s	~	⊻	<b>~</b>		

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



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

**Show Message**: Check the box to display "S" icon on the live view screen when 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>.

**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>.

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

#### 5.4.3.4 PID (Perimeter Intrusion Detection)

To configure alarm actions for PID alarms.

Setup Char	nnel Record	Alarm Al Netw	ork De	evice Syste	m						(	09/16/2021 11:12:1	• ×
Setup		D PD & VD PID											
Recognition							Record ~	Post Recording		Show Message 🗸		FTP Picture Upload 🐱	
	CH5	Disable	~	۲	10 s	~	ON (	30 s	×				
O Statistics	CH6	Disable	~	۲	10 s	*	ON ON	30 s	¥			<b>2</b>	

**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 🙆 icon and choose which channel(s) you want to record when an alarm is

triggered.	<b>~</b>	Rec	ord	Ch	ann	el			
		1							

**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 that channel in full screen.

## 5.4.3.5 LCD (Line Crossing Detection)

To configure alarm actions for LCD alarms.



**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 (a) 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 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 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 that channel in full screen.

### 5.4.3.6 CC (Cross Counting)

To configure alarm actions for CC alarms.

🞯 Setup	Record Ala	irm Al Netwo		wice Syste							09/16/2021 12:15:3	4 ×
				CC CD								
Recognition				Alarm Out				Post Recording		Show Message 🗸	FTP Picture Upload 🐱	
	CH5	Disable	~	٢	10 s	×	ON (	30 s	×			
Statistics	CH6	Disable	*	٢	10 s	~	ON	30 s	۲			

**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 that channel in full screen.

### 5.4.3.7 CD (Crowd Density Detection)

To configure alarm actions for CD alarms.

Setup Chann	el Record Ala	rm Al Networ		vice Syster							09/16/2021 12:18:3	5 X
					QD ensity Detection							
Recognition										Show Message 🗸	FTP Picture Upload 🐱	
	CH5	Disable	~	۲	10 s	~	ON (	30 s	~		<b>Z</b>	

**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 😳 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 5.4.4 FTP.

**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 that channel in full screen.

### 5.4.3.8 QD (Queue Length Detection)

To configure alarm actions for QD alarms.



**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 that channel in full screen.

# 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.



- 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.



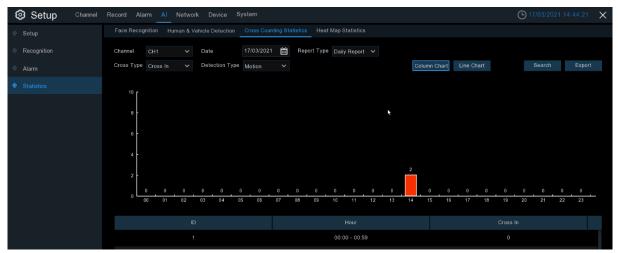
- 1. Choose the detection type in Intelligent.
- 2. Choose the channel(s).
- 3. Select the period from day, week, month, quarter and year.

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)

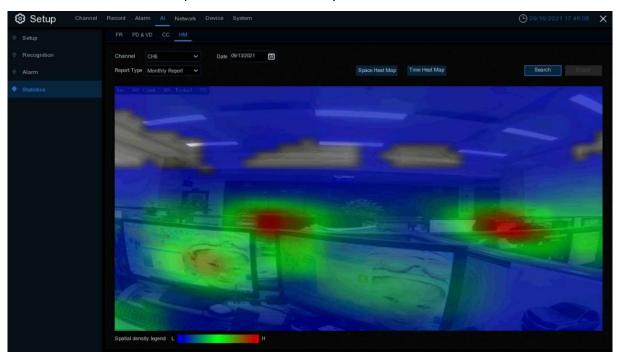
You can check the face recognition statistics in a certain period.



- 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	AI Network Device System	I			<b>()</b> 19/03/2021 10:36:26	×
🕏 General	General PPPoE						
ODNS	WAN			Internal Interface			
Email	DHCP	✓					
♦ 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	fe80::/64					
	DNS1	172.018.001.222					
	DNS2						
	Web Compat	ibility 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	I Network Device System								
🕏 General	General PPoE Port Configuration									
© DDNS	Enable PPPOE									
🔄 Email	User	pppoe								
♦ FTP	Password	•••••	Show Password							
IP FILTER										
V IF FILLER	IP Address	000.000.000.000								
	Subnet Mask									
	Gateway	000.000.000.000								
	DNS1									
	DNS2	008.008.008.008								

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 Channe	l Record Alarm	Al Network	Device Syste	əm							
🗢 General	General PPPo	General PPPoE Port Configuration									
© DDNS		Service	Protocol	Internal Port	External Port	UPNP Status	Maping Strategy	UPNP			
Email		Web	ТСР	00080	00080	Inactive	Auto 🗸	~			
♦ FTP		Client	ТСР	09000		Inactive	Auto 🗸	<b>×</b>			
IP FILTER		RTSP	TCP	00554	00554	Inactive	Auto 🗸	>			
V IP FILTER		Https	TCP	00443		Inactive	Auto 🗸	<b>_</b>			
	Instruction:										
	IP Channel: rts	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	Alarm	Al	Network	Device	System	
🕆 General		DDNS	_					
• DDNS		DDN	s 💽					
Email		Serv	er N	IO_IP			~	
⊕ FTP		Dom	ain c	heng2(	)2010.ddns.r	net		
		User	1	85030	2199@qq.co	m		
IP FILTER		Pass	word	••••	•••••			Show Password
				Test (	DNS			

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 Network Device System	<b>(b)</b> 19/03/2021 10:43:57	×
Interval General	Email Configuration	n Email Schedule		
♦ DDNS	Email			
🕈 Email	Encryption			
♦ FTP	SMTP Port	00025		
IP FILTER				
V IP FILTER	User Name			
	Password			
	Sender			
	Receiver 2			
	Interval			

# 5.5.3.1 Email Configuration

Email Configuration	n Email Schedule	
Email	✓	
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 Channe	I Record Alarm	AI Network Device	System				<b>(</b> ) 19/03
General	Email Configuration	Email Schedule					
DDNS	Channel CH1						
	0 2	4 6	8 10	12 14	16 18	20 22 24	
FTP	SUN						<ul> <li>Motion</li> <li>IO</li> </ul>
IP FILTER	MON						<ul> <li>Exception</li> </ul>
	TUE						O In-Analysis
	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	AI	Netwo	ork D	)evice	System					
		FTP	FTP Sch	iedule									
DDNS			FTP Enable										
👳 Email			Server IP			172.20	).32.2				Test FTP		
			Port			00999							
			User Nam	ıe		admin							
IP FILTER	IP FILTER		Password		••••					Show Passw	vord		
			Picture Resolution Picture Quality		'n	1280 x 720 🗸				~			
					Picture Quality		Picture Quality		Higher				~
			Video Str	eam Ty	рө	Substream				~			
			Max Pack	age Int	erval					~			
			Directory	Name		URME	т				×		
			Upload Al	arm Vid	leo	Mo	otion	PIR Alarm	Settings				
			epieda / i				1/0	Intell	igent				

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 Channe	el Record Alarm Al	Network Device System				() 09/17/2021 15:04:52 X
	IP FILTER					
• DDNS	Senable	Enable Allow List Enable Bloc	·k List			
	-					
	Restricted Type	Allow List 💙				
	Start Address	192.168.2.99	Single	e Add		
	End Address	192.168.2.111				
Voice Assistant		Start Address	End Address	Edit	Delete	
Platform Access		192.168.2.99	152.168.2.99	Edit	Delete	
		192.168.2.99	192.168.2.111			
	Remove IP					
						Default Apply

- 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 System
General	Amazon Google
• DDNS	User The user here need to be the account of AWS.
🕆 Email	Bind UnBind
FTP	
IP FILTER	Screen stream Substream V
VIFFICIEN	
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.

Ama	azon Goog	gle			
	User		voiceassist@		The user here need to be the account of AWS.
	Bind				
	Screen st	ream	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 🔤	annel 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
	CH2	٢		office	<b>~</b>	Y
PTZ	СНЗ	0		car gate	<b>~</b>	М
Video Cover	CH4	0		Camera	<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	((c Network	्र Display & Sounds	Applications
Equipment Control	(A) Live TV	ြို့ Controllers & Bluetooth Devices	O Alexa	 
۲۷ 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	
	rsks888 From your Amazon Account	
Add profile		
	ACCOUNT & PROFILE SETTINGS	
$\bigcirc$	Amazon Account Hello, TuringSue	Deregister your Amazon Account and register a new one.
$\bigcirc$	Sync Amazon Content	
Account & Profile Settings	Prime Video	
Jetungs	Kids Settings	

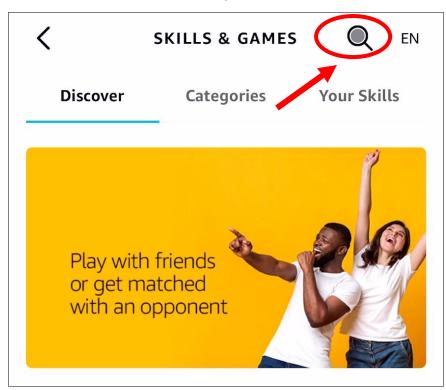
5. Search cand install Amazon Alexa to your mobile phone from app store, and then login with the Amazon account which is same as the one you bind to the NVR.

🔿 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".

	Add a Device     Lists & Notes
Tap to talk to Alexa	Reminders
Make a Call Call friends and family on their Alexa Devices	Alarms & Timers
Add an alarm Set up daily or one-time alarms	C Routines
Start a Shopping List Add shopping items and share the list	See More V
Start a timer Alexa can notify you after a set amount of time	Settings
Popular Skills	Activity
"Alexa, open Help Debug" Knowledge & Trivia	Help & Feedback
Home Communicate Play Devices More	Home Communicate Play Devices

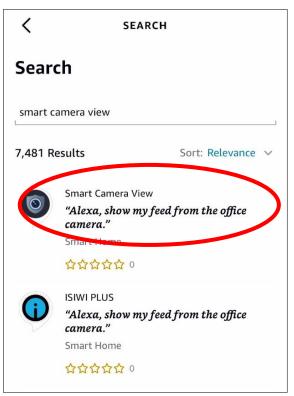
7. Touch the search icon on the right top corner.



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.



