USER MANUAL

Network Video Recorder

NVR

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SAFETY INSTRUCTION

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

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

Never operate the equipment by using unspecified power supply.

2. Never push objects of any kind through openings of NVR

Never push objects of any kind through openings of NVR so as to avoid electric shock or other accidents.

3. Do not put the equipment in the dusty field Do not put the equipment in the dusty field.

4. Do not place the equipment under rain or humid environment

Do not place the equipment under humid environment like basement. If the equipment is accidentally in contact with water, please unplug the power cable and immediately contact your local dealer.

5. Keep the surface of the equipment clean and dry

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

6. Do not operate if any problems are found

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

7. Do not try to remove the upper cover

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

8. Handle with care

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

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

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

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

10. Put the equipment in a place with good ventilation

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

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

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

13. Do not ingest battery, Chemical Burn Hazard,

This product contains a coin / button cell battery.

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

2 hours and can lead to death.

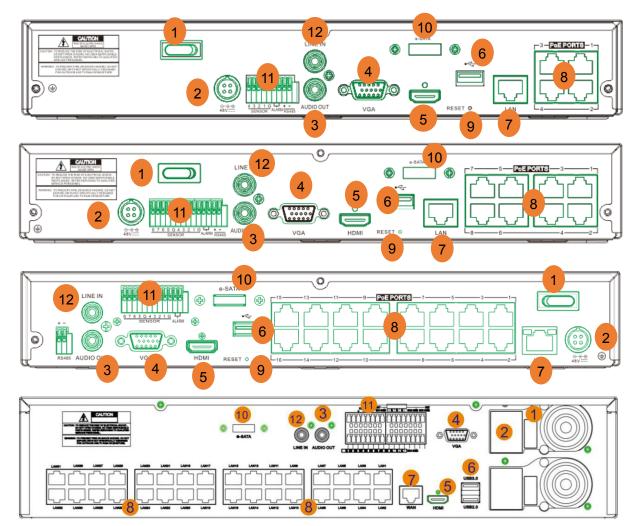
Keep new and used batteries away from children.

If the battery compartment does not close securely, stop using the product and keep it away from children.

If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention

Chapter 1 Product Overview

1.1 Rear Panel



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

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

1.2 Remote Controller (For Reference Only)

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

* Some NVRs are packed without remote controller.

Chapter 2 NVR Installation & Connection

2.1 HDD Installation

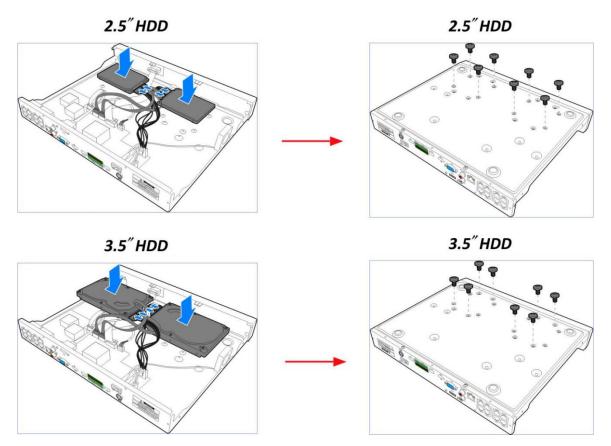
This NVR supports two 3.5" or 2.5" SATA hard disk drives.

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

is turned ON

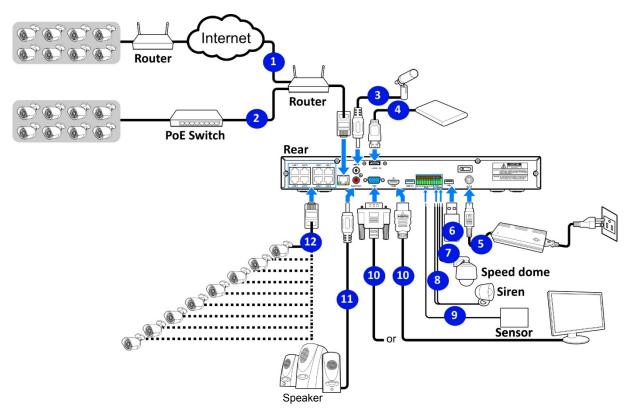
HDD Installation:

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



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

2.2 Connection Diagram

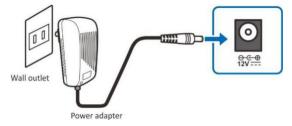


Note: Above diagram is for reference only. The practical connection may be different depending on the NVR you purchased.

2.3 Power Supply Connection

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

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

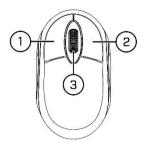


For some specific models, you may need to press the Power switch to turn on the power.



Chapter 3 NVR Common Operations

3.1 Using the Supplied Mouse



1. Left Button:

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

2. Right Button:

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

3. Scroll Wheel:

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

3.2 Using the Virtual Keyboard

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

Click to toggle the keyboard to upper case and more punctuation



3.3 Password

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

Language	ENGLISH	~	
Device ID	000000		(000000)
New Admin Name	admin		
New Admin Password			Show 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		~	
Device ID	000000			(000000)
User	admin		~	
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

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

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

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

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

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

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

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

					Wizar	d			>
etwork									
DNS2	2		08.008.006						
Port									
		Service	Protocol	Internal Port	External Port	UPNP Status	Maping Strategy	U	
	1	Web	TCP	00080	02414	Inactive	Manual 🗸		
	2	Client	TCP	09000	1816	Activate	Auto 🗸		
	3	RTSP	TCP	00554		Inactive	Auto 🗸		
	4	Https	TCP	00443		Inactive	Auto 🗸		

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	24Hour	~
Time Zone	GMT+08:00	~

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

Time: Click to set the system time.

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

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

Time Zone: Set the correct time zone.

NTP

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

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

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

DST

DST stands for Daylight Savings Time.

Date and Time	NTP DST				
Enable DST					
Time Offset	1Hour 📐 🗸]			
DST Mode	Week 🗸				
Start Time	Mar. 🗸	The 2nd	❤ Sun.	~ 0	2:00:00
End Time	Nov. 🗸	The 1st	✓ Sun.	~ 0	2:00:00

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

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

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

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

4.1.4 IP Camera

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

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

				Wizar	d				>
IP Can	nera								
	No.	IP Address/Domain	Port	N		Channel	Edit	State	IP Addres
					POE	CH1	1		
					POE	CH2	ø		
						СНЗ	1		
						CH4			
						CH5	1		
				_		CH6	1		
				-		CH7			
						CH8	1		
						CH9	1		
						CH10	1		
						CH11			
						CH12			
						CH13	1		
Searc									
						Previous	Next		Cancel
						Pievious	Next		Cancer

Check more in 5.1.3.1 PoE NVR Connection

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For N	For Non-PoE NVR, you need to add the IP cameras from LAN and/or Internet manually.												
					V	/izar	d						×
IP	Came	ra											
	No.	IP Address/Domain	Port	Manufacturer				Channel		Edit	State	IP Address/Domain	Sul
	1	192.168.6.171	9988		C			IP CH1	0				
	2	192.168.6.173	9988		0			IP CH2	0				
	3	192.168.6.152	9988		С			IP CH3	0				
	4	192.168.6.162	9988		С			IP CH4	0				
	5	192.168.6.165	9988		0			IP CH5	0				
	6	192.168.6.155	9988		0			IP CH6	0				
	7	192.168.6.168	9988		С	+		IP CH7	0				
	8	192.168.6.153	9988		C			IP CH8	•				
	9	192.168.6.174	9988		0			IP CH9	•				
	10	192.168.6.172	9988		C			IP CH10	0				
	11	192.168.6.170	9988		С			IP CH11	0				
	12	192.168.6.169	9988		C			IP CH12	0				
	13	192.168.6.159	9988		C								
S	earch												
								F	Previo	us	Ne	xt Cancel	

Check more in 5.1.3.2 Non-PoE NVR Connection.

4.1.5 Disk

			Wizard			×
Disk						
No. 👻	Serial No.	Edit	Model	Firmware	Туре	State
1	WD-WCAV93VZ0RHX		WDC WD5000AVDS-73U7B1	01.00A01	RW	Norm
Overwrite A	uto 🗸	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.

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

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

4.1.6 Resolution

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

Resolution		
Output Resolution	1280x1024	~
	Apply	

4.1.7 Mobile

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

Mobile		
P2P ID		
P2P ID	RSV1907010420595	
Local Connection		
IP Address	192.168.6.28	
Subnet Mask	255.255.255.0	
Port		EIMEMACH
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				
Don't show this window next time.					

Camera Title	Status Ice	ons
†	↑	
A-CH1 ● ★ ●	A-CH2	A-CH4
A-CHE B @ D ⊕ Q @ ■ ●★▲ Camera Quick Toolbar	A-CH6 • 大 4	CH8 VIDEO LOSS
admin Search Setup Lock Screen Start Menu	+ No Camera	+ No Camera
	60 B	<u>.</u> 종 () 04/10/2017 16:30:28
	+	+
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.
- The icon indicates that the external I/O alarm device is triggered
- S This icon indicates that the HDD is in error to work
- 1 This icon indicates the HDD is unformatted
- E This icon indicates the HDD is full.
- It is icon indicates the HDD is read-only.
- **VIDEO LOSS:** The analog camera is disconnected.
- No Camera: IP camera is disconnected.
- + Click to open Quick Add menu to add IP camera
- Click to edit current IP camera

4.2.1 Camera Quick Toolbar

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

฿,๏̀⊵฿€๙๙๛ฃฃฺ๗ฦ๎๎

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 **<u>5.2.3.1 Capture</u>**.

Click to play the latest 5 minutes recording of this channel

Click to enter PTZ control panel

igodot Click to zoom-in the channel. When the igodot icon appears, press and hold the left button of

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

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

CONTRAST & SATURATION of the image.

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

SD is substream live view.

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

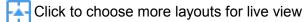
Al statistics. Hover the mouse upon the icon to view Al statistics when the Al function is activated in your NVR.

4.2.2 Taskbar

👰 👌 () 04/10/2017 16:30:28

Click to open the Start Menu

Click to choose different layout for live view



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

mode on 5.7.1.3 Output Configuration

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

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

Click to adjust audio volume

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

resolution)

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

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

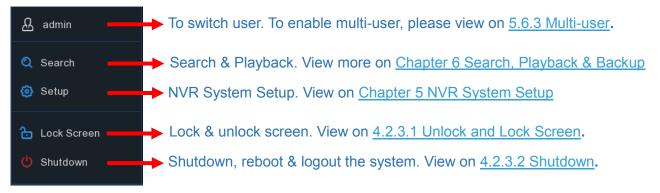
To start or stop Manual Record and Manual Alarm.

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

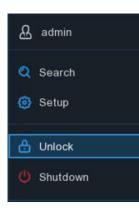
This icon will appear if the network is disconnected.

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

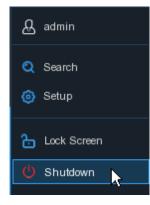


The screen will be locked to protect unauthorized OSD operation while the NVR is not in menu operation 1 minute.

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	ENGLISH	
- 0 -	What do you want the computer to c	0?	Language Device ID User	admin v	(000000)
\bigcirc	 Shutdown Reboot Logout 		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 Image Control Video Cover Pire Deterrent Intelligent		Alarm Motion PIR Intelligent PTZ Linkage Exception Alarm Schedule Voice Prompts	Al Setup Recognition Alarm Statistics
Seneral DDN Email FTP PFILTER Voice Assistant Platform Access		System General Multi-User Maintenarce IP Camera Mantain Information	Al Scenario Cross Counting Face Attendance
No Camera	No Camera 03/01/2020 -	No Camera 10:37:04	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 V
Video Cover	CH4	Digital
Nev powerster	CH5	Digital 🗸
Motion	CH6	Digital V
PIR	CH7	Digital V
	CH8	Digital
Deterrence	CH9	Digital V
Intelligent	CH10	Digital
	CH11	Digital V
	CH12	Digital V
	CH13	Digital V

5.1.1 Channel

5.1.1.1 Channel Config

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

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

61113	Digital	
CH14	Digital	~
CH15	Digital	~
CH16	Wireless	~
CH17	Wireless	~
CH18	Wireless	~
CH19	Wireless	~
CH20	Digital	~
CH21	Digital	~
CH22	Digital	~
CH23	Digital	~

5.1.1.2 Wireless Camera

	Channel Confi	g Wireless C	amera IP Channels	Protoc	ol Manage POE Power					
Dive	Channel	Pair State	Post Recording		Camera Version	Battery	Pair	Activate	Switch	
Image Control	W CH1	Paired	Continuous	~	V1.01.056_5.4a	96%	*	•	ON	~
	W CH2	Paired	30 s	~	V1.01.056_5.2a	55%	*		ON	~
PTZ	W CH3	Paired	30 s	~	V1.01.056_5.3a	48%	*	•	ON	~
Video Cover	W CH4	Not Paired					24			

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

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

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

Channel: Wireless camera name

Pair State: Paired & Not Paired

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

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

5.1.1.3 IP Channels

Channel	Channel Confi	g Wireless Came	era IP Chan	nels	Protoc	ol Man	age POE Power						
	No. Edit IF	Address/Domain	Port	Mai	nufactu	rer	De	vice Type	MAC Address	Software Version			
		172.20.19.110	9000				N	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			
PTZ		172.20.19.132	9000				IP	CAMERA	00-23-63-7C-30-	D3 V10.35.7.0_201114			
		172.20.31.52	80 HIK	VISION	DS-IF	PC-B12	H-I		10-12-FB-1C-0A				
Video Cover		172.20.31.53	9000				IP	CAMERA	00-23-63-7C-30-	9C V12.45.7.0_210122			
Motion		172.20.31.54	9000					15432P	88-C9-64-4A-3B-	06 V8.1.0-20201105			
		172.20.31.55	9000					15064N	88-8F-68-8B-49-	51 V8.1.0-20210419			
PIR		172.20.31.56			DNVIF				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			
		172.20.31.60	9000	R	EDLIN		RS-CH258H	1ND-DF-A2812PW	00-26-63-25-77-	05 V15.25.7.0_210303			
Intelligent	Search	Add	Add All										
	Channel	Switch Mode 🗸	POE Mode 🗸		Edit St	ate	IP Address/Domain	Subnet Mask Port	t 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		/ 1	3	172.20.52.27	255.255.255.0 9000		IP CAMERA	Private	00-23-63-6D-0C-B6	
	IP CH3	Manual	Auto		1		172.20.52.28	255.255.255.0 9988	3 SNC-99445BF	IP CAMERA	Private	00-16-6C-FC-C7-39	
	IP CH4	Manual	Auto		/ 1		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		1		172.20.52.32	255.255.255.0 9988		IP CAMERA	Private	00-16-6C-F7-A5-39	
	IP CH8	Manual	Auto		/ 1	2	172.20.52.32	255.255.255.0 9988		IP CAMERA	Private	00-23-63-6D-0A-2C	
	IP CH9	Manual	Auto			2	172.20.52.33	255.255.255.0 9988	3 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	ø	
CH2	Auto	Auto	1	
CH3	Auto	Auto		12
CH4	Auto	Auto	1	
CH5	Auto	Auto		
CH6	Auto	Auto	1	
CH7	Auto	Auto		
CH8	Auto	Auto		
CH9	Auto	Auto	1	

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 Info	ormation	i	
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 Pas	sword

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

Set The	e Protocol Def	ault Password	I	×
Protocol	User Name		Password	
Private	admin		••••	
Onvif	admin		•••••	
RTSP	admin		••••	
	Default	Save	Cancel	

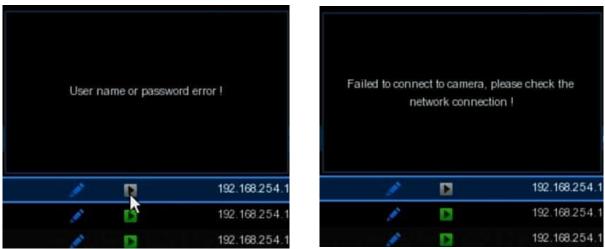
USER MANUAL

		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.
TOE:	CH2	Auto	Auto	1		192.168.254.152	255.255.255.
ACKE.	СНЗ	Auto	Auto	ø		192.168.254.153	255.255.255.
	CH4	Auto	Auto			192.168.254.154	255.255.255.
	CHS	Auto	Aller				

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 b then the camera is well-connected; if the icon is b 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 s to modify the user name and password which is same with the camera's.

	Edit Connection Information	×
Channel		
Switch Mode	Auto	
POE Mode	Auto	
Alias	CH2	
IP Address/Domain	10,10.25,152	
Subnet Mask	000.000.000	
Port	80	
Protocol	Onvif ~	
User Name	admin	
Password	••••• Show Password	
	1 2 3 4 5 6 7 8 9 0 ←	
	qwertyuiop[]\ asdf9hjkl;'`	
Auto Aut		
Auto Aut		
Auto Aut		

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 *	mr. 11.
CH1	Auto	Auto
CH2	Auto	Manual
CH3	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 Connection	on Information
Channel	CH5	
Switch Mode	Auto	~
POE Mode	Auto	
	Manual	
Alias		

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 \bigcirc in the channel list to add a camera to an individual channel. Click **Search** button, all available cameras in the LAN will be displayed.

hannel	Switch Mode ~	POE Mode 🗸		Edit	State
CH1	Manual	Auto	0		
CH2	Manual	Auto	0	1	

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

			Ad	ld IP Camera	à		×
No.		IP Address/Domain	Port	Manufacturer	Device Type	MAC Address	Software Vi
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_
IP Addres	s/Domain	192.168.5.122					
Alias		CH5					
Port		9000					
Protocol		Private			~		
User Nam	ie	admin					
Password		•••••		Show Password	t		
Bind chai	nnel	CH5			~		

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

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

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

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

Channel	Switch Mode ~	POE Mode 🗸		Edit	State	IP Address/Domain	Subnet Mask	Port	Manufacturer
CH1	Manual	Auto				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			🛃 Au	ito		
Protocol		~	🔽 Au	ito		
User Name	Default					
Password	Default		st	now Password		
				Add	Gancel	

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			D	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	•				

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 to select all cameras. Click icon to go back to search list.



