

# User Manual of Network Video Recorder

Version v1.0

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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. Please use the power supply attached or specified by the manufacturer Never operate the equipment by unspecified power supply.

2. Never push objects of any kind through openings of Network Video Recorder (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 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, 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.

## **Chapter 1 Overview of NVR**

## **1.1 Front Panel**

NVR Front Panel, as shown in figure 1-1 to figure 1-7.





#### Figure 1-3 Front panel of 4/8 HDD case

No.	Function Description
1	Power switch
2	Network status light
3	Hard disk status light
4	Power status light
5	Enter
6	Right
7	Up
8	Down
9	Left
10	Backspace
11	Main Menu
12/13	USB interface

#### Note:

> All above drawings are for reference only.

### **1.2 Rear Panel**

NVR Rear Panel, as shown in figure 1-8 to figure 1-12.



Figure 1-8 Rear panel of 1 HDD case

	AUDIO IN	0		
CHICAGE AND		HDMI SS-	ON/OFF 0 12V	

Figure 1-9 Rear panel of 2 HDD case



Figure 1-10 Rear panel of 4/8 HDD case

No.	Description
1	Power Input Interface
2	Power switch
3	Exhaust Fan Hole
4	Alarm in/out Interface
5	Audio in/out Interface
6	VGA interface
7	HDMI interface
8	eSATA Interface
9	RJ45 interface
10	USB 3.0 interface
11	Caution Information

Table 1-3 Description of Rear Panel

#### Note:

> All above drawings are for reference only.

### **1.3 Remote Controller**

The NVR may also be controlled with the included IR remote control, as shown in Figure 1-7.



Figure 1-14 Remote Controller

No.	ltem	Description
1	6	Enter the Playback Interface
2	×	Backward One Frame
3		Control Step-Frame

4	<b>⊲</b> /II	Backward Playback Control Button					
5	►/II	Control Playback Status					
6	•	Quick Control All Channels Record Type					
7		Control Playback Speed					
8	►	Slow Down Playback					
9	♠	Back to Preview					
10	ADD	Set Address to Match of NVR					
11	ESC	Back to Preview					
12/16/14/15		Choose Function Area On the Menu/Switch Preview					
	<b>↓</b>	Channels					
13	MENU	Enter the Main Menu					
17	FN	Switch Control Area					
18	PTZ	Quick Button of PTZ Control					
19/20	Number Area	Enter Numbers/Switch Preview Channels					
21	⊞	Switch Preview Channel Number					
22	-/	Choose Input Number Digits Once					
23	Shutdown	Shutdown/Restart/Logout/Switch user					

Table 1-5 Key functions of the remote controller

#### Note:

The remote control only work properly when the status indicator on the front panel turns blue. If the Status indicator does not turn blue and there is still no response from the remote, please check the following:

#### > Troubleshoot1:

- 1. Go to Main Menu > Settings > General by operating the front control panel or the mouse.
- 2. Check and remember Device No.#, The default No. is 8. This ID# is valid for all the IR remote controls.
- 3. Press the **ADD** button on the remote control.
- 4. Enter the NVR ID# you set in step 2.
- 5. Press the ENTER button on the remote.
- > Troubleshoot2:
- 1. Batteries are installed correctly and the polarities of the batteries are not reversed.
- 2. Batteries are fresh and not out of charge.

- 3. IR receiver is not obstructed.
- 4. If the remote still can't function properly, please contact your retailer.

## **1.4 USB Mouse Operation**

A regular 3-button (Left/Right/Scroll-wheel) USB mouse can also be used with this NVR. To use a USB mouse: Plug USB mouse into one of the USB interfaces on the front or rear panel of the NVR. The mouse should automatically be detected.

Items	Action	Description				
	Single-Click	Live view: Select channel and show the quick set menu. Menu: Select and enter.				
Left-Click	Double-Click	Live view: Switch between single-screen and multi-screen.				
	Click and Drag	Live view: Drag channel/time bar. Alarm: Select target area. Digital zoom-in: Drag and select target area.				
Right-Click	Single-Click	Live view: Show main menu. Menu: Exit current menu to upper level menu.				
Left&Right-Click At the same time click		Hold 5 seconds, change device resolution into the lowest				
	Scrolling up	Menu: change the settings value to high				
Scion-wheel	Scrolling down	Menu: change the settings value to low				

Table 1-6 Key functions of USB Mouse Operation

#### Note:

If in a rare case that the mouse is not detected, the possible reason may be that the two devices are not compatible, please refer to the recommended the device list from your provider.

## **1.5 Input Method Description**



Figure 1-15 Soft key board (1)



Figure 1-16 Soft key board (2)

lcon	Description
! ? @ # \$ % ^ & *	Symbols
0 9	Number
Enter	Exit
	Space
az	English letter
	Backspace
Shift	Lowercase/Uppercase

Table1-7 Description of the Soft Keyboard Icons

## **Chapter 2 NVR Connection**

## **2.1 HDD Installation**

Before installing Hard Disk (HDD), please make sure the power is disconnected with the NVR. Each capacity of Hard Disk please refer to NVR's specifications. NVR without Hard Disk still support monitoring, but no recording or playback. If you correctly install the Hard Disk, the HDD indicator will blink regularly when the NVR is on work.

Please turn off the power and then start the installation of HDD. The pictures of the installation are only for reference.



Figure 2-1 Remove the cover





Figure 2-3 Connect the power and data cables

Figure 2-4 Install the cover and screws

#### Note:

- If user requires higher performance HDD, it is strongly recommended to use special hard drive for security and protection.
- > Please do not take out hard drive when NVR is running!

## **2.2 IP Camera and Monitor Connection**

Transmit signals of IP camera to NVR by the network cable, and connect VGA port and HDMI port for output.



Figure 2-5 Device connection

## **2.3 Power Supply Connection**

Please use attached power adapter to connect NVR. Before power on, make sure the cables on the audio I/O ports and network port are well connected.

## **Chapter 3 Getting Start**

## 3.1 Start Up and Shut Down

Proper startup and shutdown procedures are crucial to expanding the life of the NVR, please check that the voltage of the extra power supply is the same with the NVR's requirement, and the ground connection is working properly.

#### • Starting up the NVR

Plug the power supply and turn on the power supply switch(if there is one). Power supply indicator blinking indicates turning on the video recorder. After the startup you will hear a beep. The default setting of video output is multiple-window output mode. If the startup time is within the recording schedule time, the timing video recording function will start up automatically. Then the recording indicator of corresponding channel will be blinking and the NVR is working normally. When operate a username and password is needed, the default username is "admin" and the password is 1234567u, shown as bellow:



Figure 3-1-1 Login

#### • Shutting down the NVR

Click right of the mouse on the live view interface and choose "**Main Menu >Shutdown**", then click ok button, as shown in figure 3-1-2.

	C DDNS UP	NP Email	FTP	NTP	
Channel	DHCP				
C Record	IP Address	192 · 168 · 1 · 9			
	Subnet Mask Gateway	$255 \cdot 255 \cdot 255 \cdot 0$ $192 \cdot 168 \cdot 1 \cdot 1$			
Alarm		Shut Down			
A Network	ChutLum				
System	Se Exit system,	then shut down device.			
	T	ОК	Cancel	*	
				Default	Apply
	Contraction of the second s	-	Standard .		

Figure 3-1-2 Shutdown Menu

## 3.2 Using the Startup Wizard

By default, the Startup Wizard starts once the NVR has loaded, as shown in Figure 3-2.



Figure 3-2 Startup Wizard

#### **Operating the Startup Wizard:**

1. The Startup Wizard can walk you through some important settings of the NVR. If you don't want to use the Startup Wizard at that moment, click the exit button. You can also choose to use the Startup Wizard next time by leaving the "enable" checkbox checked.

2. Click Next Step button to enter the general settings window, as shown in figure 3-3.

	General	
Language	English	
Time zone	[GMT+08:00]Beijing,Urumqi,Singapore	
System time	2017 - 01 - 11 10 : 32 : 06	
Date separator		
Date format	уууу mm dd	
Time format	24-Hour	
DST	Set	
Auto logout	10 min	
Startup wizard	Image: A state of the state	
Device No.	8	
Host name	LocalHost	
Smart display		
Smart tracking display		
	Default Prev step N	ext step Exit

**Figure 3-3 General settings** 

3. After the general settings, click Next Step button which takes you back to the record control Setup Wizard window, as shown in **figure 3-4.** 

							Con	trol						
Channel	01	[D]	CAM								•			Sub stream
Pre-Record												sec		Redundancy
	0				10	12	14	16		22	24			
Sun												_		Edit
Mon												_		Norm.
Tue												_		
Wed												_	L	MD
Thu												_		Alarm
Fri												_		
Sat														
_														
	Def	ault		Copy	7 To			Pre St	ep	Ne	ext S	tep		Exit

Figure 3-4 Record control settings

4. After the record control settings, click Next Step button which takes you to the HDD Manage Setup Wizard window, as shown in **figure 3-5.** 



Figure 3-5 HDD Manage of Wizard

5. Click Next button. You enter the Network Setup Wizard window, as shown in figure 3-6.

xit

Figure 3-6 Network of Wizard

6. Click Next button after you configured the network parameters, you enter the cloud service Setup Wizard window, as shown in **figure 3-7.** 

Cloud	6
Enable Status Connected Cloud ID III III Cloud ID III III Cloud III III III Cloud III III III Cloud III III III Cloud III III III III Cloud III III III III Cloud III IIII III Cloud III III III CLOUD III CLOUD III CLOUD III III CLOUD III CLOUD III CLOUD III CLOUD III CLOUD III CLOUD III III CLOUD I	
Phene Andreid Cloud D	
	Pre Step Finished

Figure 3-7 Cloud of Wizard

7. Click finished button to complete the startup Setup Wizard.

## 3.3 Login and logout

#### • User Login

If NVR has logged out, you must login the device before operating the menu and other

#### functions.

#### Steps:

- 1. Select the User Name in the dropdown list.
- 2. Input Password.
- 3. Click OK to log in.

#### Note:

In the Login dialog box, if you enter the wrong password 7 times, the current user account will blocked for 60 seconds.

#### • User Logout

After logging out, the monitor turns to the live view mode and if you want to perform any operations, you need to enter user name and password to log in again.

#### Steps:

- 1. Enter the Shutdown menu. Go to Main Menu > Shutdown
- 2. Select logout and click ok button.

#### Note:

After you have logged out the system, menu operation on the screen is invalid. It is required to input a user name and password to unlock the system.

## **Chapter 4 NVR MENU**

## 4.1 NVR Menu Guide



Figure 4-1 NVR Menu Guide

## 4.2 Live View

### **4.2.1** Introduction of Live View

Live view shows you the video image getting from each camera in real time. The NVR automatically enters Live View mode when powered on, as shown in figure 4-2.

				2000 L	
	Ente	+	+	- 2017-	-01-10 2/2:32:10 Tue
oith Caro Con	02 D CAM-2	08[D]CAM 3	04[D]CAM 4	05[D]CAM 5	06[D]CAM 6
+	+	+	+	+	t
07[D]CAM 7	08[D]CAM 8	09[D]CAM 9	10[D]CAM 10	11[D]CAM 11	12[D]CAM 12
+	+	+	+	+	+
13[D]CAM 13	14[D]CAM 14	15[D]CAM 15	18[ <b>D</b> ]CAM 16	17[D]CAM 17	18[D]CAM 18
+	+	+	+	+	+
19[D]CAM 19	20[D]CAM 20	21[D]CAM 21	222[D]CAM 22	28[D]CAM 26	24[D]CAM 24
+	+	+	+	2 <u>+</u> 2	+
25[D]CAM 25	26[D]CAM 26	27[D]CAM 27	28[D]CAM 28	29[D]CAM 29 📐	30[D]CAM 30
+	+				
31[D]CAM 31	32[D]CAM 32				

#### Figure 4-2 live view interface

On live view screen, click on the channel " + "Button to enter the channel management interface NVR Automatically search for network segment IPC , And then select the IPC Click Add to.

#### Note:

- > The number for IP cameras channels may differ by its type;
- The transmission signals of IP camera to NVR is main stream under single or four screen s live view, and it is extra stream under multi- screen live view.
  - Live View Icons

In the live view mode, there are icons at the upper-left of the screen for each channel, showing the status of the record and alarm in the channel, so that you can know whether the channel is recorded, or whether there are alarms occur as soon as possible.

Items	Description
Recording state	Shown on channel preview when recording.
Alarm detect	Shown on channel preview when alarm triggered.

ି Video lost	Shown on channel preview when video lost.
Camera lock	No preview authority.

Table4-1 Live view Icons

### 4.2.2 Operations in Live View Mode

In live view mode, there are many functions provided. The functions are listed below.

- Single Screen: showing only one screen on the monitor.
- Multi-screen: showing multiple screens on the monitor simultaneously.
- Tour: the screen is auto switched to the next one. And you must set the dwell time for each screen on the configuration menu before enabling the tour.
- Start Recording: continuous record and motion detection record are supported.
- Add IP Camera: the shortcut to the IP camera management interface.
- Playback: playback the recorded videos for current day.

### 4.2.3 Quick Setting Toolbar in Live View Mod

On the screen of each channel, there is a quick setting toolbar which shows when you move the arrow of mouse to the top of image.



Figure 4-3 Quick Setting Toolbar in channel image

Items	Description
*	In the preview channel window interface within ten minutes of video
Instant Replay	for playback.
<b>①</b>	Displays the selected channel in full screen, and displays a small
Zoom	window in the right corner of the area you want to zoom.
100	Quick switch video mode for this channel (only in manual and stop
Manual Record	mode switching).
Manual Snap	This channel the display resolution of the images that are captured in real time.
Audio Preview	To listen Open channel monitor.
	Open-channel intercom functions, support and IPC, web and mobile
Voice Intercom	client to talk.
Channel Set	Quickly enter and locate a channel is channel management interface.

Face Detection	Quickly enable a blank area in preview to show the people's face detected by the camera.(As shown in Figure 4-4)
<b>↓</b> PTZ	Quickly enter PTZ control interface.

Table4-2 Description of the Quick Setting Toolbar



**Figure 4-4 Face Detection** 

### 4.2.4 Desktop shortcut menu

In preview mode you can right click mouse to access the desktop shortcut menu, as shown in figure 4-5.



#### Figure 4-5 Desktop shortcut menu

• Main menu: The main menu includes playback, setting, maintain, backup and shutdown.

- Startup wizard: Please refer to the chapter 3.2 for more information.
- Automatic channel config: When you right click mouse and choose Auto Channel Config, it means that NVR will auto add the IP cameras which in the same LAN.
- IP channel: it is a shortcut access to IP channel interface.
- Channel status: it is a shortcut access to IP channel status interface.
- Playback: it is a shortcut access to playback interface.
- Quick Record: You can check current channel status: "o" means it is not selected, "•" means it is selected.



Figure 4-6 Quick Record

Items	Description
Schedule	Record according to the configuration.
Manual	Click the button and the according channel will record immediately
	regardless of the current state.
Stop	Click the stop button and the according channel will stop recording
	regardless of the current state.

Table4-3Quick Record

• PTZ control: Operation interface is as shown in figure4-7. The functions include: PTZ direction control, speed, zoom, focus, iris, setup operation, patrol between spots, pattern, border, tour.

PTZ	PTZ
Channel 01 [ D ] CAM 1 -	Channel 01 [ D ] CAM 1
PTZ Config	PTZ config
PTZ Control Common	PTZ control Common
	Goto preset
V V Q Zoom Q	Cruise start
<ul> <li>Tocus</li> <li>Focus</li> <li>Focus</li> </ul>	Cruise stop
	Track start 1 🔸
Speed	Track stop

Figure 4-7 PTZ Control

• Color setting: it is a shortcut to settings ->Channel management ->Image color settings window.

• Output adjust: it is a shortcut access to settings ->System settings ->Output control interfaces.

• Mute: The speaker mute switch, Icon 🖤 means speaker turns on, icon 🔨 means

speaker turns off.

• Logout: Shutdown, restart system, logout menu user and switch user, as shown in figure 4-8.



Figure 4-8 Logout

• Screen switch: Preview in single screen/four screens/eight screens /nine screens /sixteen screens according to your choice.

• Corridor Mode: Preview in three screens(as shown in Figure 4-9)/four screens/five screens /seven screens /nine screens/ten screens/twelve screens/sixteen screens according to your choice.



Figure 4-9 Corridor Mode – Three screens

## **4.3 Settings**

### 4.3.1 System

### 4.3.1.1 General setting

Click on the "set ->	Setting -> General "into	the general interface, as shown in Fi	gure 4-10.
₹			
	General Dis	splay Tour Account	$\mathbf{>}$
<ul> <li>Channel</li> <li>Record</li> <li>Alarm</li> <li>Smart search</li> <li>Network</li> </ul>	Language Time zone System time Date separator Date format Time format DST Auto logout Startup wizard	English [GMT+08:00]Beijing,Urumqi,Singapore 2017 - 12 - 22 17 : 05 : 31 - • yyyy mm dd 24-Hour Set 10 min	•
Setting	Startup wizard Device No. Host name Smart display Smart tracking display	<ul> <li>8</li> <li>LocalHost</li> <li>✓</li> <li>✓</li> <li>✓</li> <li>Default</li> </ul>	Apply
<b>ا</b> ر Playt	Dack Set	Maintain Backup Shutd	own

Figure 4-10 General

Language: Simplified Chinese, English, Italian, Russian, Portuguese, Turkish, Persian, Arabic, Cesky.

- Time zone: Select your corresponding time zone here. •
- System time: Set the system data and time.
- Date format: Choose the data format: YMD, MDY, and DMY.
- Time format: Choose list separator of the data format: dot, beeline and solidus.
- Time Format: Choose time format: 24-hour or 12-hour.
- DST: Choose the summer time option and pop the dialog box as followed.

				DST			
🔵 Day	of Week	O Da	te				
Start:	Mar	-	Last	•	Su.	•	01:00
End:	Oct	-	Last	•	Su.	•	01:00
						ЭK	Cancel

#### Figure 4-11 DST (week)

$\bigcirc$ Da	y of W	/eek	🔵 Date				
Start:	$\odot$	2016	- 03 -	01 01	: 00		
End:	$\odot$	2016	- 10 -	01 01	: 00		

Figure 4-12 DST (date)

- Auto Logout: Set the latency time in 0-60. 0 means no latency time.
- Startup Wizard: The startup wizard can guide you to finish some important settings of the AHD DVR. You can also choose to skip this step.
- Device No: When you are using one remote control to control several NVRs, you can give a number to each NVR as address for your management.
- Host Name: NVR's name
- Smart display: It will display smart alarm line or area after you enable this function.
- Smart tracking display: It will track the moving objects from the specified intelligent alarm type.

### 4.3.1.2 Display setting

Click on the "settings -> System ->Display" into the display setting interface, as shown in **Figure 4-13**. In this pare you can adjust video output parameters.

	General	Display Tour	Account		>
Ohannel	Resolution	1024x768		<b></b>	
<u> </u>	Display settings	VGA/HDMI		•	
Record	Hue		-•	<b></b> 50	
$\frown$	Brightness		-•	<u> </u>	
∫ Alarm	Contrast		•	<u> </u>	
の Smart search	Saturation		•	<b></b> 50	
р	Тор	•		0	
	Bottom	•		0	
Setting	Left	•		0	
	Right	•		0	
			_		
				Default A	pply
		255		(1)	
Plays	Set	iviaintain	васкир	Shutdown	

Figure 4-13 Display

### 4.3.1.3 Tour setting

tt			-			
	General	Display	Tour	Account		>
) Channel	Enable To	ur 🔽 al 5	Sec			
C Record	Normal mode					
<u></u> Alarm	View 1	View 4	View 6	View 8	View 9	
Smart search	Corridor mod					
A Network	View 3	View 4	View 5	View 7	View 9	
Setting	View 10	View 12	View 16	10 11 12		
	13 (	14 15 16				
					A	pply
·	]√ (ŷ)	- X	 ≽			
Playl	back Set	Mainta	ain B	ackup	Shutdown	

Click on the "settings -> System ->Tour" into the tour setting interface. As shown in Figure 4-14.