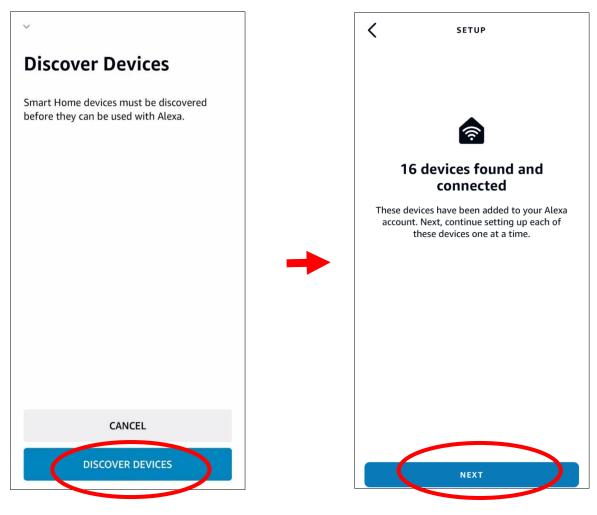
#### Touch "ENABLE TO USE".



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 🗚 💍	Done 🔒 kills-store.amazon.com 🗚 💍
amazon	amazon alexa
Sign-In Forgot password?	
TTHIZETET COM X	
•••••• ×	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	

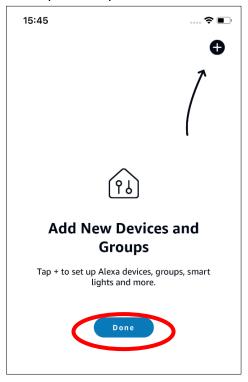
10. Touch "**DISCOVER DEVICES**" and wait a moment for the app to search the cameras. Touch **Next** when the devices were found and connected.



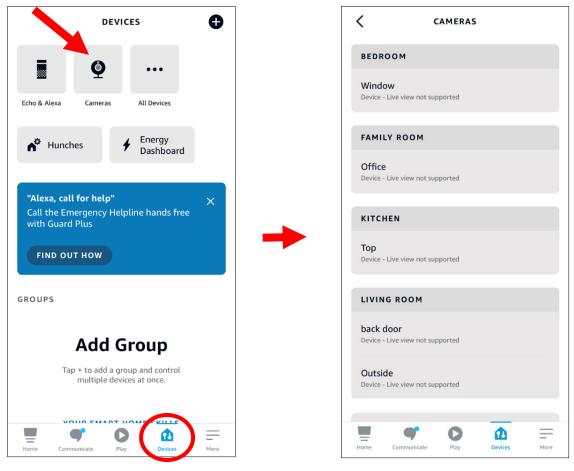
11. Choose one of the devices and then touch **SET UP DVICE**. You can add the camera to a group or skip.

You can delete connected devices any time from the device settings page     NEW CONNECTED DEVICES   ch16   ch13   ch14   ch14   ch8   common groups   Master bedroom   SKIP	SETUP	C SETUP
You can delete connected devices any time from the device settings page     NEW CONNECTED DEVICES   ch16   ch13   ch14   ch14   ch8   ch9   ch11   ch12   ch13   ch14   ch15   ch16   ch17   ch18   ch19   ch10   ch11   ch11     SKIP		Where is your camera?
NEW CONNECTED DEVICES   ch16   ch13   ch14   ch8   ch9   ch11   COMMON GROUPS   Master bedroom   SKIP		
ch16   ch13   ch14   ch8   ch9   ch11   cKIP	NEW CONNECTED DEVICES	YOUR GROUPS
ch13 ch14 ch8 ch9 ch11 ch14 ch8 common GROUPS Master bedroom SKIP		Bedroom
ch14 ch8 ch9 ch11 SKIP	ch13	Family room
ch8 ch9 ch11 SKIP	ch14	Kitchen
ch9 Master bedroom	ch8	Living room
ch11 SKIP		COMMON GROUPS
	ch9	Master bedroom
	ch11	SKIP
ADD TO GROUP	SET UP DEVICE	ADD TO GROUP

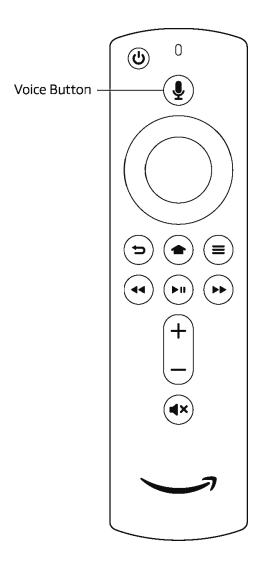
12. Repeat setup 11 to add all cameras and then touch **Done** to finish.



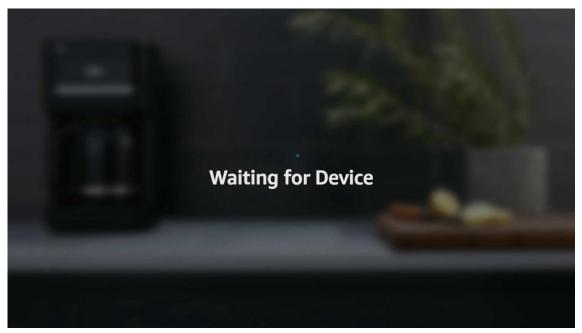
13. All added cameras will be listed in the **Devices**. Touch the **Cameras** icon to check all added cameras.



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.

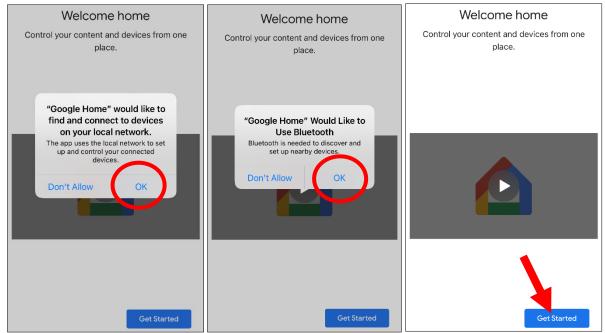
Ę	Setup	Channel	Record	Alarm	AI	Network	Device	System		
Φ	General		Amazo	n Goog	gle					
¢	DDNS			User			@gmail.c	om		The user here need to be the
Φ	Email		[	Bind	k					
¢	FTP									
¢	IP FILTER			Screen sti	ream	Substrea	m		*	
Ø	Voice Assistant									

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.

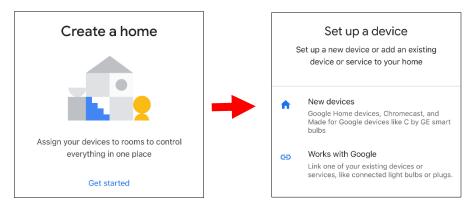
Setup	Channel	Record Alar	m Al Ne	twork Device	e System		
Channel		Live					
Live		Channel	Setup	Covert 🗸	Channel Name	Show Name 🗸	
Image Control		CH1	۲		front door	<b>~</b>	М
		CH2	0		office	<b>×</b>	Ŷ
♥ PTZ		CH3	0		car gate	$\checkmark$	М
Video Cover		CH4	6		Camera		М

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".

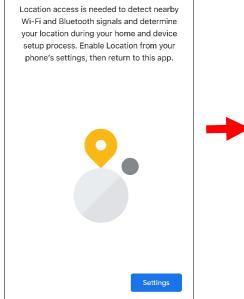


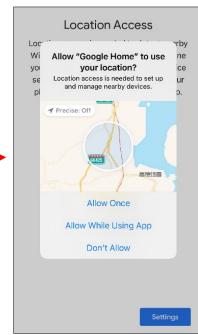
Input the Home nickname and address and then touch "Next".

Home nickname & address   Your home nickname helps you identify your home. The address will be used for things like directions.   Ike directions.     Home nickname   Mike's Home   11/20     Home address     Next     Your home address will be used for things like directions.     Pointed States (US)     Address line 1   Address line 2   City   State   ZIP code     Next		<	Home address	•••
home. The address will be used for things like directions.  United States (US)  Address line 1  Address line 2  Lity  State ZIP code	Home nickname & address			nings
Home nickname Mike's Home 11/20 Home address State  ZIP code ①	home. The address will be used for things	E United S	States (US)	~
Mike's Home     Address line 2       11/20     City       Home address     State • ZIP code ①		Address line	1	
11/20     City       Home address     State     ZIP code	Home nickname			
Home address     City       State     ~ ZIP code	Mike's Home	Address line	2	
Home address	11 / 20			
	Home address	City		
Next Skip Next		State	← ZIP code	(j)
	Next	Skip		Next
		onp		Next

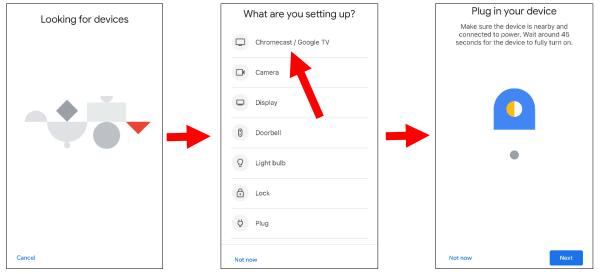
To allow location access for the app.

#### Location Access

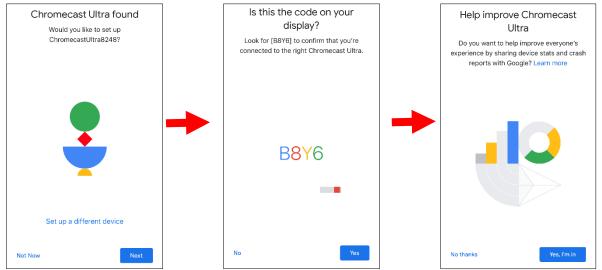




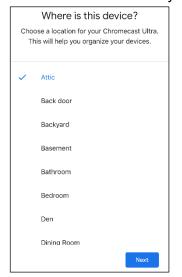
7. The app will automatically try to search devices from your local network. Choose Chromecast / Google TV. Make sure your Chromecast is turned on already, then touch **Next**.



#### 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.



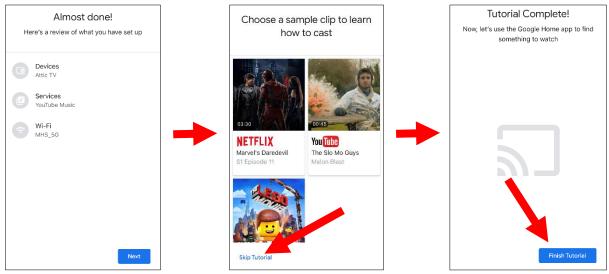
10. Choose the Wi-Fi network for your Chromecast and input the Wi-Fi password to connect. Make sure the Wi-Fi you choose is the same one with your mobile phone and is in the same local network with your NVR. Touch **Continue** to next step.