	No.	Edit	IP Address/Domain 🔺	Port	Manufacturer	Device Type	MAC Address	Software Version
	1	+	192.168.5.122	9000		N5316N	00-23-63-70-85-96	V8.1.0-20210224
Searc	h	Add	Add All					
		maa	2400 PMT					

3. Select the NVR in the search list, and then click Add button.

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

	Add IP	Camera		×
Port		🛃 Auto		
Protocol		🗸 🔽 Auto		
User Name	admin			
Password	•••••	Show	v Password	
			Add	Cancel

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

Channel	Switch Mode ~	POE Mode~		Edit	State	IP Address/Domain	Subnet Mask	P
CH1	Manual	Auto				192.168.5.122-1	255.255.255.0	9
CH2	Manual	Auto				192.168.5.122-2	255.255.255.0	9
CH3	Manual	Auto				192.168.5.122-3	255.255.255.0	9
CH4	Manual	Auto				192.168.5.122-4	255.255.255.0	9
CH5	Manual	Auto				192.168.5.122-5	255.255.255.0	9
CH6	Manual	Auto				192.168.5.122-6	255.255.255.0	9
CH7	Manual	Auto	٥					
CH8	Manual	Auto	0	4				

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
Search Add Nadd All	

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/Domai	n 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 Chanr	nets FOE Power						
	2.28W 4.68W 2.43W 2	43W 2.62W 3.42W					
				11%			
Actual p	ower: 17.85W						
surplus	power: 138.14W						
	ated power of the POE port	f the device is 156W. h POE port is 0~13W.					

5.1.2 Live

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

	Live											
		Setup	Channel Name	Show Name 🗸	Date Format				Show Time 🗸	Refresh Rate		
Image Control	CH1	۲	front door		MM/DD/YYYY	~	24 Hour	×		50Hz	~	
PTZ	CH2	۲	back door		MM/DD/YYYY	×	24 Hour	¥	Z	60Hz	×	
			Camera		MM/DD/YYYY		24 Hour		N			
			street		MM/DD/YYYY		24 Hour		M			
Motion			Camera		MM/DD/YYYYY		24 Hour		M			
	CH6		Camera		MM/DD/YYYY		24 Hour		V	60Hz		
Deterrence												

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

Channel Name: Give a name to the camera

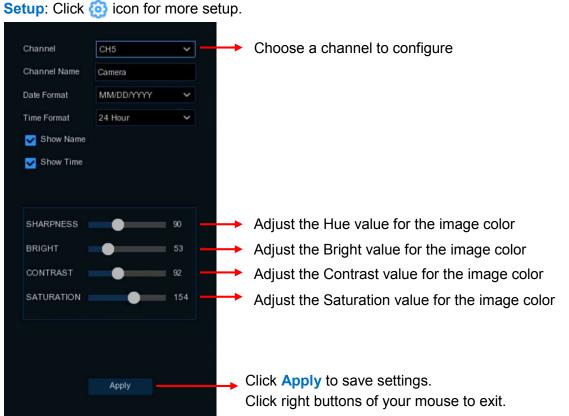
Show Name: To display the channel name in the images or not. It affects both live view & recording images.

Date Format: To choose a date format.

Time Format: To choose a time format.

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

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



Setup: Click 🙆 icon for more setup.

5.1.3 Image Control

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

Setup	nel Record /		Al Network	Device S	ystem								\odot		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	۲		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
				GPIO Auto						Disable			Auto	Auto	Disable
Motion				GPIO Auto						Disable			Auto	Auto	Disable
	CH6	0		GPIO Auto	2	OFF	OFF	180	OFF	Auto	OFF		Auto	Auto	Disable

Setup: Click 🙆 icon into the setup page.

Channel	CH6	× _	Choose a channel to
IR-CUT Mode	GPIO Auto	~	Select the desired built-in IR cut filter mode
IR-CUT Delay	•	2	to ensure the camera works properly both in
Supplement Light	Auto	× -	Set the IR LED / Supplement lights
Lens Flip			→ Pîlpfertical
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	~	compensation To enable or disable 3D noise
WDR	Enable	~	reduction function To enable or disable
Level		128	WDR/DWDR
HLC	Disable	~	level → To enable or disable the high light
AGC		64	→ Compensation
White Balance	Auto	~ -	Control Configure white balance
Shutter	Auto	~ -	→ Set the shutter
Time Exposure	1/30	~ -	mode Choose the exposure time of the
Defog Mode	Disable	× -	 camera Use in foggy environments to improve the video quality
l.	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 Netwo	rk De	wice 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	~	Pelco-D	~	9600	~	8	*	1	~	None	*	6

Channel: Channel name

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

Below items need to be set for Analog PTZ only.

Protocol: Choose the communication protocol between the PTZ capable camera and NVR.Baudrate: The speed of the information sent from the NVR to the PTZ-capable camera.Make sure it matches the compatibility level of your PTZ-capable camera.

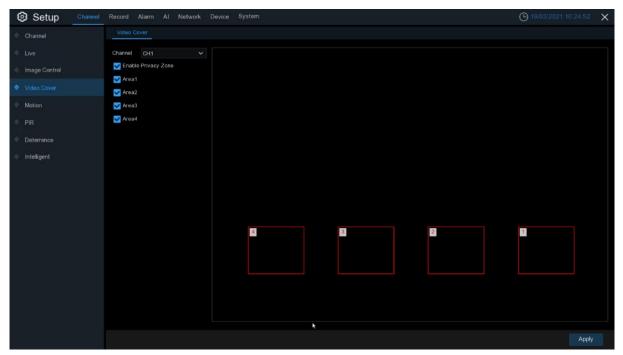
DataBit / StopBit: The information between the NVR and PTZ-capable camera is sent in individual packages. The **DataBit** indicates the number of bits sent, while the **StopBit** indicates the end of the package and the beginning of the next (information) package. The available parameters for **DataBit**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

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

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

5.1.5 Video Cover

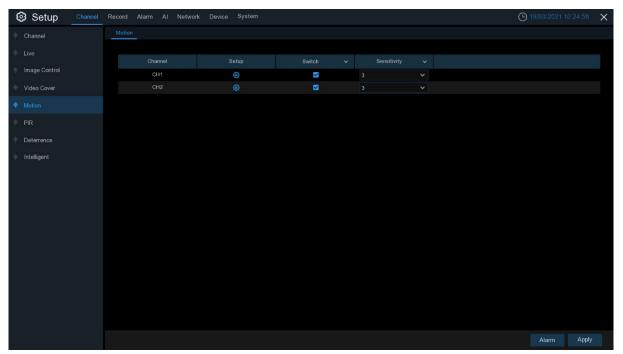
This menu allows you to create privacy zone(s) if you want to partially cover some certain part of the images. You can create up to 4 privacy zones in any size and location on the camera image. Enable the Privacy Zone, and choose how many zones you need. The zone(s) appear as "red box". Click the edge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



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

5.1.6 Motion

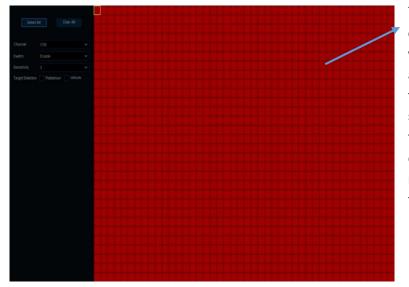
This menu allows you to configure motion parameters. When motion has been detected by one or more cameras, your NVR will alert you to a potential threat at your home. It does this by sending you an email alert with an attached image from the camera to use as a reference (if this option is enabled) and/or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



Switch: Enable or disable motion detection.

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

Setup: Click 🙆 icon into the setup page.



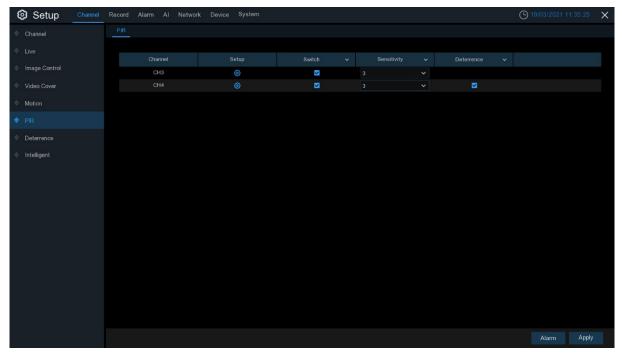
Motion Detection Area:

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

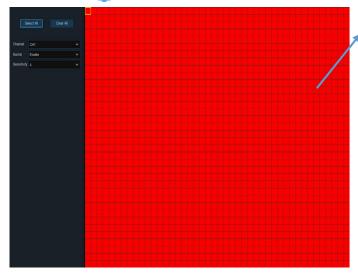
If your IP camera supports SMD (Smart Motion Detection), you can choose the camera to alert only when the camera detects **Pedestrian** (people) and/or **Vehicle**.

5.1.7 PIR

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



Setup: Click 🙆 icon into the setup page.



PIR Detection Area:

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

Switch: Enable or disable PIR detection.

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

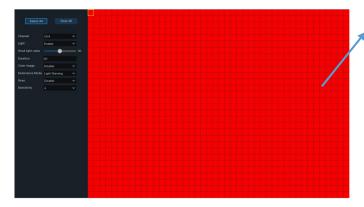
5.1.8 Deterrence

This menu allows you to configure the deterrence parameters.

Setup	Channel	Record	Alarm	Al	Network	Device	System						19/03	/2021 11:39:42	×
Ohannel		Deter	rence												
O Live					Setup			Sensi							
Image Control			CH1		٢		٢	4	~		30		10		
👳 Video Cover															
Motion Motion					٢		٢								
PIR															
Deterrence															
Intelligent															

Channel: channel name.

Setup: Click 😳 icon into the setup page.



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

Deterrence Area:

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

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

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



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

5.1.9 Intelligent Analysis

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

Setup Channel	Record Alarm Al Network Devic	e System			19/03/2021 10
Channel	PID LCD PD SOD FD CC	Sound Detection Video Tampering Sche	dule Cross Counting Statistics		
∲ Live			Switch		Sensitivity 🗸
Image Control	CH2	0	N	OFF	
Video Cover				ON	
O 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 S	OD FD	CC :	Sound Detection	Video Tampering	Schedule	e Cross Counting Statistics				
	Char	nnel			Setup		Switch			Sensitivity	
	CH	12			٢		<u>~</u>	0	FF		~
								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 All Save A

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



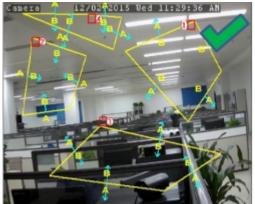
Rule Number: Max. 4 rules available.

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.

PID LCC	D PD & VD	SOD	FD	CC	Sound Detection	Video Tampering	Schedule	Cross Counting Statistics			
	Chan	nel			S	etup		Switch	Sensitivity		
	CH1					٥					
										Alarm	Apply

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

				PID				×
Post Recording	Show Message 🤟	Send Email 🗸	FTP Picture Upload 🗸	FTP Video Upload 🤜	Picture to Cloud 🐱	Video to Cloud	Full Screen 🗸	Voice Prompts
	N	×	N		×			
					C	ору	Default	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 5.4.4 FTP.

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

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

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

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

Prompts

Channel	V	ocal 1				
Voice Prompts		Alarm-Siren	~	00:00:00	23:59:59	4)
	Θ	None	~	00:00:00	23:59:59	40
	Ð	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 Chann	el Record Alarm Al Network Devi	ce System			19/03/2021 10:31:45	×
Channel	PID LCD PD SOD FD CC					
Live Live						
Image Control	Channel CH2	Setup	Switch	V Se OFF	nsitivity 🗸	
Video Cover	CH2		U	ON		
Ø 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				
Rule Type	A->B	~		
	Remove			
	Remove All			
	Save			B ∫
				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		O 19/03/2021 10:32:51 🗙
Channel	PID LCD PD SOD FD CC S	ound Detection Video Tampering Schedule		
V Live			Switch 🗸	
Image Control	CH1	G	OFF	
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

		ļ	nside:	0 Available:	50	
Channel	CH5	~	1	1 Legacy		
Rule Number)	~	ļ			
Rule Switch	0					
Rule Type	Legacy	~	22.			
Dynamic Marking	Enable	~				
	Remove					
	Remove All		1			
	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.

6	Setup Channel	Reco	rd Ala	arm Al	Netwo	ork Dev	vice	System				
Φ	Channel	PID	LCD	PD & VD		FD C		Sound Detection	Video T	ampering	Schedule	Cross Counting Statistics
٢	Live		Chi	annel		Setup		Switch	~			
۰	Image Control			H7		۲						
Ф	РТΖ											
•	Video Cover											
Φ	Motion											
Ø	PIR											
¢	Deterrence											
٠							k	t				

Switch: Check the box to enable FD function.

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

O han and I					
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	Reco	rd Al	arm Al	Network	Device	e System			
Φ	Channel	PID	LCD	PD & VD	SOD F	D CC	Sound Dete	ction Video 1	ampering	Sched
Φ	Live		Chan	nel	Setup	91	vitch 🗸	Sensitivity	~	
Φ	Image Control		сн		()			1	~	
¢	РТΖ									
Φ	Video Cover									
Φ	Motion									
Φ	PIR									
¢	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.

			I	11
Channel	СН7	~		
Rule Number	1	~		
Rule Switch				
Rule Type	A->B	~		
	Remove		В	^
	Remove All			
	Save			
			1	

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

Rule Switch: Activate or inactivate the rule

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

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

B \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 Network Dev	vice System			➡ 19/03/2021 10:33:27 X
Ohannel		Sound Detection Video Tamper	ing Schedule Cross Counti		
Live	Channel Switch				✓ Decline Sensitivity
Image Control	CH1	2 Enable 🗸	50 54	50 Disable	∽ 50
Video Cover		Disable 🗸	50 54	50 Disable	✓ 50
Ø 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 Netwo	k Device System			(b) 19/03/2021 10:33:33	×
Ochannel			Video Tampering Sche			
• Live						
	Channel		Switch 🗸			
Image Control	CH2		×			
Video Cover						
Motion						
♦ PIR						
Deterrence						
• Intelligent						

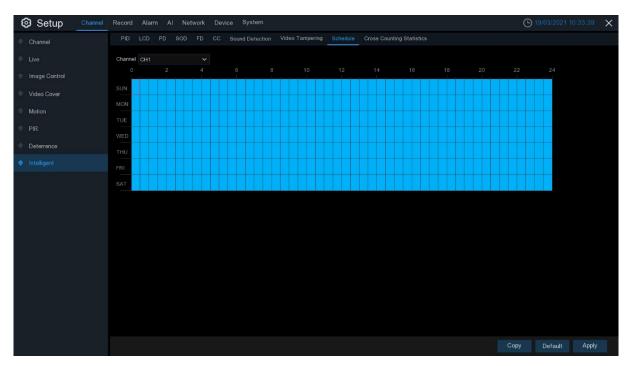
Video Tampering detects the occlusion of the live view screen, and some certain actions can be taken when the alarm is triggered.

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 🛛 🗙
© Channel		Video Tampering Schedule Cross Counting Statistics	
Ive	Channel None V Date 19/03/2021	Report Type Daily Report 🗸	
Image Control	Cross Type Cross In 🗸	Column C	hart Line Chart Search Export
Video Cover	10 r		
Motion			
PIR	8 -		
Deterrence	6		
Intelligent	4 -		
	2 -		
	0	0 None	
		NUIR	

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 Chann	el Record Alarm	Al Network	Device Syst	em						(<u>)</u> 19	/03/20	21 10:36:4	5 >
	Mainstream §	Substream Mobile											
Record			Resolution				e Type 🗸		Bitrate Mode				
Capture	CH1	Normal	2592 x 1944			H.265		CBR	Predefined	4096		~	
		Normal	2592 x 1944		20	H.265		CBR	Predefined	4096			
	Total Band Wid	th:128Mbps, Used B	and Width:10.75M	lbps								Ар	ply

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

Record Record Schedule Record Record Schedule Stream Mode PreRecord PreRecord Image: Control Schedule Capture CH1 Image: Ch2 Mainstream Image: Ch2 <	Setup Channe	el Record Alarm Al Netwo	rk Device System			(b) 19/03/2021 10:37:13
Capture CH1 V Mainstream V CH2 V Mainstream V CH3 V Mainstream V CH4 V Mainstream V CH4 V Mainstream V CH4 V Mainstream V CH4 V Mainstream V CH5 V Mainstream V CH6 V Mainstream V CH7 V Mainstream V	Encode	Record Record Schedule				
CH2 Image: Mainstream Image: Mainstream CH3 Image: Mainstream Image: Mainstream CH4 Image: Mainstream Image: Mainstream CH5 Image: Mainstream Image: Mainstream CH6 Image: Mainstream Image: Mainstream CH7 Image: Mainstream Image: Mainstream			Record Switch 🗸	Stream Mode	PreRecord V	
CH3MainstreamImage: CH3CH4MainstreamImage: CH3CH5MainstreamImage: CH3CH6MainstreamImage: CH3CH7MainstreamImage: CH3CH7MainstreamImage: CH3CH3MainstreamImage: CH3CH4MainstreamImage: CH4CH4MainstreamImage: CH4CH4MainstreamImage: CH4CH4MainstreamImage: CH4CH4MainstreamImage: CH4CH4MainstreamImage: CH4CH4Mainstream </td <td>Capture</td> <td>CH1</td> <td>\checkmark</td> <td>Mainstream</td> <td></td> <td></td>	Capture	CH1	\checkmark	Mainstream		
CH4Image: CH4Image: CH4Image: CH4Image: CH4Image: CH4CH5Image: CH4Image: CH4Image: CH4Image: CH4Image: CH4CH6Image: CH4Image: CH4Image: CH4Image: CH4Image: CH4CH7Image: CH4Image: CH4Image: CH4Image: CH4Image: CH4				Mainstream		
CH5Image: Amage: Amag Amage: Amage: Amag		СНЗ	×	Mainstream		
CH6 Image: CH6 CH7 Image: CH6				Mainstream		
CH7 🔽 Mainstream 💙		CH5	×	Mainstream		
		CH6		Mainstream		
CH6 🗹 Mainstream 🗸 🗹		CH7	Y	Mainstream		
		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.

Record	Record Schedule												
Channel	CH6	~											
0			6	8	10	12	14	16 	18				
SUN													 Normal
MON													Motion
TUE													
WED													O PIR
THU													
FRI													
SAT													
										Сору	Default	App	al v
										Copy	Delault		

Channel: Select the channel to set its recording parameters.