Figure 4-14 Tour

- Enable Tour: Tour on or off
- Interval: Interval time setting, the range of values is from 5s to 120s.
- View: View checking about tour

### 4.3.1.4 Account

Click on "Setting -> System ->Account" into the account interface, as shown in **figure 4-15**. There are two default accounts in the NVR: **admin/guest**, admin's default password is 1234567u while the other is empty. The account of admin is an administrator, it has the permission to add and delete any user and configure user parameters

		General	Displa	y Tour	Accol	unt		>
	3	llser	Group	Status	Edit	Modify Dassword	Delete	-
	1	admin	admin	Local GUI		A strong to strong	V	
	2	nuest	user	Normal				
Record	3	default	default	Normal				
			uoruun	- torniar		, , , , , , , , , , , , , , , , , , ,		
_ {◯ Smart searc	:h							
A Network								
000								
Setting								
				Add	aroun	Add user	Andify are	un
				Add	- group		nouny gro	up.
		<u> </u>		2322		(1)		
				<i>7</i> S		-		
P	layback	Set		Maintain	Backup	Shutdown		

Figure 4-15 Account

#### Note :

- The character length of name is 64 bytes at most for the following users and users' group. Legal characters include: letter and number, other characters are forbidden.
- > The user management includes: group/ user. One user should belong to one group.

• Add Group: Add a user group and set the permission. There are 73 different permissions: control panel, real time surveillance, playback, recording setup, video file backup and so on.

			General	Display	Tour	Acco	unt		>
) Chani	nel	3 (	Jser	Group Ad	Status	Edit	Modify Password	Delete X	
C Recor	rd	Group							
🚊 Alarm		Memo 102	Authority	_					
ු Smart	search	2 3	Control parter Shutdown the Backup_CH0 <sup>-</sup>	device 1					
A Netwo	ork	4	Backup_CH0:	2 3					
Settin	g	6 7 8	✓ Backup_CH04 ✓ Backup_CH04 ✓ Backup_CH04 ✓ Backup_CH04	4 5 6					
		9	Backup_CH0	7 3					
		11 12 13	Backup_CH0: Backup_CH1: Backup_CH1: Backup_CH1:	9 D 1					
					Sa Add	group	Cancel Add user	Modify gro	up
	·		<u></u>		×2		(   )		
	Playba	ack	Set	N	laintain	Backup	Shutdowi	n	

Figure 4-16 Add group

• Add user: Add a user in the group and set the user permission. Enter the menu interface and input the user name and password. Choose the group and choose whether using the. Re-useable function, this function allows multiple users use the same account to login. User's right cannot exceed group's right. We recommend that the common user's permission is lower than the advanced user.

	General Display Tour Account	>
Ohannel	3 User Group Status Edit Modify Password Delete	
_	Add user	
Record	Name Reuseable X	
$\sim$	Password	
∫ Alarm	Confirm	
$\sqrt{2}$ Smart search	мето	
2	Group admin 👻	
A Network	102 🔽 Authority 📃	
	1 🔽 Control panel	
Catting	2 Shutdown the device	
	3 🔽 Backup_CH01	
	4 Backup_CH02	
	9 Backup CH07	
	OK Cancer	
	Add group Add user Modify gi	roup
Playb	ick Set Maintain Backup Shutdown	

Figure 4-17 Add user

• Modify Group: Modify the existing groups' attribute, as shown in figure 4-18.

	General Display Tour Account	>
Omenant Channel	3 User Group Status Edit Modify Password Delete	
Record	Group admin	
َ Alarm	Group admin Memo administrator group	
Smart search	102 ✓ Authority       1 ✓ Control panel	
A Network	2     ✓ Shutdown the device       3     ✓ Backup_CH01       4     ✓ Backup_CH02	
Setting	5 Backup_CH03 6 Backup_CH04	
	7         ☑ Backup_CH05           8         ☑ Backup_CH06           9         ☑ Backup_CH07	
	10	
	OK Delete Cancel Add group Add user Modify group	
	ack Set Maintain Backup Shutdown	

Figure 4-18 Modify group

• Modify User: click icon to modify the existing users' attribute, as shown in figure 4-19.

	Gen	eral Dis	splay To	ur Acco	unt	>
Ohannel	3 User	Grou	ıp Status	Edit	Modify Password	d Delete
<u> </u>			Modify User	2		X
C Record	User name	admin			Reuseable	
	Name	admin				
	Memo	admin 's acco	unt			
∫ Smart sea <u>rch</u>	Group	admin				
Setting	102 ⊻ Auti 1 ⊻ Cor 2 ⊻ Shu 3 ⊻ Bac 4 ⊻ Bac	hority I <mark>trol panel</mark> Itdown the devid kup_CH01 kup_CH02	ce			
-	5 🗹 Bac 6 🗸 Bac 7 🗸 Bac 8 🗸 Bac	kup_CH03 kup_CH04 kup_CH05 kup_CH06				
	9 <b>∨</b> Bac 10 <b>∨</b> Bac	kup_CH07 kup_CH08				
				Delete dd group	Cancel Add user	Modify group
Plavb	)(] ack	<ol> <li>Set</li> </ol>	Maintain		Shutdov	) An

Figure 4-19 Modify User

• Modify password: You can set password among 1-64 bytes, legal characters include letter and number, other characters are not forbidden, as shown in figure 4-20.

	General Display Tour Account >
<ul><li></li></ul>	3     User     Group     Status     Edit     Modify Password     Delete       1     admin     admin     Local GUI     /     /     X       2     guest     user     Normal     /     X       3     default     default     Normal     /     X
∫ Alarm	Modify Password
्रि Smart search सि Network	Name     admin       Old Password
Setting	
	Save Cancel
	Add group Add user Modify group
ا Playt	Dack Set Maintain Backup Shutdown

Figure 4-20 Modify password

Note:

> The user who possess the user control permission can modify his/her own or other users 'password.

### 4.3.1.5 Restart

Click on "Setting -> System ->Restart" into the graphical interface, as shown in **figure 4-21.**The user can set the auto reboot time to maintain the device.

N.						
			Auto Maintenance			
	Ohannel					
	 Record		Every tuesday	✓ at 02:00		
	Alarm					
	Smart search					
	A Network					
	Setting					
						Apply
	-	]]	<b>{</b> \$}	×		(
	Playb	ack	Set	Maintain	Backup	Shutdown
			Fig	gure 4-21 Restart		

### 4.3.2 Network

Before the NVR connects to the Network, you need to configure the related settings of Network. In this chapter, we can set the basic network configuration, WIFI, 3G/4G, P2P, DDNS, UPNP, Email, FTP, NTP, Access, etc.

### 4.3.2.1 Base

Click on "Setting -> Network -> Base" into the network base settings interface, as shown in **figure 4-22.** This page you can set the device IP Address, gateway, DNS As well as view MAC Address. If the NVR has two Ethernet ports, you can connect with two net segments and set one for default Route.

	Base WIFI	3G/4G	P2P	DDNS	(
Ohannel	DHCP				
Ϋ́	IP address				
Record	Sub Net Mask				
_	Gateway				
J Alarm	MAC				
	Primary DNS	172.16.	10 . 10		
Smart search	Secondary DNS	192 . 168 .	1.1		
	Internal IP	192 . 168 .	2 . 20		
	Link Speed/Duplex Mode	Auto Negotia	tion		•
Setting	Max Users	32			
	HS Download	Image: A start and a start and a start a st			
	Transfer Mode				
			1		
				Default	Apply
	~	<b>N</b> /			
<u>ا</u>	{၀}	×2			)
Playback	Set	Maintain	Backup	Shutdo	wn

Figure 4-22 Basic Setting of Network

- DHCP: Obtain IP address automatically.
- IP Address: Set the IP address of NVR. Default is 192.168.1.9
- Subnet Mask: Default is 255.255.255.0.
- Gateway: Default is 192.168.1.1.
- MAC: the physical address of NVR.
- **DNS setup:** Domain Name Server, it translates the domain name into IP address, it contain primary DNS and secondary DNS.

• Internal IP: Set the beginning of IP addresses of those IP Cameras connected to POE panel. Default is 192.168.3.10. Make sure that this value should not be at the same subnet with the IP address of NVR.

• **Max Users:** The maximum number of users can simultaneously access the NVR. Default value is 10.

• **HS Download:** Download at a high speed on the network side.

• **Transfer Mode:** There are three modes: quality preferred, fluency preferred and adaptive. The code stream will adjust itself according to the setup, adaptive is the tradeoff between the image quality preferred and fluency preferred, fluency preferred and adaptive are valid only when the sub-stream is turned on, otherwise, quality preferred is valid.

#### Note:

> You can't set internal IP address if the NVR is not support POE function.

### 4.3.2.2 WIFI

Click on "Setting -> Network ->WIFI" Into the WIFI setting interface. This interface will display the search to WIFI Name, signal strength and encryption. You need to prepare a WIFI and connect to the USB connector of the NVR.

	Base	WIFI	3G/4G	P2P	DDNS	>
) Channel	SSID		Auth	;	Signal strength	_
Record						
🚊 Alarm						
∠ Smart search	Enable					Search
A Network	DHCP					
Setting	SIAIUS	Device does	i not exist			
°∓ °	Password					
	IP address					
	Sub Net Mask					
	Gateway					
						Apply
			- YA	 	(   )	
Playb	ack S	Set	Maintain	Backup	Shutdow	'n

Figure 4-23 WIFI Setting

- Enable: WIFI Enabling switch
- DHCP: Automatically obtain the IP Addresses and gateways.

### 4.3.2.2 3G/4G

Click on click on "Setting -> Network ->3G "Into the graphical interface. This page can be set 3G Function, Status, 3G Signal types, and Access point, Dial- number, User Name, Password, and 3G IP Addresses. You need to prepare a 3G/4G network Data Card and connect to the USB connector of the NVR. The User name and Password need to be supplied by your ISP.

1					
		Base	WIFI 3G/4G	P2P DDNS	>
	) Channel	Enable	✓ </th <th></th> <th></th>		
	Record	Туре	WCDMA	•	
	🚊 Alarm	Access point Dial Number	3G/4GNET *99#		
	Smart search	User Name Password	card ••••		
	A Network	IP address			
	Setting				
					ОК
		<u>کې</u> ۲	- Ka		
	' Playb	A Set	Maintain	Backup Shi	utdown

Figure 4-24 3G Setting

### 4.3.2.3 P2P

NVR can be connected to Cloud service and users can visit the NVR by its Cloud ID through Cellphone APP or the website <u>www.elevatep2p.com</u>.

Click on "Setting -> Network ->P2P "Into the graphical interface. This page shows the iPhone or Android APP download links, and the cloud ID Identification code.

	Base	WIFI 3G/4G	P2P	DDNS	
Channel	Enable	2			
	Status	Connected			
U Record	Cloud ID 🔒				
🔔 Alarm	IE Web				
A Network					
System					
		339742 El-4999			
					Apply
	и 🕰	255	ı ۲	<u>(1)</u>	
		<b>7</b> 8		$\bigcirc$	

Figure 4-25 P2P Setting

- Enable: P2P Function enabling switch.
- Status: Display P2P status.
- **Cloud ID:** P2P Identification number.
- IE Web: The P2P web address.

You can visit NVR by entering <u>www.elevatep2p.com</u> in the Web Browser of your computer, and click the option **By Device**, fill in the blank with the serial code Cloud ID, and Username, Password of NVR.

### 4.3.2.4 DDNS

DDNS is a service that can be used to automatically update DNS records if client PCs get their IP settings from a DHCP Server. If DDNS function is enabled on NVR, you can access the NVR by domain name provided by Internet Service Provider (ISP) provider.

Prior registration with your ISP is required before configuring the system to use DDNS.

ł						
		Base	WIFI 3G/4G	P2P	DDNS	>
	<ul><li></li></ul>	Enable DDNS Type	e 🔽 e Oray DDNS		•	
	C Record	Domain Name	e example.oray.ne	t		
	رَبَ Alarm	User Name Passwore	e wpl111 d eeeeeeee			
	() Smart search					
	A Network					
	Setting					
					-	
						Apply
		ि र्	R		$\bigcirc$	
	Playb	oack Set	Maintain	Backup	Shutdown	

Click on "Setting -> Network -> DDNS "Into the graphical interface.

#### Figure 4-26 DDNS Setting

• Enable: DDNS enabling switch.

• DDNS Type: ISP of DDNS, including Oray DDNS, CN99 DDNS, DynDNS DDNS, NO-IP

- DDNS. This option can be customized according to the requirement of users.
- **Domain name:** Fill in the domain name provided by ISP.
• User name/Password: Fill in the username and password input corresponds to the domain name.

## 4.3.2.5 UPNP

UPnP is a networking standard that uses protocols on the Internet to allow electronic devices connected to a network to detect and identify each other.

Click on "Setting -> Network ->UPNP "Into the graphical interface. This page can set up Media Port, HTTP Port and Handset Port. Check UPNP Is enabled, the external port can automatically obtain and use.

	< UPNP	UPNP-TM Em	ail FTP NTP	>
) Channel	UPNP	<b>~</b>		
C Record	Media port	Internal port	External port	
∩ Alarm	HTTP port	80		
	Handset port HTTPS	5801 443		
Smart search	SNMP	161		
A Network	RTSP port RTSP URL	554 rtsp://IP]:IPORT]/mode		
Setting				
			Default	Apply
		32	 [ <sup>1</sup> ] ( <sup>1</sup>	)
Playb	pack Set	Maintain	Backup Shutd	own

Figure 4-27 UPNP Setting

## 4.3.2.6 UPNP-TM

Enable UPNP-TM setting, we can find the Network Video Recorder as a network device on the computer. The name of the device would be the Cloud ID of the Network Video Recorder. By double clicking the icon, we can access the Network Video Recorder by browser.



Figure 4-28 UPNP-TM

# 4.3.2.7 Email

The system can be configured to send an Email notification to all designated users if an alarm event is detected, etc., an alarm or motion event is detected.

The network must be connected to the Internet in order to connect to the Email SMTP server.

Click on the "settings -> Network ->E-mail" into the graphical interface.

t t						
	< UPNP	UPNP-TM	Email	FTP	NTP	>
) Channel	En	able 🔽				
Record	SMTP se	Port 25				
∫ Alarm	Open : User n	SSL <b>polo.wang</b>	@gualvision.cn			
$\sqrt{2}$ Smart search	Passv	vord	0000 2000			
ح جي Network	Ser	ritle ALARM	@quaivision.cn			
Setting	Receiv Receiv	ver1 neal.wang ver2	@qualvision.cn			
	Receiv	ver3				
				M	ailTest	Apply
	 کار ا		λ		(')	
Playb	Jack Set	Mainta	ain B	 ackup	Shutdown	

#### Figure 4-29 E-mail Setting

- Enable: Enable the Email service.
- **SMTP Server**: The SMTP Server IP address or host name.
- **SMTP Port**: The SMTP port. The default TCP/IP port used for SMTP is 25.
- **Open SSL**: Click the checkbox to enable SSL if required by the SMTP server.
- User Name/Password: The username and password of the sender email accounts.
- **Sender:** Displayed by the recipient of the message sender email address.
- **Title:** The title displayed in the email.
- **Receiver:** The Email address of user to be notified (3 receivers at most).

After finishing the setting, you can click the button **MailTest** to try to verify the email service is available, and click the button **Apply** to activate the configuration.

## 4.3.2.8 FTP

You can upload the record file onto a FTP server by configuring the FTP settings. It allows you to upload the record file by the record type and record time.

Click on the "Setting -> Network ->FTP "Into the graphical interface.

÷						
	< UPNP	UPNP-TM	Email	FTP	NTP	>
Ohannel	Ena _	ble 🔽				
Record	ر ا Server IP addro	pe Record ess 192.168	FTP .1.45			
∩ Alarm	F	ort 21				
	Anonymo User Na	me example				
Smart search	Passw	ord eeeee	•••			
A Network	File Len	gth 100				М
Setting	Chan	nel 01[D]	CAM 1	•		
	Week D Schedul	0ay Fri e1 00 :00	- 24 :00	•	Norm. Even	1
	Schedul	e 2 00 : 00	- 24 :00			
			FTP	Test	Copy to	Apply
	বি কি	২১	ð		(   )	
Playb	pack Set	Maint	⊗ ain	Backup	Shutdov	vn

Figure 4-30 FTP Setting

• **FTP setting:** divided into video FTP and pictures FTP, you can set up your server IP, port, user name, password, directory, file length, and there are the Anonymous option, and FTP Setting whether the testing successful.

• **Channel setting:** you can select the channel to transmit, set up on weekday, as well as the time period.

After finishing the setting, you can click the button **FTP Test** to try to verify the FTP service is available, and **Copy To** button is used to copy the configuration of current channel to other channels. Click the button Apply to activate the configuration.

## 4.3.2.9 NTP

A Network Time Protocol (NTP) Server can be configured on your NVR to ensure the accuracy of system date/time.

Click on the "Setting -> Network ->NTP "Into the graphical interface. This page can be set NTP server IP, server port, update schedule.

t										
			UPNP	UPN	P-TM	Email	FTP	NTP		>
) Cha	nnel			Enable	<b>~</b>					
	ord		Server IP a	ddress	time.nist.	gov gov			•	
<u></u> Alarr	n		Update sc	Port hedule	123 10				min	
َ Sma	rt search									
A Netv	vork									
Setti	ing									
								Default	Save	
		]0	<u>ح</u> ک		X			(	)	
	Playb	back	Set		Maintai	n	Backup	Shut	down	

Figure 4-31 NTP Setting

• Enable: Enable the NTP service.

• **Server IP**: The NTP Server IP address or host name. Support two built-in server IPs and custom way.

- **Port**: Port of NTP server.
- **Update Schedule**: Time interval between the two synchronizing actions with NTP server. The unit is minute.

Click the button **Save** to save the configuration.

#### Note:

The time synchronization interval can be set from 1 to 65535min, and the default value is 10 min. If the NVR is connected to a public network, you should use a NTP server that has a time synchronization function, such as the server at the National Time Center.

## 4.3.2.10 Access

In this chapter by setting the IP address to be blocked and trusted, you can block specific IP address or allow some trusted IP.

Click on the "Setting -> Network -> Access "into the graphical interface.

<b>\</b>						
	Access	Cloud Sto	orage SN	MP Multi	icast	
) Channel	Restricted Type IP address	Blocked sites	. 0		Add IP	
C Record	0 IP Blocked					
َلَ Alarm						
Smart search						
A Network						
Setting						
				De	lete IP	Save
- Playba	A Co		aintain	Backup	L Shutdow <u>n</u>	

Figure 4-32 Access

• **Blocked Sites:** The IP Addresses which are added to blocked sites are not allowed to login NVR.

• **Trusted Sites:** Only the IP Addresses which are added to trusted sites are allowed to login NVR.

You can add IP or delete IP by clicking **Add IP** and **Delete IP** buttons. After the operation is finished, click the **Save** button.

# 4.3.2.11 Cloud Storage

As a new feature our device support upload video & picture to the cloud. Device will upload the video and picture to the cloud automatically after you set this function correctly.

Click on the "Setting -> Network ->Cloud Storage "into the graphical interface.