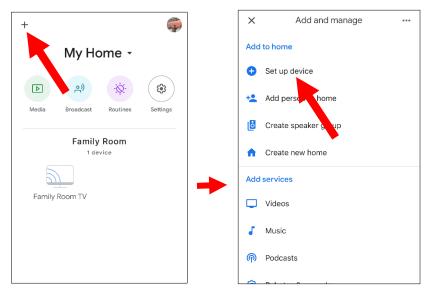
11. Touch No Thanks or Sign Up to login your google account.



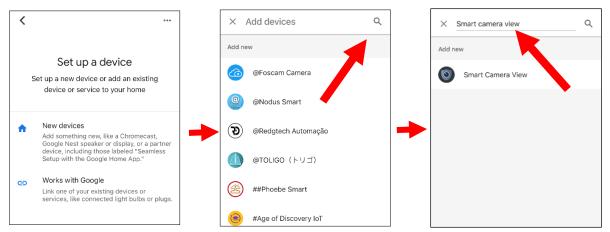
#### Touch Next and Skip and finish the tutorial.



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**.



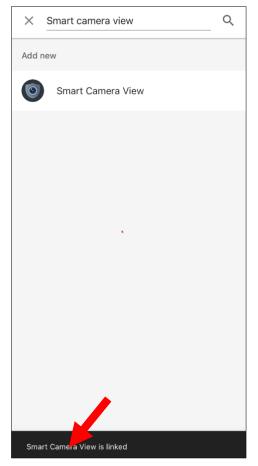
Choose **"Work with Google**", touch the search icon on the right top corner and then input "smart camera view".



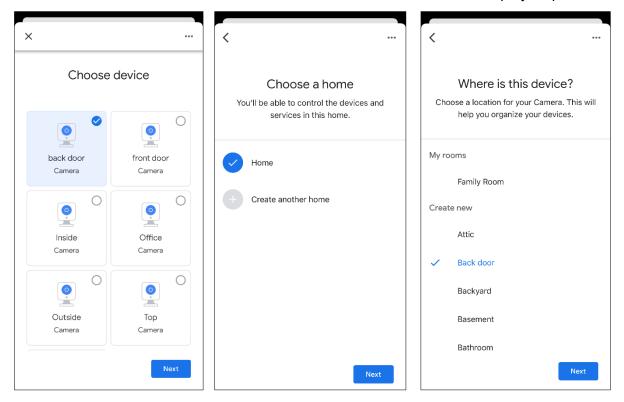
Touch on "**Smart Camera View**" in the search result. You would need to sign in your google account and allow the Google to access to your device.

Done a d2cb8.firebaseapp.com AA C	Done a d2cb8.firebaseapp.com AA C
Ó	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	your devices.
Note:In order to successfully cast.pleteret up your device and chromecast on the same X.	Allow Strange 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.

+									
Home									
Media Broadcast Routines Settings									
Back door 3 devices									
<b>.</b>									
back door Inside									
Window									
Backyard									

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 office camera or	Mike TV
OK, strea	aming Office on Mike T\	/.
G Sear	ch Show back door	Show Ins
ž	49 🦊 📼	Ø

## 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 Net	work Device System		
General	Onvif			
DDNS	Server		k	
🔍 Email	Enable	$\mathbf{\mathbf{v}}$		
FTP	Authentication	Digest/WSSE	~	
IP FILTER	Protocol	нттр	~	
V 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.M.A.	R. I								
	Serial No.	Edit	Model	Firmware	Туре	State	Free/Total	Free/Total Time	
	WD-WCAV93VZ0RHX		WDC WD5000AVDS-73U7B1	01.00A01	RW	FULL	0M/465G	0s/36Hour	
verwrite Au	to 💙	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 was appears in your system, you can click it to edit the HDD as below:

	HDD	>	K
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	n Al Network <u>Device</u> Sys	tem						ⓑ 19/03/2021 10:44:56 X	
🕈 Disk	Disk SMAR.T									
♦ Cloud	HDD ID: Self-check State TEMP(°C): Whole Evaluatio			Self-check Utility Time Check						
	S.M.A.R.T. Inf	io:								
					Value			Raw Value		
	0x1	Raw Read Error Rate	ОК	2f	200	200	51			
		Spin Up Time								
	0x4	Start Stop Count	ок		100	100		604		
	0x5	Reallocated Sector Ct								
	0x7	Seek Error Rate	ОК		200	200				
	0x9	Power On Hours								
	Oxa	Spin Retry Count	OK		100	100				
	0xb	Calibration Retry Count								
	0xc	Power Cycle Count	ОК		100	100		576		
	0xc0	Power-Off Retract Count								
	0xc1	Load Cycle Count	ОК		200	200				
	0xc2	Temperature Celsius								
	0xc4	Reallocated Event Count	ок		200	200				
		Current Pending Sector								
	0xc6	Offline Uncorrectable	ок		100	253				
	0xc7	UDMA CRC Error Count								
	0xc8	Multi Zone Error Rate	ОК		100	253				

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		
🕆 Disk		Cloud							
Cloud		Clo	oud Storag	ge	>				
		Clo	oud Type		DROPBO	x		~	Activate Cloud
		Clo	oud Status	8	Activated				
		Ca	pacity			1	5%		325.31MB/2.00GB
		Clo	oud Overw	vrite	Auto			~	
		Vid	ео Туре		MP4			~	
			Chann	el		Folde	r Name		
			CH1			CH1安联			
			CH2			CH2			

**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	×
ctivation mail has been sent successfully, plea @foxmail.com and activate the cloud th in about 3 minutes	
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
- Cian in with your Analy coopyrit
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 to be activated for this device. Please make sure the PC is on the same network as the device and enter the local IP address of the device below. The IP address can be found in the Network section of the device settings.							
	IP Address	172 16 3 90					
	Port	[13181]					
		Authorize					

9. Input the DVR user name and password and then click OK.

U	ser Authenticati	on	
Usernar	ne		
Passwo	rd		
	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 ∨</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 De	evice System	
🗢 General	General Date and Time Output Co	onfiguration	
Multi-User	Device Name	N7708	
Maintenance	Device ID	000000	
👳 IP Camera Maintain	Language	ENGLISH V	
Information	Video Format	PAL 🗸	
	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 R	Record Alarm Al Network	Device System					
🕈 General	General Date and Time Outp	ut Configuration					
Multi-User	Date and Time						
Maintenance	Date	19/03/2021	Ē				
👳 IP Camera Maintain	Time	10:45:20					
Information	Date Format	DD/MM/YYYY	~				
	Time Format	24Hour	~				
	Time Zone	GMT+08:00	~				
	NTP Settings						
	Enable NTP	<b>&gt;</b>					
	Server Address	pool.ntp.org	~				
		Update Now					
	DST Settings						
	Enable DST	<b>~</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).

General	Date and Time	Output Configuration		
Date	and Time			
Date	e	10/20/2017	ä	
Tim	e	16:08:59		
Date	e Format	MM/DD/YY	~	
Tim	e Format	24Hour	~	
Tim	e Zone	GMT+08:00	~	
NTP	Settings			
Ena	ble NTP	<b>∽</b>		
Sen	ver 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.

Output Configuration General Date and Time Date 10/20/2017 Β Time 16:14:04 Date Format MM/DD/YY v Time Format 24Hour  $\sim$ Time Zone GMT+08:00  $\sim$ NTP Settings Enable NTP < Server Address pool.ntp.org Update Now DST Settings Enable DST < R Time Offset 1Hour Enable DST Week Start Time The 2nd 02:00:00 Mar. Sun.  $\sim$  $\sim$  $\sim$ End Time 02:00:00 Nov. The 1st Sun. ~ ~

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

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

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

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

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

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

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

### 5.7.1.3 Output Configuration

This menu allows you to configure video output parameters.

Setup Channel	Record Alarm Al Network Device System	
🕏 General	General Date and Time Output Configuration	
Multi-User	Video Output LIVE-OUT	~
Maintenance	Seq Mode	<b>~</b>
👳 IP Camera Maintain	SEQ Dwell Time 5	s
Information	VGA/HDMI Resolution 1080P(1920x1080)	<ul> <li>Automatic recognition</li> </ul>
♥ information	Scale And Offset Setup	
	Cursor Hidden Delay 5s	~
	Cursor Acceleration	5
	Transparency	0

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			
🗇 General	Multi-User						
	No.	User Name	Level	User Enable	User Edit	Permission	
Maintenance		admin	ADMIN	Enable			
IP Camera Maintain		user1	USER1	Enable			
		user2	USER2	Disable		0	
Information		user3	USER3	Disable			
		user4	USER4	Disable		۲	
		user5	USER5	Disable			
		user6	USER6	Disable		۲	
	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  $\mathbf{s}$ . 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 Edit		×
Level	USER1		
Level	USERT		
User Enable	Enable Y		
User Name	user1		
Password Strength			
Password	•••••		
Confirm	•••••		
	Default	Save	Cancel
	Authentication		×

	Authentication				
User					
Password			Show Password	I	
		`			
			Authenticate	Cancel	
			Authenticate	Gander	

**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			
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 ac	lmin '	~					

1. Select one of the user accounts that is currently disabled, click the User Edit icon  $\mathbf{s}$ .

	L	Jser 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	ermistion
1	admin	ADMIN	Enable	Enable	E>	
2	user1	USER1	Enable	Enable		۲
3	user2	USER2	Disable	Disable		۲
4	user3	USER3	Disable	Disable	Ð	٢
5	user4	USER4	Disable	Disable		۲
6	user5	USER5	Disable	Disable		٢
7	user6	USER6	Disable	Disable	Ð	0
Default User a	dmin	*				

1. Click the edit icon 🙆 under Permission tab.

		User Permi	ssion		×
User Name	user1				
<mark>∨</mark> Log Search	🔽 Parameter	Solution	Auto Reboot	🗹 Mai	nual Record
🔽 Disk	🔽 Remote Log	in 🔽	SEQ Control	<mark> </mark> Mar	nual Capture
🖌 Audio	🔽 Database M	anagement			
<mark>- B</mark> ackup					
✔ IP Camera 🚹 2 3 -	4 5 6 7 8				
_					
<mark>✓</mark> Live					
VIP Camera 1 2 3	45678				
Playback					
<mark>∨</mark> Playback					
VIP Camera 1 2 3 ·	4 5 6 7 8				
		All	Clear	Save	Cancel