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

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

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

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

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

Click Apply to save your settings.

5.2.3 Capture

This menu allows to configure the image capture function.

5.2.3.1 Capture

Setup Channel	Record Alarm	Al Network [Device System			(b) 19/	03/2021 10:37	':39 ×
Encode	Capture Captu							
Record Record		Auto Capture 🗸	Stream Type 🗸					
	CH1		Mainstream 💙	5 s 🗸	5 s 🗸 🗸			
	CH2		Mainstream 🗸	5 s 🗸 🗸	5 s 🗸			
	CH3	×	Mainstream 🗸					
			Mainstream 💙	5 s 🗸	5 s 🗸			
	CH5	×	Mainstream 💙					
	CH6		Mainstream 🗸	5 s 🗸				
	CH7	Y	Mainstream 🗸					
	CH8		Mainstream 🗸					
	A Digital cham						Default /	Apply

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

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

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

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

5.2.3.2 Capture Schedule

Setup Channel	Record Alarm Al Network Device System	● 19/03/2021 10:37:53 ×
Encode	Capture Capture Schedule	
Record	Channel CH1 V	
Capture		 Normal
	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.

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

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

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

5.3 Alarm

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

5.3.1 Motion

Setup Channel	Record Al	arm Al Netwo	irk D	evice Syst	tem						9	19/03/2021 10:39:14
	Motion											
PIR	Channel			Alarm Out	Latch Time			 Post Recording 		Show Message 🗸		FTP Picture Upload 🗸
	CH1	Disable	×	۲	10 s	~	@ 0	N 30 s	~	Z	~	Z
Intelligent	CH2	Disable	*	0	10 s	~	۲	Z Record Channel				
PTZ Linkage								123456	7 8			

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

Record Channel												
1	2					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.

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

Channel	V L	ocal 1				
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 *				

5.3.2 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.



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

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

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

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

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

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

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

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

Channel	V	ocal 🚺				
Voice Prompts		Alarm-Siren	~	00:00:00	23:59:59	4)
	Θ	None	~	00:00:00	23:59:59	4)
	÷	None Dog-Barking danger zone,please leave				
		leave				
		Alarm-Siren				

5.3.3 I/O

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

Alarm In	Alarm Type		Buzzer		Alarm Out 🗸	Latch Time		Record 🗸	Post Rec	ording 🧸	Show Message 🗸	Send Email 🗸	Full Screen 🥆
IO-1	Normally-Open		Disable			10 s		ON	30 s		>	×	
IO-2	Normally-Open	~	Disable	~		10 s	~	🚳 ON	30 s	~	N	N	
IO-3	Normally-Open		Disable			10 s		ON	30 s		>	>	
IO-4	Normally-Open		Disable			10 s		🙆 ON	30 s		N	V	

Alarm In: I/O channel.

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

Channel	∠ L	ocal 🚹				
Voice Prompts		Alarm-Siren	~	00:00:00	23:59:59	(ئې
	Θ	None	~	00:00:00	23:59:59	(1)
	÷	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.

	Channel													
	Charmer	Buzzer		Alarm Out			Record ~		Post Recording		Show Message 🗸		FTP Picture Upload 🐱	
	CH1	Disable			10 s		() ON	3	0s					
		Disable			10 s		() ON	1 3	0 s		M	X		
		Disable			10 s			3	0 s		×	N		
		Disable			10 s		() ON	I 3)s			M		
Exception	CH6	Disable	~	٢	10 s	×	ON	1 3	0s	Y	X	2		

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

Record Channel 1 2 3 4 5 6 7 8

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

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

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

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

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

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

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

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

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

Channel	V	ocal 1				
Voice Prompts		Alarm-Siren	~	00:00:00	23:59:59	4)
	Θ	None	~	00:00:00	23:59:59	4)
	÷	None Dog-Barking danger zone,please leave				
		leave Alarm-Siren				

5.3.5 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						
		 Motion 					
	CH1			OFF	OFF	OFF	OFF
Intelligent		N					
intelligent		N	M				
Exception		M					
		N	N				

Switch: Enable or disable the PTZ linkage function.

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

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

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

5.3.6 Exception

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

Setup Channel	Record Alarm	Al Network	C Device S	System				(C) 19/03/2021 10:41:46	×
Motion	Exception								
♥ PIR	Event Type	Switch 🗸			Latch Time	Show Message 🗸			
I/O	No Space on Disk	×	Disable			>	>		
Intelligent	Disk Error		10 s		10 s	V			
	Video Loss	>				>	×		
PTZ Linkage									
Alarm Schedule									

Event Type: Select the event type from below options:

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

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

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

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

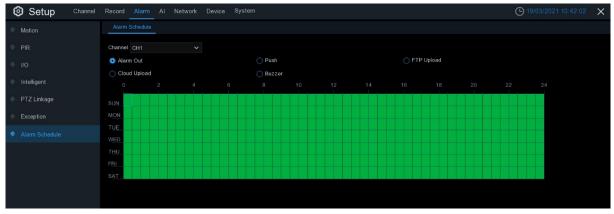
Alarm Out: This is an optional function. Click to enable the external alarm device to sound. This is an optional function.

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

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

5.3.7 Alarm Schedule

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



Channel: Select the channel to set its capture parameters.

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

5.3.8 Voice Prompts

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

6	Setup Channel	Record Alarm	AI	Network	Device	System		
φ	Motion	Voice Prompts						
Φ	PIR	Channel	🛃 Loca	1	(1)			
•	I/O	Voice Prompts	None				~	Ó
		Model	Import	Files			~	
0	Intelligent						Import	
¢	PTZ Linkage							
÷	Exception							
Φ	Alarm Schedule							
•	Voice Prompts							

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

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

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

	Voice Prom	pts				×
Driver List:	c			÷	1	Ê
💾 USB1-1	Name		Last Mo	dify		
	System Volume Information		05/26/2021 1	7:18:42		
	111.pcapng	0.000B	06/21/2021 1	0:32:42		
	Abnormal Attendance.mp3	20.856KB	04/20/2021 0	9:02:48		
	Afternoon off duty.mp3	33.231KB	04/20/2021 0	9:02:48		
	Alarm-Siren.wav	125.043KB	04/19/2021 1	9:24:16		
	Dog-Barking.wav	205.754KB	04/19/2021 1	9:24:18		
	Don't leave early.mp3	59.106KB	04/20/2021 0	9;02:48		
	Midnight.mp3	43,356KB	04/20/2021	9:02:48		
	Morning Attendance.mp3	33.231KB	04/20/2021 0	9:02:50		
	Night time off duty.mp3	30.981KB	04/20/2021 0	9:02:46		
	Noon Attendance.mp3	33.231KB	04/20/2021 0	9:02:50		
	Noon Off duty.mp3	32.106KB	04/20/2021	9:02:50		
	Overtime attendance.mp3	32.106KB	04/20/2021 0	9:02:46		
Remain:/Total:	Location: usb1-1					
25.876GB/29.492GE	3 Selected File:				4	
Format	Refresh finished !		ок	c	ancel	

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

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

USER MANUAL

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

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

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

Voice Prompts		
Channel	🔽 Local 📶 🛛 📣	
Voice Prompts	private zone1 ~	1
Model	Internet Server Conversion	
Language	ENGLISH]
Name	private zone1	
	Warning: this is private zone, do not enter!	
Plain Text		
	Import	
	Import	

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

5.4 Al

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

0	Setup	Channel	Record	Alarm	Al	Network	c De	evice	Syste	m				
∳ s			FD	PD & VD	PID	LCD		HM			Schedule			
⊕ R	Recognition													
					Cha	nnel					Setup	Sv	vitch	~
• A	larm				C	H6								
• s	tatistics													

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

5.4.1 Setup

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

5.4.1.1 FD (Face Detection)

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

Channel	CH6	×
Snap Mode	Optimal Mode	~
Apply Mode	Realtime Mode	
	Optimal Mode	
Min Pixei	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	

Channel: Channel selection

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

Channel	CH6	~
Snap Mode	Optimal Mode	~
Apply Mode	Realtime Mode	
Min Pixel	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.

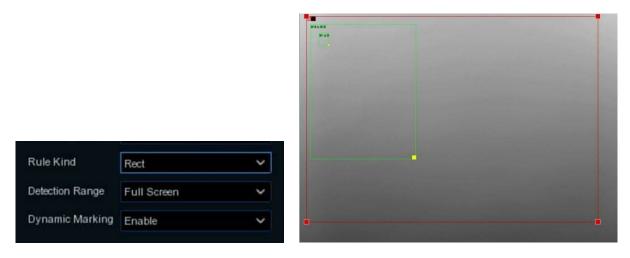
Face Enhance: Face enhancement makes it easier to recognize the moving faces, but it may lower the whole picture quality.

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 $A \rightarrow B$

			94593 948	
Para and		~		
Detection Mode	Motion Mode	~		
Rule Type	B->A	~		
	Enable	~		

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	AI	Network	De	evice	Syste	m			
		FD	PD & VD	PID	LCD	CC	HM	CD	QD	Schedule		
Recognition												
Alarm				Cha	innel					Setup	Switch	
V Alaim				C	H6							

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

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

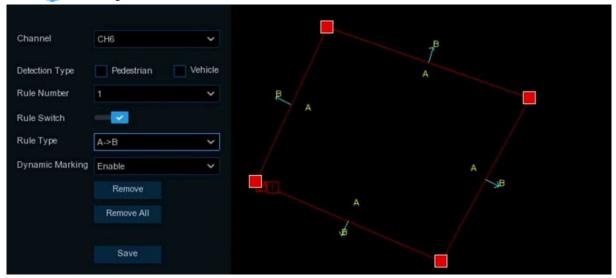
5.4.1.3 PID (Perimeter Intrusion Detection)

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	evice	Syste	m			
		FD	PD & VD	PID	LCD	сс	HM	CD	QD	Schedule		
Recognition				Perime	eter Intrusi	on Det	ection					
			Channel		Setu			Switch		Sensitivity		
Alarm			CH6							2	~	
A Distingue												

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.

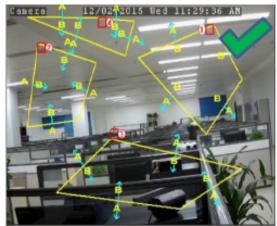
- 1. Choose one of the **Rule Number**. It is the number of LCD lines. Maximum 4 lines you can draw.
- 2. Choose the detection target type.
- 3. To enable the detection in **Rule Switch**.
- 4. Choose a Rule Type.

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	vice	Syste	em		
		FD	PD & VD	PID	LCD	CC	HM	CD	QD	Schedule	
Recognition					Line Cro	ssing L	etection				
Alarm			Channel		Setup		Switch	*	Sen	sitivity 🗸	
Alaini			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	CH6	~				
Detection Type	Pedestrian	Vehicle				
Rule Number	1	~	ļ			
Rule Switch						
Rule Type	A->B	~				
Dynamic Marking	Enable	~	A	→₿		
	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	ì		
		FD	PD & VD	PID	LCD	CC		QD	Schedule	
⊕ Recognition						cross Countin	9			
Alarm			Channel		Setup	Swi	tch 🗸		Sensitivity	~
Alaini			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	~
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	vice	Syste	:m		
		FD	PD & VD	PID	LCD	cc	HM	CD	QD	Schedule	
Recognition							Heat M	ар			
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	vice	Syste	m	
Ð			FD	PD & VD	PID	LCD	сс	НM	CD	QD	Schedule
	Recognition										Detection
	Alarm		C	hannel	Setup	o Sw	itch >	× .	Sensi	tivity	~
				CH5	0		X		2		Y

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		
Ð			FD	PD & VD	PID	LCD	СС	ΗM	CD		Schedul	
	Recognition									Queue	Length De	tection
	Alarm		(Channel	3	Setup	Sv	vitch	×	Sensi	tivity 🗸	
	Committee			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 Availab	ole: 50	
Channel	CH5	Y			
Min Pixel	32	(32-1080)			
Max Pixel	640	(320-1080)			
Max Detection	10	(1-100)			
Max Pro Time	60	(1-3600)			
Detection Range	Customize	~			T
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 Char	nel Record	Alarm	Al	Network		System										(b) 09/1
		PD & VD					D Sch	edule								
Recognition	Channel	CH5			*											
Alarm	0	2		4	6	8		10	12	14	16	18	20	22	24	
Statistics	SUN															O FD
	MON															O PD & VD
	TUE															O PID & LC
	WED															
	THU															
	FRI															
	SAT		1				1 2 2						111		1	

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	Device System		(b) 0
Setup	Model Configuration Database Man	agement		
	Value and the select face recognition model			
Alarm	Device/Channel	Face Recognition Model	Face Detection Model	Enable Face Recognition
Statistics	Local	V0.0.0.1-release	Face Detection Model	
		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 Channe	el Record Alarm Al Network Device System	
⇔ Setup	Model Configuration Database Management	
Recognition	Import Database Backup Database	
♥ Alarm	Group Name	+/- Edit Enable 🗸
Statistics	1 Allow List	e 🗹
	2 Block List	C 🗹
	3 Stranger	✓

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

Import Database: Import database from USB memory.

Backup Database: Export database to USB memory.

Enable: Check to enable the group.

Edit: Click edit icon 📝 to edit the group.

		Gro	up 1		×
Search					
				Detail Information	
	e Import		Download Import Template		

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

Import from	×
Local Storage Device	
External Storage Device	
Cancel	
Cancer	

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	(10) 00:00:00 T	o 17/03/2021 🛗	23:59:59	🕻 1 Day 🗸 🕨	Channels	Search	
			k				Select All
17/03/2021 10:56:38	[CH5]	17/03/2021 10-57-15	17/032021105826	17/032021 1058-29	17/032021 1059 08	[CH5]	17/03/2021 11:00:51
[CH6]	17/032021 11:01:10	[CH5]	17/03202111-01:39	[CH5]	17/03/2021 11:01:57	17/03/2021 11:02:00	[CH5]
17/092021 11:03 24	17/03/2021 11:03:48	17/032021 11:03 52	17/032021 11 04 15	17.092021 11:06:07	17/03/2021 11:06:22 [CH5]	17/032021 11:05:49	17:032021 11:06 18 [7:032022 11:06 18] [7:03202 11:06 18] [7:0320 11:06 18] [7:0
Select All K	< 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.

USER MANUAL

Import		×
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 < 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.

Setup	Face	e Recog	nition Attribute Detection Hur		erimeter Intru:	sion D	etection	1 Line	Crossing De	etection Cross			
Recognition				Enable Alarm 🗸									
			Allow List	Z	Allow		≥	70	%	۲	٢	0	
			Block List	Z	Deny			70					
Statistics			Stranger	×	Strange								
			Group 1		Allow	×		70					
			Group 4	×	Allow				%				
			Group 5		Deny			70					
			Group 6	×	Allow								
					Allow			70					
			Group 8	×	Allow				%				
			Group 9		Allow			70					
			Group 10	M	Allow				%				
					Allow								
			Group 12	×	Allow				%				
			Group 13		Allow			70					
			Group 14	✓	Allow				%	۲	0	0	

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		٢	10 s	 ✓ 	~	~	~	_	
CH2	Disable			10 s	× 🗹	_	N		_	
CH3	Disable			10 s	✓	~	~	~	_	
CH4	Disable	~		10 s	× 🗹	_	N			
CH5	Disable			10 s	✓	~	~	~	_	
CH6	Disable			10 s	✓	_			_	
CH7	Disable			10 s	✓	M	~		S	
CH8	Disable			10 s	× 🗹		V	N	_	
				X						
								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.

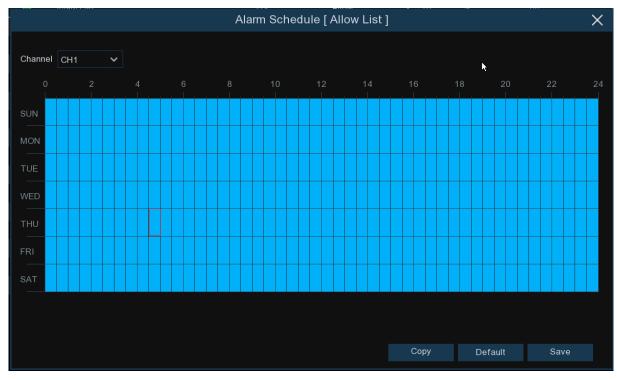
FTP Picture Upload: To upload alarm images to FTP server when an alarm is triggered. To enable FTP, please view <u>5.4.4 FTP</u>.

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>

USER MANUAL

Channel	V L	ocal 1				
Voice Prompts		Alarm-Siren	~	00:00:00	23:59:59	(لې
	Θ	None	~	00:00:00	23:59:59	4 0
	÷	None Dog-Barking danger zone,please leave				
		leave				
		Alarm-Siren				

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



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 Chann		arm Al Netw		Device System								(<u>)</u> 09/		46 🗙
Setup	FR AD													
Recognition							Latch Time		Record ~	Post Recording		Show Message 🗸		
	CH5	Close	×	Disable	×	٢	10 s	~	ON (30 s	×	2		
Statistics	CH6	Close	×	Disable	~	٢	10 s	~	ON	30 s	*		M	

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 (a) 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.

Channel	∠ L	ocal 1				
Voice Prompts		Alarm-Siren	~	00:00:00	23:59:59	
	Θ	None	~	00:00:00	23:59:59	$\langle \varphi \rangle$
	÷	None Dog-Barking danger zone,please leave				
		leave				
		Alarm-Siren				

5.4.3.3 PD & VD (Human & Vehicle Detection)

To configure alarm actions for PD & VD alarms.

Setup Channe	Record Al	arm Al Networ	k D	evice Sys	tem						Θ	16/03/2021 12:09:53 🛛 🗙
♦ Setup		gnition Attribute De		Human &	Vehicle Detection			etection Line Cross	sing De			
Recognition				Alarm Out	Latch Time			Post Recording		Show Message 🗸		FTP Picture Upload 🗸 🛛 F
Alarm	CH1	Disable	~	۲	10 s	~	🚳 ON	30 s	~			

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.

Record Channel 1 2 3 4 5 6 7 8

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

Show Message: Check the box to display "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 5.5.2 Cloud.

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

Channel	2 L	ocal 1				
Voice Prompts		Alarm-Siren	¥	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 7				

5.4.3.4 PID (Perimeter Intrusion Detection)

To configure alarm actions for PID alarms.