	< Access	Cloud Storage	SNMP	Multicast	
Ohannel	Enable	<b>~</b>			
	Cloud Type Status	Google Drive Unbind		•	
~	Operation	Bind			
∫ Alarm	Upload Directory				
Smart search				IVI	
A Network	Channel	01 [ D ] CAM 1	•		
Catting	Upload Type Video	Norm. Eve	nt		
	Picture				
				Copy to	Apply
		25		<u>ا</u> م	
Playb	Jack Set	Maintain	Backup	Shutdo	, ∾n

#### Figure 4-33 Cloud Storage

- Enable: Enable the cloud storage function.
- **Cloud Type:** Support two kinds of cloud type "Google Drive" & "Dropbox".
- Status: Shows the cloud storage function status "Bind" or "Unbind".
- **Operation:** Make sure you have already access to internet, click "Bind " button, the device and your Google account are will be bound.
- **Upload directly:** You can set the path of your account folder on your device.
- **File length:** Set the video length that will upload to the cloud.

It's about how you can enable this cloud storage function. You can set which kind of file you want to upload as you followed by the steps below.

- **Channel:** Choose the channel which you want upload files. Also you can choose different channels to set different upload plan.
- Upload type: Including "Norm" "Event" "Main" "Sub stream" four kinds of upload type.

• Video: In "Norm" type device will keep upload the video file all the time as long as recording keep going. In "Event" type device will only upload video files as plan that you set in alarm trigger process. "Main" and "Sub stream" means you can choose which the record file type you want to upload.

• **Picture:** Same as the video configuration. It has "Norm." and "Even" type of upload.

After the operation is finished, click the **Save** button to save the configuration.

# 4.3.2.12 SNMP

Simple Network Management Protocol (SNMP) is an Internet-standard protocol for collecting and organizing information about managed devices on IP networks and for modifying that information to change device behavior.

Click on the "Set -> Network ->SNMP "into the SNMP configuration interface. There are 3 versions in SNMP. V1/V2 are shown in **figure 4-34.** 

	< Access	Cloud Storage	SNMP	Multicast	
Or Channel	V1/V2	V3			
Record	SN Read	IMP version 🔽 V1 I community public	✓ V2		
∫ Alarm	Write T	community private	0 1		
ြာ Smart search	_	Trap port 162			
Retwork	Trap comn	nunity name public			
Setting					
				Default	Apply
 	<u>ح</u>	- Ale		()	
Playb	back Set	Maintain	Backup	Shutdowr	1

Figure 4-34 SNMP-V1/V2

V3 is shown in figure 4-35.

1							
		< Access	Cloud Sto	orage S	NMP	Multicast	
	) Channel	V1/V2	V3				
	Record	SNMP Read securi	version ty name	V3 public			
	∫ Alarm	Secur	ity level	no auth,no priv	ı	•	
	Smart search	Authentication pa	igoninm issword				
		Private-key al	lgorithm				
	A Network	Write securi	ty name	private			
	Setting	Secur	ity level	no auth,no priv	r	-	
		Authentication al	lgorithm				
		Authentication pa	assword				
		Private-key al	lgorithm				
		Private-key pa	issword				
						Default	Apply
		S I	2	R		(	
	Playt	ack Set	M	aintain	Backup	Shutdowr	1

Figure 4-35 SNMP-V3

# 4.3.2.13 Multicast

In computer networking, multicast (one-to-many or many-to-many distribution) is group communication where information is addressed to a group of destination computers simultaneously.

Click on the "Set -> Network ->SNMP "into the SNMP configuration interface, set the Multicast IP and Multicast port within the required range. If different source devices want to apply the multicast, the multicast IP should be DIFFERENT. In the last, enable the function and apply. As shown in **figure 4-36**.

	< Acces	s C	loud Storage	SNMP	Multicast	
) Channel	Enable					
Record	Multicast IP Multicast Port	224 . 1 40000	. 2 . 4		$(224.0.0.0 \sim 239.225.225.2)$ $(1025 \sim 65534)$	25)
∫_ Alarm						
Smart search						
A Network						
Setting						
					Apply	
	)d {	$\hat{\circ}$				

Figure 4-36 Multicast

# 4.3.3 Smart Search

Click on "Setting -> Smart search" into the Face detection searching interface, as shown in figure 4-37. This page you can select the record channel which had triggered face detection and has recording files. Then you can set the Start time and End time.

At last, Click 'Search' to search the face recorded in the specified channel during a period of time.

	Face detection Pass line statistics
Channel	Record CHN All 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
□ Record	Start time 2017 - 12 - 13 00 : 00 : 00 (3)
🔔 Alarm	End time 2017 - 12 - 14 17 : 05 : 37 💮
() Smart search	
🏯 Network	
🖵 Setting	N
	Search

Figure 4-37 Smart Search



#### Figure 4-38 Smart Search results

In this page, you can select the way of face detection's preview ---chart or list. Then you can choose some recordings and decide whether to backup the pictures or videos.

## 4.3.4 Alarm

The NVR supports video detection alarm, including motion detection, crossing detection, intrusion detection, masking detection, video lost detection. And also the device supports Alarm out configuration and Exception warnings such as HDD error, no writable disk, disk no space, network disconnection or IP conflicted.

Note:

Video detection should be supported by the IP Camera, so please refer the User Manual of IP Camera to confirm the video detection types. If the IP Camera does not support some types of the video detection, the configuration on the NVR would be unable to activate

## 4.3.3.1 Motion

Motion detection is to detect the movement of the channel. If any movement appears in the surveillance area, the NVR will detect it and respond according to the settings.

Click on the "Setting -> Alarm -> Motion" into the setting interface.

	Motior	Crossing	Intrusion	Maskir	ıg	Loss	>
<ul> <li>Channel</li> <li>Record</li> <li>Alarm</li> <li>Network</li> <li>System</li> </ul>		Select all	Clear	Channel Enable Sehedule Interval igger process	01 [ D ] CA Set 0 Set	M 1	3
					Сору То	Default	Apply
	• <b></b> A PlayBack	رمک Setting	Maintain	Backup	Shutd	) own	

Figure 4-39 Motion Detect

- Channel: Select the channel.
- Enable: Motion detection-enabled switch.

• **Schedule:** Set the time slot of motion detection. Here it supports 6 time slots at most. You can copy the setting to other days: click **Copy**, and select another weekday, click **Paste** to have it configured as the former one. Click **Default** to clear all the settings. (as shown in figure 4-40)



#### **Figure 4-40 Schedule Setting**

• Interval: Set the time interval of each motion detection triggered.

• **Trigger process:** Set the handling action of motion detection, including alarm output, alarm delay, show massage, buzzer, send Email, record channels and record delay, PTZ act, tour and Snapshot (as shown in **figure 4-41**).

							E	ver	nt pr	oce	ess										
	Alarm out																				
	Alarm delay	10				sec															
	Show message																				
	Buzzer																				
	Send email																				
$\checkmark$	Record CHN		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
		21	22	23	24	25	26	27	28	29	30	31	32								
	Record delay	10				sec															
	PTZ act		S	et																	
	Tour		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
		21	22	23	24	25	26	27	28	29	30	31	32								
	Snapshot	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
		21	22	23	24	25	26	27	28	29	30	31	32								
																				S	ave

**Figure 4-41 Event Process** 

• **Sensitivity:** Set Sensitivity of motion detection, range from 1 to 6.

You need to select the surveillance area on the screen, by click and drag the mouse, or you can click the button **Select All** to select all the surveillance area, or click the button **Clear** to reset the button:



**Figure 4-42 Select partially** Click **Apply** button to save the settings.

Figure 4-43 Select All

# 4.3.3.2 Intelligent Detection

### 4.3.3.2.1 Line Crossing

Crossing detection is used to detect the object crossing the set virtual line. The direction can be set as bidirectional, or from side A to B, or from side B to A. If there's object move from one side to another, it will trigger the alarm and the NVR will respond those actions as configured, such as record, show message, send email, etc.

Click on the "setting -> Alarm -> Intelligent detection -> Line Crossing" into the graphical interface.

	Mot	ion detection	Intelligent detection	Video shelter	Video lost	Port	
<ul><li>Channel</li><li>Record</li></ul>	Line Fas Loiterii	Crossing it Moving 1g Detection	Area Intrusion Unattended Object Parking Detection	Region Entri Object Miss People Gathering	ance F ling F Detection	Region Exiting ace Detection	
Alarm				Enable Schedule Interval III	Set		
Setting	и 1 сам 1			Number 1 Sensitivity — Direction A	•		- 50 -
		Clear	Clear all				
				Сору	rto Default	Арр	ly
	• Playback	ې set	Maintain	Backup	Shutdown		

Figure 4-44 Line Crossing

- Channel: Select the channel.
- Enable: Crossing detection enabled switch.
- Schedule: Set the time slot to detect crossing. You can take the setting of chapter

4.3.3.1 motion detection for reference.

- Interval: Set the time interval of each crossing detection triggered.
- **Trigger process:** Set the handling action of crossing detection; please take the setting

of chapter 4.3.3.1 motion detection for reference.

You can add virtual line to the surveillance area like following steps:

- 1. Choose the line number, the maximum number of the line is 4.
- 2. Select the direction: A<->B, A->B, B->A.

A<->B: Only the arrow on the B side shows; when an object going across the configured line with both direction can be detected and alarms are triggered.

**A->B:** Only the object crossing the configured line from the A side to the B side can be detected.

**B->A:** Only the object crossing the configured line from the B side to the A side can be detected.

- 3. Adjust the sensitivity. Range from 1-100.The higher the value is, the more easily the detection alarm can be triggered.
- 4. Click the Apply button to save the settings.

	Channel Enable Schedule Interval Trigger process	02 [ D ] CAM 2 Set 0 Set	•
Clear Clear all	Number Sensitivity Direction	1 ● A<->B	- 50 -
	Copy to	Default Ap	ply

Figure 4-45 Add Virtual Line

After all the settings finished, click the button **Apply** to activate all the settings.

### 4.3.3.2.2 Area Intrusion

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

Click on the "Setting -> Alarm -> Intelligent detection -> Area Intrusion "into the graphical interface.



Figure 4-46 Area Intrusion

- Channel: Select the channel.
- Enable: Intrusion detection enabled switch.
- Schedule: Set the time slot to detect intrusion. You can take the setting of chapter
- 4.3.3.1 motion detection for reference.
- Interval: Set the time interval of each intrusion detection triggered.
- **Trigger process:** Set the handling action of intrusion detection; please take the setting of chapter 4.3.3.1 motion detection for reference.

- 1. Choose the area number, the maximum number of the area is 4.
- 2. Set detect time threshold. For example, if you set the time threshold is 5 seconds and someone intrude your area about 3 seconds alarm cannot be triggered.
- 3. Adjust the sensitivity. Range from 1-100. The higher the value is, the more easily the detection alarm can be triggered.
- 4. Percent. Range from 1-100. For example, if you set the percent is 50, alarm will be triggered only when the area be intruded more than half.
- 5. Click the Apply button to save the settings.

AS AN AND	Channel Enable	02[D]CAM 2 •
	Schedule Interval Trigger process	Set 0 Set
Clear Clear all	Number Sensitivity Time threshold Percent	1 • 50 • 0 • 1
	Copy to	Default Apply

#### Figure 4-47 Set Intrusion Zone

After all the settings finished, click the button **Apply** to activate all the settings.

### 4.3.3.2.3 Region Entrance

Region Entrance function detects people, vehicle or other objects which enter in a forbidden pre-defined virtual region from outside, and some certain actions can be taken when the alarm is triggered.

Click on the "Setting-> Alarm->Intelligent detection -> Region Entrance" into the graphical interface.

	Motion detection	Intelligent detection	Video shelter V	ïdeo lost Port >
<ul> <li>Channel</li> <li>Record</li> <li>Alarm</li> </ul>	Line Crossing Fast Moving Loitering Detection	Area Intrusion Unattended Object Parking Detection	Region Entrance Object Missing People Gathering Detectl Channel 05 [ D ] C Enable Schedule Set	Region Exiting Face Detection on CAM 5
Smart search 品の Setting		ear Clear all	Interval 0 Set Action Set Number 1 Sensitivity	50
			Copy to	Default Apply
	Playback Set	Maintain	Backup	Shutdown

#### Figure 4-48 Region detection

- Channel: Select the channel.
- Enable: Intrusion detection enabled switch.
- Schedule: Set the time slot to detect intrusion. You can take the setting of chapter
- 4.3.3.1 motion detection for reference.
- Interval: Set the time interval of each intrusion detection triggered.
- **Trigger process:** Set the handling action of intrusion detection; please take the setting of chapter 4.3.3.1 motion detection for reference.

You can add virtual area to the surveillance area like following steps:

1. Choose the area number, the maximum number of the area is 4.

- 2.Adjust the sensitivity. Range from 1-100. The higher the value is, the more easily the detection alarm can be triggered.
- 3. Click the Apply button to save the settings.

After all the settings finished, click the button **Apply** to activate all the settings.

### 4.3.3.2.4 Region Exiting

Region Exiting function detects people, vehicle or other objects which exit a forbidden pre-defined virtual region from inside, and some certain actions can be taken when the alarm is triggered.

Click on the "Setting -> Alarm -> Intelligent detection -> Region Exiting "into the graphical interface.



Figure 4-49 Region detection

- Channel: Select the channel.
- Enable: Intrusion detection enabled switch.
- Schedule: Set the time slot to detect intrusion. You can take the setting of chapter
- 4.3.3.1 motion detection for reference.
- Interval: Set the time interval of each intrusion detection triggered.
- **Trigger process:** Set the handling action of intrusion detection; please take the setting of chapter 4.3.3.1 motion detection for reference.

1. Choose the area number, the maximum number of the area is 4.

- 2.Adjust the sensitivity. Range from 1-100. The higher the value is, the more easily the detection alarm can be triggered.
- 3. Click the Apply button to save the settings.

After all the settings finished, click the button **Apply** to activate all the settings.

### 4.3.3.2.5 Unattended Object

Unattended Object function detects articles that left in a certain pre-defined virtual region, and some certain actions can be taken when the alarm is triggered.

Click on the "Setting -> Alarm -> Intelligent detection -> Unattended Object "into the graphical interface.

	Motion detection	Intelligent detection	Video shelter Vid	leo lost Port >
<ul> <li>Channel</li> <li>Record</li> <li>Alarm</li> <li>Smart search</li> <li>Network</li> <li>Setting</li> </ul>	Line Crossing Fast Moving Loitering Detection	Area Intrusion Unatiended Object Parking Detection	Region Entrance         Object Missing         People Gathering Detection         Channel       05 [ D ] C/         Enable       Schedule         Interval       0         Action       Set         Number       1         Sensitivity       5	Region Exiting Face Detection
	Playback	Maintain	Copy to Backup S	Defauit Apply

Figure 4-50 Unattended Object

- Channel: Select the channel.
- Enable: Intrusion detection enabled switch.
- Schedule: Set the time slot to detect intrusion. You can take the setting of chapter
- 4.3.3.1 motion detection for reference.
- Interval: Set the time interval of each intrusion detection triggered.
- **Trigger process:** Set the handling action of intrusion detection; please take the setting of chapter 4.3.3.1 motion detection for reference.

- 1. Choose the area number, the maximum number of the area is 4.
- 2.Adjust the sensitivity. Range from 1-100. The higher the value is, the more easily the detection alarm can be triggered.
- 3.Set detect time threshold. For example, if you set the time threshold is 5 seconds and someone intrude your area about 3 seconds alarm cannot be triggered.
- 4.Click the Apply button to save the settings.

After all the settings finished, click the button **Apply** to activate all the settings.

### 4.3.3.2.6 Object Missing

Object Missing function detect articles that missing in a certain pre-defined virtual region, and some certain actions can be taken when the alarm is triggered.

Click on the "Setting -> Alarm -> Intelligent detection -> Object Missing "into the graphical interface.



Figure 4-51 Object Missing

- **Channel:** Select the channel.
- Enable: Intrusion detection enabled switch.
- Schedule: Set the time slot to detect intrusion. You can take the setting of chapter
- 4.3.3.1 motion detection for reference.
- Interval: Set the time interval of each intrusion detection triggered.
- **Trigger process:** Set the handling action of intrusion detection; please take the setting of chapter 4.3.3.1 motion detection for reference.

- 1. Choose the area number, the maximum number of the area is 4.
- 2.Adjust the sensitivity. Range from 1-100. The higher the value is, the more easily the detection alarm can be triggered.
- 3.Set detect time threshold. For example, if you set the time threshold is 5 seconds and someone intrude your area about 3 seconds alarm cannot be triggered.
- 4. Click the Apply button to save the settings.

After all the settings finished, click the button **Apply** to activate all the settings.

### 4.3.3.2.7 Fast Moving

Fast Moving function detects people, vehicle and some other objects that move with forbidden speed, and some certain actions can be taken when the alarm is triggered.

Click on the "Setting -> Alarm -> Intelligent detection -> Fast Moving "into the graphical interface.

	Motion detection	Intelligent detection	Video shelter	Video lost Port >
Channel Channel	Line Crossing Fast Moving Loitering Detection	Area Intrusion Unattended Object Parking Detection	Region Entrance Object Missing People Gathering Del	e Region Exiting Face Detection
Alarm       ()     Smart search       ()     Network       Setting			Channel 05 [1 Enable Schedule interval 0 Action Number Sensitivity	D ] CAM 5 • Set Set 50
	CAM1	ear Clear all		
			Copy to	Default Apply
	Playback	Maintain	Васкир	Shutdown

Figure 4-52 Fats Moving

- Channel: Select the channel.
- **Enable:** Intrusion detection enabled switch.
- Schedule: Set the time slot to detect intrusion. You can take the setting of chapter
- 4.3.3.1 motion detection for reference.
- Interval: Set the time interval of each intrusion detection triggered.
- **Trigger process:** Set the handling action of intrusion detection; please take the setting of chapter 4.3.3.1 motion detection for reference.

1. Choose the area number, the maximum number of the area is 4.

2.Adjust the sensitivity. Range from 1-100. The higher the value is, the more easily the detection alarm can be triggered.

3. Click the Apply button to save the settings.

After all the settings finished, click the button **Apply** to activate all the settings.

### 4.3.3.2.8 Face Detection

Face detection function detect peoples' faces in a certain pre-defined virtual region, and some certain actions can be taken when the alarm is triggered.

Click on the "Setting -> Alarm -> Intelligent detection -> Face Detection "into the graphical interface.

	Motion detection	Intelligent detection	Video shelter Vide	eo lost Port >
<ul> <li>Channel</li> <li>Record</li> <li>Alarm</li> <li>Smart search</li> <li>Network</li> <li>Setting</li> </ul>	Line Crossing Fast Moving Loitering Detection	Area Intrusion Unattended Object Parking Detection	Region Entrance       Object Missing       People Gathering Detection       Channel     05 [D] CA       Enable     St       Schedule     St       Action     Set       Number     1	Region Exiling Face Detection
	Ciea Playback Set	r Clear all Maintain	Copy to	Default Apply

Figure 4-53 Face Detection

- Channel: Select the channel.
- Enable: Face Detection enabled switch.
- Schedule: Set the time slot to detect intrusion. You can take the setting of chapter
- 4.3.3.1 motion detection for reference.
- Interval: Set the time interval of Face Detection triggered.
- Action: Set the handling action of intrusion detection; please take the setting of chapter 4.3.3.1 motion detection for reference.

- 1. Choose the area number, the maximum number of the area is 4.
- 2. Adjust the sensitivity. Range from 1-100. The higher the value is, the more easily the detection alarm can be triggered.
- 3. Click the Apply button to save the settings.

After all the settings finished, click the button **Apply** to activate all the settings.

### 4.3.3.2.9 Loitering Detection

Loitering Detection alarm is triggered when people, go straight and back at least 3 times, or go not in a straight line in a pre-defined virtual region, and some certain actions can be taken when the alarm is triggered.

Click on the "Setting -> Alarm -> Intelligent detection -> Loitering Detection "into the graphical interface.