- 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 Al	arm Al Network Devi	ce System			<b>(</b> )	9/03/2021 10:45:52 🛛 🗙
👳 General	Log Loa		eter Management Auto Reboot				
Multi-User	Start Date	19/03/2021	Start Time 00:0	0:00			
Maintenance	End Date	19/03/2021	End Time 23:5	9:59			
IP Camera Maintain	Log Type	All			Search		
Information			TIME			Playback	
· momation		System	19/03/2021 00:08:10	NTP			
		Alarm	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			
t	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	Yes		
		Alarm	19/03/2021 07:35:57	Motion Start			
	CH2	Alarm	19/03/2021 07:35:57	VT Start	Yes		
		Alarm	19/03/2021 07:36:20	Motion Start	Yes		
						1251	
							Backup

### 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 L	.oad Default U	lpgrade Para	meter Management Au	to Reboot				
Start Date	19/03/2021		Ë	Start Time	00:00:00			
End Date	19/03/2021		i	End Time	23:59:59			
Log Type	All					Search		
Channel		Туре	TIME		CON.	RECORD	Playback	
	S	ystem	19/03/2021 00	0:08:10	NTP			
CH2	Ļ	Narm	19/03/2021 00	:23:01	Motion Start	Yes		
CH2	ŀ	Narm	19/03/2021 00	:23:01	VT Start	Yes		
CH2	ŀ	Narm	19/03/2021 00	:23:28	Motion End	Yes		
CH2	ŀ	Narm	19/03/2021 00	:23:28	VT End	Yes		
CH2	Ļ	Narm	19/03/2021 00	:23:41	Motion Start	Yes		
CH2	Ļ	Alarm	19/03/2021 00	:24:08	Motion End	Yes		
CH1	Ļ	Narm	19/03/2021 00	:28:24	Motion Start	Yes		
CH1	Ļ	Narm	19/03/2021 00	:28:51	Motion End	Yes		
CH2	Ļ	Narm	19/03/2021 01	:26:01	Motion Start	Yes		
CH2	Ļ	Narm	19/03/2021 01	:26:28	Motion End	Yes		
CH2	F	Narm	19/03/2021 07	':35:57	Motion Start	Yes		
CH2	Ļ	Narm	19/03/2021 07	:35:57	VT Start	Yes		
CH1	F	Narm	19/03/2021 07	:36:20	Motion Start	Yes		
<u>∩⊔</u> 2			10/03/2021 07	-36-34	Motion End		623	
								I< < 1 /20 > >I
								Backup

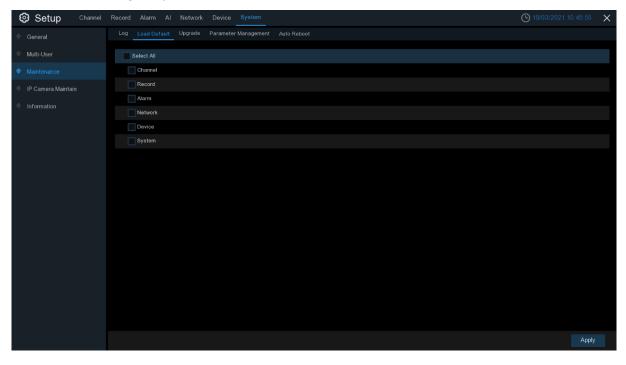
#### Log Searching and Backing Up:

- 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.
- 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 < / > > 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

Setup Channel	Record Alarm Al Network	Device System			19/03/2021 10:46:12
General	Log Load Default Upgrade				
Multi-User	Select File			<b>∢</b> ► Upgrade	
	Select File	Update		X	
IP Camera Maintain		Opulato			
Information	Driver List: 📿				
Information	🕎 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 CH04-20210318-163337-163413-003000000	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	
		J face-attendance-20210317-20210317-192643	204.000B	17/03/2021 11:26:42	
		J face_statistics_20210316_000000_20210316_	3.063KB		
		faces-2020_01_07-10_18_50.db	6.566MB	07/01/2020 10:18:54	
		<b>≡</b> faces-2021_03_17-14_41_37.db	160.000KB		
	Remain:/Tetal:	Location: usb1-1			
	Remain:/Total: 13.805GB/14.431GB	Selected File:		< ►	
		Refresh finished !		OK Cancel	

- 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.

🞯 Setup	Channel	Record	Alarm /	Al Network	Device	System	
General		Log	Load Defau	lt Upgrade	Parameter	Management	Auto Reboot
Multi-User			Save	e Settings	Lo	ad Settings	
Maintenance							
IP Camera Mainta	in						
Information							
*							

**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 S	System
🕆 General	Log Load Defa	ult Upgrade Parameter Ma	anagementAuto Reboot
♦ Multi-User	Auto Reboot	<b>V</b>	
Maintenance	Time	Every Week	~
IP Camera Maintain		Sun.	~
Information		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.

Setup Channel	Record Alarm Al Network Device System
General	Log Load Default Upgrade Parameter Management Auto Reboot Developer Mode
Multi-User	Telnet
Maintenance	Collect logs
🔮 IP Camera Maintain	
Information	Export Log Delete 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.

6	Setup Channel	Record Alarm Al	Record Alarm Al Network Device System								
¢	General	Upgrade Load Defa	ult Reboot IPC Para	ameter Management							
¢	Multi-User		Channel	IP Address	State	Software Version	Upgrade				
¢	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										

### 5.7.4.1 Upgrade IP Camera

Setup Channel	Record Alarm Al	Network Device System	ı				
♥ General	Upgrade Load Defa	ault Reboot IPC Parameter M	lanagement				
Multi-User							
Multi-Osei			IP Address	State	Software Version	Upgrade	
Maintenance			72.20.31.73	On-line	V21.45.7.0_210305		
		CH2 1	72.20.31.24	On-line	V12.45.7.0_201028		
Information							
mormation							
Setup Channel Re	cord Alarm Al Netwo	rk Device System				<b>(</b> ) 19/03/202	21 10-46-41
						Grandalzoz	
General	Opgrade Load Default Re	boot IPC Parameter Management					
Multi-User		Select an	upgrade file for l	PC	×		
Maintenance	Driver List: C				≣ ×   ← 🛼 🗰		
	🖳 USB1-1	Name			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 Information			07/01/2021 16:48:16		
		fbgrab			19/03/2021 02:46:38		
		E CH01-20210318-000416-0004	57-0010000000	19.851MB	18/03/2021 11:11:02		
		E CH04-20210318-163337-1634	13-0030000000	27.359MB	18/03/2021 08:34:52		
		cross_in_daily_report_ch1_202		643.000B			
		face-attendance-20210317-20	210317-192643	204.000B	17/03/2021 11:26:42		
	9/	face_statistics_20210316_000	000_20210316_	3.063KB		rade	
	- St	faces-2020_01_07-10_18_50.c	lb	6.566MB	07/01/2020 10:18:54		
		faces-2021_03_17-14_41_37.0	İb	160.000KB			
		Location: usb1-1					
	Demains(Teta)				< ▶		
	Remain:/Total: 13.759GB/14.431GB	Selected File:					

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	ilt Reboot IPC Para	meter Management			
♦ Multi-User		Channel	IP Address	State	Software Version	
Maintenance		CH1	172.20.31.73	On-line	V21.45.7.0_210305	
		CH2	172.20.31.24	On-line	V12.45.7.0_201028	
• Information						
	Load Default					

### 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>()</b> 19/03/2021 10:46:5	7 X
🔶 General		lt Reboot IPC Par	ameter Management				
♦ Multi-User					Software Version		
© Maintenance	<b>N</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							
* information							
	Reboot IPC						

To reboot the IP camera you select.

Setup Channel	Record Alarm Al	Network Device	System		
General	Upgrade Load Defaul	t Reboot IPC Par	rameter Management		
Multi-User		Channel	IP Address	State	Software Version
Maintenance	<b>∽</b>	CH1	172.20.31.73	On-line	V21.45.7.0_210305
		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.

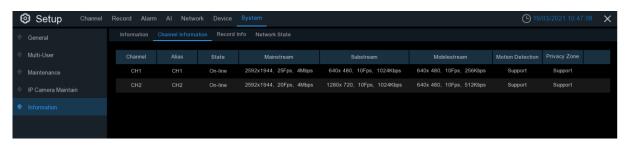
### 5.7.5.1 Information

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

Setup Channel	Record Alarm Al Network I	Device System
🗇 General	Information Channel Information	Record Info Network State
Multi-User	Device ID	000000
Maintenance	Device Name	N7708
👳 IP Camera Maintain	Device Type	N7708
• Information	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	

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 Alam	n Al Netwo	ork Device	System					<b>()</b> 19/03/2021 10:47:12	×
♦ General	General     Information Channel Information Record Info     Network State									
Multi-User				Stream Type		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	Device System	<b>(</b> ) 19/03/2021 10:47	7:15
Ø General		Record Info Network State		
Distribution Multi-User				
Maintenance	WAN			
maintenance	IP Address			
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			
	DNS2	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.

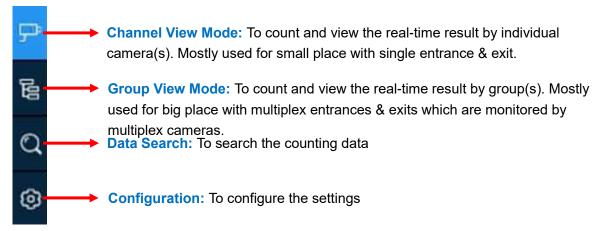


## 5.8.1 Cross Counting

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.



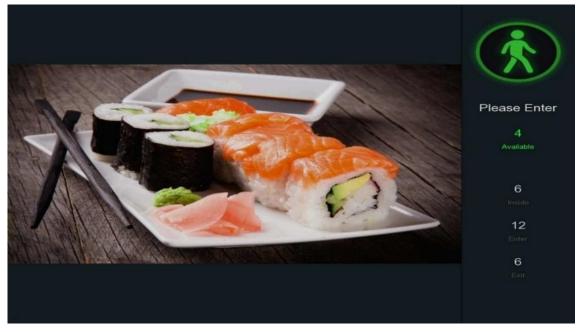
If the available number is 0, the carton figure will be in red color.