🞯 Setup	Channel	Record Ala	rm Al Netwo	ork De	evice System	m						B 09/16/2021 11:12:10	° ×
⊕ Setup			PD & VD PID										
Recognition								Record ~	Post Recording		Show Message 🗸	FTP Picture Upload 🐱	
Alarm		CH5	Disable	~	٥	10 s	×	ON	30 s	×	_	 	
Statistics		CH6	Disable	~	٢	10 s	~	ON	30 s	~	⊻		

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



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.

Channel	V	ocal 🚺				
Voice Prompts		Alarm-Siren	~	00:00:00	23:59:59	
	Θ	None	~	00:00:00	23:59:59	40
	÷	None Dog-Barking danger zone,please leave				
		leave				
		Alarm-Siren				

5.4.3.5 LCD (Line Crossing Detection)

To configure alarm actions for LCD alarms.

🞯 Setup	Channel	Record Ala	rm Al Netwo	rk De	wice Syste	m							09/16/2021 11:12:10	o X
⊕ Setup			PD & VD PID											
Recognition								Record ~	Post Recording		Show Message 🗸		FTP Picture Upload 🐱	
		CH5	Disable	~	٢	10 s	~	ON	30 s	~	Z			
Statistics		CH6	Disable	*	٢	10 s	~	ON	30 s	~		V	V	

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 <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.

Channel	∑ L	ocal 🚹				
Voice Prompts		Alarm-Siren	Ŷ	00:00:00	23:59:59	
	Θ	None	~	00:00:00	23:59:59	$\langle \langle \rangle$
	÷	None Dog-Barking danger zone,please leave				
		leave Alarm-Siren				

5.4.3.6 CC (Cross Counting)

To configure alarm actions for CC alarms.

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

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 <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.

Channel	V L	ocal 🚹				
Voice Prompts		Alarm-Siren	Ŷ	00:00:00	23:59:59	
	Θ	None	~	00:00:00	23:59:59	$\langle 0 \rangle$
	÷	None Dog-Barking danger zone,please leave				
		leave Alarm-Siren				

5.4.3.7 CD (Crowd Density Detection)

To configure alarm actions for CD 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 <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.

Channel	∑ L	ocal 1				
Voice Prompts		Alarm-Siren	~	00:00:00	23:59:59	
	Θ	None	~	00:00:00	23:59:59	40
	÷	None Dog-Barking danger zone,please leave				
		leave				
		Alarm-Siren				

5.4.3.8 QD (Queue Length Detection)

To configure alarm actions for QD alarms.

Setup Chan	inel Record Ala	arm Al Network	Der	vice Syste	m							09/16/2021 12:20:0	5 X
⊕ Setup					QD Queue Length Detection								
Recognition				Alarm Out	Latch Time		Record ~	Post Recording		Show Message 🗸	Send Email 🗸	FTP Picture Upload 🐱	
	CH5	Disable	×	۲	10 s	×	ON	30 s	×	Z	Z		

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 <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.

Channel	∑ L	ocal 1				
Voice Prompts		Alarm-Siren	~	00:00:00	23:59:59	
	Θ	None	~	00:00:00	23:59:59	40
	÷	None Dog-Barking danger zone,please leave				
		leave				
		Alarm-Siren				

5.4.4 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.



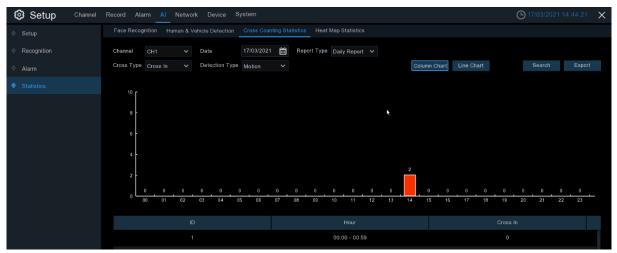
- 1. Choose the detection type in Intelligent.
- 2. Choose the channel(s).
- 3. Select the period from day, week, month, quarter and year.

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)

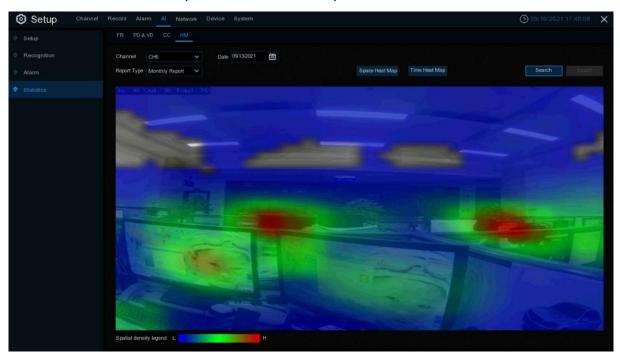
You can check the face recognition statistics in a certain period.



- 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	n			19/03/2021 10:36:26	×
General	General PPPoE	Port Configuration					
• DDNS	WAN			Internal Interface			
Email	DHCP	V					
∲ FTP	IP Address	172.020.031.060		IP Address	010.010.025.100		
IP FILTER	Subnet Mask			Subnet Mask	255.255.000.000		
	Gateway						
	IPv6 Address						
	IPv6 Gateway						
	DNS1	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 PPPoE	Port Configuration	
♥ DDNS	Enable PPPOE		
🕅 Email	User	pppoe	
👳 FTP	Password	•••••	Show Password
	IP Address		
	Subnet Mask		
	Gateway		
	DNS1		
	DNS2	008.008.008	

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

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

5.5.1.3 Port Configuration

Setup Channel	Record Alarm	Al Network	Device Syst	em				
🕏 General	General PPPoE	Port Configura	tion					
DDNS		Service	Protocol	Internal Port	External Port	UPNP Status	Maping Strategy	UPNP
Email		Web	TCP	00080	00080	Inactive	Auto 🗸	~
⊕ FTP		Client	TCP	09000		Inactive	Auto 🗸	
IP FILTER		RTSP	TCP	00554	00554	Inactive	Auto 🗸	×
		Https	TCP	00443		Inactive	Auto 🗸	S
	Instruction:							
	IP Channel: rts	p://IP:Port/chA/B						
	A:01(ch1),02(ch	2)						
	B:0(main stream	n),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		DDNS	;	-				
Email		Serve	er N	10_IP			~	
FTP		Doma	uin c	heng2	02010.ddns.r	net		
		User	1	85030	2199@qq.co)m		
IP FILTER		Passv	word	••••	•••••			Show Password
				Test	DDNS			

DDNS: Check to enable DDNS.

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

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

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

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

5.5.3 Email

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

Setup Channel	Record Alarm	Al Network Device System	() 19/03/2021 10:43:57	×
General General	Email Configuration	n Email Schedule		
• DDNS	Email			
🕏 Email	Encryption			
♦ FTP	SMTP Port			
IP FILTER	SMTP Server			
V IP FILTER	User Name			
	Password			
	Sender			
	Receiver 2			
	Interval	3 Min 👻		

5.5.3.1 Email Configuration

Email Configuration	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 Channel	Record Alarm A	Network Device System	() 19/03/2
🕆 General	Email Configuration	Email Schedule	
• DDNS	Channel CH1		
	0 2	4 6 8 10 12 14 16 18 20 22 24	 Motion
♥ FTP	SUN		
+ IP FILTER			Exception
	TUE		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 N	letwor	k Device	System			
🕆 General			FTP FTP Schedule							
DDNS			FTP Enable			>				
Email			Server IP			172.20.32.2			Test FTP	
			Port			00999				
			User Name			admin				
● IP FILTER		Password				•••••			Show Password	
		Picture Resolution				1280 x 720 🗸				
		Picture Quality Video Stream Type			Higher 🗸 🗸					
					Substream V					
			Max Pack	age Interv	/al	30 Min		~		
			Directory	Name	I	URMET				
			Upload Alarm Video		Motion	PIR Alarm Settings				
					٧o	Intelligent				

FTP Enable: Click to enable FTP function.

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

Port: Enter the FTP port for file exchanges.

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

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

Test FTP: Click to test the FTP settings.

FTP Schedule:



The color codes on email schedule have the following meanings:

Yellow: Slot for Motion detection.

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

Purple: Slot for PIR detection.

Blue: Slot for Intelligent Analysis detection.

5.5.5 IP FILTER

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

Setup Chann	nel Record Alarm Al	Network Device System				(b) 09/17/2021 15:04:52 X
	IP FILTER					
DDNS	V Enable	 Enable Allow List Enable Blo 	ale Lint			
	Chable -	Enable Anow List	UR LIDA			
	Restricted Type	Allow List 🗸 🗸				
	Start Address	192.168.2.99				
	End Address	192.168.2.111				
Voice Assistant		Start Address	End Address	Edit	Delete	
Platform Access		5 ant Address 192.168 2.99	192.168.2.99	Edit		
		192.168.2.99	192.168.2.111			
	Remove IP					
						Default Apply

- 1. If you want to activate this function, check the **Enable** box.
- 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 📅 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	
FTP		
• IP FILTER	Screen stream Substream	~
Voice Assistant		
Platform Access		

5.5.6.1 Voice Assistant with Amazon Fire TV Stick

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

Ama	zon Google				
	User	voiceassist@	-		The user here need to be the account of AWS.
	Bind				
	Screen stream	Substream		*	

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

🕲 Setup 🔤	hannel Record	Alarm	Al Net	work Device	System		
Channel	Live						
Live	Ch	annel	Setup	Covert 🗸	Channel Name	Show Name 🗸	
Image Control	c	CH1	۲		front door	~	М
	c	CH2	۲		office	~	Y
PTZ	c	снз	0		car gate	~	М
Video Cover	c	CH4	۲		Camera k	~	М
A Motion	C	CH5	0		back door	\checkmark	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)	Account & Profile	((c	्र	Applications
Notifications	Settings	Network	Display & Sounds	
Equipment	(A)	Controllers & Bluetooth	O	
Control	Live TV	Devices	Alexa	
CONTRACTOR My Fire TV	Accessibility	? Help		

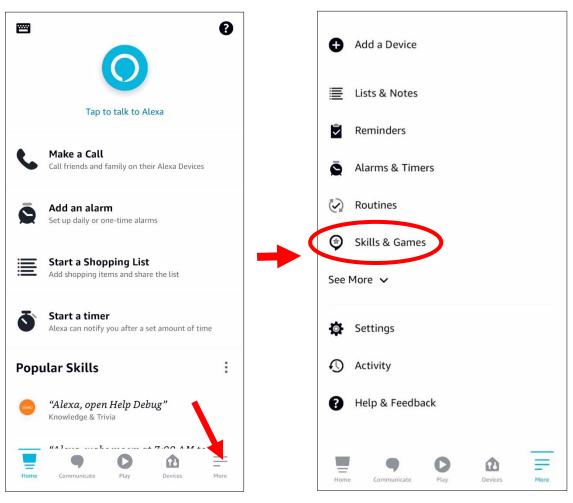
4. To use your existing profile or add a new profile and login your Amazon account which is same as the one you bind to the NVR.

	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	
Securigs	Kids Settings	

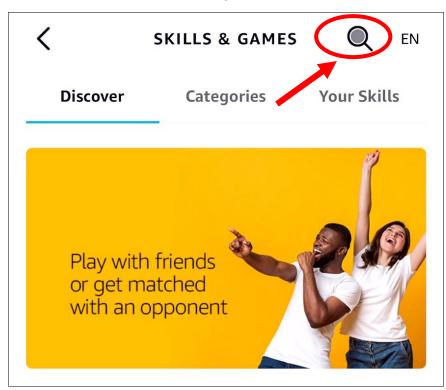
5. Search cand install Amazon Alexa to your mobile phone from app store, and then login with the Amazon account which is same as the one you bind to the NVR.

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

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



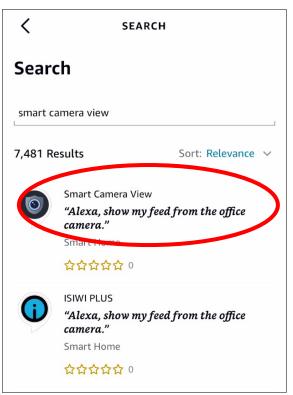
7. Touch the search icon on the right top corner.



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

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

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



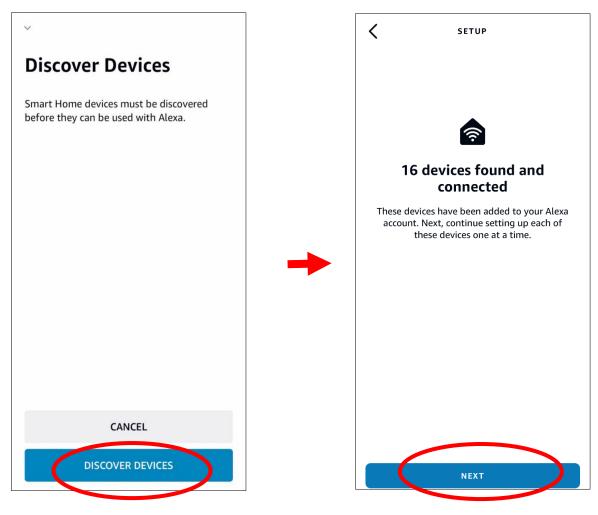
Touch "ENABLE TO USE".



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

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

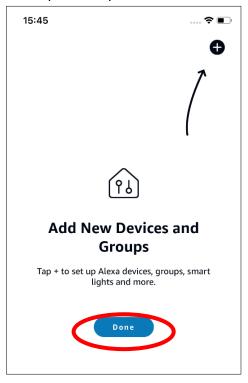
10. Touch "**DISCOVER DEVICES**" and wait a moment for the app to search the cameras. Touch **Next** when the devices were found and connected.



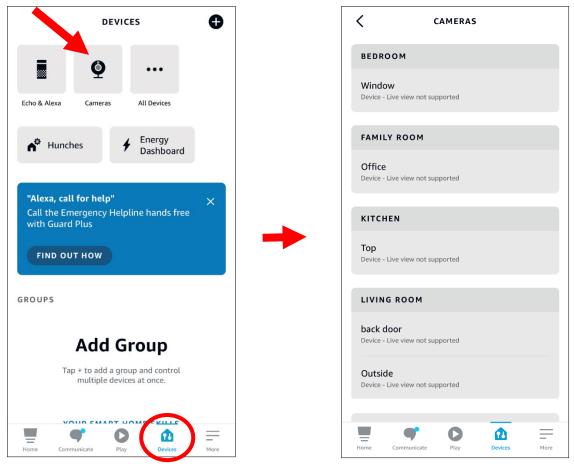
11. Choose one of the devices and then touch **SET UP DVICE**. You can add the camera to a group or skip.

SETUP
Choose which connected device to set up first
You can delete connected devices any time from the device settings page
NEW CONNECTED DEVICES
ch16 ✓
ch13
ch14
ch8
ch9
ch11
SET UP DEVICE

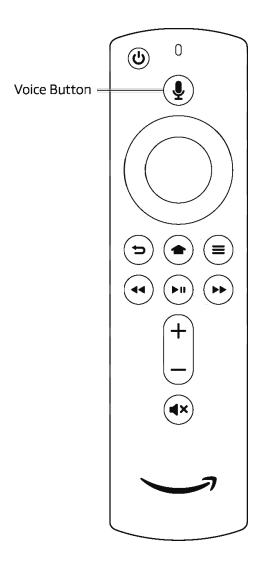
12. Repeat setup 11 to add all cameras and then touch **Done** to finish.



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.

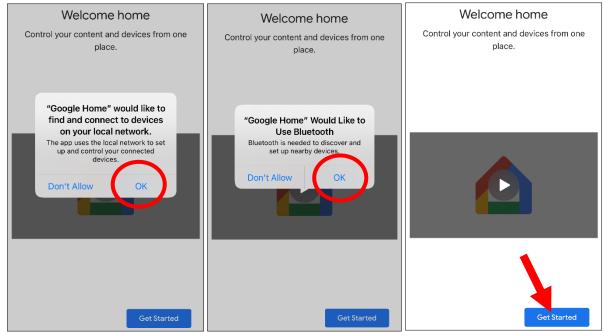
Ę	Setup	Channel	Record	Alarm	Al	Network	Device	System		
Φ	General		Amazo	n Goo	gle					
¢	DDNS			User			@gmail.c	om		The user here need to be the
Φ	Email			Bind	k					
Φ	FTP									
¢	IP FILTER			Screen sti	ream	Substrea	m		~	
•	Voice Assistant									

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

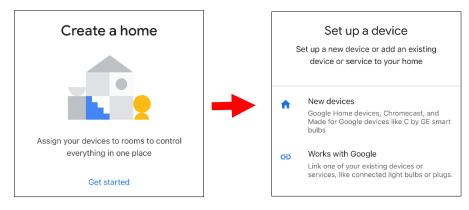
🞯 Setup	Channel	Record Alarn	n Al Ne	twork Device	e System		
Channel		Live					
Live		Channel	Setup	Covert 🗸	Channel Name	Show Name 🗸	
Image Control		CH1	۲		front door	~	М
		CH2	٢		office	~	Y
PTZ		СНЗ	۲		car gate	\checkmark	М
Video Cover		CH4	6)		Camera		М

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".

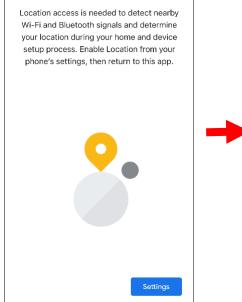


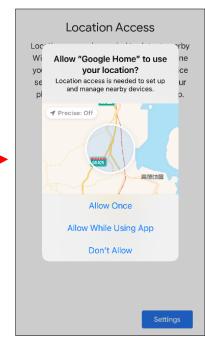
Input the Home nickname and address and then touch "Next".

		<	Home address	•••
Home nickname & address		Your home a like direction	address will be used for t ns.	hings
Your home nickname helps you identify your home. The address will be used for things like directions.		United	States (US)	Ŧ
		Address line	e 1	
Home nickname				
Mike's Home		Address line	e 2	
11 / 20				
Home address		City		
		State	✓ ZIP code	(j)
Next		Skip		Next
	J			

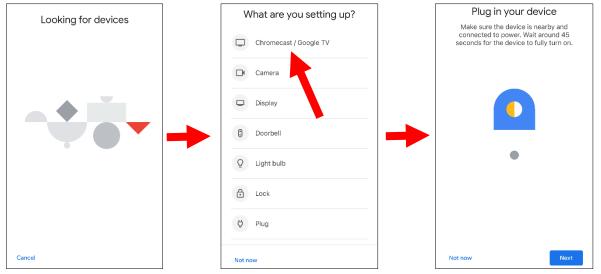
To allow location access for the app.