	Motion detection	Intelligent detection	Video shelter	Video lost	Port
Channel         Record         Alarm         Smart search         Ak         Network         Setting	Line Crossing Fast Moving Lottering Detection	Area Intrusion Unatiended Objact Parking Detection	Region Entra Object Miss People Gathering Channel Of Enable Schedule Interval O Action Number 1 Sensitivity Time Threshold S Journey O Jo	to Default	gion Exiting te Detection
	· Playback	St Maintain	Backup	Shutdown	

Figure 4-54 Loitering Detection

- Channel: Select the channel.
- Enable: Loitering Detection enabled switch.
- Schedule: Set the time slot to detect intrusion. You can take the setting of chapter
- 4.3.3.1 motion detection for reference.
- Interval: Set the time interval of Loitering Detection triggered.
- Action: Set the handling action of intrusion detection; please take the setting of chapter 4.3.3.1 motion detection for reference.

- 1. Choose the area number, the maximum number of the area is 4.
- 2. Adjust the sensitivity. Range from 1-100. The higher the value is, the more easily the detection alarm can be triggered.
- 3. Set detect time threshold. For example, if you set the time threshold is 5 seconds and someone intrude your area about 3 seconds alarm cannot be triggered.
- 4. Journey: 3 modes can be chosen in Loitering Detection, Offset, Weight and Journey. You can choose one, two or all of them.
- 5. Click the Apply button to save the settings.

After all the settings finished, click the button **Apply** to activate all the settings.

### 4.3.3.2.10 Parking Detection

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

Click on the "Setting -> Alarm -> Intelligent detection -> Parking Detection "into the graphical interface.



Figure 4-55 Parking Detection

- Channel: Select the channel.
- Enable: Loitering Detection enabled switch.
- Schedule: Set the time slot to detect intrusion. You can take the setting of chapter
- 4.3.3.1 motion detection for reference.
- Interval: Set the time interval of Parking Detection triggered.
- Action: Set the handling action of intrusion detection; please take the setting of chapter 4.3.3.1 motion detection for reference.

- 1. Choose the area number, the maximum number of the area is 4.
- 2. Adjust the sensitivity. Range from 1-100. The higher the value is, the more easily the detection alarm can be triggered.
- 3. Set detect time threshold. For example, if you set the time threshold is 5 seconds and someone intrude your area about 3 seconds alarm cannot be triggered.
- 4. Click the Apply button to save the settings.

After all the settings finished, click the button **Apply** to activate all the settings.

### 4.3.3.2.11 People Gathering Detection

People Gathering Detection alarm is triggered when there are many people in a pre-defined virtual region, and some certain actions can be taken when the alarm is triggered.

Click on the "Setting -> Alarm -> Intelligent detection -> People Gathering Detection "into the graphical interface.

	Mo	tion detection	Intelligent detection	Video shelter	Video lost	Port	
Image: Second	Line Fa Loiter	e Crossing st Moving Ing Detection	Area Intrusion Unatlended Object Parking Detection	Region Entr Object Mis People Gathering Channel C Enable Schedule Interval Action Number Sensitivity Time Threshold Percent	ance R sing Fa g Detection 55 (D) CAM 5 Set Set	egion Exiting	• 50
	· 🛄 🎝 Playback	ç Set	Maintain	Backup	y to Default Shutdown	Apply	<b>y</b>

Figure 4-56 People Gathering Detection

- Channel: Select the channel.
- Enable: Loitering Detection enabled switch.
- Schedule: Set the time slot to detect intrusion. You can take the setting of chapter
- 4.3.3.1 motion detection for reference.
- Interval: Set the time interval of People Gathering Detection triggered.
- Action: Set the handling action of intrusion detection; please take the setting of chapter 4.3.3.1 motion detection for reference.

You can add virtual area to the surveillance area like following steps:

- 1. Choose the area number, the maximum number of the area is 4.
- 2. Adjust the sensitivity. Range from 1-100. The higher the value is, the more easily the detection alarm can be triggered.
- 3. Set detect time threshold. For example, if you set the time threshold is 5 seconds and someone intrude your area about 3 seconds alarm cannot be triggered.
- 4. Adjust the percent. Range from 1-100. The higher the value is, the more edge pixels needed to trigger the detection alarm.
- 5. Click the Apply button to save the settings.

After all the settings finished, click the button **Apply** to activate all the settings.

# 4.3.3.3 Video shelter

Detect video masked on a channel and take alarm response actions.

Click on the "Settings -> Alarm ->Video shelter" into the graphical interface.

7							
			Motion detection	Intelligen	detection	Video shelter	۲
	Channel			and the second	Channel	01 [ D ] CAM 1	•
	C Record				Schedule	Set	
	Alarm				Action	Set	
	Smart search	TR	10		Sensitivity	•	3
	A Network			iziolii ib			
	Setting						
					Copy to	Default	Apply
		](]	<u>حکک</u>	-XZ			
	Playb	ack	Set	Maintain	Back	up Shutdowr	1

Figure 4-57 Masking

- Channel: Select the channel.
- Enable: Video masking enabled switch.
- Schedule: Set the time slot to detect video masking. You can take the setting of

chapter 4.3.3.1 motion detection for reference.

- **Trigger process:** Set the handling action of masking detection; please take the setting
- of chapter 4.3.3.1 motion detection for reference.

After all the settings finished, click the button **Apply** to activate all the settings.

## 4.3.3.4 Loss

Detect video loss of a channel and take alarm response actions.

Click on the "Settings -> Alarm -> loss "into the graphical interface.



Figure 4-58 Video Loss

- Channel: Select the channel.
- Enable: Video loss enabled switch.
- Schedule: Set time slot to detect video loss.
- **Trigger process:** Set the handling action of video loss detection; please take the setting of chapter 4.3.3.1 motion detection for reference.

After all the settings finished, click the button **Apply** to activate all the settings.

## 4.3.3.5 Port

Set the handling action of external sensor alarms, including alarm input and alarm output.

Click on the "Settings -> Alarm ->Port "into the graphic interface

	Port	Abnormality				
Channel	8 Alarm in	Туре	Status	Name	Alarm in1	
	1 Alarm in1	Normal open	Off	Туре	Normal open	
C Record	3 Alarm in3	Normal open	Off	Enable		
	4 Alarm in4	Normal and	0"	Sobodulo	Sat	
L Alarm	5 Alarm in5	U	ру то	Guiledule	Set	
Smart search	7 Alarm in7 A			Interval	<u> </u>	
Cy Sman search	8 Alarm in8	All		Action	Set	
🚠 Network		2 3 4 5 6 7 8				
💭 Setting	2 Alarm ou			Name	Alarm out1	
	1 Alarm ou	All		Туре	Schedule	
	2 Alaini ou	2				
			*			
			ОК	Cancel		
				Copy to D	efault Ap	ply

Figure 4-59 Alarm port

Alarm input device is a kind of device which can detect the surveillance area by some sensors such as infrared sensor or temperature sensor, and when the environment is been changed, the sensor will detect information and alter the status.

• Name: Set the name of the Alarm input device.

• **Type:** Normal Open/Normal Close. It means the system support those external sensor alarms which have two statuses: Open and Close. When the status switches from Open -> Close, or from Close->Open, alarm will be triggered.

- Enable: Alarm in enabled switch.
- Schedule: Set time slot to detect video loss.
- Interval: Set the time interval of each Alarm in triggered.
- Action: Set the handling action of alarm in detection; please take the setting of chapter 4.3.3.1 motion detection for reference.

Alarm output device is a kind of device which can output warning signal such as sound or light, to remind the user that there's alarm are triggered.

• Name: Set the name of the Alarm output device.

• **Type:** Three types: Schedule/Manual/Stop. Schedule means the alarm output device will be activated when the NVR detects the alarm. Manual means the alarm output device will be activated after choosing the Manual and press the button Apply. Stop means the alarm output device is not on-guard.

After all the settings finished, click the button **Apply** to activate all the settings. You can also click **Copy to** to copy the setting to another port.

# 4.3.3.6 Exception

Exception settings refer to the handling action of various exceptions, including No writable disk, Disk error, Disk no space, Network Disconnection, IP Conflicted.

	< Video lost	Port Abnormality		
<ul> <li>Channel</li> <li>Record</li> <li>Alarm</li> <li>Smart search</li> <li>Network</li> <li>Setting</li> </ul>	Type Enable Show message Buzzer Send email Alarm out Alarm delay	Disk Error No Writable Disk Disk Error Disk No Space Network disconnection IP conflict S.M.A.R.T 1 2 10 Sec		Apply
Playb	Aack Set	Maintain B	ackup Shut	down

Click on the "Settings -> Alarm-> Exception "into the graphical interface.

Figure 4-60 Exception Alarm

• No writable disk: If all HDD are set to only read, this exception will be triggered. It supports these methods to remind the user about the exception: Show Message, Buzzer, Send Email and Alarm Out.

• **Disk Error:** If writing HDD error or DHH is unformatted, this exception will be triggered. It supports these methods to remind the user about the exception: Show Message and Buzzer.

• **Disk No Space:** You can set minimum percentage of hard disk space. The handling actions of this exception are Show Message, Buzzer, Send Email and Alarm Out.

• **Network Disconnection:** If network is disconnected, this exception will be triggered. It supports these methods to remind the user about the exception: Show Message, Buzzer and Alarm out.

• IP Conflicted: Contain If IP conflict with other device at the same network, exception will be triggered. It supports these methods to remind the user about the exception: Show Message, Buzzer and Alarm out.

• **S.M.A.R.T:** This exception is about HDD health detection. It will be triggered when the HDD of device have some problems and not work under good condition. It supports these methods to remind the user about the exception: Show Message and Buzzer.

After all the settings finished, click the button **Apply** to activate all the settings.

# 4.3.5 Record

In this chapter we can make the schedule for the record by configuring the related parameters, and before these operations, please make sure that the HDD has already been installed and formatted. If not, please install the HDD and initialize it. For detailed information, please refer to chapter: Maintain->HDD management.



Click on the "Setting ->Record ->Schedule" into the graphical interface.

#### Figure 4-61 Record Plan Setting

On this schedule setting screen, we can set the record schedule for specific channels.

- Channel: Select the channel to configure
- Sub stream: To record as both main stream and sub stream.
- Pre-Record: The time to be pre-record on the created videos. Range from 0-30 seconds.
- Redundancy: The record will be backed up in redundant HDD, if there is redundant HDD device installed in the system. Please check the chapter 4.4.3 for the details.

Note:

If there are several channels to be set with pre-record function, the pre-record time will be less than 30 seconds (the maximum value), because pre-record function will consume the system resources and it will adjust the time length to support many channels at the same time.



You can click the button Edit to enter the edit screen and set the schedule of the record.

Figure 4-62 Record Plan Edit

- Week Day: The day to set the schedule, from Sunday to Saturday.
- Schedule 1-6: The time slot for the record, you can set 6 time slots during one day.
- Norm.: The type of the record, record as normal video.
- MD: The type of the record, record as motion detection video.
- Alarm: The type of the record, record as alarm video.

You can check the All to select all the week day and set the schedule at the same time, or check several of them. If Norm, MD and Alarm are checked at the same time, it will record as a priority like: Alarm > MD > Norm. That means if the three type of detection occurred at the same time, the type of the record will be set as Alarm video.

You can also edit the schedule on the configuration graph screen, as shown in Figure 4-45.



#### Figure 4-63 Edit graph

- By selecting the checkbox on the right we can edit the corresponding bar on the left. For example, if we check the MD, and edit the corresponding bar, we will be able to edit the yellow part of the bar.
- 2. By clicking the icon eraser / , we can clear the setting of the bar at once.

After all the settings finished, click the button Apply to activate all the settings.

You can copy the current channel setting to other channels by clicking the button Copy To. As shown in Figure 4-46.



Figure 4-64 Copy To

By clicking the button Default, you can reset all the settings.

# 4.3.6 Channel

In this chapter you can configure the channel and add the IP Cameras into the corresponding channel, set encode, adjust the parameters of the IP Cameras, and set the OSD menu, privacy masking and PTZ functions.

Before adding the IP Cameras to NVR channels, please make sure that the IP Cameras and NVR are in the same network, and IP Cameras are in active status.

# 4.3.6.1 IP Channel

Click on the "Setting -> Channel ->IP channel" into the graphical interface. This page also shows the information of real-time network bandwidth usage.

	IP channel		Encode	Color	OSD	Cover	
Channel	Bandwidth used/tot	al: 7M/3					
E	Chn		Upgrade	- IP	Status		
TI Becord	01[D] CAM 1	1	+	* 192,168 1,20	Connecter	d(1080P/CIF)	
	02[D] CAM 2		÷	¥ 192.168.1.21	Connecte	d(720P/CIF)	
2	03[D] CAM 3		(*)		No configu	uration(/)	
Alarm	04[D] CAM 4	1			No configu	uration(/)	
	05[D] CAM 5		÷ 1		No configu	uration(/)	
Network	06[D] CAM 6		+		No configu	uration(/)	
DO INCIMUIN	07[D] CAM 7	1	+		No configu	uration(/)	
	08[D] CAM 8				No configu	uration(/)	
System							
	Delete	Clear	all E	Encode	Copy to		
	2 Name		Protocol	IP	Port		
	1 IPC		InVid-1	192.168.1.2	0 34567	🖌 LAN1	
	2 IPC		InVid-1	192.168.1.2	1 34567	/ LAN1	
	All		Search	Add	Quick set	Automatic I	PD
-	n 263		22	Г	h	(1)	

Figure 4-65 IP Channel Setting

### 4.3.6.1.1 Device edit

The list above shows the channel name for each channel, IP Address, connection protocols, connection status, and includes:

• Delete: Delete the IPC highlighted. Also you can click the icon to delete the IP

camera.

- Clear All: Clear all the connected IPCs.
- **Encode:** Settings for the connected IPC fast encode settings. As shown in figure 4-66. Encode For the details, please refer to chapter 4.3.5.2 Encode.

		Encode con	fig				
Channel	01 [ D ] CAM 1						
Streamtype	Main			Sub stream	n		•
Compression	H.264			H.264			
Resolution	1080P			CIF			
Frame rate(FPS)	25			25			
Bit rate type	CBR			CBR			
Quality							
Bit rate(Kb/S)	4096			1024			
IFrame Gop	20	10 - 100		20		10 -	100
Video/Audio							
			c	opy to	OK		Cancel
					0.1		

Figure 4-66 Encode Config

• **Copy to:** You can choose to copy some IPC Parameters to the remaining number of channels. As shown in **figure 4-67.** 

							C	Cop	y to						
	All														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
													_		
											OK				Cancel

Figure 4-67 Copy the Encode Setting

• Edit: Click the icon *i*, and enter the screen of Edit. Select channel, enter the user

name and password of the IP Camera, select the time sync type, connection protocol type, modify or add IP address, port number. As shown in **figure 4-68**.

	E	dit	
Channel	01 [ D ] CAM 1		+
Туре			
User name	admin		
Password			
Time sync	UTC		•
Protocol	InVid-1		•
IP	192.168.1.20		
Port	34567		
Main stream			
Sub stream			K
			2
		ок	Cancel

Figure 4-68 IPC Edit

- **Preview:** Click the icon, and you can see a preview of the connected channel IPC.
- **Upgrade:** Click the icon **1**, and upgrade IPC connected. As shown in **figure 4-69**.

	IPC up	ograde			
Device name	sdb1(USB DISK)		• *.up	of 👻	Detect
FILE		Siz	е Тур	e Modify	date
System Volume	Information		DIF	२	
source			DIF	२	
Tool			DIF	२	
TeamViewer_1	2.0.71503_XiaZaiBa		DIF	२	
system			DIF	२	
AHR-5504_ZX	_V2.10.6.R.20160709_release.	9.41 MB	FILE	2016/9/20	11:41:28
IPC-5120_121	QV112_V2.10.6.R.20160420_re	6.97 MB	FILE	2016/12/6	11:01:26
NVR-7616_ZX	_V2.10.6.R.20160712.upf	13.49 MB	FILE	2016/10/24	4 9:42:32
UVR-7508_ZX	_V2.10.6.R.20160909.upf	14.45 MB	FILE	2016/12/1	3 10:46:4
					Upgrade

#### Figure 4-69 IPC upgrade

After all the settings finished, click the button **Apply** to activate all the settings.

### 4.3.6.1.2 IPC Searching

This list shows the device name, type of agreement, IP Address, port number and access networks of all IP cameras that have found in the same subnet.

• Search: Scope search contains private agreements, ONVIF Protocol search and comprehensive search of both types of agreements. Click to search all of the devices under the same network segment. You can click the protocol drop box and select the corresponding protocol. Please refer to the Figure 4-70.



Figure 4-70 IPC Search

• Add: Device is selected click on the muscle can increase to the Edit bar and automatic connection.

• **Quick Set:** Click the button to add all IPCs to the channels automatically according to the found IP cameras list.

• Automatic IP: Auto assign IP address to the IP cameras, the assigned IP address are at the same segment with the NVR.

#### Note:

If our IP camera's IP address is not in the same segment with the NVR, the NVR can still find the IP camera, you should change the IP address of IP camera first.

# 4.3.6.2 Encode

By configuring the encode parameters you can define the parameters which affect the image quality, such as the Compression type, Resolution, Frame Rate, Bit Rate Type, Quality, etc. The NVR support Dual Stream Encode, we can set the main stream encode and sub stream encode on this screen.

Click on the "Setting -> Channel -> Encode" into the graphical interface.

D Channel	Channel	05 [ D ] CAM 5		-			
2	Stream type	Main stream			Sub stream		
71	Compression	Main stream			H.264		
	Complexity level	Event stream	▶		Main Profile		
	Resolution	1080P		•	D1		
	Frame rate(FPS)	25		÷	25		
	Bit rate type	CBR		-	VBR		
Smart search	Image quality				Standard		
	Bit rate(Kb/S)	4096		-			
B Network	IFrame gop	20	10 - 100		20	10 - 100	
	Video/Audio						
	1000 Contra 2000 contra						
	_						

#### Figure 4-71 Encode

- Channel: Select the channel to configure.
- Stream Type: Main Stream/Sub Stream/Event Stream/Mobile Stream

• **Compression:** H.265, this is the compression protocol for encoding. It also support H.264 IP cameras.

- **Resolution:** The resolution of the encoding record.
- Frame Rate (FPS): The number of frames per second in the encoding video.
- Bit Rate Type: CBR/VBR.
- Image Quality: Lowest/Low/Standard/Good/Better/Best
- Bit Rate(Kb/s): Value of the Bandwidth
- I-Frame GOP: I-frame setting, range from 10-100
- **Video/Audio:** To encode the Video and Audio in the record files. The video in mainstream is always enabled.
- H.264+/H.265+: Enable smart encode technology, all the record file can reduce the HDD space maximum 80%-90% in static view.

After all the setting finished, click the button **Apply** to activate the configuration.

You can copy the configuration of selected channels to the one which you would like to apply the same configuration. By clicking **Copy To** button, select the channels and save the setting. Please refer to Figure 4-49 Copy To.



Figure 4-72 Copy To

## 4.3.6.3 Color

IP Cameras support image adjustment such as Brightness, Contrast, Saturation, Hue and Sharpness. Some high-end IP Cameras support advanced Settings such as Image adjust, Exposure, Backlight, White balance, Day/Night setting, etc. In this chapter you can configure the IP Camera to improve the image and make a better view experience.

Click on the "Settings -> Channel ->Color "into the graphical interface.