### 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.

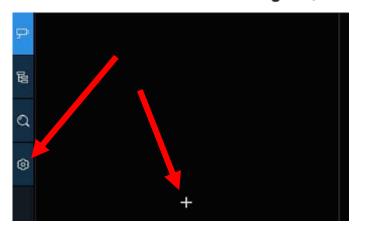
Channel	Туре	12:00	13:00	14:00	15:00	16:00	17:00
	Enter	6	11	12	1	0	0
CH2	Exit	9	11	12	1	0	0
	Inside	0	0	0	0	0	o
	Enter						*
снз	Exit						
	Inside						
	Enter	47	27	36	8	0	13
CH5	Exit	26	13	16	з	o	9
	Inside	100	114	134	139	139	143
	Enter	O.	0	0	0	0	0
CH6	Exit	o	0	0	o	o	0
	Inside	o	0	0	0	o	0

#### 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.

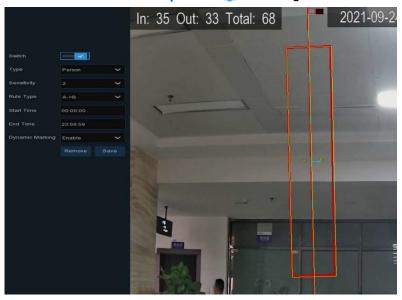


2. To enable the channel(s) you want to realize the counting function in the **Channel** list. The Setup & Alarm icon 🙆 will be in blue color if the camera in that channel supports Al function; on the contrary if the camera doesn't support Al function, the icon 🚱 will be in grey color.

P	Image Configration	on									
暍	Advertise Mode Keep Aspect Ratio										
Q	SEQ Dwell Time 3 Image										
۲	Channel										
	Channel	Enab			Capacity	Setup			Alarm		
					10	۲			۲		
	CH2		2		10	۲			۲		
	СНЗ		1. S		10	0			۲		
					10						
			2		10						
		-			10						
					10				۲		
					10						
	Group										
	Group Ad	d IP Camera	Enable		Capacity	Start Time			туре		
	Group 1	ç.			10	00:00:00	23:59:59	9	Persc 🗸		

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 (3) to configure the alarm actions when the Available number is 0.

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.

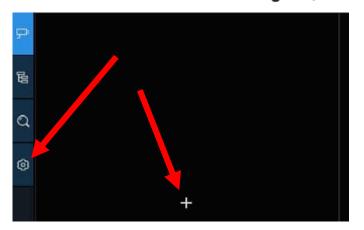
Latch Time: To configure the external alarm time when the Available number is 0.

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 0 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.

iroup							
Group	Add IP Camerz	Enable 🗸	Capacity	Start Time	End Time	Туре 🗸	Alarm
Group 1	💬 루		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 🗸	۲
Group 4	<b>P</b>		10	00:00:00	23:59:59	Persc 🗸	
Group 5	<b>P</b>		10	00:00:00	23:59:59	Persc 🗸	۲
Group 6	<b>P</b>		10	00:00:00	23:59:59	Persc 🗸	
Group 7	<b>P</b>		10	00:00:00	23:59:59	Persc 🗸	۲
Group 8	<b>P</b>		10	00:00:00	23:59:59	Persc 🗸	0

- 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	~					

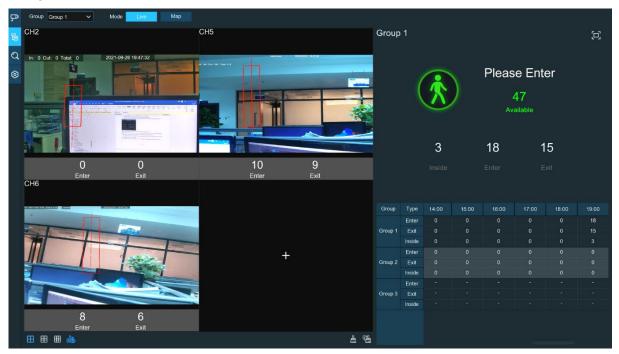
Buzzer: Set the buzzer duration in seconds when the Available number is 0.

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.

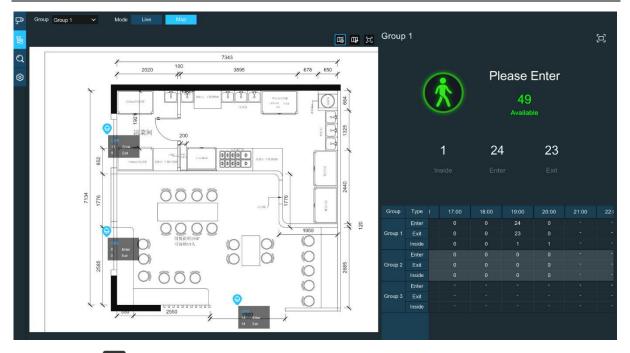


9. You can choose which group you want to view the real-time live images and counting data.



10. Furthermore, it supports to display the counting data in Map mode. Click the Map button to configure the settings.

### **USER MANUAL**



- 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 Configra	ation	
B	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

 $finite{matrix}$  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	ration	
001	Advertise Mode	Keep Aspect Ratio	
Q	SEQ Dwell Time 3	Image	
٢	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

 $\gtrsim$  The number of people who have checked attendance already

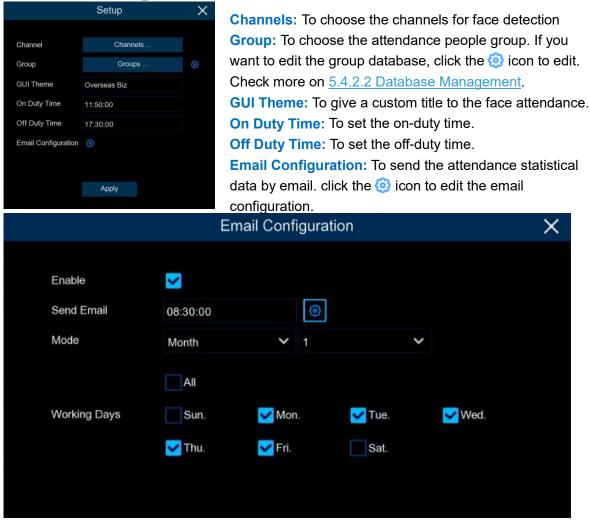
 $\mathbb{A}$  The number of people who haven't checked attendance.

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> Attendance.

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.

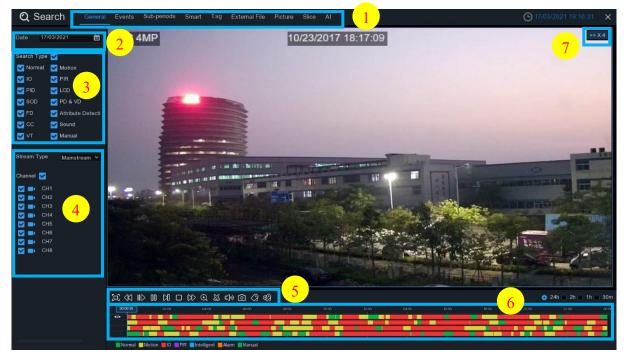
	E	mail Configuration				×
Email						
Encryption			~			
SMTP Port	00025					
SMTP Server						
User Name						
Password				Sh	ow Password	
Sender						
Receiver 1						
Receiver 2						
Receiver 3						
Interval	3 Min		~			
			De	fault	Apply	

# **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
- 00 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 (  $\circ$  24h  $\circ$  2h  $\circ$  1h  $\circ$  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  $\circ$  24h  $\circ$  2h  $\circ$  1h  $\circ$  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

⊡ <\ ⊪⊳	୬୧.≞.ୌ%©			
00:00	00:11:33 00:15		00:30	• 00.35
<b>2</b>				
<b>2</b>				
<b>V</b>				
O 🛛				- AT
i			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.

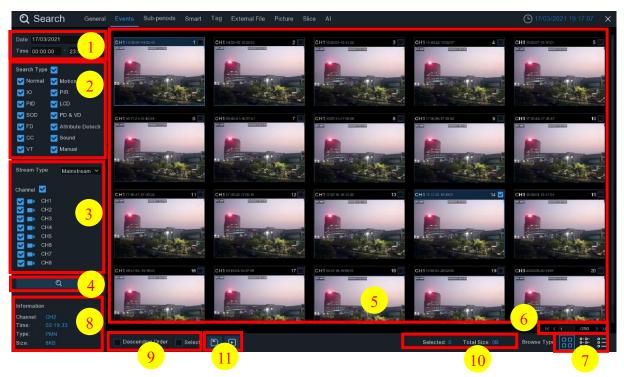
	Backı	×							
• RF	O AVI	● MP4							
Channel:	CH1,								
Size:	20.449MB	20.449MB							
Start Time:	: 00:04:16								
End Time:	00:04:57								
	Save	Cancel							