Location Access





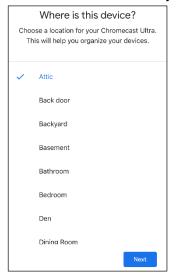
7. The app will automatically try to search devices from your local network. Choose Chromecast / Google TV. Make sure your Chromecast is turned on already, then touch **Next**.



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.



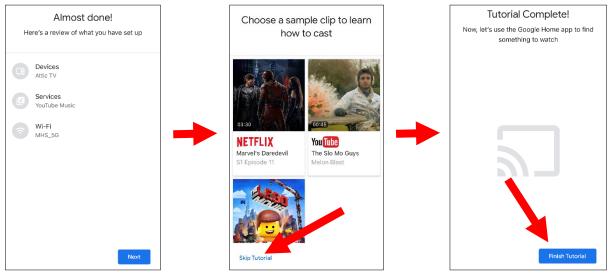
10. Choose the Wi-Fi network for your Chromecast and input the Wi-Fi password to connect. Make sure the Wi-Fi you choose is the same one with your mobile phone and is in the same local network with your NVR. Touch **Continue** to next step.



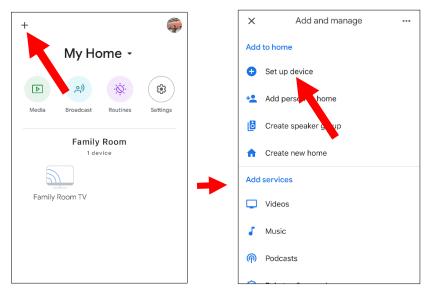
11. Touch No Thanks or Sign Up to login your google account.



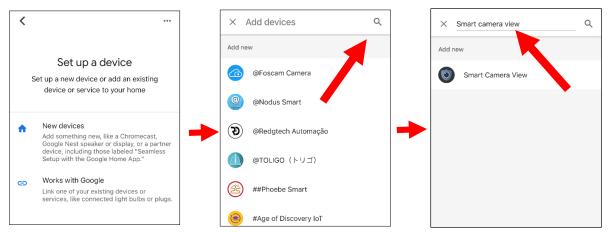
Touch Next and Skip and finish the tutorial.



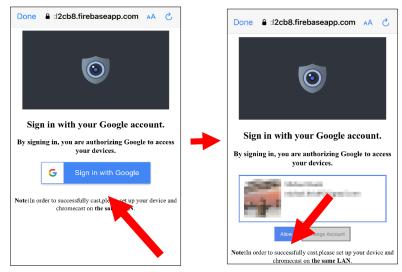
12. Now the Chromecast has been added to your Google Home. Touch the + icon on the left top corner. Indoor, then choose **Set up device**.



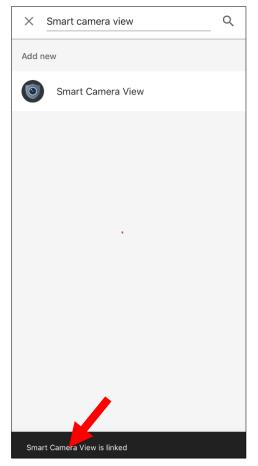
Choose **"Work with Google**", touch the search icon on the right top corner and then input "smart camera view".



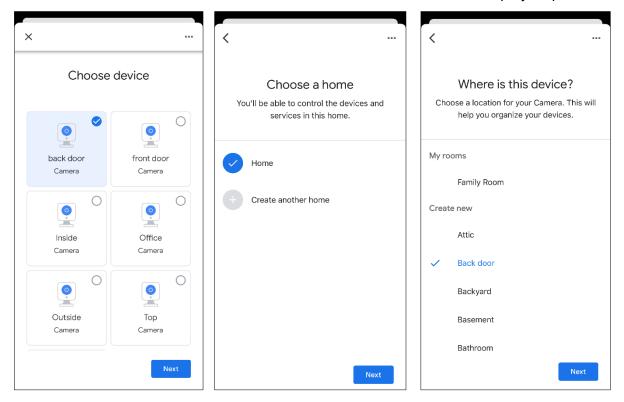
Touch on "**Smart Camera View**" in the search result. You would need to sign in your google account and allow the Google to access to your device.



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							
`							
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.

•:			4
	Play office c	amera on Mike	e TV
OK, strear	ning Office o	n Mike TV.	
G Searc	h Show b	ack door	Show Ins
ž	Ð 🍦		Ø

5.5.7 Platform Access

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

Setup Channel	Record Alarm Al Netwo	ork Device System	
Interval General	Onvif		
• DDNS	Server		k
🕀 Email	Enable	✓	
⊕ FTP	Authentication	Digest/WSSE	~
	Protocol	нттр	~
IP FILTER	User Name	root	
Platform Access	Password	•••••	Show Password

Enable: Check to enable this function.

Authentication: Login authentication type, options including Digest_sha256, Digest, Digest/WSSE, WSSE and None. Choose one of them to match to your 3rd party platform. **Protocol:** Choose http, https or both of them.

User Name: To set a user name for platform connection.

Password: To set a password for platform connection.

Note: Only data from channel 1 can be transferred to the 3rd 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.T								
	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	
Overwrite Au	ito 🗸	Format HDD	Add NetHDD						
Au									
								Default	Apply

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

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

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

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

	HDD	>	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 Device Sys	tem						() 19/03/2021 10:44:56	×
• Disk	Disk S.M.A.	R.T								
♦ Cloud	HDD ID: Self-check State TEMP(°C): Whole Evaluatio			Self-check Utility Time Check						
	S.M.A.R.T. Inf	fo:								
		Attribute Name	Status	Flags	Value	Worst	Threshold	Raw Value		
	0x1	Raw Read Error Rate			200	200				
	0x3	Spin Up Time				188		3458		
	0x4	Start Stop Count	OK		100	100		604		
	0x5	Reallocated Sector Ct								
	0x7	Seek Error Rate	OK		200	200				
	0x9	Power On Hours								
	Oxa	Spin Retry Count	ОК		100	100				
	0xb	Calibration Retry Count								
	Oxc	Power Cycle Count	OK		100	100		576		
		Power-Off Retract Count								
	0xc1	Load Cycle Count	ОК		200	200				
		Temperature Celsius								
	0xc4	Reallocated Event Count	ОК		200	200				
	0xc5	Current Pending Sector								
	0xc6	Offline Uncorrectable	OK		100	253				
	0xc7	UDMA CRC Error Count								
	0xc8	Multi Zone Error Rate			100					

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

Self-check Type: There are three types available:

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

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

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

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

5.6.2 Cloud

Cloud function allows to upload pictures and videos to your cloud storage. It supports Dropbox and Google Drive storage now.

🞯 Setup	Channel	Record	Alarm	AI	Network	Device	System		
🔮 Disk		Cloud							
Cloud		CI	oud Stora	ge	>				
		CI	oud Type		DROPBOX			~	Activate Cloud
		CI	oud Statu:	6	Activated				
		Ca	apacity			1	5%		325.31MB/2.00GB
		CI	oud Overv	vrite	Auto			~	
		Vi	deo Type		MP4			~	
			Chann	iel		Folde	r Name		
			CH1		c	汨1安联			
			CH2		c	H2			

Cloud Type: To choose Dropbox or Google Drive.

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

Video Type: To choose the video format you want to upload.

Take Dropbox as example:

- 1. Check Cloud Storage to enable the function.
- 2. Choose Dropbox from **Cloud Type**.
- 3. Set the **Overwrite**.
- 4. Choose the Video Type.
- 5. Define the folder name for each channel.
- 6. Click the Activate Cloud button, the system will send an activation letter to your receiver email box which you have set in the Email Setup page.

Activate Cloud	×
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
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**.

IP Address 172.16.3.90	PC is on the sa address of the	ame network as the	r this device. Please make sure the e device and enter the local IP IP address can be found in the tings.
			172 16 2 00
Port [13181]			
Authorize			Authorize

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

User Authentication								
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
name 1
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 D	Device System	
🕈 General	General Date and Time Output C	Configuration	
Multi-User	Device Name	N7708	
Maintenance	Device ID	000000	
IP Camera Maintain	Language	ENGLISH ¥	
Information	Video Format	PAL Y	
	Menu Timeouts	OFF 🗸	
	Web Session Timeout (min)	1440	✓ Preview/Playback Session Timeout
	🔽 Show wizard		

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

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

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

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

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

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

5.7.1.2 Date and Time

Setup Channel	Record Alarm Al Network	Device System			
🕏 General	General Date and Time Out	put Configuration			
⊕ Multi-User	Date and Time				
Maintenance	Date	19/03/2021	iii		
👳 IP Camera Maintain	Time	10:45:20			
Information	Date Format	DD/MM/YYYY	~		
♥ Information	Time Format	24Hour	~		
	Time Zone	GMT+08:00	~		
	NTP Settings				
	Enable NTP	N			
	Server Address	pool.ntp.org	~		
		Update Now			
	DST Settings				
	Enable DST	V			
	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	∽		
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 ~ 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 Ne	twork Device System		
🕈 General	General Date and Time	Output Configuration		
Multi-User	Video Output	LIVE-OUT	~	
Maintenance	Seq Mode	Layout1	~	
👳 IP Camera Maintain	SEQ Dwell Time			
Information	VGA/HDMI Resolution	1080P(1920x1080)	~	✓ Automatic recognition
	Scale And Offset	Setup		
	Cursor Hidden Delay	5s	~	
	Cursor Acceleration	•		
	Transparency	•		

Video Output: To choose the output options:

SEQ Mode: To choose the display layout when you display the live view cameras in sequence.

SEQ Dwell Time: Set the sequency dwell time.

VGA/HDMI Resolution: Set the VGA/HDMI output resolution. Check Automatic

recognition will automatically set the resolution compatible with the monitor you connect when the DVR boots.

Scale and Offset: To set the image scale and offset. Click Setup button to configure.



Cursor Hidden Delay: To set how long the mouse cursor will be hidden if there is no operation with it.

Cursor Acceleration: To set the moving sensitivity of the mouse.

Transparency: To set the GUI display transparency.

5.7.2 Multi-user

Setup Channel	Record Alarm	Al Network	Device Syste	m			
🕆 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		٢	
Information		user3	USER3	Disable			
		user4	USER4	Disable		0	
		user5	USER5	Disable		0	
		user6	USER6	Disable		0	
	Default User	admin	~				

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

The system supports the following account types:

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

5.7.2.1 Changing Password

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

5	ι	Jser Edit		×
Level	USER1			
User Enable	Enable	~		
User Name Password Strength	user1			
Password Confirm	•••••			
		Default	Save	Cancel
		Deraun	Save	Cancer

	Authentication					
User						
Password			Show	w Password		
			Authe	enticate	Cancel	
			- Adding	ornitocito		

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	F	0	
6	user5	USER5	Disable	Disable		٢	
7	user6	USER6	Disable	Disable	F	0	
Default User ad	lmin 🔹	1					

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

		User Edit		×
Level	USER1			
User Enable	Enable	~	*	
User Name	user1			
Password Enable	Enable	Ŷ	•	
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	Permistion
1	admin	ADMIN	Enable	Enable		
2	user1	USER1	Enable	Enable		0
3	user2	USER2	Disable	Disable		۲
4	user3	USER3	Disable	Disable		۲
5	user4	USER4	Disable	Disable		۲
6	user5	USER5	Disable	Disable		Ô
7	user6	USER6	Disable	Disable	P	۲
Default User ac	dmin	*				

1. Click the edit icon 🙆 under Permission tab.

		User Permi	ssion		×	C
User Name	user1					
✓ Log Search	<mark> P</mark> arameter	Solution	Auto Reboot	<mark> </mark> Mar	ual Record	
<mark> </mark> Disk	<mark> R</mark> emote Log	in 🔽	SEQ Control	<mark> </mark> Mar	ual Capture	
🖌 Audio	<mark> V</mark> Database Ma	anagement				
<mark> S</mark> ackup						
🗸 IP Camera 1 2 3 4	45678					
N live						
🔽 Live						
✓ IP Camera 1 2 3 4	45678					
🔽 Playback						
✓ IP Camera 1 2 3 4	45678					
		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 A	larm Al Netv	vork Device System				C	9 19/03/2021 10:45:52	×
Ø General	Log Lo		ade Parameter Manageme						
Ø Multi-User	Start Date	19/03/2021		苗 Start Time	00:00:00				
Maintenance	End Date	19/03/2021		🛗 End Time	23:59:59	······			
IP Camera Maintain	Log Type	All				Search			
		Тур					Playback		
Information		Syste	m 19/03/	2021 00:08:10	NTP				
		Alarr	n 19/03/	/2021 00:23:01	Motion Start				
	CH2	Alarr	n 19/03/	2021 00:23:01	VT Start	Yes			
		Alarr		2021 00:23:28	Motion End				
	CH2	Alarr	n 19/03/	2021 00:23:28	VT End	Yes			
		Alarr	n 19/03/	/2021 00:23:41	Motion Start				
		Alarr	n 19/03/	2021 00:24:08	Motion End	Yes			
		Alarr	n 19/03/	2021 00:28:24	Motion Start				
		Alarr	n 19/03/	2021 00:28:51	Motion End	Yes			
		Alarr		2021 01:26:01	Motion Start	Yes			
	CH2	Alarr	n 19/03/	2021 01:26:28	Motion End	Yes			
		Alarr	n 19/03	/2021 07:35:57	Motion Start	Yes			
	CH2	Alarr	n 19/03	/2021 07:35:57	VT Start				
		Alarr		2021 07:36:20	Motion Start	Yes	Ð		
							F1		
								Back	

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	Upgrade	Parameter Management Au	to Reboot				
Start Date	19/03/2021		.	Start Time	00:00:00			
End Date	19/03/2021		凿	End Time	23:59:59			
Log Type	All					Search		
Channel		Туре	TIME		CON.	RECORD	Playback	
		System	19/03/2021 00	0:08:10	NTP			
CH2		Alarm	19/03/2021 00	0:23:01	Motion Start	Yes		
CH2		Alarm	19/03/2021 00	0:23:01	VT Start	Yes		
CH2		Alarm	19/03/2021 00):23:28	Motion End	Yes		
CH2		Alarm	19/03/2021 00):23:28	VT End	Yes		
CH2		Alarm	19/03/2021 00):23:41	Motion Start	Yes		
CH2		Alarm	19/03/2021 00):24:08	Motion End	Yes		
CH1		Alarm	19/03/2021 00):28:24	Motion Start	Yes		
CH1		Alarm	19/03/2021 00):28:51	Motion End	Yes		
CH2		Alarm	19/03/2021 01	1:26:01	Motion Start	Yes		
CH2		Alarm	19/03/2021 0 [/]	1:26:28	Motion End	Yes		
CH2		Alarm	19/03/2021 03	7:35:57	Motion Start	Yes	:•:	
CH2		Alarm	19/03/2021 0	7:35:57	VT Start	Yes		
CH1		Alarm	19/03/2021 07	7:36:20	Motion Start	Yes		
<u>с</u> цэ			10/03/2021 0	7-26-24	Motion End		I:	
								< < 1 /20 > >
								Backup

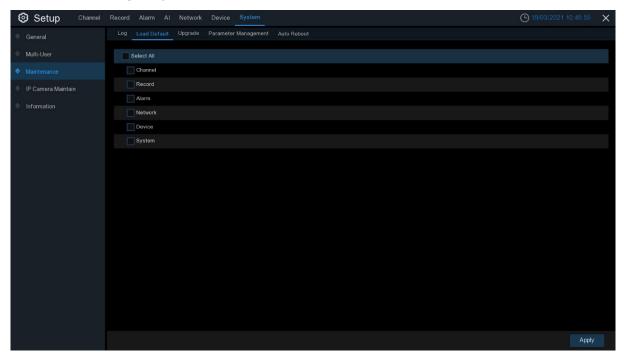
Log Searching and Backing Up:

- 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 Netwo	rk Device System			19/03/2021 10:46:12
General	Log Load Default Upgrad	Parameter Management Auto Reboot			
Multi-User	Select File			∢ ▶ Upgrade	
	Select The	Update		X	
IP Camera Maintain					
	Driver List: C				
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	
		cross_in_daily_report_ch1_20210316.csv	643.000B	16/03/2021 11:18:08	
		face-attendance-20210317-20210317-192643	204.000B	17/03/2021 11:26:42	
		face_statistics_20210316_000000_20210316_	3.063KB	16/03/2021 11:17:36	
		faces-2020_01_07-10_18_50.db	6.566MB	07/01/2020 10:18:54	
		Faces-2021_03_17-14_41_37.db	160.000KB	17/03/2021 06:41:36	
		Location: usb1-1			
	Remain:/Total: 13.805GB/14.431GE	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 A	l Network	Device	System	
General		Log	Load Default	Upgrade	Parameter	Management	Auto Reboot
Multi-User			Save	Settings	Lo	ad Settings	
Maintenance							
IP Camera Mainta	ain						
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.

Ę	Setup	Channel	Record	Alarm	Al	Network	Device	System	
¢	General		Log	Load Def	ault	Upgrade	Parameter	^r Management	Auto Reboot
¢	Multi-User		Au	to Reboot	>				
۲	Maintenance		Tir	ne	Eve	ery Week			~
\oplus	IP Camera Maintain				Sun	L: \			~
0	1-F				00:0	00			
×.	Information								

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
\vartheta IP Camera Maintain	
Information	Export Log Delete Log
	Expertedy Editoric Log

Telnet: Only enable it when the after sales professionals require to do. **Collect logs:** Only enable it when the after sales professionals require to do. **Export Log:** To export the system logs to your USB memory.

Delete Log: Delete the saved system logs.