Channel     Record		5083-18-09 57-08-81	Channel Image Mode StartEnd	01 [ D ] ( Manual 07 : 0	CAM 1	<b>-</b> (	19 : 00 : 00 Nicht	-
<ul> <li>Alarm</li> <li>         Smart search</li></ul>			Image a White ba Enhance Brightne	idjust ilance iment	Expo Day/ħ	sure	Backlight Video adjust	- 5
🖵 Setting		Clear	Contri Saturati H Sharpne	ast on lue ess		•		51 51 51 51

Figure 4-73 Channel Color Setting

- **Channel:** Select the channel to configure.
- **Period:** Set the effective period of the configuration, it supports 2 period settings.
- Image Mode: The image mode for specific period of the configuration, there are Auto/Manual for options. Auto mode keeps the image settings for 24h, and Manual mode supports 2 period settings (Day period & Night period). You can set independent image settings for different period.
- **Start-End:** Set the image mode as Manual, then enter the starting time and ending time for Day period or Night period.

You can adjust the IP Camera parameters on this screen, if the IP Camera compatible with the NVR.

Functions	Parameters
	Brightness: 0-100
	Contrast: 0-100
Image adjust	Saturation: 0-100
	Hue: 0-100
	Sharpness: 0-100
Evenesure	Auto: Set exposure time automatically
Exposure	Manual: Set exposure time by selecting exact value
	DWDR:Close, DWDR, WDR(if IPC supports)
Deeklight	Limit: Set the degree of DWDR or WDR
Backlight	Back Light Comp: When DWDR is Close, BLC function can be activated as Off,
	HLC, BLC
M/bita balanca	Auto: Set white balance automatically
while balance	Manual: Set white balance by selecting exact value of Red Gain and Blue Gain
	Auto/Color On/Color Off
Day/Night	Switch Type: IR Synchronous Switch
	Filter Time: from 0-120 seconds

Video adjust	Image: Close/Up down/Left right/Centre
video adjust	Rotate: Off/90°/180°/270°
	Close: function disable
Defog	Auto: defog automatically
	Manual: adjust the effect manually
	NR Level: 0-6
Enhancement	Defog: Close/Auto/Manual
	Smart light: close/manual/auto

### Table 4-4 IP Camera advanced setting

## 4.3.6.4 OSD

You can configure the OSD (On-screen Display) settings for the camera, including Channel Name, Date/Time format, Record status, Alarm status, etc.



Click on the "Setting -> Channel ->OSD "Into the graphical interface.

### Figure 4-74 OSD Setting

There are two parts for the setting: Channel Set and General Set. For Channel Set, you can configure the following items:

- **Channel:** Select the channel to configure.
- **Channel Name:** The name of the channel to be set.
- Show Name, Show Time: Enable the information of channel name and time on the screen.

• Date Format, Time Format: Set the format of the date and time.

For the General Set you can configure the following items:

- **Time Title, Channel Title:** Enable/disable the display of the time tile and channel title on the monitor screen.
- **Record Status, Alarm Status:** Enable/disable the display of the record status and alarm status on the screen.

After all the setting finished, click the button **Apply** to activate the configuration.

## 4.3.6.5 Cover

You are allowed to configure the four-sided privacy mask zones that cannot be viewed by the operator. The privacy mask can prevent certain surveillance areas to be viewed or recorded.



Click on the "Settings -> Channel ->Cover "Into the graphical interface.

Figure 4-75 Channel Cover Setting

- **Channel:** Select the channel to configure.
- Enable: Check the box to enable the feature.

Use the mouse to draw a zone on the window. The zones will be marked with different frame colors. Up to 4 privacy masks zones can be configured and the size of each area can be adjusted. The configured privacy mask zones on the window can be cleared by clicking the corresponding Clear Region button with different colors on the bottom side of the preview window, or click **Clear All Region** to clear all regions. Please refer to **Figure 4-76**.



Figure 4-76 Draw mask zone

After all the setting finished, click the button **Apply** to activate the configuration.

## 4.3.6.6 PTZ

This chapter is to show you how to set the actions which you want the PTZ Camera to respond when corresponding alarm occurred. Please make sure that the presets, patrols and patterns should be supported by PTZ protocols.

() Channel					Channel Preset Name	01 [ D ] CA	M 1	
Alarm					C	Set lear all	Clear Move	2
Bystem		C.			C	Set lear all	Clear	
		▼ Q ▶ ⊞ ▲ O	Focus Iris	o E O	Pattern Stai C	1 t record lear all	Stop rec	ord
	Speed		· · · ·	<u> </u>	Border	Left	Right	8

Click on the "Setting -> Channel -> PTZ "Into the graphical interface.

Figure 4-77 PTZ Setting

• **Preset:** This feature enables the camera to point to a specified position such as a window when an event takes place. You can set up to 255 preset points.

• **Patrol:** Patrols can be set to move the PTZ to different key points and have it stay there for a set duration before moving on to the next key point. The key points are corresponding to the presets. You can set up 4 cruise lines, each cruise line includes preset points and the time stayed in the preset point and cruising speed. Please refer to **Figure 4-78**.

			Cruis	se Set		
Patrol	l No.					
4	Preset	Speed	Stay Time(s)	Preset No		•
1	1(1)	3	3	Name	1	
2	2(2)	3	3	IName	1	
3	3(3)			Stay Time(s)	3	
4	4(4)					
				Speed	3	
L						
⊢						
L						
		Delete	Modify	Add	Apply	Esc

Figure 4-78 Patrol Setting

- **Pattern:** Patterns can be set by recording the movement of the PTZ. You can call the pattern to make the PTZ movement according to the predefined path.
- **Border:** Linear boundaries Including Left and right boundaries.
- **Speed:** Set the speed of the PTZ movement.

Items	Function Description
	Direction button and the auto-cycle button
Q Zoom Q	Zoom+, Zoom-
(+) Focus [-]	Focus+, Focus-
O Iris O	Iris+, Iris-
· · · · ·	The speed of the PTZ movement

Table 4-5 Description of PTZ Control Icons

## 4.4 Maintain

Items	Function Description
	Check the version of the device, upgrade device, check
System	channels/record/alarm status and PoE power info, manage online users
무	Check base settings of network, and network transmission info of
666 Network	LAN1/LAN2 port
$\bigcap$	Manage the base and advanced settings of HDD, and check HDD self-test
HDD	results
Config	Backup parameters of device, and restore defaults
Log	Search the operations log of device

Table 4-6 Control Panel description

## 4.4.1 System

## 4.4.1.1 Version

	Version Upgrade	Channel status	Record status	Alarm status	>
System	Тур Versio	e 32 n V500.0003.R005.1002.C	0000.8004		
Network	Release Dat MA	e 2017-10-28 12:41:39 C 00:05:56:ab:ce:42			
Disk	Update firmware versio	n New version available!			
ුරි Config					
Log					
		R			
			1	Download the new softw	are and upgrade it
	' Playback Set	Maintain E	Д Заскир	Shutdown	

Click on the "Maintain --> System -> Version" into the graphical interface.

Figure 4-79 Version of Software

- **Type:** Devices' model type.
- System: Shows the system version.
- Release date: Software release date.
- MAC: The Mac address of device.

• Update firmware version(Cloud Upgrade): User can manually check if there is a new firmware version, once select upgrade, device will download the new FW from cloud server and upgrade by itself automatically, the cost time depends on the network speed.

### 4.4.1.2 Upgrade

Click on the "Maintain --> System ->Upgrade" into the graphical interface. On this page you can upgrade your device by use USB flash disk.

	Versio	n Upg	rade	Channel	status	Record status	۲
System	Device Name	sda1(USB D	ISK)		+ *.upf		Detect
Retwork	FILE 32in10 64in10 office2016			Size	Type DIR DIR DIR	Modify date	
Disk	System Volume	Information			DIR		
ြို Config	VPN NVR-6B32V_Z	X_V2.10.6.R.2	20171218.u 1	4.33 MB	DIR FILE	2017/12/21 5:46:4	10
Ë Log	UVR-7508_ZX	_V2.10.6.R.20	171215.up 1	4.23 MB	FILE	2017/12/15 11:30	:17 😽
							Upgrade
·	 ]⊈ {	<u></u>	X			(	
Playt	oack S	Set	Maintain		Backup	Shutdown	

Figure 4-80 Upgrades NVR

- **Detect:** Manually detect the USB flash disk on this device.
- Upgrade: Select the correct file and click the "upgrade" button to upgrade the device,

then click "ok" button to reboot the device after upgrade successfully.

### Note:

> You will be asked to format HDD in order to enjoy new version FW which support many smart functions.



Figure 4-81 Format HDD

## 4.4.1.3 Channel

	Version	Upgrade Chan	nel status	Record status	>
System C	hannel Channel nam	e Channel status	Motion detection	Video shelter	Video los
1	CAM 1	Connected	Open	Open	Disable
2	CAM 2	No configuration			
Network 3	CAM 3	No configuration			
4	CAM 4	No configuration			
Disk 5	CAM 5	No configuration			
6	CAM 6	No configuration			
7	CAM 7	No configuration			
Config 8	CAM 8	No configuration			
9	CAM 9	No configuration			
Log 10	CAM 10	No configuration			
y 1′	I CAM 11	No configuration			
12	2 CAM 12	No configuration			
13	3 CAM 13	No configuration			
14	CAM 14	No configuration			
15	5 CAM 15	No configuration			
16	6 CAM 16	No configuration			
	11				
۲ ا	<u>ر</u>	×2		(	

Click on the "Maintain --> System -> Channel" into the graphical interface.

Figure 4-82 Channel Status

On this page you can check all the IP channel status and the status of alarm occur include motion detect/video mask/video lost.

## 4.4.1.4 Record

Click on the "Maintain --> System -> Record" into the graphical interface.

	Version	Ungrade	Channel status	Record statu	
_	Version	opgrade			
C System	hannel Status	Stream type	Frame rate(FPS)	Bit rate(Kb/S)	Resolution
	Stop	Composite Flow	/s 15	464	1080P/D1
0 2	Stop		0	0	/
A Network 3	Stop		0	0	/
4	Stop		0	0	/
Disk 5	Stop		0	0	/
6	Stop		0	0	/
~7	Stop		0	0	/
္ S Config 8	Stop		0	0	/
9	Stop		0	0	/
Log 1	D Stop		0	0	/
1	1 Stop		0	0	/
1:	2 Stop		0	0	/
1:	3 Stop		0	0	/
14	4 Stop		0	0	/
1	5 Stop		0	0	/
1	6 Stop		0	0	/
	~	. D.C.			
	<u> </u>	522		(')	
	<u>ب</u> ہ –				
Playback	Set	Iviaintain	васкир	Shutdow	10

Figure 4-83 Channel Record Status

On this page you can check all the channels record status, open or stop; stream type, video or mixture (video and audio); frame/bite rate of channels stream; main/sub resolution of IP channel; and whether open the redundancy function or not.

## 4.4.1.5 Alarm Status

Click on the "Maintain --> System -> Alarm status "into the graphical interface.

Input/Output

		opg.ado			
🖵 System	Input/Output	Alarm Information			
0	Name(Typi)			Record CHN	
茜 Network	In:1 Alarm in1	Normal open	Off		
	In:2 Alarm in2	Normal open	Off		
Disk	In:3 Alarm in3	Normal open	Off		
	In:4 Alarm in4	Normal open	Off		
(h) (h-1)-	In:5 Alarm in5	Normal open	Off		
Config	In:6 Alarm in6	Normal open	Off		
	In:7 Alarm in7	Normal open	Off		
🗒 Log	In:8 Alarm in8	Normal open	Off		
	Out:1 Alarm out1	Stop	Off		
	Out:2 Alarm out2	Schedule	Off		

### Figure 4-84 Alarm Status – Input/Output

• Name (Type): Contain alarm in and alarm out type and shows alarm name.

• **Type:** Alarm in contain normal open/normal close type, alarm out contain schedule/manual/stop type.

- Alarm status: Shows alarm status, contain "On" and "Off" type.
- Record channel: Alarm in linkage video record channels.
- Alarm Information

In this GUI you can playback the record video of the Alarm. Shown as figure 4-72.

	Version	Upgrade	Channel status	Record status	Alarm status	>
🖵 System	Input/Output Alam	Information				
🚲 Network	2 Log Time 1 17-12-21 15:51:59	Event Motion detect:	1		•	
📮 Disk	2 17-12-21 15:51:37	Motion detect:	1			
<li>Config</li>						
E Log						
			<u>]</u> %			

Figure 4-85 Alarm Status – Alram Information

## 4.4.1.6 Online Users

Click on the "Maintain --> System -> Online Users" into the graphical interface.

	< Alarm status	Online User PoE power	
System	User Name IP	Login type	Time
A Network			
Disk			
<ြ် Config			
₩ Log			
	Disconnect M	lask 60 Sec	
·		× <u></u>	(
Play	back Set	Maintain Backup	Shutdown

### Figure 4-86 Online Users

- User Name: Remote device login this NVR device account.
- IP: User remote access devices IP Address.
- Login Type: Remote connection type.
- **Disconnect:** Disconnect the connected user, and disconnected users will reconnect automatically in a while.
- **Block:** Shielding the connected user in a time that you set, and remote user will reconnect in that time.

## 4.4.1.7 PoE power

Click on the "Maintain --> System ->PoE power" into the graphical interface.

C System											
🟯 Network											
	2.7w										
🚨 Disk	2 4 6 8 10 12 14 16										
<li>Config</li>											
🗐 Log	Real power: 2.7w										
	The remaining power: 117.3w										
	Note: 1. POE equipment rating is 120.0w 2. Each POE works power range is 0-25.0w										

### Figure 4-87 PoE power

This page you can check all PoE channels power and connection status, and rated power is 120w.

### Note:

> Please make sure this device model support PoE function.

## 4.4.2 Network

## 4.4.2.1 Base

Click on the "Maintain --> Network -> Base" into the graphical interface.

	Base				
System	Lan	LAN1		•	
	IPV4Addr				
A Network	IPv4SubnetMask				
	IPv4DefaultGateway				
	MAC				
{o} Config	Primary DNS				
	Secondary DNS				
Log	DHCP				
	€) P⊡·	¥2	Ľ	(	
	PlayBack Setting	Maintain	Backup	Shutdown	

### Figure 4-88 Interface of Check Base Network

This page shows device network parameters, and DHCP enable status.

## 4.4.2.2 Flow



Click on the "Maintain --> Network ->Flow" into the graphical interface.

### Figure 4-89 Flow of Network

You can check transmission and receive status by LAN Port.

- **Receive:** Shows the byte rate that NVR device received in real-time.
- **Transmit:** Shows the byte rate that NVR device transmit in real-time.

## 4.4.3 HDD

## 4.4.3.1 Base

Click on the "Maintain --> HDD -> Base" into the graphical interface.

	Base	Advanced	S.M.A.R.	т			
System	HDD Status	ATTR	Туре	Total		Group	
	[1] sda * Normal	Read/Write	Local	931.00 GB	618.42 GB		
Hetwork	[2] No disk						
HDD							
Config							
E Log							
	<b>Total</b> 931.00 GB General configuration		Free 618.4				Format
	HDD Overwrite	- Slee	ep				
	Auto-Delete Old Files	Custom 🔻	1 Day(s)				Apply
	۰ ا	 	%		(		

Figure 4-90 Base Setting of HDD

This page displays your device is plugged into the hard disk status, hard drive serial number, name, attributes, the type of hard drive, the total capacity / Remaining capacity, as well as belonging to a group, edit button and uninstall / Loaded button.

- HDD: Shows HDD serial number, "[1]sda" or"[2]sdb".
- Status: Shows the state of HDD, "Unformatted" or "normal" or "no disk".
- ATTR: HDD have three type of ATTR, "Read/Write","Read only", "Redundant".
- **Type:** Shows HDD connection type.
- **Total:** Size of the HDD total capacity.
- Free: Shows HDD remaining capacity size.
- **Group:** Shows which group the HDD belonged.
- Uninstall: Uninstall HDD.
- Add: Add the HDD from uninstall state.
- Format: Format the HDD manually.
- HDD: You can set the full strategy of hard disk, "stop" or "overwrite".
- Auto-Delete Old Files: Support two mode of strategy, "never" and "Custom". In the

"Custom" mode you can set auto-delete time from 1-30 days before.

- **Sleep:** Open this function, your HDD will smart sleep when it not be used.
- **Apply:** Make sure all the operations effect.

Click HDD the set button, interface shows as below.

	Base	Advanced	S.M.A.R	.Т						
System	HDD Status	ATTR	Туре	Total	Free	Group				
Network	[1] sda * Normal [2] No disk	Read/Write					/ × +			
HDD			Hdd set							
<ul><li>Config</li></ul>		HDD [1] sda		•						
E Log		Group 1								
	Total 931.00 GB	Apply	OK	Exit			Format			
	General configuration	·								
	HDD Overwrite Auto-Delete Old Files	HDD Overwrite Sleep Auto-Delete Old Files Custom • 1 Day(s) Apply								
	<u>ال</u>	 	×	Ľ	(					
	PlayBack	Setting	Maintain	Backup	Shutdow	n				

Figure 4-91 Edit of HDD

On this page you can set HDD parameters, including ATTR and Group. *Note:* 

> Every HDD only can be set to one group in the same time.

## 4.4.3.2 Advanced

	Base	Advance	əd	s.r	Л.А.Б	λ.Τ									
System	Mode	Group								•					
_	Group									•					
A Network	Channel	All	1 2	3 4	5	6	78	9	10	11	12	13	14	15	16
		1	7 18	19 20	21	22	23 24	25	26	27	28	29	30	31	32
{ô} Config															
E Log															
													Ap	ply	
	<u>کې</u> ار		Ľ	<i></i>		[				(		)			
Playb	ack Setting		Maint	ain		B	ackup			Shi	⊿tdo∖	٨n			

Click on the "Maintain --> HDD -> Advanced" into the graphical interface.

Figure 4-92 Advanced Setting of HDD

This page you can switch the hard disk's storage mode, including the "group", "quotas (Capacity)", and "Quota (Time)". Change the storage mode requires that you restart the NVR device.

i. Group: You can set 16 groups under group mode, and each channel is independent of each group. If the channel do not belong to any group, none video file will saved, and if the channel belong to more than one group, the channel will used the space of these group one by one until all the group are full.

### Note:

- > Apply a new storage mode need restart the NVR device.
  - ii. **Quota (Capacity):** The quota of capacity mode support set disk space for every channel manually.

	Base	Advanced	S.M.A.R.	T	
System	Mode	Quota(Capacity)		-	
	Channel	01 [ D ] CAM 1			
H Network	Record used				
_	Picture used				
HDD	Volumes				
Confin	Record Quota(GB)				
Conng	Picture Quota(GB)				
Log	Free volumes				
	r	٢	*	ſĻ	( )
	PlayBack	Setting	Maintain	Backup	Shutdown

#### Figure 4-93 Quota of Capacity Mode

- **Record used:** Shows the video files space that the channel you chose have used in real-time.
- **Picture used:** Shows the pictures space that the channel you chose have used in real-time.
- Volumes: Total capacity of all hard drives.
- **Record Quota:** You can manually set the quota size of channel video.
- **Picture quota:** You can manually set the quota size of channel picture.
- Free volumes: Shows the free space minus the space you have set on other channels.
  - iii. **Quota (Time):** The quota of time mode supports set time for every channel manually.

	Base	Advanced	S.M.A.R.T			
System	Mode	Quota(Time)		-		
P	Channel	01 [ D ] CAM 1				
Network	Record used					
HDD	Volumes					
	Record Quota(Day)	0				
<ြ်ှဲ Config						
rttti -						
						Apply
	- - - 1	6	25	гГЪ	(1)	
	PlayBaak	Satting .	Maintain	Baalam	Shutdown	

Figure 4-94 Quota of Time Mode

• **Record used:** Shows the video files space that the channel you chose has used in real-time.

- Volumes: Total capacity of all hard drives.
- **Record Quota (Day):** Set a time for a channel from 0-60 days, and the new video files will not cover the old files in the time period.