- 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: 🛛 🕄			
🖞 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		18/03/2021 11:10:51
	E CH04-20210318-163337-163413-003000000	27.359MB	18/03/2021 08:34:52
	cross_in_daily_report_ch1_20210316.csv	643.000B	16/03/2021 11:18:08
	■ face-attendance-20210317-20210317-192643	204.000B	17/03/2021 11:26:42
	face_statistics_20210316_000000_20210316_	3.063KB	16/03/2021 11:17:36
	<b>≡</b> faces-2020_01_07-10_18_50.db	6.566MB	07/01/2020 10:18:54
	<b>≡</b> faces-2021_03_17-14_41_37.db	160.000KB	17/03/2021 06:41:36
	heatmap_daily_report_ch1_20210316.csv	572.000B	16/03/2021 11:17:00
Remain:/Total:	Location: usb1-1		
14.104GB/14.431GE	Selected Directory: usb1-1		< ►
Format	1/175%		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 Q 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  $|| \langle \langle 1 \rangle \rangle \rangle$  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 General	I Events Sub-perio	ds Smart Tag	External File Picture	Slice Al			<b>(b)</b> 18/03	2021 19:09:44 🛛 🗙
Date 18/03/2021	<b>1 CH1</b> 00:00:01 <b>9 CH1</b> 01:03:10	2 CH1 00:03:51	3 CH1 00:12:20	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	18 CH1 02:19:26	19 CH1 02:27:55	20 CH1 02:36:23	21 CH1 02:44:51	22 CH1 02:53:20	23 CH1 03:01:48	24 CH1 03:10:17
Search Type 🔽	25 CH1 03:18:45 33 CH1 04:26:32	26 CH1 03:27:13 34 CH1 04:35:01	27 CH1 03:35:42 35 CH1 04:43:29	28 CH1 03:44:10 36 CH1 04:51:57	29 CH1 03:52:39 37 CH1 05:00:26	30 CH1 04:01:07 38 CH1 05:08:54	31 CH1 04:09:35 39 CH1 05:17:23	32 CH1 04:18:04
🗹 Normal 🛛 🔽 Motion	41 CH1 05:34:19	42 CH1 05:42:48	43 CH1 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
🗸 10 🗸 PIR	49 CH1 06:42:07	50 CH1 06:50:35	51 CH1 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 07:49:40	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 ✓ PD & VD	65 CH1 08:10:43	66 CH1 08:11:43	67 CH1 08:14:23	68 CH1 08:16:03	69 CH1 08:16:41	<b>70 CH1</b> 08:17:17	71 CH1 08:17:57	72 CH1 08:20:48
	73 CH1 08:21:18	74 CH1 08:22:08	<b>75 CH1</b> 08:24:58	76 CH1 08:25:30	<b>77 CH1</b> 08:26:30	78 CH1 08:27:06	79 CH1 08:28:20	80 CH1 08:30:02
V FD V Attribute Detecti	81 CH1 08:38:31	82 CH1 08:46:59	83 CH1 08:55:27	64 CH1 09:03:56	85 CH1 09:12:24	86 CH1 09:12:58	67 CH1 09:16:38	88 CH1 09:18:44
🔽 CC 🛛 🔽 Sound	89 CH1 09:19:37	90 CH1 09:20:25	91 CH1 09:23:47	92 CH1 09:24:19	93 CH1 09:25:57	94 CH1 09:28:35	95 CH1 09:29:49	96 CH1 09:31:23
🗹 VT 🛛 🗹 Manual	97 CH1 09:32:03	98 CH1 09:32:47	99 CH1 09:34:49	<b>100 CH1</b> 09:36:31	101 CH1 09:40:22	102 CH1 09:44:32	103 CH1 09:44:46	104 CH1 09:46:06
	105 CH1 09:49:42	106 CH1 09:52:34	107 CH1 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
Stream Type Mainstream Y	113 CH1 10:38:18	114 CH1 10:39:44	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
	121 CH1 10:52:57	122 CH1 10:53:15	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	130 CH1 11:06:26	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
🔽 📑 ( CH1	137 CH1 11:19:54	138 CH1 11:25:23	139 CH1 11:27:45	140 CH1 11:28:15	141 CH1 11:30:13	142 CH1 11:31:15	143 CH1 11:31:45	144 CH1 11:33:19
✓ ■( CH2	145 CH1 11:38:41	146 CH1 11:39:55	147 CH1 11:40:33	148 CH1 11:41:28	<b>149 CH1</b> 11:44:10	150 CH1 11:44:54	151 CH1 11:47:14	152 CH1 11:47:44
СН3	153 CH1 11:49:30	154 CH1 11:57:26	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 12:12:14	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 12:18:22 178 CH1 12:23:32	171 CH1 12:19:18	172 CH1 12:20:32	173 CH1 12:21:02	174 CH1 12:21:30 182 CH1 12:37:02	175 CH1 12:21:52 183 CH1 12:37:36	176 CH1 12:22:22
🗹 🔜 СН6	185 CH1 12:47:52	178 CH1 12:23:32	179 CH1 12:24:02	180 CH1 12:29:22	189 CH1 12:50:18	190 CH1 12:51:21	191 CH1 12:52:07	192 CH1 12:53:45
✓ ■( CH7	193 CH1 12:54:19	194 CH1 12:55:07	195 CH1 12:56:45	186 CH1 12:49:46	189 CH1 12:30:18	198 CH1 13:01:39	199 CH1 12:52:07	200 CH1 13:05:15
CH8	201 CH1 13:06:11	202 CH1 13:06:45	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	200 CH1 13:05:15
	209 CH1 13:11:31	210 CH1 13:15:28	203 CH1 13:07:13	212 CH1 13:17:16	203 CH1 13:17:22	214 CH1 13:19:18	207 CH1 13:00:07	216 CH1 13:22:10
ପ	217 CH1 13:22:50	218 CH1 13:23:30	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
	225 CH1 13:41:33	226 CH1 13:42:35	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
Information	233 CH1 13:57:49	234 CH1 14:05:42	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
Channel: CH1								
Time: 00:00:01-00:03:51								
Type: N Size: 115MD	Descending Order		a					
Size: 115MB	Descending Order	Select 🖹 (				Selected: 0 Total Siz	te:0B Browse Typ	e:

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

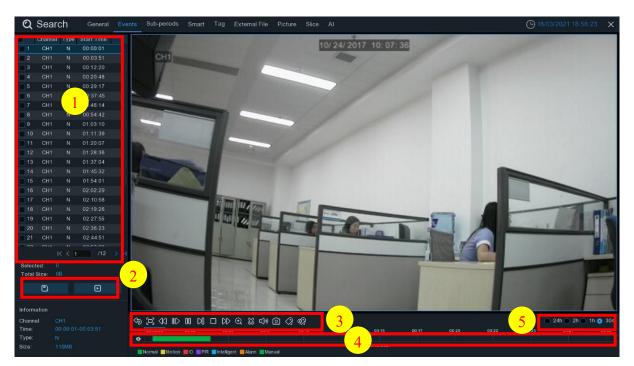
1	CH1	N	18/03/2021	00:00:01	00:03:51	115MB	Þ	6
2	CH1		18/03/2021	00:03:51	00:12:20	254MB	Þ	6
3	CH1		18/03/2021	00:12:20	00:20:48	254MB	Þ	6
4	CH1		18/03/2021	00:20:48	00:29:17	254MB	Þ	6
5	CH1		18/03/2021	00:29:17	00:37:45	254MB	Þ	6
6	CH1		18/03/2021	00:37:45	00:46:14	254MB	Þ	6
7	CH1		18/03/2021	00:46:14	00:54:42	254MB	Þ	6
8	CH1		18/03/2021	00:54:42	01:03:10	254MB	Þ	6
9	CH1		18/03/2021	01:03:10	01:11:39	254MB	Þ	6
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	6
12	CH1		18/03/2021	01:28:36	01:37:04	254MB	Þ	6
13	CH1	Ν	18/03/2021	01:37:04	01:45:32	254MB	Þ	6
14	CH1		18/03/2021	01:45:32	01:54:01	254MB	Þ	6
15	CH1		18/03/2021	01:54:01	02:02:29	254MB	Þ	6
16	CH1		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.

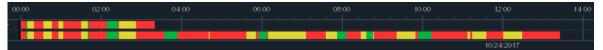
# 6.4 Sub-periods Playback

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.



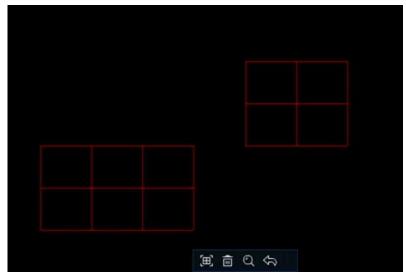
The selected aera will be marked with red grids.

: 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

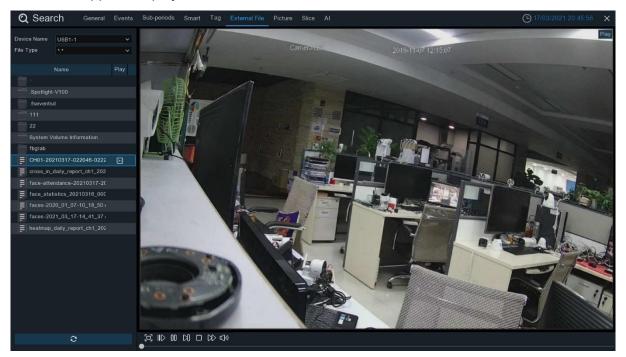
You can search, play and manage the contents with tags you added in live view and/or playback.

		Tag Name	Channel	Date	Time	Playback
Start Time	1	Tag	CH4	09/18/2021	00:30:27	o
09/18/2021 箇 00:00:00	2	Tag	CH4	09/18/2021	00:30:34	0
End Time		Tag	CH4	09/18/2021	00:30:34	0
09/18/2021 🛗 23:59:59		Tag	CH4	09/18/2021	00:30:35	
Keyword		Tag	CH4	09/18/2021	00:30:36	
ncy word		Tag	CH1	09/18/2021	12:25:53	Ō
Channel 🔽		Tag	CH3	09/18/2021	12:25:58	·
		Tag	CH5	09/18/2021	12:26:04	Ð
CH1		Tag	CH6	09/18/2021	12:26:08	·
CH2						_
🗹 💼 СНЗ						
💟 💼 CH4						
🗹 💼 CH5						
🔽 💼 СН6						
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  $\overline{m}$  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  $\bigcirc$  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.

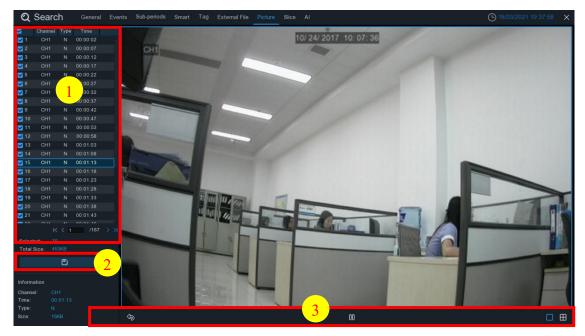
1	CH1 00:00:00	2	CH1 0	0:00:45 3	CH1	00:18:30	4	CH1	00:44:03	5	CH1	01:10:48
9	CH1 02:01:12	10	CH1 0	11 📃 11	CH1	02:43:17	12	CH1	03:02:08	13	CH1	03:08:37
17	CH1 04:07:23	18	CH1 04	4:19:35 📃 19	CH1	04:36:40	20	CH1	05:00:20	21	CH1	05:24:12
25	CH1 06:41:12	26	CH1 0	6:44:25	CH1	07:01:42	28	CH1	07:20:43	29	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	Þ
2	CH1	MIN	10/24/2017	00:12:01	201KB	Ð
3	CH1	MIN	10/24/2017	00:21:20	401KB	·

- 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.

## **6.8.1 Picture Preview Control**



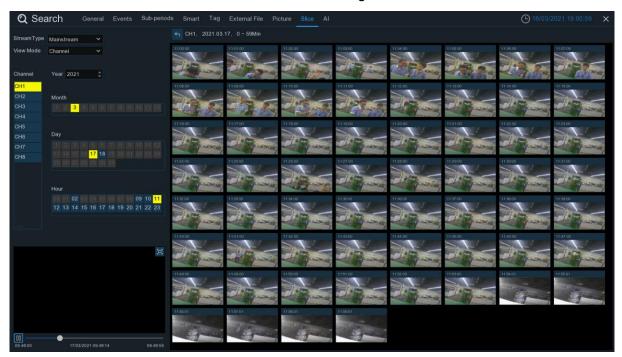
- 1. Picture List: to select pictures here.
- 2. Click 📄 button to save your selected pictures to a USB flash drive.
- Press > button to exit preview control window and go back to picture search window.
   Press || button to pause, press > to resume slideshow.