5.7.4 IP Camera Maintain

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

🞯 Setup	Channel I	Record Alarm Al	Network Device	System				() 19/
🔶 General		Upgrade Load Defai	ult Reboot IPC Par	ameter Management				
Ø Multi-User			Channel	IP Address	State	Software Version	Upgrade	
Maintenance			CH1	172.20.31.73	On-line	V21.45.7.0_210305		
IP Camera Maintai			CH2	172.20.31.24	On-line	V12.45.7.0_201028		
• In Content Mainton								
Information								

5.7.4.1 Upgrade IP Camera

Setup Channel	Record Alarm Al	Network Device System			
🕆 General	Upgrade Load Defa	ault Reboot IPC Parameter Manag	gement		
Multi-User		Channel IP Ad	dress State	Software Version	Upgrade
© Maintenance		CH1 172.20	0.31.73 On-line	V21.45.7.0_210305	
Maintonanoo		CH2 172.20	.31.24 On-line	V12.45.7.0_201028	
lnformation					
Setup Channel Re	ecord Alarm Al Netwo	rk Device System			() 19/03/2021 10:46:4
General	Upgrade Load Default Re	boot IPC Parameter Management			
Multi-User		Select an upgr	ade file for IPC	×	
Maintenance	Driver List: 😋			≣ < ← ≩ 前	
		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 CH01-20210318-000416-000457-00	10000000 19.851MB	18/03/2021 11:11:02	
		E CH04-20210318-163337-163413-00	30000000 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-20210317-2021031	7-192643 204.000B	17/03/2021 11:26:42	
	St	face_statistics_20210316_000000_2	0210316_ 3.063KB	16/03/2021 11:17:36	rade
		faces-2020_01_07-10_18_50.db	6.566MB	07/01/2020 10:18:54	
		faces-2021_03_17-14_41_37.db	160.000KB	17/03/2021 06:41:36	
	Remain:/Total:	Location: usb1-1			
		Selected File:		< ▶	
	13.759GB/14.431GB				

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 Defa	IIt Reboot IPC Para	imeter Management			
Multi-User		Channel	IP Address	State	Software Version	
Maintenance		CH1	172.20.31.73	On-line	V21.45.7.0_210305	
IP Camera Maintain		CH2	172.20.31.24	On-line	V12.45.7.0_201028	
 Information 	Load Default					

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			() 19/03/2021 10:46:5	7 ×
Interval General	Upgrade Load Defau	It Reboot IPC Par	ameter Management				
Multi-User		Channel	IP Address		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							
		-					
	Reboot IPC						

To reboot the IP camera you select.

Setup Channel	Record Alarm Al	Network Device	System		
🗇 General	Upgrade Load Defau	t 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
IP Camera Maintain		CH2	172.20.31.24	On-line	V12.45.7.0_201028
Information					
	Save Settings	Load Settings			

5.7.4.4 Parameter Management

Select the IP camera, click **Save Settings** to export its setting values to your USB memory. Select the IP camera, click **Load Settings** to import setting values from your USB memory.

5.7.5 System Information

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

5.7.5.1 Information

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

Setup Channel	Record Alarm Al Network	Device System
🔶 General	Information Channel Information	Record Info Network State
Multi-User	Device ID	000000
Ø Maintenance	Device Name	N7708
👳 IP Camera Maintain	Device Type	N7708
• Information	Hardware Version	DM-443
• momation	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	Setup Channel Record Alarm Al Network Device System								() 19/03/2021 10:47:12	×
General General	General Information Channel Information Record Info Network State									
Multi-User			Record Switch	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 I	Device System	O 19/03/2021 10:47:1
General		Record Info Network State	
Multi-User		Value	
	WAN		
Maintenance	IP Address	172.20.31.60	
IP Camera Maintain	Subnet Mask	255.255.255.0	
	Gateway	172.20.31.1	
	MAC Address	88-43-88-67-C4-C9	
	IPv6 Address	fe80::8a43:88ff:fe67:c4c9 / 64	
	IPv6 Gateway	fe80::/64	
		Enable	
	Internal Interface	Connected	
	IP Address		
	Subnet Mask	255.255.0.0	
	DNS1		
	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.

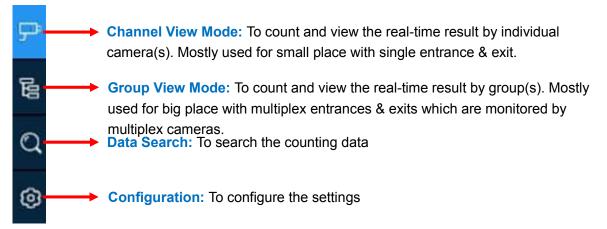


5.8.1 Cross Counting

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.



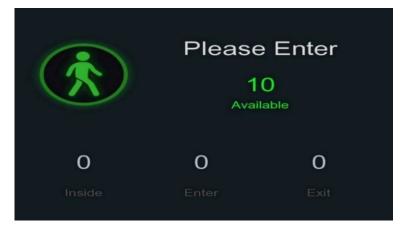
If the available number is more than 0, the carton figure will be in green color.



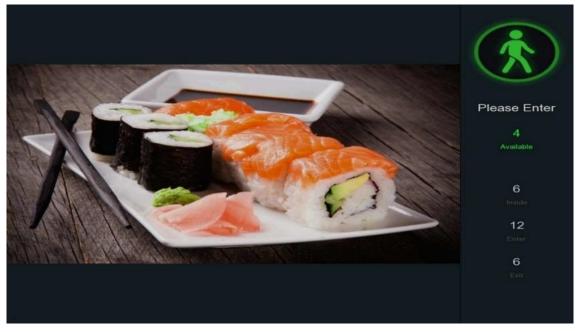
If the available number is 0, the carton figure will be in red color.

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.

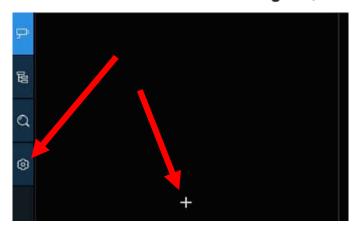
Channel	Туре	12:00	13:00	14:00	15:00	16:00	17:00
	Enter	6	11	12	1	0	o
CH2	Exit	9	11	12	1	o	o
	Inside	0	0	0	o	0	0
	Enter						
снз	Exit						
	Inside						
	Enter	47	27	36	8	0	13
CH5	Exit	26	13	16	з	o	9
	Inside	100	114	134	139	139	143
	Enter	0	0	o	o	0	0
CH6	Exit	0	o	o	o	o	o
	Inside	0	o	o	0	o	o

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.

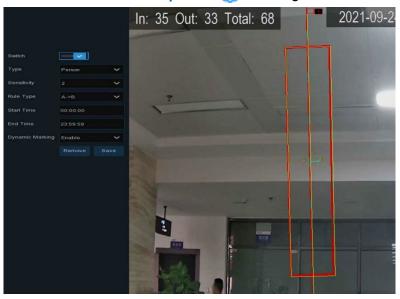


2. To enable the channel(s) you want to realize the counting function in the **Channel** list. The Setup & Alarm icon 💿 will be in blue color if the camera in that channel supports Al function; on the contrary if the camera doesn't support Al function, the icon 💿 will be in grey color.

م	Image Configratio	on									
睧	Advertise Mode Keep Aspect Ratio 🖬 Describe: Set the advertising picture, is strict-had writting picture is strict-had or not, and the advertising picture is strict-had										
٩	SEQ Dwell Time 3										
۲	Channel										
	Channel	Enabl			Capacity	Setup		Alarm			
					10	۲		۲			
	CH2				10	۲		۲			
	СНЗ				10	0		0			
			1		10						
		2	1		10						
		C			10						
					10						
					10						
	Group										
	Group Add	d IP Camera	Enable		Capacity	Start Time		Туре			
	Group 1	₽.			10	00:00:00	23:59:59	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 (a) 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.

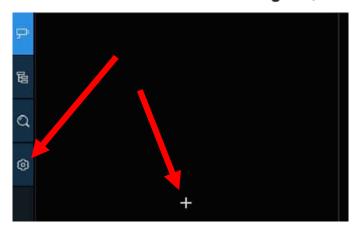
Latch Time: To configure the external alarm time when the Available number is 0.

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 O to get to the configuration page.



2. Click the Add IP Camera icon 🖓 to add channel(s) to the group. Max. 8 groups can be set, but each one channel can be added to 1 group only. If a channel is enabled in the Channel View mode, it will be not allowed to add to any group.

Group							
Group	Add IP Camer	Enable 🗸	Capacity	Start Time	End Time	Туре 🗸	Alarm
Group 1		2	50	00:00:00	23:59:59	Persc 🗸	۲
Group 2	P	2	10	00:00:00	23:59:59	Persc 🛩	
Group 3	P	2	10	00:00:00	23:59:59	Persc 🛩	۲
Group 4	P	2	10	00:00:00	23:59:59	Persc 🗸	
Group 5	P		10	00:00:00	23:59:59	Persc 🗸	۲
Group 6	P		10	00:00:00	23:59:59	Persc 🗸	
Group 7	P		10	00:00:00	23:59:59	Persc 🛩	۲
Group 8			10	00:00:00	23:59:59	Persc 🗸	Ø

- 3. Check the Enable box to activate the group.
- 4. Set the **Capacity** number, **Start Time**, **End Time** of each group.
- 5. Choose the detection target **Type** from **Person**, **Vehicle** and **Motion**.
- 6. Click one of the Alarm icons (a) to configure the alarm actions when the Available number is 0.

Chr	Chnanel 2							
Buzzer	Disable	~						
Alarm Out								
Latch Time	10 s	~						

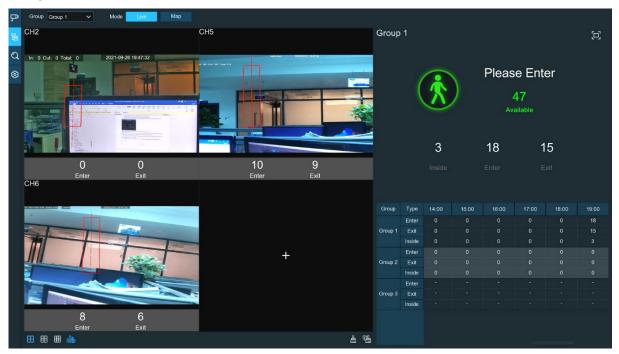
Buzzer: Set the buzzer duration in seconds when the Available number is 0.

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.

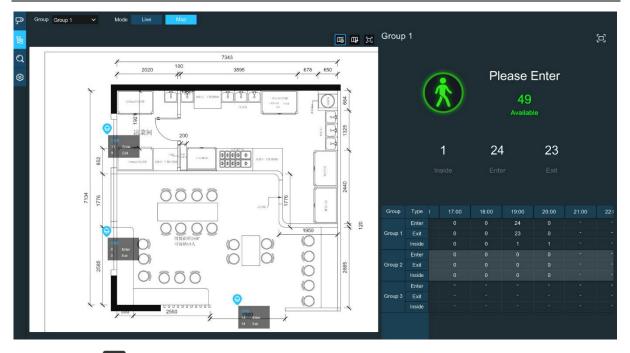


9. You can choose which group you want to view the real-time live images and counting data.



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
Б	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



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 Configr	ration	
001	Advertise Mode	Keep Aspect Ratio	
Q	SEQ Dwell Time 3	Image	
0	Channel		

- 5. Set the SEQ Dwell Time in seconds which will decide how long each picture will stay in the screen.
- 6. Click **Apply** button to save your settings.

7. Go back to Channel View mode or Group View mode, click the full screen button [] on the right upper corner to display your advertising pictures and the real-time counting data for the selected channel(s) or group(s).



5.8.1.4 Search Counting Data

1. Click the **Search** icon \bigcirc to search the counting data.



2. It is allowed to search separately for Channels and Groups. Choose the channel(s) or group(s) you want to search, set the search duration by day, by week, by month or by year and choose the target type you want to search. Click the search icon \mathbb{Q} , the result will be displayed on the right of the window.



5.8.2 Face Attendance

Face Attendance is an AI application based on Face Detection. You're able to view and check the real-time statistical data of attendance management visually.



- 1. Custom title.
- 2. Overall attendance statistical data of all selected groups.

3. Individual attendance statistical data of each selected group.

R The total number of people who need to check attendance

R The number of people who have checked attendance already

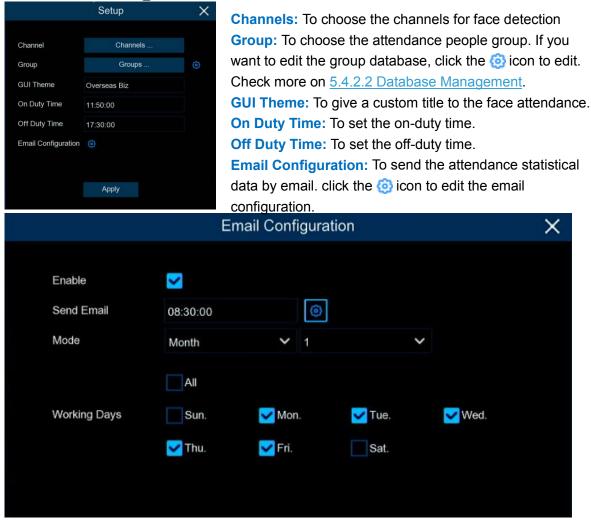
 \mathbb{A} The number of people who haven't checked attendance.

4. Live view screen: to display the live camera images. Click the screen split icons , , , , H

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, 11 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 of 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 (icon to configure your email configuration. Check more on <u>5.5.3.1 Email</u> <u>Configuration</u>.

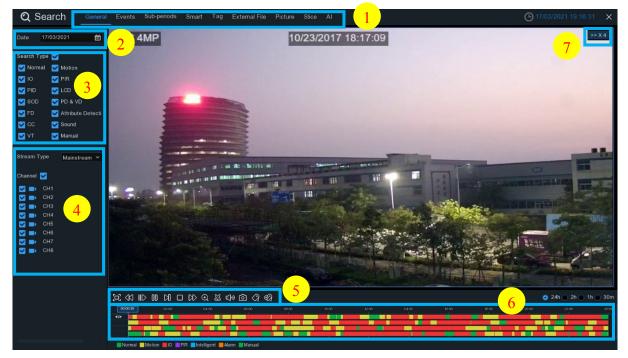
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Chapter 6 Search, Playback & Backup

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.

- Enlarge the video playback to full screen
- Rewind, x2, x4, x8 and x16
- II▷ Slow Play, 1/2, 1/4 and 1/8, 1/16 speed
- Play
- Pause
- Play frame by frame. Click once to play a frame of the video

- Stop
- ▷ Fast Forward, x2, x4, x8 and x16
- Digital Zoom: Click to zoom in then click-and-drag on a camera image during playback to zoom in on the selected area. Right-click to return to regular playback.
- Video Clip. Quickly save a section of video to a USB flash drive. View more on <u>6.1.1.1</u> <u>Video Clip Backup</u>
- Save Video Clip.
- IN Volume Control: scroll the slider bar to increase or decrease volume.
- Snapshots: to capture a snapshot image to your USB flash drive. If the video playback is in split-screen view, move the mouse cursor to the channel you want to capture, and then click the o icon to save the snapshot.
- 6. **Timeline:** Continuous recordings are shown with colored bars to represent different types of recording (legend shown in the bottom-right corner of the display). Use the

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

Different types of recording shown in different colors:

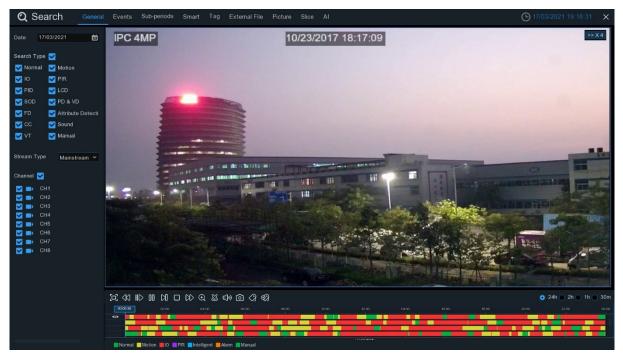
📕 Normal 🔚 Motion 📕 IO 📕 PIR 📕 Intelligent 📕 Alarm 📕 Manual

Continuous Recording in Green color; Motion Recording in Yellow color; I/O Recording in Red color; PIR Recording in Purple color; Intelligent Recording in Blue color; Motion & I/O Recording in Orange color; Manual Recording in Green color;

7. Playback Status: display the video play status.

6.2 Search & Play Video in General

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



- 1. Select a date to search for video recording from the calendar.
- 2. Choose a search type.
- 3. Check channels you would like to search, or check **Channel** to search all connected channels.
- 4. The search result will display on the timeline from 00:00 to 24:00.
- 5. Click \triangleright button to start playback.
- 6. Control the playback with buttons on Video Playback Controls.
- 7. Use the timeframe options \circ 24h \circ 2h \circ 1h \circ 30m to view a smaller or larger time period.
- If you want to quickly save a section of video during playing back to a USB flash drive, use the Solution 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

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00:00	00 00:11:33 00:15		00:30	00:35
2				
V				
2				
⊙ ☑				
			10/23/2017	

1. Insert your USB flash drive to the NVR.

2. Start a video recording playback.

- 3. Click 💥 icon.
- 4. Check the channel(s) you want to make a video clip backup.
- 5. Move the mouse cursor to the timeline where you want to start the video clip.
- 6. Press and hold the left button of your mouse, and drag the drag the cursor to the timeline where you want to end the video clip.
- 7. The \bigotimes icon has been changed to \square icon, click \square to save the video clip.
- 8. Select a file type for your backup files, click **Save** button to save the video clips. Please make sure your USB driver has enough space to save the video clips.