## 4.4.3.3 S.M.A.R.T

Click on the "Maintain --> HDD -> S.M.A.R.T" into the graphical interface.

		Dase Adv	ancea	5.M.A.K. I			
System		Status	Last test time		Temperature Lif	e time(hours)	
	[1] sd	a Passed	2016/04/13 15	:45:50	37 C 244		
Network							
HDD				Test type	Brief	Start selftest	Stop selftest
A Carla	D	Attribute name	Value	Worst	Threshold	Raw value	
$\sim$ coming	1	Raw Read Error Rate	114	99	6	63075680	
<del>m</del>	3	Spin_Up_Time	98	97			
<b>∐</b> Log	4	Start_Stop_Count	100	100	20	70	
	5	Reallocated_Sector_Ct	100	100	10		
	7	Seek_Error_Rate	69	60	30	8157816	
	9	Power_On_Hours	100	100		244	
	10	Spin_Retry_Count	100	100	97		
	12	Power_Cycle_Count	100	100	20	70	
	184	End-to-End_Error	100	100	99		
	187	Reported_Uncorrect	100	100			
	188	Command_Timeout	100	100			
	189	High_Fly_Writes	86	86		14	
	190	Airflow Temperature Cel	63	63	45	37	
	·[		N.	હે	ſĴ	(')	

Figure 4-95 Check HDD Status

- NO.: Hard disk serial number.
- Status: Shows HDD self test status and results.

- Last test time: The last time you test HDD.
- **Temperature:** Shows HDD temperature in real-time.
- Life time (hours): Shows how long the time have you used this HDD.

### Note:

We provide two type of self-test, brief and extended. Extended type will be taking a little longer time than brief type. And you can stop while it's been self-testing if you want.

## 4.4.4 Config

## 4.4.4.1 Backup

Click on the "Maintain -->Config ->Backup" into the graphical interface. On this page you can backup device parameters into USB flash disk.

	Backup Default
System	Selected Device sdb(USB DISK)
Network	2         Name(Type)         ATTR           1         efg 201604061719.coi         FILE
HDD	2 cfg_201604061721.coi FILE
Config	
E Log	
	Export mipor
	PlavBack Setting Maintain Backup Shutdown

Figure 4-96 Backup Setting Status

- **Detect:** Detect the USB device.
- Name (type): File name and file type, and the backup file is ".coi" type.
- **ATTR:** Shows the file type.
- **Export:** Export the parameters backup file into USB disk.
- **Import:** Choose the backup file and click import button, your device parameters will change into the new one.

### 4.4.4.2 Default

Click on the "Maintain -->Config ->Default "enter the graphic interface.

	Bac	kup Defa	ault				
System		Select all					
φ		General			Channel name		
A Network		Record			Network		
		Motion detect			Alarm		
		Display		<b>×</b>			
<ြိ Config		Image Settings			Smart Settings		
, tttp	· · · · ·	iniugo coningo			onian ooningo		
📃 Log							
							Execute
	71	<i>c</i> ôs	23		<u>г</u> ГЪ	(1)	
Plavi	back	Setting	Maintain		Backup	Shutdown	
1 1033		g					

Figure 4-97 Default

On this page you can choose the function item, General/Channel Name/Control/Network/Motion Detect/Alarm/Abnormality/PTZ/Display/IP Channel, and after click execute button, the item what you chosen restore defaults. And you can also select the "select all" button, all the items restore default.

## 4.5 Log

	Log
System	Туре АШ 🔻
	Start Time 2016 - 04 - 13 00 : 00 : 00
A Network	End Time 2016 - 04 - 14 00 : 00 : 00 Search
	487 Log Time Event
	1 16-04-13 15:50:10 Motion Detection Completed:1
	2 16-04-13 15:49:59 Motion Detect:1
$\langle 0 \rangle$ Config	4 16 04 13 15:49:09 Motion Detection Completed.1
	4 10-04-13 13:42:05 Motion Detection Completed:1
E Log	6 16.04.13 15.48.40 Motion Detect 1
	7 16-04-13 15:47:23 Motion Detection Completed:1
	8 16-04-13 15:47:10 Motion Detect:1
	9 16-04-13 15:45:58 Motion Detection Completed:1
	10 16-04-13 15:45:52 Motion Detect:1
	11 16-04-13 15:45:42 Motion Detection Completed:1
	12 16-04-13 15:45:36 Motion Detect:1
	Filter Clear Prev Next
	Selected Device sdb(USB DISK)
	DavBaak Satting Maintain Baakun Shutdaran

Click on the "Maintain --> Log "into the graphical interface.

Figure 4-98 Search System Log

You can check device operation log on this page.

• **Type:** Search type include "System", "Config", "Storage", "Alarm", "Record", "Account", "Clear", "Playback".

- Start time/End time: Set the period of time you want to search.
- **Search:** After you set the time period and search type, click the search button, and device can save 4096 logs tops.

• **Prev/Next:** It can shows 1000 logs in one page, and you can check on more by click "Prev/Next" button.

- **Clear:** Delete all log information.
- Filter: On this page you can chose whether cover the log after it's full, and decide
- which type operation log you want to save.
- **Detect:** Detect the USB device.
- **Export:** Export the operations log into the USB flash disk.

## 4.5 Backup

Click the backup button, enter the backup interface.

- Detect: Detect the USB flash disk device you have access to the NVR.
- Format: Format the USB device.

## 4.5.1 General

## 4.5.1.1 Video backup

	Video	Picture			
[□] Genera	Record CHN	All <b>1 2</b> 3	4 5 6 7 8	9 10 11 12 13	14 15 16 30 31 32
Event	Туре	All record		File	format dav →
	Start time End time	2017 - 01 - 11 2017 - 01 - 11	00 : 00 : 00 21 : 22 : 33	$\odot$	
	34 🔽 CH 1 🔽 1	Type Start time A 17-01-11 0	End time 8:41:44 17-01-11	08:42:05 10.4	Size 8 MB 合 💿 =
	2 🔽 1 3 🔽 1	A 17-01-11 0 A 17-01-11 0	9:11:38 17-01-11 9:51:03 17-01-11	09:11:45 3.6 09:51:22 9.4	3 MB 🦀 💿 📕
	$\begin{array}{c c} 4 & \checkmark 1 \\ 5 & \checkmark 1 \\ 6 & \checkmark 1 \\ \end{array}$	A 17-01-11 1 A 17-01-11 1 A 17-01-11 1	0:37:19 17-01-11 0:37:55 17-01-11	10:19:27         11.2           10:37:40         10.1           10:38:31         18.0	3 MB 👚 💿
	7 🔽 1 8 🔽 1	A 17-01-11 1 A 17-01-11 1	1:46:53 17-01-11 2:00:51 17-01-11	11:47:1410.412:01:1210.510:00:0110.0	8 MB 🔓 💿 2 MB 🔐 💿
		A 17-01-11 1 A 17-01-11 1	2:03:09 17-01-11 2:17:25 17-01-11	12:03:31 10.8 12:17:46 10.5	
	Require/Rema	iin:3.48 GB/6.38 GB	Detect		Search
	Selected devic		Detect	Start	Format
		Softing Ma			

Click on "Backup ->General -> Video" into the graphical interface.

Figure 4-99 Backup General Video File

### How to back up the record:

1. Chose the record channel;

- 2. Chose the video file type, including "All Record", "Event Record", "Timing Record", "Manual Record" four types. And DAV/AVI two file formats.
- 3. Set the time period you want check, and click on the search button. And search results column shows on the middle area. On this area you should chose the serial number of the backup file you need.
- 4. Check on the "Require/Remain" bar, make sure the required space smaller than your USB device. And click start button to start backup.

### Note:

The file status marked red as search result shows is the file you locked in the playback interface. In case the file that you're interesting covered by new files.

## **4.5.1.2 Picture**

	Video	
[편] General	Record CHN All 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32	
LT Event	Type         All snap         •           Start time         2017 - 01 - 02 00 : 00 : 00         (S)	
	14       ✓ CH       Type       Time       Size       -         1       ✓ 1       H       17-01-10       11:23:00       81.94 KB       ●         2       ✓ 1       H       17-01-10       11:27:26       74.02 KB       ●         3       ✓ 1       H       17-01-10       12:24:01       76.04 KB       ●         4       ✓ 1       H       17-01-10       12:27:25       71.81 KB       ●         5       ✓ 1       H       17-01-10       12:27:25       71.70 KB       ●         6       ✓ 1       H       17-01-10       12:37:42       71.70 KB       ●         7       ✓ 1       H       17-01-10       12:46:17       62.14 KB       ●	=
	8       ✓ 1       H       17-01-10       12:56:34       69.88 KB       ●         9       ✓ 1       H       17-01-10       13:06:52       65.21 KB       ●         10       ✓ 1       H       17-01-10       13:34:18       57.54 KB       ●         10       ✓ 1       H       17-01-10       13:34:18       57.54 KB       ●         12       H       17-01-10       13:34:18       57.54 KB       ●         13       H       16:14:02       10:02:02       54:02 KB       ●         Require/Remain:688.00 KB/6.38 GB       Search         Delete d double       Delete d	
Playt	Selected device socri(USB DISK) - Detect Start Format	

Click on "Backup ->General ->Picture" into the graphical interface.

Figure 4-100 Backup Pictures

The operations of backup pictures is the same as videos, please refer to the previous part.

## 4.5.2 Event

Click on "Backup -> Event-> Video "into the graphical interface.

	Video										
General	Event type	Motion de	etect					F	ile forr	nat	dav →
Event	Start time	2017 - 0	01 - 11 ( 01 - 11 (		00		$\odot$				
	Alarm channel	All	1 2 3	4 5	6 7	8 9	10	11 12	13 1	4 15	16
	24 <b>C</b> H	Type St	17 18 19 art time	20 21	22 23 : End time	24 25	26	27 28	29 3	30 31	32 Encr
		A 17	-01-11 08:4	41:48 11:42	17-01-11	08:41	:55 :45		3.66 M	IB O	H.26 ≡
	3 1 4 1	A 17 A 17	-01-11 09:	51:07 19:09	17-01-11	09:51	:12 :18		2.63 N 4.62 M	IB O	H.26
	5 1 6 1	A 17 A 17	-01-11 10: -01-11 10:	37:24 37:59	17-01-11	10:37	':30 1:12		3.39 N 6.85 N	IB o	H.26 H.26
	7 <b>1</b> 8 <b>1</b>	A 17 A 17	-01-11 10:: -01-11 114	38:14 46:57	17-01-11 17-01-11	10:38 11:47	:21 `04		3.43 N 3 77 M	IB 🔉	Н.26 Н 26
	Prev	Nex	Pa	ge No. 1	/1				(	Se	arch
	Require/Remain	1:0.00 KB/6.	.38 GB								
	Selected device	sdc1(U	SB DISK)	-	Detect			Start		Fo	rmat
• Blast			Maint					( Sh			

Figure 4-101 Backup Event Video File

This page you can check the event video, and there are three event types, include "Alarm input", "Motion detect", "IA Detect". And "IA Detect" contains two sub types "Crossing detect" and "Area intrusion detect".

1. Set search time period, and channels you're interesting.

2. Click on the button of search. And search results shows on the middle area. On this area you should chose the serial number of the backup file you need. And DAV/AVI two file formats.

3. Check on the "Require/Remain" bar, make sure the required space smaller than your USB device. And click start button to start backup.

# 4.6 Playback

Right click and select the "Record Playback" to enter the playback interface and you can also click on the playback button in the main menu to enter the playback interface, as shown in the **figure 4-102.** 



Figure 4-102 Main Interface of Playback

No.	Items	Function
1	Playback Type	NVR support four types playback mode "Normal Play", "Event Play",
		"Label Play", "Time Division Play", "Normal Play (Picture)"
2	Display	The windows display videos
3	Channels	You can select the channels for playback in this area
4	Date	Shows the date that have video files and marked blue
5	Time of File	Shows the start time and the end time of files in HDD
6	Time Line	Shows files playing course in this area.

### Note:

Table 4-7 Area Functions Introduce of Playback

The second line shows all the files of the channels you selected. And the first line shows the files of the channel you chose by mouse on the display area. And event files marked red, normal files marked blue.

No.	Key title	Key function
1	K 3 K 3	Full screen playback the channels
2	×	Close the playback interface back to preview interface
3	<b>←→ → ←</b>	Change time line interval
4		Switch of playback channel audio
5	<u> </u>	Cut the interest video of playing channel
6	<b>O</b>	Snap a picture of playing channel

7	£	Lock the file in case over written in HDD
8		Default label, Label the file
9		File manager, Mange the cut file/locked file/labeled file
10		Zoom, Zoom the playing channel
11	⇒≕	Sync/Async, Switch button of playback mode
12		Main/Sub Stream, Switch button of stream type
13		Start/Pause, Control button of start/pause playback
14		Backward Playback/Pause, Control button of backward playback
15		Stop Playing, Control button of stop playback
16		Frame Control, Control step frame and backward frame
17		Slow playback, slow down play speed of playing channels
18	₩	Speed up, speed up playing channels
19	l <b>∢</b> ≯l 30S / 30S	Forward/Backward 30 sec, forward/backward 30sec playing channel
20		Normal record, file color marked the file type, green means normal
21		Event record, event record marked red

### Table 4-8 Buttons of Playback Interface

## 4.6.1 Normal play

The default playback mode is "Normal playback". And when you select the channels the date will turn into blue on the date area that means the channels you selected have files in that day. And you can select the date you want to playback on the date area.



Figure 4-103 Normal Playback Modes

This NVR device support 16 channels playback. And 6 channels playback in real-time the other 10 channels playback in key frame.

All the operations of these buttons to control the playback, you can refer to the previous table. And the "Cut" button will cut all the files of the channels you're playing, you can check the files you cut in the "File Manage".

File Manage					
Clip files	Lock files Label				
🔽 Channel	Record time	Size	Channel 1		
1	16-04-12 11:50:41 - 11:50:42	386.59 KB			
2	16-04-12 11:50:41 - 11:50:42	244.06 KB	Start Time		
3	16-04-12 11:50:41 - 11:50:42	309.41 KB	16-04-12 11:50:41		
4	16-04-12 11:50:41 - 11:50:42	308.73 KB			
5	16-04-12 11:50:41 - 11:50:42	300.58 KB	End Time		
🔽 б	16-04-12 11:50:41 - 11:50:42	304.63 KB			
7	16-04-12 11:50:41 - 11:50:42	307.21 KB	≡ 16-04-12 11:50:42		
8 🔽 8	16-04-12 11:50:41 - 11:50:42	305.48 KB			
9	16-04-12 11:50:41 - 11:50:42	528.66 KB			
<b>V</b> 10	16-04-12 11:50:41 - 11:50:42	529.05 KB			
11	16-04-12 11:50:41 - 11:50:42	529.84 KB			
<mark>📈 12</mark>	16-04-12 11:50:41 - 11:50:42	298.00 KB			
13	16-04-12 11:50:41 - 11:50:42	544.90 KB			
14	16-04-12 11:50:41 - 11:50:42	543.55 KB			
🔽 15	16-04-12 11:50:41 - 11:50:42	545.45 KB			
	······				
Needspace 6.	39 MB		Backup Exit		

### Figure 4-104 Clip files

And you can backup the clip files in this interface.

	Record Backup						
1	б	СН	Туре	Start Time	End Time	Size(MB)	
1		1	R	16-04-12 11:50:41	16-04-12 11:50:42	0.37	
2	2	2	R	16-04-12 11:50:41	16-04-12 11:50:42	0.23	
3	3	3	R	16-04-12 11:50:41	16-04-12 11:50:42	0.30	
4	ł	4	R	16-04-12 11:50:41	16-04-12 11:50:42	0.30	
5	5	5	R	16-04-12 11:50:41	16-04-12 11:50:42	0.29	
6	5	6	R	16-04-12 11:50:41	16-04-12 11:50:42	0.29	
5	7	7	R	16-04-12 11:50:41	16-04-12 11:50:42	0.30	≡
8	3	8	R	16-04-12 11:50:41	16-04-12 11:50:42	0.29	
9	)	9	R	16-04-12 11:50:41	16-04-12 11:50:42	0.51	
1	0	10	R	16-04-12 11:50:41	16-04-12 11:50:42	0.51	
1	1	11	R	16-04-12 11:50:41	16-04-12 11:50:42	0.51	
1	2	12	R	16-04-12 11:50:41	16-04-12 11:50:42	0.29	
1	3	13	R	16-04-12 11:50:41	16-04-12 11:50:42	0.53	
1	4	14	R	16-04-12 11:50:41	16-04-12 11:50:42	0.53	
1	5	15	R	16-04-12 11:50:41	16-04-12 11:50:42	0.53	
Req	- Iun	re/Remain:6	- 5.39 M	B/7.36 GB		File format dav	•
Sele	ect	ed Device	sdb(U	JSB DISK)		Detect Start	

### Figure 4-105 Backup the Clip files

The "Lock Record" button will lock the file in case this file be covered by new file. You can check and backup the locked files in "File Manage". And you can unlock the locked files in this interface.

	File Manage		
Clip files Lock files La	bel		-
Channe Record time  1 16-04-12 11:42:22 - 12:01:03  1 16-04-12 10:52:38 - 11:36:00  1 16-04-12 18:35:14 - 18:55:39	Size 281.81 MB 654.04 MB 1018.83 MB	Lock	ID 1 Start Time 16-04-12 11:42:22 End Time 16-04-12 12:01:03
Needspace 654.05 MB			Backup Exit

Figure 4-106 Lock Files

			File Mar	nage		
Clip files	Lock file	s 🚺 Lat	oel			
Channel	LabelName			Time	Edit	Delete
1	TAG			16-04-12 10:04:00 16-04-12 11:09:20		×
1	TAG		Label E	2 Idit	Ø	
		LabelTime LabelName	16-04-1 motion OK	2/10:04:00 Exit		
						Exit

Click the "Default Label" button will mark the video as a default label, you can edit the label and check in the "File Manage".

### Figure 4-107 Label Manage

The "Main/Sub stream" button can change the video stream into sub stream from main stream, the "Speed up" button can speed up 32 times the channel you selected and speed up 16 channels 2 times top.

## 4.6.2 Event play

Select the "Event Play" enters the event playback mode.

- You need chose the event main type, including three event types "Alarm input", "Motion detect" and "IA Detect". And the main type of "IA Detect" including two sub types event "Crossing detect" and "Area intrusion detect".
- Select the channels you want to search. Then set time period, and click search button.
   Search results as shown in the figure, "Source" means alarm channel and "Chan" means record channel of linkage operations, "Time" means when the alarm happened.
- 3. The next area shows all the alarm items and you can change the page to find the alarm item you want. And then you can set the play time period before/after of the alarm time.



Figure 4-108 Search Result of Event Playback

Key Picture	Key Title	Key Function
	First	Quickly go to the first page of event search results.
	Prev	Go to the previous page of event search results.
	Next	Go to the next page of event search results.
	Last	Quickly go to the last page of event search results.
L→	Goto	Click jump to the page you entered into the entry bar.

Table 4-9 Buttons of Event Search Results

You can change the alarm types and channels by click the return button back to the last interface.

As for the operations of these buttons you can refer to the previous table. But you can't use the "Sync/Async", "Main/Sub stream", "Frame Control" button in event playback mode.

## 4.6.3 Label Play

Select the "Label Play" enters the label playback mode.



Figure 4-109 Search Result of Label Playback

- 1. Select the channels, and set the time period of search.
- 2. Click the search button, search results as shown in the figure.
- 3. "Label" means label's name that you can edit in file manage and "Chan" means the channel you tagged, "Time" means the time that was playing when you tag.
- 4. The next area shows all the labels and you can change the page to find the label items you want. And then you can set the play time period before/after of the label time.
- 5. You can change the search channels by click the return button back to the last interface.
- 6. As for the operations of these buttons you can refer to the previous table. But you can't use the "Sync/Async", "Main/Sub stream", "Frame Control" button in label playback mode.