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.

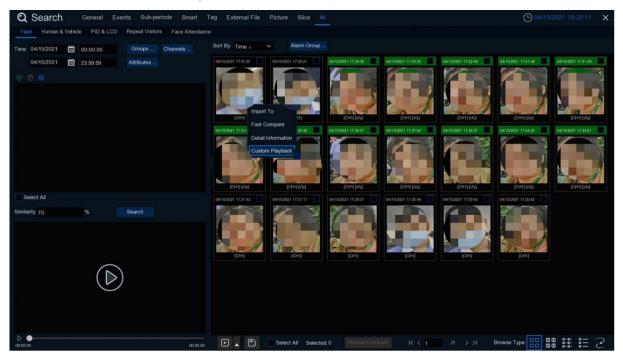


Choose the video stream type, channel, date and hour. The system will display 60 thumbnail images of each minute on the screen. Click on any one of the thumbnail images, the video will be played on the left bottom corner.

## 6.10 Al Search

## 6.10.1 Face

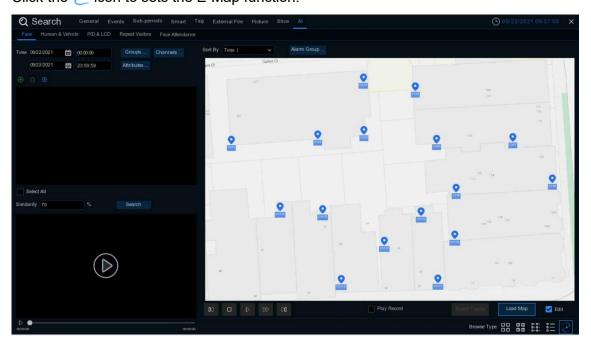
Choose date, time, channel, groups to search all captures faces.



- 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.

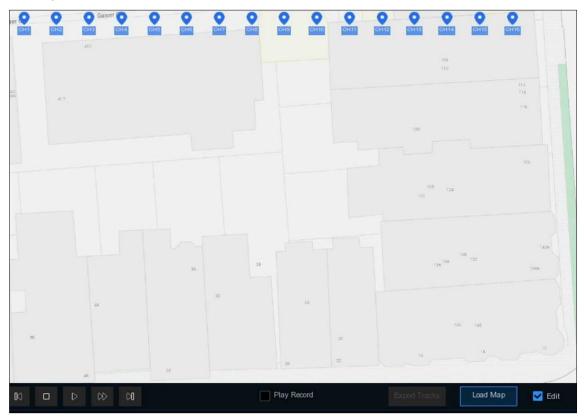
### 6.10.1.1 E-Map

E-Map function helps to track a person's faces. Click the  $\ge$  icon to sets the E-Map function.

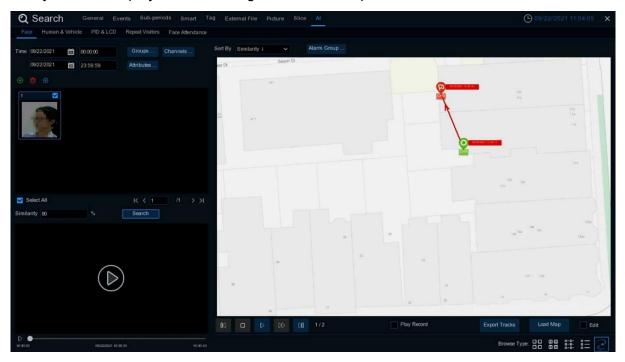


1. Click Load Map button to load a map image from your USB memory.

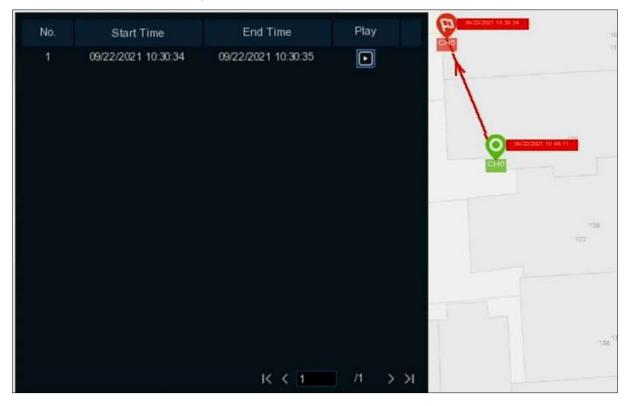
2. Check the **Edit** box. Click and hold the channel icon and move one by one to adjust the site of your IP cameras on the map. Uncheck the **Edit** box to quit the edition.



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.

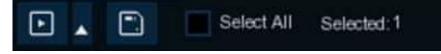
Q Search General Events Sub-periods Smart Face Human & Vehicle PID & LCD Repeat Visitors Face Attend		Picture Slice AI			G	17/03/2021 19:23:22 🗙
Time 17/03/2021 首 00.00.00 17/03/2021 首 23.59:59 Channels			17/09/2021 14:18:55	17/03/2021 14:18/54	17002021 14 18-54	17/03202114-18-00
Human Vehicle Search						
Snapped Information: Channel	Vehicle         PD & LCD         Repail Visitory         Face Attendance           0 0 0 00         0 <td< td=""><td>[CH2]</td></td<>	[CH2]				
	17/092021 14 18 45	Detail In	formation	17/032021 14 18 18	17/03/2021 14 16:01	17/03/2021 14:17:49
		Tour	[CH2]			
	[CH2]		[CH2]	[CH2]	[042]	
D 00 00 00 00 00 00 00 00 00 00 00 00 00		Select All Selected:0		I< < 1 /59 >	>I Bro	owse 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.

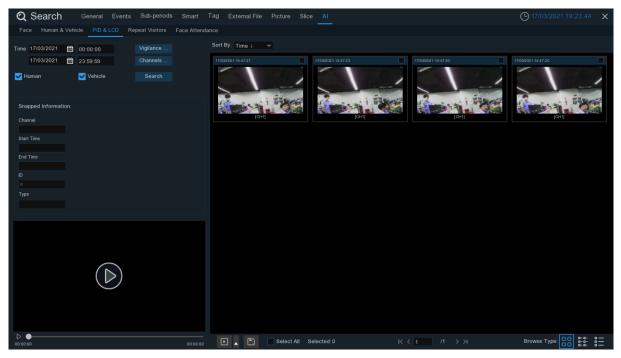


6. Choose one or more files, click the play button ▶, the system will turn to the playback interface to play the selected file(s). Click the ▲ icon to select the time duration you would like to play. Click ♥, to save the selected file(s) to your USB memory.



## 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.

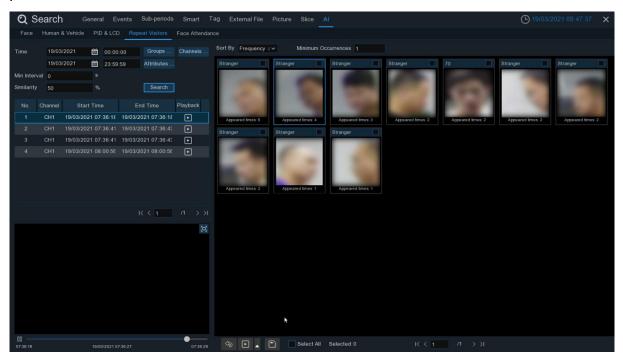


7. Choose one or more files, click the play button ▶, the system will turn to the playback interface to play the selected file(s). Click the ▲ icon to select the time duration you would like to play. Click ▶, to save the selected file(s) to your USB memory.



## 6.10.4 Repeat Visitors

This is a function to fast search the frequency of occurrence of persons in a certain time period.



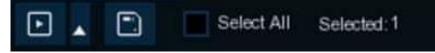
- 1. Select the date & time, group(s) & channel(s).
- 2. Set the Attributes.
- 3. Set the Min. Interval time (second).
- 4. Click Search, the result will be displayed on the right side of the window.
- 5. You can sort the result by **Time** and **Frequency**.
- 6. You can narrow the result by setting 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

check attendance.

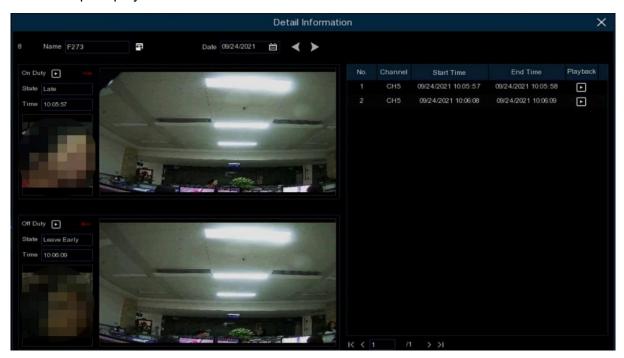
Face Attendance is used to assist in attendance checking by faces. It will help to analyze the absenteeism, coming late and leaving early.

Note: In case of failure, do NOT take the face attendance function as your only measure to

~		External File	Picture Slice	e Al							O 09/24/3		
Face Human & Vehicle PID & LCD Repeat Visitors Face	Attendance												
Channels Select Mode By Group 🗸 🖓		On Duty Ti	me 08.30.00			ff Duty Time	17:30:00						
ate Day Week Month Custom Today		Name		Detail	09/20		09/22			09/25	09/26		Leave Ea
09/20/2021 📋 09/26/2021 🖶				=									
orking Days		F264	Group 1	-	0	0	0	0	0				
Sun. 🔽 Mon. 🔽 Tue, 🔽 Wed.													
Thu. V Fri. Sat.	9	F266	Group 1	=	0	0	-	0	0	~	$\checkmark$	1	1
	10	F268	Group 1		0	0	k	0	0	~	~	1	1
		F266	Group 1	=									
				Ŧ									
		F268	Group 1	-									
			Group 1										
9 F284 30 F285 31 F286 32 F287				-									
<b>1</b>						V Normal	La	te 🛻 U	eave Early	🐂 Late a	nd Leave Early		Absence
Select All IC < 4 /5 > >1					06:30:00					17:30:00			
	9.22												
	9.25												

- 1. Select the channel(s).
- Select Mode by Group or by Person. If you choose By Group, all the persons in the selected group(s) will be searched. If you choose By Person, only your selected person(s) will be searched. Click the filter icon y
   to choose group(s) or person(s). Your selected person(s) will be displayed on the left middle side of the window.
- 3. Select the search date by 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
OS	Windows 10 or above Mac OS X® 10.9 or above	
DirectX	DirectX 11	
Direct3D	Acceleration Function	
Ethernet Adapter	10/100/1000M Ethernet Ac	
Browser	Microsoft Internet Explore	r, 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.

admin  Password  Remember Password  Login
Remember Password
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 💷 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.