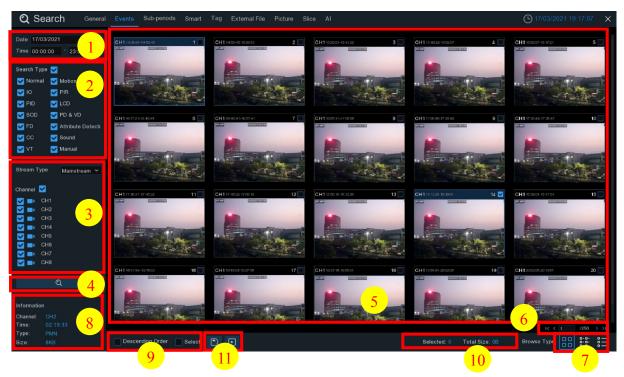
	Васкир Туре 🛛 🗙							
• RF	O AVI	● MP4						
Channel:	CH1,							
Size:	20.449MB							
Start Time:	: 00:04:16							
End Time:	e: 00:04:57							
	Save	Cancel						

- 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		×							
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		- 22		17/03/2021 10:07:02							
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		EH04-20210318-163337-163413-003000000	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							
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14.104GB/14.43	31GB	Selected Directory: usb1-1		< ▶							
Format		1/1		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 $|| \langle | \langle | | \rangle || \rangle$ 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 Gener	al Events Sub-perio	ods Smart Tag	External File Picture	Slice Al			(b) 18/03	/2021 19:09:44 🛛 🗙
Date 18/03/2021	1 CH1 00:00:01 9 CH1 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
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	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	46 CH1 06:16:42	47 CH1 06:25:10	48 CH1 06:33:38
🔽 IO 🛛 🔽 PIR	49 CH1 06:42:07	50 CH1 06:50:35 58 CH1 07:49:40	51 CH1 06:59:04 59 CH1 07:58:08	52 CH1 07:07:32 60 CH1 08:06:01	53 CH1 07:16:00	54 CH1 07:24:29 62 CH1 08:07:01	55 CH1 07:31:43 63 CH1 08:09:27	56 CH1 07:32:43
V PID V LCD	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	70 CH1 08:17:17	71 CH1 08:17:57	72 CH1 08:20:48
FD Attribute Detecti	73 CH1 08:21:18	74 CH1 08:22:08	75 CH1 08:24:58 83 CH1 08:55:27	76 CH1 08:25:30 84 CH1 09:03:56	77 CH1 08:26:30	78 CH1 08:27:06	79 CH1 08:28:20 87 CH1 09:16:38	80 CH1 08:30:02
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 09:32:47 106 CH1 09:52:34	99 CH1 09:34:49 107 CH1 10:27:17	100 CH1 09:36:31 108 CH1 10:27:44	101 CH1 09:40:22 109 CH1 10:29:36	102 CH1 09:44:32	103 CH1 09:44:46	104 CH1 09:46:06
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	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 11:38:41 153 CH1 11:49:30	146 CH1 11:39:55	147 CH1 11:40:33 155 CH1 11:57:52	148 CH1 11:41:28 156 CH1 11:58:50	149 CH1 11:44:10	150 CH1 11:44:54	151 CH1 11:47:14 59 CH1 12:07:28	152 CH1 11:47:44
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✓ Щ СН5 ✓ Щ СН6	177 CH1 12:22:58	178 CH1 12:23:32	179 CH1 12:24:02	180 CH1 12:29:22	181 CH1 12:36:22	182 CH1 12:37:02	183 CH1 12:37:36	184 CH1 12:46:04
CH7	185 CH1 12:47:52 193 CH1 12:54:19	186 CH1 12:48:22 194 CH1 12:55:07	187 CH1 12:49:06 195 CH1 12:56:45	188 CH1 12:49:48	189 CH1 12:50:18 197 CH1 13:00:57	190 CH1 12:51:21	191 CH1 12:52:07	192 CH1 12:53:45
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Q	209 CH1 13:11:31	210 CH1 13:15:28 218 CH1 13:23:30	211 CH1 13:16:22 219 CH1 13:24:40	212 CH1 13:17:16 220 CH1 13:24:58	213 CH1 13:17:22 221 CH1 13:26:12	214 CH1 13:19:18	215 CH1 13:20:06 223 CH1 13:38:01	216 CH1 13:22:10 224 CH1 13:41:09
Information	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
Channel: CH1 Time: 00:00:01-00:03:51	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
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Detailed view. You can view the details of the events.

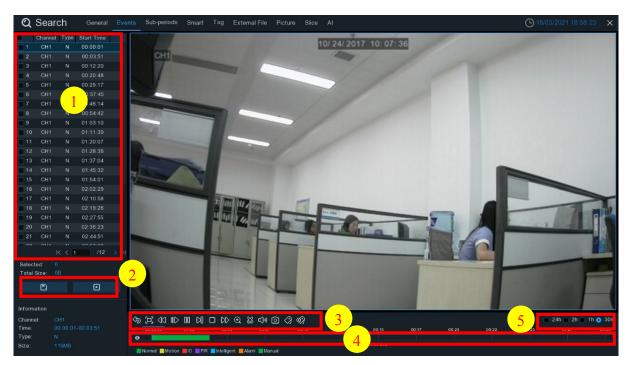
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	16	CH1		18/03/2021	02:02:29	02:10:58	254MB	Þ	6

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 ticon 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.

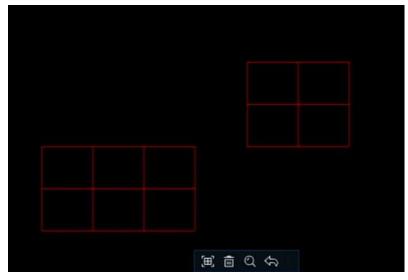
: select whole image.

: clear your selection.

⇐ 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

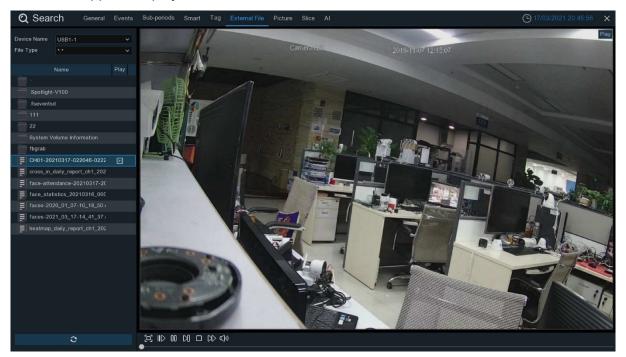
You can search, play and manage the contents with tags you added in live view and/or playback.

			Tag Name	Channel	Date	Time	Playback
Start Time		1	Tag	CH4	09/18/2021	00:30:27	•
09/18/2021		2	Tag	CH4	09/18/2021	00:30:34	0
End Time			Tag	CH4	09/18/2021	00:30:34	
09/18/2021	23:59:59		Tag	CH4	09/18/2021	00:30:35	•
Keyword			Tag	CH4	09/18/2021	00:30:36	•
Keywold			Tag	CH1	09/18/2021	12:25:53	
Channel 🛃			Tag	CH3	09/18/2021	12:25:58	•
			Tag	CH5	09/18/2021	12:26:04	·
💟 💼 CH			Tag	CH6	09/18/2021	12:26:08	Ō
🗹 📄 🗧 CH2							-
CH:							
🗹 📑 CH4	4						
CH:	5						
🖂 📑 CH6							
	7						

- 1. Select the start time and end time you want to search.
- 2. Select the channel(s) you want to search.
- 3. If you gave customized tag names to the tags, you can input the keyword to narrow your search.
- Click Q button to search. The tags will be displayed on the right window. Click the play button I to start playing.
- 5. If you want to modify the tag name, click \checkmark button. Click $\overline{\mathbf{m}}$ button to delete the tag.

6.7 Play External File

The NVR supports to play the videos saved in the external USB memories.



Insert your USB memory into the USB port, find out the folder where the video files are saved, and then click the play icon to play the video.

6.8 Picture Search & View

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



To search, play & back up pictures:

- 1. Choose the date & time you want to search.
- 2. Check the picture capture types you want to search, or check Search Type to choose all.
- 3. Choose the channels you want to search, or check **Channel** to choose all channels.
- 4. Click Q button to start search.
- 5. Pictures fitting your search criteria are displayed in list form. You can double click one of the pictures to get a larger view.
- 6. Click I < 1 /250 → → icons in the bottom-right corner of the menu to browse between pages of pictures, or input the page you want to browse.
- 7. You can switch the view of list form in by clicking below icons which is show at the right bottom corner of the screen:

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

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

1 CH1 00:	00:00 2	CH1 00:00:45	🗌 3 CH1	00:18:30	4 CH1	00:44:03 5	CH1 01:10:	:48
9 CH1 02:0	01:12 📃 10	CH1 02:25:38	🗌 11 CH1	02:43:17	12 CH1	03:02:08 📃 13	CH1 03:08:	37
17 CH1 04:0	07:23 📃 18	CH1 04:19:35	🗌 19 CH1	04:36:40	20 CH1	05:00:20	CH1 05:24:	12
25 CH1 06:	\$1:12 📃 26	CH1 06:44:25	🗌 27 CH1	07:01:42	28 CH1	07:20:43	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.
- After selecting file, you can click
 → button to save the pictures to USB flash drive. Or click → button to go into picture preview control window.

<complex-block> • Search • Gereal • Gereal

6.8.1 Picture Preview Control

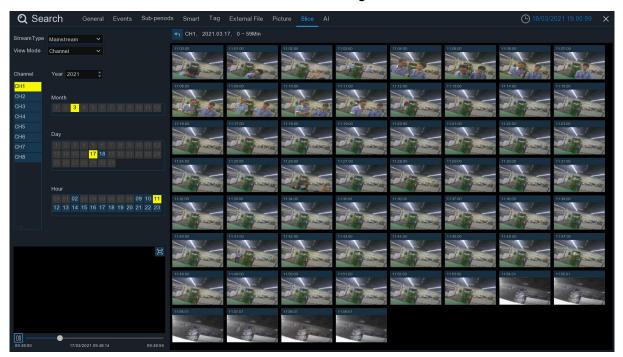
- 1. Picture List: to select pictures here.
- 2. Click The button to save your selected pictures to a USB flash drive.
- 3. Press ↔ button to exit preview control window and go back to picture search window. Press ∭ button to pause, press ▷ to resume slideshow.

Press [k] button to display previous snapshot or group of snapshots, press [k] to display the next snapshot or group of snapshots.

Click button to view a single snapshot at a time, click 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.

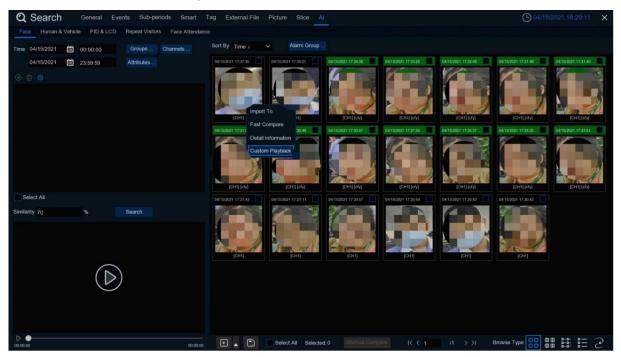


Choose the video stream type, channel, date and hour. The system will display 60 thumbnail images of each minute on the screen. Click on any one of the thumbnail images, the video will be played on the left bottom corner.

6.10 Al Search

6.10.1 Face

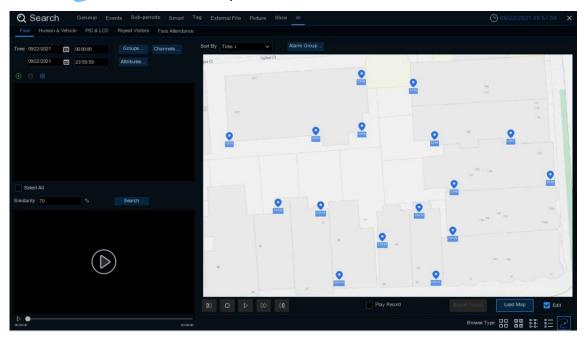
Choose date, time, channel, groups to search all captures faces.



- 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.

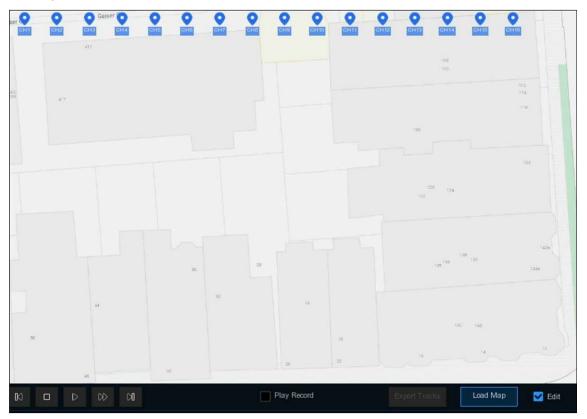
6.10.1.1 E-Map

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

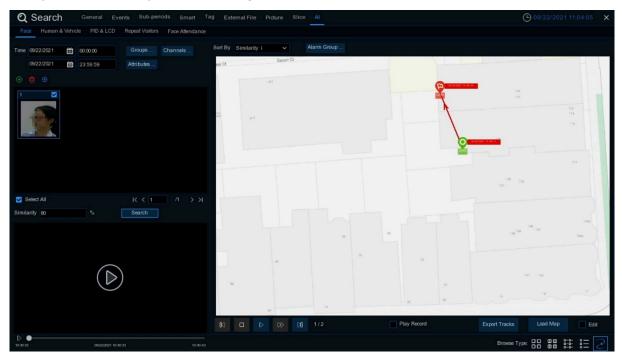


1. Click Load Map button to load a map image from your USB memory.

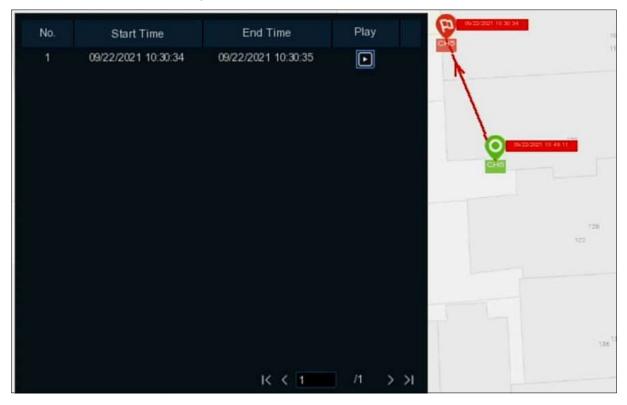
2. Check the **Edit** box. Click and hold the channel icon and move one by one to adjust the site of your IP cameras on the map. Uncheck the **Edit** box to quit the edition.



3. Click ⊕ 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 Attendi		Picture Slice Al			() 17	//03/2021 19:23:22 🗙
Time 17/03/2021 🛗 00:00:00	Sort By Time ↓ ∽			_		
17/03/2021 🛗 23:59:59 Channels ▼ Human ▼ Vehicle Search	17/03/2021 14:18:57	17/03/2021 14:18:56	17/03/2021 14:18:55	17/03/2021 14:18:54	17/03/2021 14:18:54	17/03/2021 14:18:50
Snapped Information: Channel	[CH2]	[CH2]	[CH2]	[CH2]	[CH2]	[CH2]
Start Time End Time	17/03/2021 14:18:45	17/032021 14-18-41	17/03/2021 14:18:28	17/09/2021 14:18:18	17/09/2021 14:18:01	17:032021 14:17:49
о Туре	[CH2] 17/03/2021 14:17:45	CH2 Custom P	ayback [CH2]	[CH2] 17/03/2021 14:17:28	[CH2] 17/03/2021 14:17:25	[CH2] 17/03/2021 14:17:19
	(042)	[CH2]	[CH2]	[CH2]	[CH2]	(512)
	(0+2)	17/00/2021 14-17-12	(0+2)	17/002/22114-16-49 [CH2]	17:03/2021 14:16:46	[C412]
00 00 00 00 00 00 00 00 00 00 00 00 00		Select All Selected:0		< 1 /59 > >I		se 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.

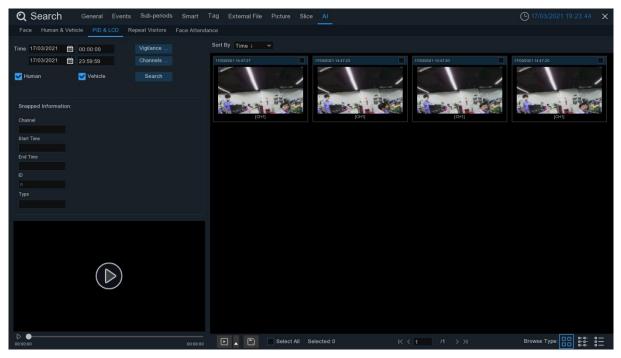


Choose one or more files, click the play button ▶, the system will turn to the playback interface to play the selected file(s). Click the ▲ icon to select the time duration you would like to play. Click ♥, to save the selected file(s) to your USB memory.



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.

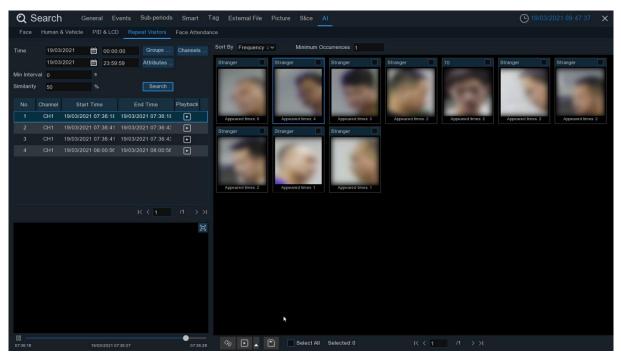


7. Choose one or more files, click the play button ▶, the system will turn to the playback interface to play the selected file(s). Click the ▲ icon to select the time duration you would like to play. Click ♥, to save the selected file(s) to your USB memory.



6.10.4 Repeat Visitors

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



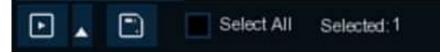
- 1. Select the date & time, group(s) & channel(s).
- 2. Set the Attributes.
- 3. Set the Min. Interval time (second).
- 4. Click **Search**, the result will be displayed on the right side of the window.
- 5. You can sort the result by **Time** and **Frequency**.
- 6. You can narrow the result by setting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

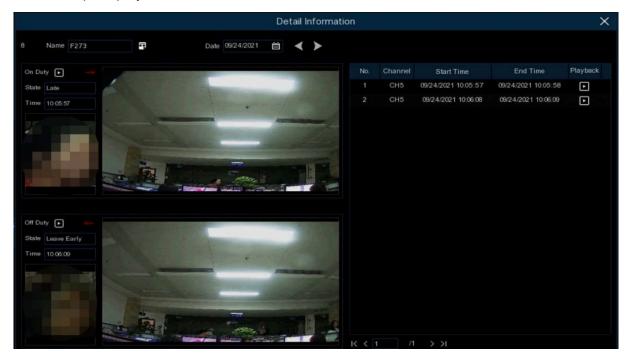
Face Attendance is used to assist in attendance checking by faces. It will help to analyze the absenteeism, coming late and leaving early.