### Note:

> The operations of these buttons you can refer to the last part.

## 4.6.4 Smart Play

Select "Smart Play" enters this playback mode. In this section NVR support analyze exist video according to specific rules. Now the rules include "line crossing, Area Intrusion, Motion Detection and Face Detection".

## 4.6.4.1 Draw Line



Figure 4-110 Smart Playback – Draw Line

- 1. First you need select a channel and click "Play", then the icon of "Draw Line" can be active. You can click to draw a line on the video interface;
- Click "Setting" button you can specify some setting for playback like "Skip Non-Focus Video" and specify the playback speed for Non-Concerned Video and Attention-Video, also you can specify the time before and after the events from 0 to 600 seconds.
- 3. Click "Search" button then the result will be shown like figure 4-110, video with line crossing will be marked color "green", and the video will be played by the setting as you made at step 2.

## 4.6.4.2 Draw Quadrilateral



Figure 4-111 Smart Playback – Draw Quadrilateral

- First you need select a channel and click "Play", then the icon of "Draw Quadrilateral" can be active. You can click to draw a quadrilateral on the video interface;
- 2. Click "Setting" button you can specify some setting for playback like "Skip Non Focus Video" and specify the playback speed for Non-Concerned Video and Attention-Video, also you can specify the time before and after the events from 0 to 600 seconds.
- 3. Click "Search" button then the result will be shown like figure 4-111, video with Area Intrusion will be marked color "green", and the video will be played by the setting as you made at step 2.

## 4.6.4.3 Motion Draw Rectangle



### Figure 4-112 Smart Playback – Motion Draw Rectangle

- First you need select a channel and click "Play", then the icon of "Motion Draw Rectangle" can be active. You can click it to draw an area on the video interface;
- Click "Setting" button you can specify some setting for playback like "Skip Non-Focus Video" and specify the playback speed for Non-Concerned Video and Attention-Video, also you can specify the time before and after the events from 0 to 600 seconds.
- 3. Click "Search" button then the result will be shown like figure 4-112, video with Motion will be marked color "green", and the video will be played by the setting as you made at step 2.

## 4.6.4.4 Motion Full Screen



Figure 4-113 Smart Playback – Motion Full Screen

- First you need select a channel and click "Play", then the icon of "Motion Full Screen" can be active. You can click it to draw an area on the full video interface;
- Click "Setting" button you can specify some setting for playback like "Skip Non-Focus Video" and specify the playback speed for Non-Concerned Video and Attention-Video, also you can specify the time before and after the events from 0 to 600 seconds.
- 3. Click "Search" button then the result will be shown like figure 4-113, video with Motion will be marked color "green", and the video will be played by the setting as you made at step 2.



## 4.6.4.5 Face search

Figure 4-114 Smart Playback – Face Search

- 1. First you need select a channel and click "Play", then the icon of "Face search" can be active. The full video interface will be detected by default;
- 2. Click "Setting" button you can specify some setting for playback like "Skip Non-Focus Video" and specify the playback speed for Non-Concerned Video and Attention-Video, also you can specify the time before and after the events from 0 to 600 seconds.
- 3. Click "Search" button then the result will be shown like figure 4-114, video with people's face will be marked color "green", and the video will be played by the setting as you made at step 2.

### Note:

Smart Play only work with InVid-1 IPCs which support these features.

## 4.6.4.6 Clear all

When you click this button that means clear all the lines and rectangles you have drawn before. Then you can draw new lines and specify new rules.

## 4.6.4 Time Division play



Select the "Time Division Play" enters the time division playback mode.

Figure 4-115 Time Division Playback

- First you need chose the channel and select division windows number to display, from 1-16 windows. For example, if you chose the windows number is 4, the files of the date you chose will be divided into 4 parts.
- 5. You can change the playing channel but do not need to stop. And change the windows division number when the channel is playing.

As for the operations of these buttons you can refer to the previous table.

## 4.6.5 Normal Play (Picture)



Figure 4-116 Normal Playback of Picture

- 1. Select the "Normal Play (Picture)" enters the normal playback of pictures mode.
- Select the channels, the search result as shown in the figure. As for the button of control playback including "File Manage", "Sync/Async", "Start/Pause", "Backward play", "Stop Playing", "Slow down", "Speed up", and "Time-line Stretch", "Time-line Shorten".

The sources of pictures you play are manual snap on preview interface and the manual snap in playback interface.

### Note:

- > You can stop playback by right click, and exit the playback interface by keep right click.
- If you chose more than one channels to playback, double click can make the channel shows in one screen.

# 4.7 Shutdown

Click Shutdown, as shown in the figure.



### Figure 4-117 Shutdown

- **Shutdown:** Exit system, and then shut down device.
- **Restart:** Exit system, then restart device.
- Log out: Password is needed to re-enter the menu after logout.
- Switch user: Switch the user and use another account to login.
# Chapter 5 WEB Application Manage

# 5.1 Plug-in download and installation

- Open your web browser and input the IP address of NVR, such as <u>http://192.168.1.9</u> (the default IP address), if your IP address has been changed, you can use the new IP address, and press the Enter key to enter the login interface.
- 2. If it is the first time to login, it will notice you to install the plug-in, you can find it either in CD or download from web site.

# 5.2 Web Application Manager Login

 After plug-in installation, please input the user name and password (The default username is admin and the password is 1234567u), and select language in the interface,

shown as figure 5-2.

- 2. Click on login button to go to web preview interface.
- 3. If you enable the "Save Password", your password and user name will be remembered the next time you login.





ELEVATE SERIES

Figure 5-2 Login Interface

# **5.3 Preview**

After you login successfully, you will enter the preview interface, as show in figure 5-3.

Preview Pitytack     Alarm     Config     Logout     Preview     Preview <th>10.7</th> <th>of the second division of the local division</th> <th>and the second division of the second divisio</th> <th>and the second second</th> <th></th> <th></th>	10.7	of the second division of the local division	and the second division of the second divisio	and the second		
Preview       Pitytek       Alarm       Config       Logout       1         CAM 1       CAM 2       CAM 2 <td< th=""><th>&lt;-)(€) (⊕- €</th><th>http://192.168.3.201/</th><th>📀 🔈 - C 🥭 19</th><th>92.168.3.201 ×</th><th></th><th>n 🛧 🖂</th></td<>	<-)(€) (⊕- €	http://192.168.3.201/	📀 🔈 - C 🥭 19	92.168.3.201 ×		n 🛧 🖂
Preview Pity-tack Alarm Config Legout 1     Config Legout 1     Config Legout Config     Config Legout Legout     Config Legout Legout     Config Legout Legout     Config Legout        Config Legout   <	_					
Concentral And Concentration Concentration Concentration Concentration Concentral	Preview	Playback	Alarm Config	Logout 1		
Can						Version 5.5.0.12
CMM 1 Z   CMM 2 CMM 2   CMM 3 PUVdeo   CMM 4 PUVdeo   CMM 5 PUVdeo   CMM 6 PUVdeo   CMM 7 PUVdeo   CMM 8 PUVdeo   CMM 10 PUVdeo	100					Color Control A
GM2   GM3   GM4	📆 CAM 1 🎈					• • • • • • • • • • • • • • • • • • •
Cutt 3   Cutt 3   Cutt 4   Cutt 6   Cutt 6   Cutt 7   Cutt 7 <th>CAM 2</th> <th></th> <th></th> <th></th> <th></th> <th>· · · · · · · · · · · · · · · · · · ·</th>	CAM 2					· · · · · · · · · · · · · · · · · · ·
CuM 4   CuM 5   CuM 5   CuM 5   CuM 7   CuM 8   CuM 10   CuM 10   CuM 11   CuM 12   CuM 12 <td>CAM 3</td> <td></td> <td></td> <td></td> <td></td> <td></td>	CAM 3					
CMM 5 CMM 6   CMM 6 CMM 7   CMM 7 CMM 8   CMM 8 CMM 8   CMM 8 CMM 8   CMM 8 CMM 8   CMM 10 CMM 10   CMM 12 CMM 10 <td>CAM 4</td> <td></td> <td></td> <td></td> <td></td> <td></td>	CAM 4					
CMA 6 By Madeia   CMA 7 CMA 7   CMA 10 CMA 7   CMA 11 CMA 12   CMA 12 CMA 12   CMA 13 CMA 12   CMA 14 CMA 12   CMA 15 CMA 12   CMA 15 CMA 12   CMA 16 CMA 14   CMA 16 CMA 14   CMA 17 CMA 15   CMA 18 CMA 14   CMA 19 CMA 14  <	CAM 5					
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Open All(Main)     Pattern     PIZ       Open All(Main)     Image: Compare All Main     AucComment       Open All(Main)     Image: Compare All Main     Image: Compare All Main       Cocal Replay     Image: Compare All Main     Record Path       Cocal Replay     Image: Compare All Main     Record Path       Cocal Replay     Image: Compare All Main     Record Path						Auto Pan Auto Scan
Open All(Main)       No Video       Image: Description of the Description of t						Pattern PTZ
Open All(Main)     No Video     Image: Control in the Video     Image: Cont	14					
Open All(Main)     Open All(Main)     Open All(Main)     Other Function (       Open All(Main)     Cost All (Main)     Ficture Path     Record Path       Local Replay     Cost All (Main)     Cost All (Main)     Ficture Path						AuxOpen AuxClose
Open Hallstahl     Outer Path Loar (La path)       Open Allstahl     Picture Path       Local Replay     Reboot       Close All     Coasial Cont.	Open All/Main)	No Video	🖾 🖬 🎧 🕨 No Video	🗷 🖿 🎧 🕨 No Video	S 🖬 🗛 🕨 No Video	C = ( ) Other Function
Open All(Sub)     Picture Path     Record Path       Local Replay     Reboot     Record/Size       Close All     Coaxial Cortuin     Image: Coaxial Cortuin	Open All(Mall)					Other Pullcuoit 7
Local Replay Close All Costal Costal	Open All(Sub)					Picture Path Record Path
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		لطاليط		36 👻 5		

Figure 5-3 Preview Interface

No.	Items	Function Description							
1	Function Tab	Main Menu Includes preview, playback, Alarm, Config and Logout.							
2	Preview	The connection channel of NVR.							
	channels								
3	Device channels	ou can open the preview channel in main/sub stream and close							
		the preview channel.							
4	Video control	<ul> <li>Open ALL(Main): Open all the preview channels in main</li> </ul>							
		stream							
		Open ALL(Sub):Open all the preview channels in sub stream							
		<ul> <li>Local replay: Replay record on local</li> </ul>							
		• Close All: Close all the preview channels.							
5	Windows	Split-screen switch button, it can be adjusted to preview in							
	division	1/4/5/6/8/9/13/16/20/25/36 channels							
6	Color control	Adjust the Brightness, Contrast, Saturation and Hue of the color.							
7	PTZ control	Control PTZ directions, add preset and tour etc.							
8	Other function	You can set the saving path of the pictures / local record, and set							
		the size of video, and click the reboot button to restart the NVR.							

Table 5-4 Function Description of preview area

After login the NVR, you can choose a channel and preview the channel in real time.



#### Figure 5-5 Channel Preview Interface

Items	Function Description
Device Snapshot	Capture a picture and save it in the device.
Local Snapshot	Capture a picture and save it in the picture path you have set before on local PC.
Record	Record a video and click it again to stop recording, and save it in the record path you have set before.
Listening	Turn On/Off the audio.
Stop	Click the <b>button to open the preview channel</b> , and click <b>close</b> it.

Table 5-6 function description of preview interface

# **5.4 Playback**

1. Click the playback button to enter playback interface, show as **figure 5-5**.

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Preview	Playback	Alarm	Config La	rgout								V 1 V 2 V 3 V 4 V 4 V 4 V 4 V 4 V 4 V 4 V 4 V 4 V 4	Version Thannel No. 1 1 1 1 1 1 1 1 1 1 1 1 1	5.5.0.36Temo
												Sun Mc 25 2: 1 : 8 4: 15 1: 22 2: 29 3:	n Tue Wed Th 5 27 28 25 7 3 4 5 10 11 12 8 24 25 26 0 31 1 2 Switch	search
0 1 1 2 3 4 4	2 Standard	Event	▶ 法 ≕ 5 6	7 8	9	10 11	12	13 14	15 16	17 18	19 20 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	21 1HR	22 30M Pre	23 24

### Figure 5-5 Playback Interface

It supports 4 channels playback at the same time, it displays the intraday videos of 1/2/3/4 channel by default, and the default videos are recorded in main stream, if you want to search the videos recorded in sub stream, you have to enable the "Sub Stream "check box .On this page, you can select the any channel and date you want, and then click the Search button, it will display the results of your research.

Note:

- It support Sync/Async playback mode.
- Support cut files.
- Support normal & event search.



2. Click the Play button and it will playback the record file, show as in figure 5-6.

Figure 5-6 Playback Interface

Set the start time and end time of the videos you want to see, click the Search button, and then it will display the matched results. Each video will display its start time and its type, and all the videos in the same channel will display in chronological order.



3. Click the More button, you will turn to the interface of setting more parameters, as show in **figure 5-7.** 

Figure 5-7 More Detail Parameters Setting Interface

In this interface, you can set the more detail parameters such as start time, end time, channel, stream type, the type of records, and click the Search button, then all matched records will be listed below. Check the record file you want to download and click the Download button. System will download the record file in sequence and save to PC. After downloading finishes, the check box of "Download Completed!" will be pop-up.

# 5.5 Alarm

Click the alarm button to enter the alarm setting interface, shown as in the figure 5-8.

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Preview	Playback A	larm	Config	Logou	ıt	J92.168.1.9	~	-		Version 5.5
										Version 5.5
Listen Alarm										
Alarm Type			Operation							
Alarm In	No writable	disk	Message	Local :	snapshot					
Motion Detec	t Network Di	sconnection								
Video Shelter	IP Conflict		Open Video							
Video Lost			Play Alarm A	udio						
Disk Full	S.M.A.R.T									
Disk Error										
						Save				
Time	e Dev	ice Name	Alarm	Туре	Channel No./	Disk No.				

Figure 5-8 Alarm Setting interface

After checking Listen Alarm box, and select the alarm type below, when the device trigger the corresponding alarm, it will display an alarm message to notify you. And link operation will be active.

- Message: Auto jump to this page when alarm triggered.
- Local captures: Auto-grab screenshots of alarm channel.
- **Open the video:** Opens the channel automatically which trigger the alarm.
- Play alarm sound: Play sound when alarm triggered.

# 5.6 Config

# 5.6.1 Local Set

Click "Config -> Local Set" to enter the interface, as shown in the figure 5-9.

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(-) (-) (-)	- 1 http://192	168.1.9/index.htm		0-0	192.168.1.9	×				
	-									
Preview	Playback	Alarm	Config	Logout						
D LocalSet	2									
LocalSet 1 Maintain		✓ Dynamic Tracking								
<ul> <li>Setting</li> </ul>										
General     Encodo										
<ul> <li>Display</li> </ul>										
<ul> <li>Record</li> </ul>										
Email										
- FTP										
- Cloud										
= DDNS										
<ul> <li>UPNP</li> <li>Access</li> </ul>	Control									
- Cloud S	itorage									
PTZ	M									
• Image Set	ting									
<ul> <li>Configura</li> <li>Channel N</li> </ul>	tion lanagen				Save	Refresh				
Alarm										
<ul> <li>Smart</li> <li>Line Cross</li> </ul>	aing									
<ul> <li>Area Intru</li> </ul>	sion									
<ul> <li>Unattende</li> <li>Object Mi</li> </ul>	ed Object issing									
<ul> <li>Region Er</li> </ul>	trance									
<ul> <li>Region Ex</li> <li>Fast Movi</li> </ul>	iting na									
<ul> <li>Loitering</li> </ul>	Detectic									
<ul> <li>People Ga</li> <li>Parking Data</li> </ul>	ithering etection									
Advance Op	tion									

Figure 5-9 Dynamic Tracking Setting Interface

### Note:

> The IPC must support the function, or even if NVR enable the function of Dynamic Tracking, it will not make effect.

## 5.6.2 Maintain

## 5.6.2.1 VerInfo

Click "Config ->Maintain ->VerInfo" to enter the interface, as shown in the figure 5-10.



Figure 5-10 Version Information of NVR

It displays the MAC address of NVR, channel numbers, the number of audio input and output, the number of alarm input and output, system version, the release date of software version.

## 5.6.2.2 Log

Click "Config ->Maintain ->Log" to enter the interface, as shown in the figure 5-11.

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	//1921681.9/indexittm D C 0 1221681.9 ×	合文化
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#### Figure 5-11 Log Search Results

- 1. Set the log search conditions to refine your search, including the Start Time, End Time and Type.
- 2. Click the Search button to start search log files, the matched log files will be displayed on the list shown below
- **Backup:** Back up all log files to the local PC.
- Clear: Clear all log files.
- **Filter:** You can select the filter items to save the log files, the max number of logs is 4096, when the number of log is beyond 4096, "log full coverage "or "stop" are for choice.
- **Prev / Next:** Up to 900 log files can be displayed each time, when the number of the matched logs beyond 900, you can click on Prev/ Next button to view more log files.

## 5.6.3 Setting

## 5.6.3.1 General

Click "Config ->Setting ->General" to enter the interface, as shown in the figure 5-12.

() () http://1	92.168.1.9/index.htm	1.0	ନ - ୯ 🥝	192.168.1.9	×		-	-	-©- ∂☆
Preview Playbac	k Alarm	Config	Logout						Version 5.5.0.361
Maintain     Setting     General     Encode     Display     Record	Time Zone System Time	[GMT+08:00]Beij 1/11/2017	ring,UrumqLSingapore	SyncPC	Save				
<ul> <li>Network</li> <li>Email</li> <li>FTP</li> <li>NTP</li> <li>Cloud</li> </ul>	Display Mode Date Format Date Separator	yyyy mm dd	•	DST Auto Logout	Set 10 min				
<ul> <li>DDNS</li> <li>UPNP</li> <li>Access Control</li> <li>Cloud Storage</li> <li>UPnP-TM</li> </ul>	Time Format Language HDD Full Device No.	24-Hours English Overwrite	•						
<ul> <li>PTZ</li> <li>Image Setting</li> <li>Configuration</li> <li>Channel Managen</li> <li>Alarm</li> </ul>	Host Name	LocalHost							
<ul> <li>Smart</li> <li>Line Crossing</li> <li>Area Intrusion</li> <li>Unattended Objec</li> <li>Object Missing</li> </ul>	Show smart trackin	g			Save				
Region Entrance     Region Exiting     Fast Moving     Loitering Detectic     People Gathering     Parking Detection     Advance Option					Refresh				

### Figure 5-12 General Setting Interface

Configure the following settings, and then click save button to save the settings.

- Time Zone: Select the time zone
- System Time: Select the system date and time.
- Date Format: Select the date format
- Time Format: Select the date format
- Language: There are Simplified Chinese, English, Italian, Russian, Portuguese, Turkish, Persian, and Arabic.
- HDD full: Overwrite and Stop are for choice.
- **Device No.**: The default number is 8, if it is modified to any other number, remote control will not make effect to the NVR.
- Host Name: Set the name of NVR
- Host Name: Set the name of NVR.
- **SyncPC:** The time zone and the system time can synchronize your local PC.
- **Smart Display:** Click the Smart Display check box, the pre-defined virtual line and pre-defined virtual region will display in the preview channels.

### 5.6.3.2 Encode

Click "Config ->Setting ->Encode" to enter the interface ,as shown in figure 5-13.