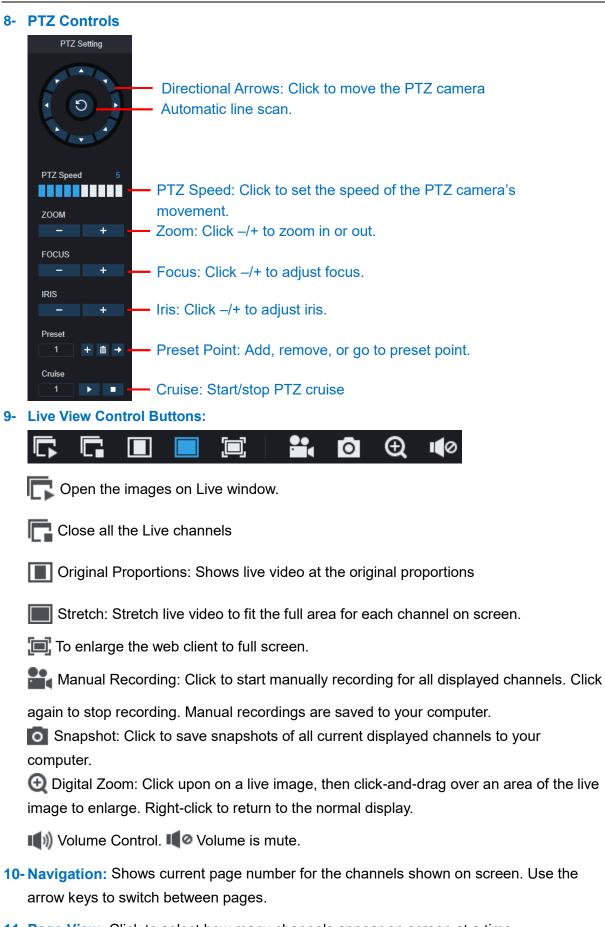
Remote Setting: Access functions of the NVR setting menus.

**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.



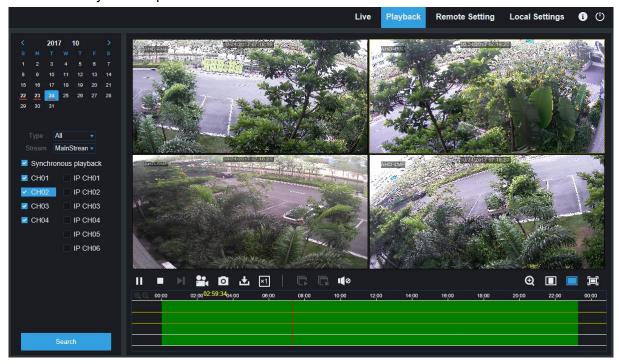
7- PTZ Controls: Click to display or hide the PTZ controls for using PTZ cameras.



11- Page View: Click to select how many channels appear on screen at a time.

### 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>.
- 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 П

### 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>×</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	$\mathbf{\vee}$			Show from 1 to	10, total 95. Per page : 10
			N 💈	5100 1011 10	re, total oo. F of page . To
		Start D	ownload	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.

Playback Speed. Click to choose the playing speed. ×1

**Play All Channels:** Click to play all channels you have chosen to searched. Only

available when the Synchronous playback option is not checked.

The Stop All Channels: Click to stop playing all channels. Only available when the

Synchronous playback option is not checked.

던 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.

Channel Live												
	Channel			State	IP Adderss	Subnet Mask	Port	Manufacturer	Device Typ			
Image Control   PTZ	IP CH1				10.10.25.151	255.255.0.0	9988		IP CAN			
Motion Detection	IP CH2											
Video Cover Intelligent	IP CH3				10.10.25.153	255.255.0.0	9988		IP CAV			
Descel	IP CH4		8									
Record	IP CH5		0									
Encode Record	IP CH6		0									
Capture	IP CH8		0									
	IP CH9											
Alarm	IP CH10											
Motion   I/O   Exception	IP CH11											
Motion   IO   Exception	IP CH12											
Network	IP CH13											
	IP CH14											
General   DDNS   Email	IP CH15											
	IP CH16											
<b>.</b>	Delete	Quir	k Add	R	efresh							
Device												
Disk												
System												
General   Multi-User												
Maintenance												
Information												

## 7.3.4 Local Setting

Set download locations for recordings and snapshots taken using Web Client, and choose file type for video files.

Local Settings			
Record Path	D:\Device\Record	Ľ	
Download Path	D:\Device\Download		
Snapshot Path	D:\Device\Capture	Ľ	
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 🝵 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\_xxx\_xx\_x.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	ţ	ę,	Ready														0	Ж	*		12
									V	id [		<b>O</b> ppen			ay •	rer							
					00:00:00 —	 _	_	_			_	_	_	_	_	_	_		_	-	0	0:00	):00
					≡ ≜													<b>I</b> ¶⊗⊧				- 8	

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 **I** button to load a folder with backed-up videos.

#### **Video Player Control** 6 VideoPlayer Play List + 司 1 **0** X X **3** 5 IPC 4MP 10/25/2017 11:20:12 IP CH1211605.264 00:00:00 155.4KB IP CH1225518.264 00:00:06 908.5KB IP CH220380 1 00:00:04 2.34MB IP CH2204651.264 00:28:40 215.89MB IP CH2211605.264 00:00:00 191.1KB IP CH2225518.264 00:00:04 4 678.9KB IP CH2112010.264 00:00:08 00:00:01/00:00:08 . = ▲ 10 1.18MB

### 1. Play List

### 🕂 Add files

Remove 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	x ic 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 When E	Exit
Restore	OK Cancel Apply

Settings	<b>Basic</b>	Capture		×
Output Settings:				
Format:	PNG	<b>_</b>		
Saving Path:	C:/Users/Admi	nistrator/ <sup>1</sup> Bro	wse	
Restore		ОК	Cancel	Apply

Basic Settings: Set on-top mode

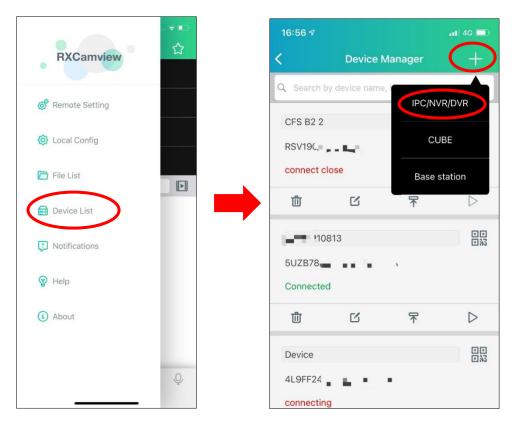
Capture Settings: Set the format and the path to save snapshots.

# Chapter 9 Remote Access via Mobile Devices

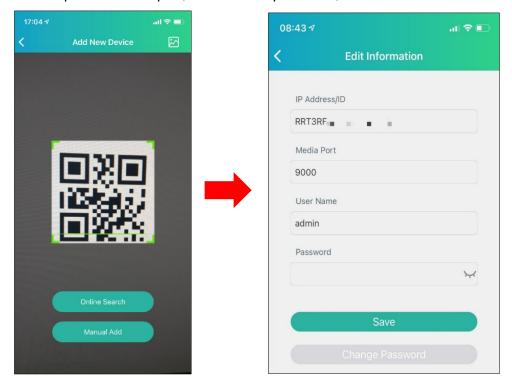
The NVR supports to remote access via mobile devices based on Android & iOS operating system.

- 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:

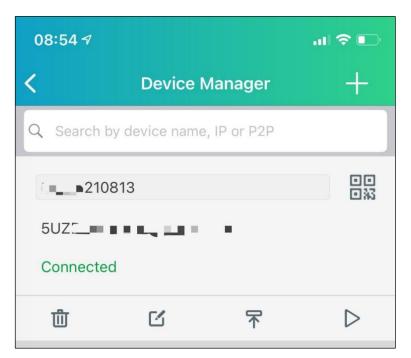
3. Touch the line icon on the left top corner and then choose Device List to turn to the Device Manager page. Touch the + icon on the right top corner and then select "IPC/NVR/DVR".



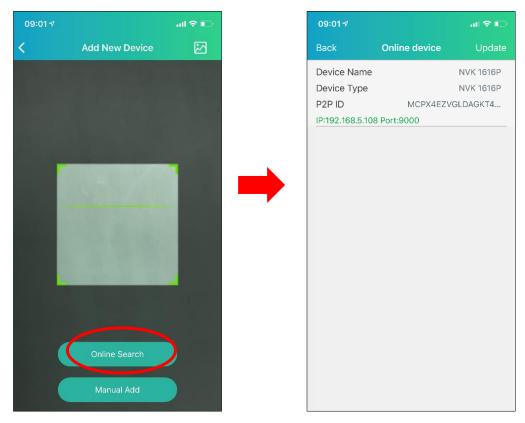
4. The app will open your phone camera to enter the scan mode. If your NVR supports P2P, scan the P2P ID QR code inside your system info page or on the top cover of your NVR. Input the media port, use name & password, and then click save.



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.

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Add New Device		Edit Information	
		IP Address/ID	
		125.89.55.125	
		Media Port	
		9000	
		User Name	
12288		admin	
		Password	
			3
Online Search		Save	
Manual Add		Observed Descented	
		Change Password	

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.
- 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.
- 4. Please check the HDD cable and data cable regularly to see if they are ageing.
- 5. 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.

6. This is a class A product. It maybe brings wireless interference in life. Under this situation, it need user to make measures.

CAUTION RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

### **Record Serial Number Here:**

Note: If product has no serial number, record month and year of purchase instead.

**Note:** Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts. Reference UPC 193175419316.

### Limited 90 Day Warranty

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. To the extent that this product is used with software other than what is provided, we shall in no event be liable for any damage to your computer or loss of data. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

### FCC STATEMENT

**Note:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



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