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

Q Sear			Sub-periods		External File	Picture Slic								· 09/24/2		:56:18
Face Hum	an & Vehicle P	ID & LCD Re	peat Visitors Fac	e Attendance												
Channels	Select Mod	e By Group			On Duty Ti	ne 08.30.00			Iff Duty Time	7:30:00			Refresh	Export		Send Email
Date Day	Week Month	Custom To	tay		Name		Detail	09/20		09/22	09/23	09/24		09/26	Late	
09/20/202		09/26/2021	1				7									
lorking Days					F264	Group 1	-	0	0	0	0	0				
Sun.	Mon.	🔽 Tue,	Vied.													
Thu.	Fri.	Sat.		9	F266	Group 1		0	0		0	0			1	1
	—			10	F268	Group 1		0	0	k	0	0	\checkmark	~	1	1
					F266	Group 1										
						Group 1	Ŧ									
-			and the second second		F268	Group 1	Ξ.									
	1.1						Ŧ									
9 F284	30 F285	31 F296	32 F287				-									
0	6		σ.						Vormal	Lai	e 🗕 L	eave Early	🐂 Late a	nd Leave Early		Absence
Select All								08:30:00					7:30:00			
Search																
		_		9.22												
	(
		\mathcal{I}														
				9.25												

- 1. Select the channel(s).
- 3. Select the search date by individual day, week, month, current day or customized date.
- 4. Set the Working Days, On Duty Time and Off Duty Time.
- 5. Click **Search** button, the result will be displayed on the right side of the window.
- 6. You can export or email the data.

Click on the detail icon , you will see the captured images and videos of the first occurrence and the last occurrence of the person in the day. Click on the play button to have a quick playback.



Chapter 7 Remote Access via Web Client

Use the Web Client to remotely access your NVR at any time via a PC. Before you access the Web Client, you need to ensure that the internet settings of the NVR are configured properly.

7.1 Basic System Environment Requirements

The minimum requirements for hardware and OS required to run Web Client are given as below.

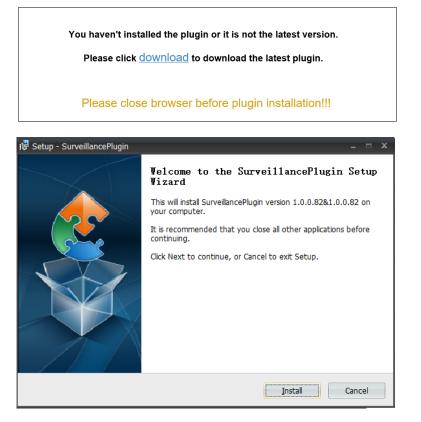
Item	Minimum	Recommended
CPU	Intel® Core™ i5 CPU	Intel® Core™ i5 CPU or higher
RAM	4G or more	8G or more
Hard Drive	500G or more	1000G or more
Display RAM	2G or more	4G or more
Display Resolution	1280*1024	1920*1080
OS	Windows 10 or above Mac OS X® 10.9 or above	
DirectX	DirectX 11	,
Direct3D	Acceleration Function	
Ethernet Adapter	10/100/1000M Ethernet A	dapter
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
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 💷 v 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.

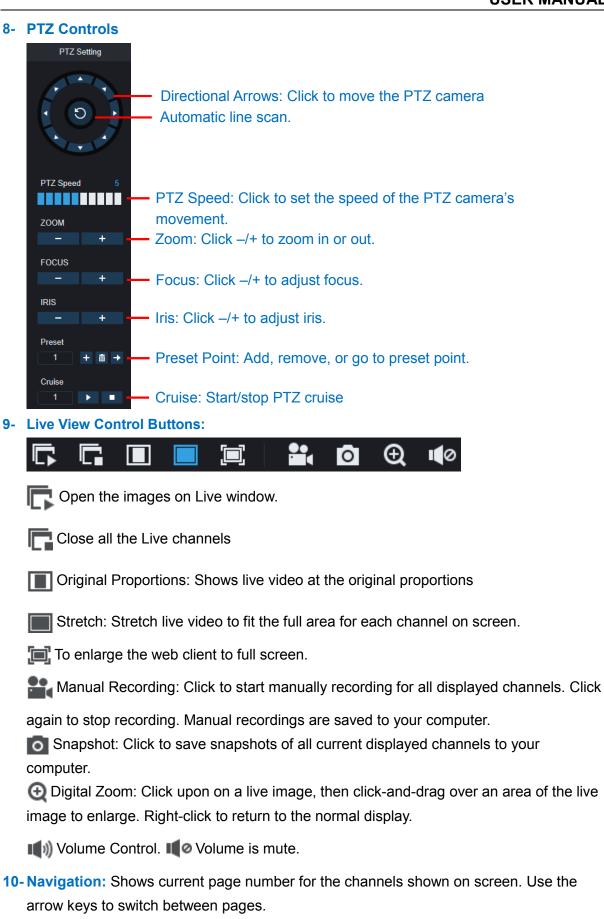
Remote Setting: Access functions of the NVR setting menus.

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.



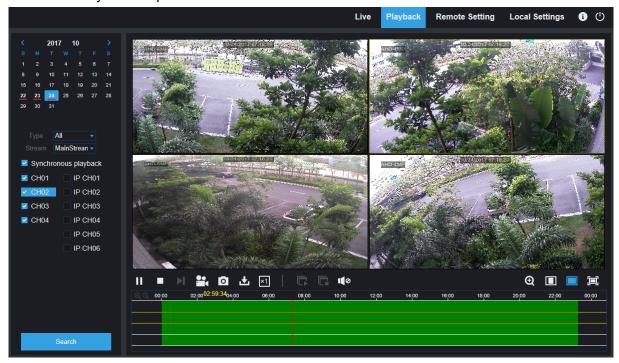
7- PTZ Controls: Click to display or hide the PTZ controls for using PTZ cameras.



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

7.3.2 Playback

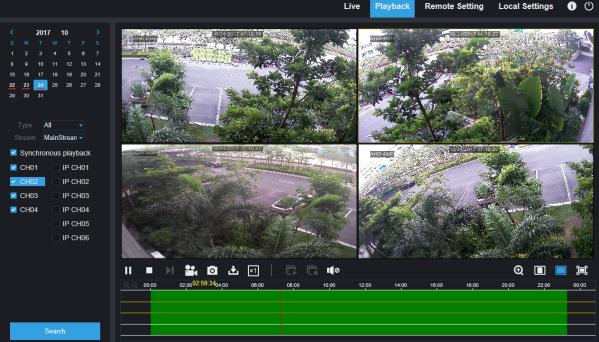
You can search & play recording videos stored in the HDD inside the NVR, and download the videos to your computer.



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.





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.

Dens the Download menu, which allows you to download several video recordings at once.

USER MANUAL

_					
		Start Time	End Time	Status	File Size
1	×	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	~	III/10 ►	M 🤹	Show from 1 to	10, total 95. Per page : 10
		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.

Representation of the 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.

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.

										Li	ve Playt	ack F	Remote Setting	Local Settings
Channel	IP Channels Pro	tocol Ma	anage											
Channel Live	Channel		Stat	e IP Adderss	Subnet Mask		Manufacturer	Device Typ						
mage Control PTZ	IP CH1			10.10.25.151	255.255.0.0	9988		IP CAN						
Intion Detection	IP CH2													
/ideo Cover Intelligent	IP CH3			10.10.25.153	255.255.0.0	9988		IP CAN						
1945 W	IP CH4													
Record														
Encode Record	IP CH6													
Capture	IP CH7	+ 6												
	IP CH8	+ 6												
Alarm		+ 4												
	IP CH15													
Notion I/O Exception	IP CH12													
Manager	IP CH13													
Network	IP CH14													
General DDNS Email	IP CH15													
тр	IP CH16		9											
	Delete	Quick		Refresh										
Device	Delete		AUU	Reliesi										
Xisk														
System														
General Multi-User														
Aaintenance														
nformation														

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	D
File type	RF V	
	Save	

Record Path: Click **to** browse for and select the folder where you would like the manual video recordings to be saved on your computer.

Download Path: Click **t** to browse for and select the folder where you would like to save the download video recordings to your computer.

Snapshot Path: Click 👕 to browse for and select the folder where you would like the

manual capture snapshots to be saved on your computer.

File Type: Choose your preferred file type for manual recordings. **Save:** Click to save the modifications.

Chapter 8 Viewing Backed Up Video on PC/Mac

This section will help you to play the backup files with the powerful video player which is attached in the CD or you can download from: <u>http://al8.co</u>

For Mac users, please install the app "VideoPlayer_x.x.xx_xxxx_xx_dmg", for example: VideoPlayer_1.0.32.dmg.

For Windows users, please install the software "VideoPlayer_x.x.xx_xxxx_xx_xx.exe", for example: VideoPlayer_1.0.41_2021_02_25.exe.

Minimum System Requirements

- Intel Pentium 4 or above
- Microsoft Windows XP / Vista / 7 / 8 / 10
- 256MB RAM
- 16MB video memory
- 1. Install the Video Player software in the CD and run.

VideoPlayer								⊡ —		×
Play List	+	Ō	4	9.	Ready		٥	ж,	* :	K.N.
						Video Player				
					00:00:00			—	00:00	0:00
					≡ ≜		। ¶⊘		— E	Ⅲ

6

- 2. Copy the backup files to your computer.
- 3. Click **Open File** button or click + button on the Play List to load single or multiple video files. It supports to add & play ".rf", ".avi", ".mp4", ".264" and ".265" files. Click **I** button to load a folder with backed-up videos.

Video Player Control



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.
- 쭊 Filter by file name
- 2. E Hide/Show Playlist
 - Click to open files or load a folder.

3. Play Controls

- Play
- 🕕 Pause
- Stop
- Play frame by frame. Click once to play a frame of the video
- ▶ Slow Play, 1/2, 1/4 and 1/8, 1/16 speed
- Fast Forward, x2, x4, x8 and x16

4. Volume control

Multi-screen play. It allows to play multiple videos at a time. When you choose multiscreen, you can drag the video in Play List to the play screen.

5. 🔯 Take snapshot

To save a video clip to your computer. Press once to start, press again to end the video clip.

- 😹 Keep the video player on top
- Enlarge the video play screen to full screen
- 6. Advanced Setup Menu allows to choose the OSD language of the video player, and configure the setting of video player.

Settings	Basic Capture		×
Sitck on Top:	 Stick on Top When P Never Stick on Top Always Stick on Top 	laying	
Save List File Wh	en Exit		
Restore	ОК	Cancel	Apply

Basic Settings:	Set on-top	mode
------------------------	------------	------

Settings	Basic	Capture		×
Output Settings:				
Format	: PNG	<u>_</u>		
Saving Path	: C:/Users/Adn	ninistrator/\Bro	owse	
Restore		ОК	Cancel	Apply

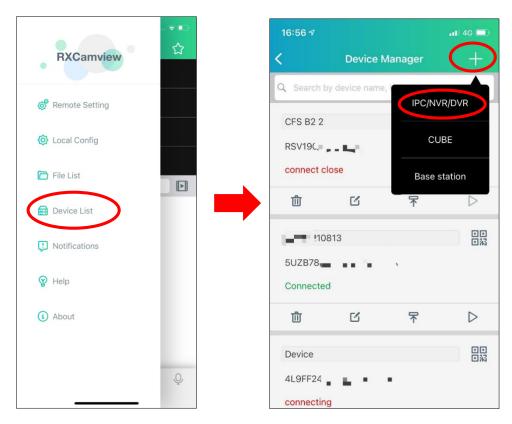
Capture Settings: Set the format and the path to save snapshots.

Chapter 9 Remote Access via Mobile Devices

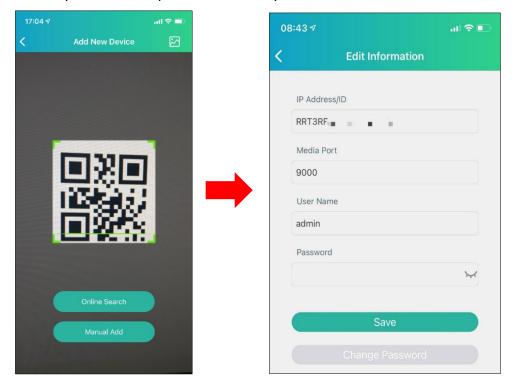
The NVR supports to remote access via mobile devices based on Android & iOS operating system.

- 1. Search RXCamView from Google Play Store for android devices or App Store for iOS devices and install.
- 2. Run the app, the GUI is displayed as below:

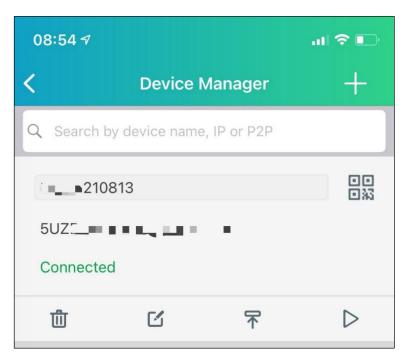
3. Touch the line icon on the left top corner and then choose Device List to turn to the Device Manager page. Touch the + icon on the right top corner and then select "IPC/NVR/DVR".



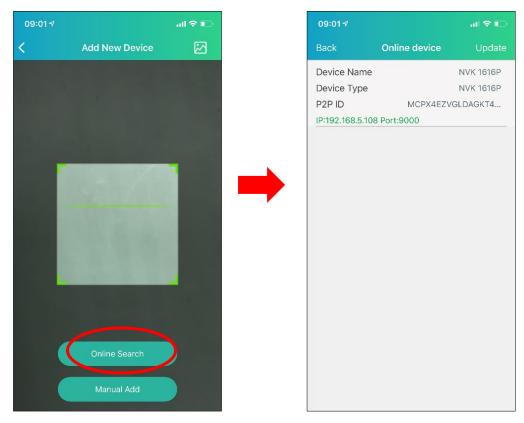
4. The app will open your phone camera to enter the scan mode. If your NVR supports P2P, scan the P2P ID QR code inside your system info page or on the top cover of your NVR. Input the media port, use name & password, and then click save.



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.

	ul ≎ ∎
Add New Device	
Online Search	
Manual Add	

For more operations about the app, please check on the Help menu in the app.

Chapter 10 Appendix

10.1 Troubleshooting

- Q: What can I do if the system does not detect the HDD?
 A: Check if the power supply system is properly connected and data cord and power cables are securely connected, and if something wrong with the HDD interface. Or you may check if your HDD is supported by referring to the specifications or descriptions.
- 2. Q: I have changed the password but forget the new password, how can I access the system?

A: If you forget system password, please consult with our technical personnel. We strongly suggest user to set password easy to be remembered and relatively safe. If you have safety requirement, please do not set very simply password, such as 000000.

- Q: We see abnormal video signal or even no video signal by connecting the NVR and camera together. Power supply for both devices is OK. What is wrong?
 A: Check network cable at NVR side to see if the cable is firmly connected and if it is worn out and needs to be replaced, or to check if NTSC or PAL is selected consistently.
- 4. Q: How to prevent NVR from being influenced by heat?A: The NVR needs to dissipate heat while it is running. Please place the NVR in a place with good air circulation and away from heat sources to ensure stability and life of the NVR.
- 5. Q: The remote controller of NVR doesn't work while the monitor screen is OK and panel keys are functional. Why?

A: Operate again by aiming the remote controller at the IR receiver on front panel. If it still doesn't work, please check if the batteries in the remote controller are dying. If not, check if the remote controller is broken.

- Q: I want to take out HDD from my PC and install it in NVR. Can it work?
 A: All HDDs supported by the system can be used. But remember, once NVR runs, the data on your HDD will be lost.
- 7. Q: Can I playback while recording?

A: Yes. The system supports the function of playing while recording.

8. Q: Can I clear some records on HDD of NVR?

A: In consideration of the file security, you may not clear part of records. If you want to remove all the records, you can format HDD.

- Q: Why can't I log in NVR client?
 A: Please check if the network connection settings are correct and RJ-45 port is with good contact. And check if your account and password are correctly input.
- 10. Q: Why can't I find any records during playback?

A: Please check if the data line connection for HDD is OK and system time is properly adjusted. Try a few times and restart. If it still doesn't work, check if the HDD is broken.

- 11. Q: Why NVR cannot control PTZ?
 - A: Please check if:
 - a) PTZ in the front side is malfunctioned.
 - b) Setting, connection and installation of PTZ decoder are not correct.
 - c) NVR's PTZ setting is not correct.
 - d) Protocol of PTZ decoder does not match that of NVR.
 - e) Address of PTZ decoder does not match that of NVR.
 - f) If many decoders are connected, the farthest side of AB line of PTZ decoder should be added 120Ω resistance to realize reflection suppression and impedance matching. Otherwise, PTZ control will be unstable.
- 12. Q: Why doesn't dynamic detection work?

A: Please check if the motion detection time and motion detection regional setting are correct and if the sensitivity is set too low.

13. Q: Why doesn't alarm work?

A: Please check if the alarm setting, alarm connection and alarm input signals are correct.

- 14. Q: Why does buzzer keep alarming?A: Please check the alarm setting, check if motion detection function is enabled and object motion is detected all the time and if I/O alarm is set as Always Off. Besides, refer to corresponding HDD alarm setting.
- 15. Q: Why can't I stop recording by pressing "STOP" button or click "Stop Recording" in context menu?

A: Pressing Stop or Stop Recording can only stop manual record. If you want to stop Scheduled recording in certain time quantum, please change the setting to No Record. To stop Startup recording, please change record mode to scheduled recording or manual recording. Then you may stop recording by the prescribed methods. And another way of stopping recording is to set channel as off status in record setting.

10.2 Usage Maintenance

- 1. To shut down NVR, please firstly shut down the system and then turn off the power. Do not turn off the power directly or HDD data will be lost or damaged.
- 2. Please keep NVR away from heat sources or places.
- 3. Clean the internal dust regularly. Make sure the good ventilation of NVR so as to ensure the good heat dissipation.
- Please do not hot plugging audio and video cables, or cables connected to ports like RS-232 or RS-485. Otherwise, the ports will be damaged.
- 5. Please check the HDD cable and data cable regularly to see if they are ageing.

- 6. Please prevent the audio and video signals of NVR from being intervened by other electronic devices, and prevent the HDD from being damaged by static electricity and induced voltage. If the network cable is frequently plugged, it is suggested to replace connecting line regularly, or the input signal may be unstable.
- 7. This is a class A product. It maybe brings wireless interference in life. Under this situation, it need user to make measures.

10.3 Accessories (For reference only)



□ USB mouse



□ Power Adapter

Quick Insta	allation Guide
NVR	

 \Box Warranty Card

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