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Preview Playb	ack Alarm	Config	Logout						Varian E 5.0.26Tome
LocalSet Maintain	<u> </u>								
<ul> <li>Setting</li> </ul>	Channel	1-Network	•	Channel Name	CAM 1				
- General - Encode	2								
<ul> <li>Display</li> <li>Record</li> </ul>	Stream Type	MainStream	•	Stream Type	SubStream	-			
<ul> <li>Network</li> </ul>	Compression	H.264	•	Compression	H.264	•			
= FTP	Enable	Video A	oibu	Enable	Video Auc	fio			
<ul> <li>NTP</li> <li>Cloud</li> </ul>	Resolution	1080P	•	Resolution	CIF	•			
<ul> <li>DDNS</li> <li>UPNP</li> </ul>	Frame Rate(FPS)	25	-	Frame Rate(FPS)	25				
Access Control	Bit Rate Type	CBR	-	Bit Rate Type	CBR				
<ul> <li>UPnP-TM</li> </ul>	Image Quality	Good	*	Image Quality	Berst	*			
<ul> <li>PTZ</li> <li>Image Setting</li> </ul>	Bit Rate(Kb/S)	4096	•	Bit Rate(Kb/S)	1024	•			
Configuration     Channel Manager	IFrame Gop	20	10~100	IFrame Gop	20 1	0~100			
Alarm	3 plice								
Line Crossing	Region Splice	Set							
<ul> <li>Area Intrusion</li> <li>Unattended Object</li> </ul>	V Time Title	Set		Channel Title	Set				
<ul> <li>Object Missing</li> <li>Region Entrance</li> </ul>									
Region Exiting	Сору				Save	Refresh			
<ul> <li>Loitering Detectic</li> </ul>									
<ul> <li>People Gathering</li> <li>Parking Detection</li> </ul>									
Advance Option									

Figure 5-13 Encode Setting Interface

No.	Function Description
1	Set channel name for each channel.
2	The left column is used to set the relevant parameters of main stream for each
	channel, the right column is used to set the relevant parameters of sub stream
	for each channel.
3	Overlay Sets the selected channel of the area covered and the time and channel
	headings displayed, this model NVR Position control of the channel and time
	headers are not supported.

Table 5-3 Function Description of Encode Setting Areas

# 5.6.3.3 Display

Click "Config ->Setting ->Display" to enter the interface, show as **figure 5-14**.

E 🕀 🥵 http:/	//192.168.3.167/			1	P - C <i>@</i> 192.168.	3.167 ×		- □ <mark>- ×</mark>
Preview	Playback	Alarm	Config	Logout				Version 5508
Preview  Preview  CasaSet  Maintain  Setting  General  Encode  Encode  Network  Record  NP  Cloud  DDNS  UNNP  Arress Co	Playback	Alarm Time Title Alarm State Top Bottom Left Right	Config 	Logout ay Channel Title Record State ust				Version 5.5.0.8
<ul> <li>PTZ</li> <li>Image Setting</li> <li>Configuration</li> <li>Channel Mans</li> <li>Alarm</li> <li>Smart</li> <li>Line Cross</li> <li>Area Intrusion</li> <li>Advance Option</li> </ul>	igement	Channel Horizontal Vertical	1024-768	v I Save	Refresh			

Figure 5-14 Display Adjustment Interface

You can click the check box of time title, channel title, alarm state and record state to enable these function, if time title and channel title are set as enabled, they will appear on the screen of current NVR system. You can modify the parameters of top/bottom/left/right to adjust TV display.

## 5.6.3.4 Record

<del>(</del>) 🖉 htt /192.168.3.167 P - C *€* 192.168.3.167 Config Logout Set Set Wed Set Set Set Set Сору Refresh

Click "Config ->Setting ->Display" to enter the interface, as show in figure 5-15.



The parameters should be consistent with NVR local setting .Green stands for normal record, yellow stands for motion detection, red stands for I/O trigger record.

• Channel: set record type for each channel, mainstream and sub stream are for choice.

- Pre-record: Set the pre-record time for each channel.
- Record Control: Three kinds of video control such as schedule, manual and stop.

How to configure Record Schedule:

- 1. You can choose the day to which you want to set schedule, click the set button on the right.
- 2. The default is to schedule an all-day recording, to arrange other schedule, set the Start/End time for each period.
- 3. Select the record type on the right hand side
- 4. Click Ok to save all the settings.
- Repeat the above edit schedule steps to schedule recording for other days in the week. If the schedule can also be applied to other days, click the day you want to configure the same schedule, and click OK.

Note:

> Up to 8 periods can be configured for each day. And the time periods can't be overlapped each other.

## 5.6.3.5 Network

Click "Config ->Setting ->Network" to enter the interface, as show in figure 5-16.

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Preview Playba	ck Alarm	Config Logou					
Localise     Localise     Localise     Localise     Localise     Localise     Setting     Ceneral     Encode     Setting     Concerned     From     Concerned     Con	PAddress MAC Sub Net Mark Gateway DNS Secondary DNS Internal JP Internal JP Int Sp Port RTSP Port RTSP URL	Comp         Coput           192         168         1         9           003456-abcr6ad         225         255         0           192         168         1         1         1           8         8         8         8         8           0         0         0         0         0           Transfer Mode           32         8         8         8           0         0         0         0         0	DHCP Plancy Professed Media Port Handsat Port cc(?)Media (?) See	W81 99508 30/40 34567 5801 Refeash			Version 5.5.0.36Temo .

Figure 5-16 Network Setting Interface

NVR support Static/DHCP/PPPOE/3G/Wifi modes. System default network type is static. User can set these parameters as required, including IP Address, MAC, Sub Net Mask, Gateway, DNS, Secondary DNS, Internal IP, Max Users, Media Port, HTTP port, Handset Port.

- **HS Download:** Enable the function, you can download video faster.
- **Transfer Mode :** You can choose a different network policies, quality preferred, fluency preferred and adaptive are for choice

### 5.6.3.5.1 E-mail

<del>(</del> )	10 http://192	168.1.9/index.htm		<u>ه</u> ک - ک	192.168.1.9	×	-	-	-	-		- 0 × ↑ ★ 0
Preview	Playback	Alarm	Config	Logout							Ver	sion 5.5.0.36Temp
Constant of the constanto	Control Playback Playback ing ing inangen ng ion anagen ng ion inangen	168.1.9(index htm) Alarm SMTP Server Port User Name Passood Sender Title Receive2 Receive3 MailTea	Config MailServer 25 SSL ALARM	<i>P</i> + € <i>f</i> Legaut α-65500 See	192168.19	×					Ver	A 🕁 🖲
<ul> <li>Region Exit</li> <li>Region Exit</li> <li>Fast Moving</li> <li>Loitering D</li> <li>People Gati</li> <li>Parking Det</li> <li>Advance Option</li> </ul>	rance ling g etectic hering tection on											

Click "Config ->Setting ->Network->Email" to enter the interface, as shown in the **figure 5-17**.

### Figure 5-17 E-mail Setting by Web

Before you configure these parameters, you have to click enable button .Then set the relevant parameters, including SMTP server, port, username, password, the email address of sender and receiver .Click Save to save all the settings, Click MaiTest button to confirm whether the setting is effective.

- **SMTP Server:** The SMTP Server IP address or host name (e.g.smtp.263.net).
- **Port:** The SMTP port. The default TCP/IP port for SMTP is 25.

### 5.6.3.5.2 FTP

Click "Config ->Setting ->Network->FTP" to enter the interface, as show in **figure 5-18**.

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Preview Playbac	k Alarm	Config Logou	ut.				Version 5.5.0.36Temp
LocalSet     Maintain     Maintain     Setting     Ceneral     Encode     Display     Record     Network     Email     Display     Could     DONS     UNNP     Access Centrol     Could Stronge     UNNPTM	Type Server User Name Password Directory	Record FIP	Port 21 Anonymous File Length	10 MB FTP Test			
PTZ     Image Setting     Configuration     Configuration     Channel Managen     Alarm     Smart     Line Crossing     Area Intrusion     Unattended Objec     Object Missing	Channel Week Day Schedule1 Schedule2	1-Network         ▼           Wed.         ▼           12:00:00 AM         ⊕         11:59:59 PM         ⊕           12:00:00 AM         ⊕         11:59:59 PM         ⊕	Standard Event				
Region Entrance     Region Entrance     Region Editing     Fast Moving     Loitering Detectic     People Gathering     Parking Detection     Advance Option	Сору		Save	Refresh			

Figure 5-18 FTP Setting Interface

### How to configure the FTP:

- 1. Choose the type of FTP
- 2. Click the enable check box
- 3. Configure the FTP Server, port username, password , directory and file length
- 4. Click save button to save all the settings
- 5. Click FTP Test button to confirm whether the setting is effective.
- 6. Set the schedule for each channel
- 7. Click OK to save all the settings.

#### Note:

> Up to 2 periods can be configured for each channel. And the time periods can't be overlapped each other.

### 5.6.3.3.3 NTP

Click "Config ->Setting ->Network->NTP" to enter the interface, as show in **figure 5-19**.

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Preview Playback	Alarm Config Logou			Version 5.5.0.36Temp
It considert           • Maintain           • Setting           • General           • Daplay           • Daplay           • Daplay           • Network           • Encode           • Network           • Encode           • Instance           • Constance           • Tomail           • NTP           • Cloud           • DNNS           • UnNP           • Cloud Storage           • Cloud Storage           • UmPT-TM	pe Record FTP	Puet 22 Anonymous File Length 10 MB		
<ul> <li>Parkan Setting</li> <li>Image Setting</li> <li>Conjunction</li> <li>Conjunction</li> <li>Construction</li> <li>Alarmi</li> <li>Smart</li> <li>Line Crossing</li> <li>Area Intrusion</li> <li>Unattended Object</li> <li>Object Minsing</li> <li>Region Dating</li> <li>Fast Moving</li> <li>Lotering Detection</li> <li>Advance Option</li> </ul>	hannal 1-Network	Standard Event		

### Figure 5-19 NTP Setting Interface

A Network Time Protocol (NTP) Server can be configured on your NVR to ensure the accuracy of system date/time.

- 8. Check the Enable checkbox to enable this feature.
- 9. Configure the parameters, including ServerIP, Port and Update Time.
- 10. Click Save button to save all the settings.

### 5.6.3.3.4 Cloud

Click "Config ->Setting ->Network->Cloud" to enter the interface, as show in **figure 5-20**. Click on Enable checkbox to enable the function of cloud. When the Status is connected, it means cloud function is available for use. or can download iPhone/Android InVid Elevate client software by scanning QR code. How to use Invid Elevate please refer to **User Manual of InVid Elevate**.

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#### Figure 5-20 Cloud Setting Interface

### 5.6.5.3.5 DDNS/UPNP

### • DDNS

Click "Config ->Setting ->Network->DDNS" to enter the interface, as show in **figure 5-21**. Click on the Enable to enable the function of DDNS.

Select DDNS Type: four types are selectable, such as Oray DDNS, CN99 DDNS, DynDNS DDNS, and NOIP DDNS.

Set the Domain Name, User Name and Password.

Click Save to save the settings.

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Preview P	ayback	Alarm	Config	Logout			Version 5.5.0.8
Preview P Classifier General G	ayback DDP Don Use Past	Alarm 85 Type nain Name Name swoord	Cray DONS	Logout Enable Refresh			Version 3.5.0.8
<ul> <li>Eine Cross</li> <li>Area Intrusion</li> <li>X Advance Option</li> </ul>							

Figure 5-21 DDNS Setting Interface

### • UPNP

Click "Config ->Setting ->Network->UPNP" to enter the interface, as show in figure 5-22.



#### Figure 5-22 UPNP Setting Interface

#### Note:

• To ensure this function can be used normally, please make sure the router UPNP function has been enabled.

### 5.6.3.6 Access control

Click "Config ->Setting ->Network->Access control" to enter the interface, as show in figure 5-23. Select the type of restricted list, Blocked Sites and Trusted Sites are selectable. Input the IP Address manually, click Add IP button on the right, click save button to save the settings. If you want to delete the IP you have set before, left-click an IP address from the IP Blocked list /IP Allowed and click Delete IP.



Figure 5-23 Access Control Setting Interface

### 5.6.3.7 Cloud Storage

Click "Config ->Setting ->Network-> Cloud Storage" to enter the interface, as show in figure 5-24. Our NVR support Google Drive & Dropbox storage. You can set the channels and upload type including "Record"& "Picture".

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Preview P	layback	Alarm	Config	Logout				Version 5.5.0.26
<ul> <li>Jocal Sett</li> <li>Waintain         <ul> <li>Verhifo</li> <li>Log</li> <li>Setting</li> <li>General</li> <li>Encode</li> <li>Display</li> <li>Record</li> <li>Network</li> <li>Email</li> <li>FTP</li> <li>Cloud</li> <li>DDNS</li> <li>UPNP</li> <li>Access Control</li> <li>Cloud Storage</li> <li>Image Setting</li> <li>Configuration</li> <li>Chard Managemu</li> <li>Alarm</li> <li>X Advance Option</li> </ul> </li> </ul>	ent	Enable Cloud Type Status Operation Upload Directory File Length Channel Upload Type		Google Drive Unbind 9 1-Network Picture 5 standard E vent	Record Standard Event Save	M M		

Figure 5-24Cloud Storage Settings

# 5.6.3.6 Image Setting

Click "Config ->Setting ->Image Setting" to enter the interface, as show in **figure 5-25**.

http://192.168.1.10/ - Windows Internet Explorer	- 18 M			10.00		A	and and	
🕒 🗇 🖶 - 😥 http://192.168.1.10/							📀 🔹 😽 🗙 🔛 百度度素	• م
🚖 Favorites 👩 http://192.168.1.10/								
Preview Playback Alarm Config Logout								Version 5.5.0.33
LocalSet     Maintain	-	(						
e Setting	Channel	1-Network	•	Day/Night		Auto		
Encode	Period	Period 1	-	00:00	- 23:59 🚔			
Display Record	Mode	Custom		-				
Network	Brightness				50			
Configuration	Contrast				50			
Channel Managen	Saturation				50			
Adarm Advance Option	Hue				50			
	Sharpness				50			
		1.50						
	Evenorura moda	Auto						
		Auto				1/3	-	
	NRLevel	3		Back Light	t Comp	Chee	•	
	Image	Close						
	WDR	Close						
	Day/Night Switch	Auto						
	Filter time			5 Switch Ty	pe	IR Synchronous Sv	vit 🔻	
	Slow shutter	Weak	•					
	Defog	Close	•					
			Copy		Save	Refres	h	

Figure 5-25 Image Setting Interface

- 1. Select a channel and then set the relevant parameters ,when all the parameters have been configured ,
- 2. Click Save button to save your configuration.
- 3. IF you want to configure the same parameters to another channel ,click the Copy button and select any channel you want ,
- 4. Click OK button to save.

# 5.6.3.7 Configuration

Click "Config ->Setting ->Configuration" to enter the interface, as show in figure 5-26.

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	52.100.1.5/ mdex.non		2.0	Jaz168.13	^	_	_	_	_	_	UU	
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Construction of the second sec	k Alarm Plaze select restore ite Select all Export Config Export Import Config Import	Config Conral Motorbackt Display Inage Setting		Channe Name Channe Name Channe Name Decord Alaem P121 Digital Channel Digital							Version 5.5.0.36T	-mo

### Figure 5-26 Configuration Setting Interface

- 1. Click on the checkbox of those item you want to restore, and click the Default button, then all the configurations of the selected item will restore to the default value.
- 2. Click Export button to export all the configurations of the network camera in a .coi file.
- 3. Click Import button to import all the configurations of the network camera from a .coi file. *Note:* 
  - If Network has been choose in the list, the IP address is also restored to the default
     IP address, please be careful for this action.

## 5.6.3.8 Channel Management

### 5.6.3.8.1 Digital Config

Click **Config->Setting-> Channel Management->Digital Config**. You can search the IPC in the Internet and set their parameters, including IP address, port, username/password, protocol, syn channel time switch and connection type. As show in **figure 5-27**.

(=) (=) (€) http://190	2.168.1.9/index.htm		Q-0	192.168.1.9	*	ALL PROPERTY AND DESCRIPTION OF THE OWNER.	
Preview Playback	Alarm	Config	Logout				
Localet     Maintain     Maintain     Setting     General     Gener     General     General     General     General     General     G	Channel IP Address User Name Protocol Status Main stream Sub stream Device List No. Device	I-Network II92.168.1 II92.1 II	Pert     Pert     Passord     SynchroTime     P	e (Minual 34567 UTC - Co	- Seech		VENDU 2333-231
	Сору	Clear All	Automatic IP Delete	Quick Set	Add		

Figure 5-27 Digital Config of NVR

### 5.6.3.8.2 Channel Status

Click Config->Setting-> Channel Management->Channel Status. On this page you can check the channel name, channel connection status and alarm status, including Motion Detect, Video Shelter and Video Lost. As show in figure 5-28.

e y d ork	Channel	Alarm Channel _ CAM 1 CAM 2	Config Main/Sub 1080P/CIF	Logoul Channel Stat	192	168.1.9	×	
review Playb ocalSet faintain etting General Encode Display Record Network	Channel	Channel CAM 1 CAM 2	Config Main/Sub 1080P/CIF	Logout Channel Stat				
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General Encode Display Record Network	1 2 3 4	CAM 1 CAM 2	1080P/CIF		Motion Dete	Video Shelter	Video Lost	_
<ul> <li>Encode</li> <li>Display</li> <li>Record</li> <li>Network</li> </ul>	2 3	CAM 2		Connected	ON	ON	ON	
<ul> <li>Display</li> <li>Record</li> <li>Network</li> </ul>	3		720P/CIF	Connected	ON	ON	ON	
<ul> <li>Record</li> <li>Network</li> </ul>	4	CAM 3	/	NoConfig	Disable	Disable	Disable	
Network	-	CAM 4	/	NoConfig	Disable	Disable	Disable	
	5	CAM 5	/	NoConfig	Disable	Disable	Disable	
- PTZ	6	CAM 6	/	NoConfig	Disable	Disable	Disable	
Image Setting	7	CAM 7	/	NoConfig	Disable	Disable	Disable	
<ul> <li>Configuration</li> </ul>	8	CAM 8	/	NoConfig	Disable	Disable	Disable	
Channel Managen	9	CAM 9	/	NoConfig	Disable	Disable	Disable	
Digital Config	10	CAM 10	/	NoConfig	Disable	Disable	Disable	
Channel Status	11	CAM 11	/	NoConfig	Disable	Disable	Disable	
Alarm	12	CAM 12	/	NoConfig	Disable	Disable	Disable	
Smart	13	CAM 13	/	NoConfig	Disable	Disable	Disable	
Line Crossing	14	CAM 14	/	NoConfig	Disable	Disable	Disable	
Area Intrusion	15	CAM 15	/	NoConfig	Disable	Disable	Disable	
<ul> <li>Object Missing</li> </ul>	16	CAM 16	/	NoConfig	Disable	Disable	Disable	
Region Entrance	17	CAM 17	/	NoConfig	Disable	Disable	Disable	
Region Exiting	18	CAM 18	/	NoConfig	Disable	Disable	Disable	
<ul> <li>Fast Moving</li> </ul>	19	CAM 19	/	NoConfig	Disable	Disable	Disable	
<ul> <li>Loitering Detectic</li> </ul>	20	CAM 20	/	NoConfig	Disable	Disable	Disable	
<ul> <li>People Gathering</li> </ul>	21	CAM 21	/	NoConfig	Disable	Disable	Disable	
<ul> <li>People Gathering</li> <li>Parking Detection</li> </ul>								
Advance Ontion							Re	rach .

Figure 5-28 Channel Status of NVR

# 5.6.4 Alarm

# 5.6.4.1 Motion Detect

Click the Config->Alarm->Motion Detect. As show in figure 5-29.



Figure 5-29 Motion Detect Setting by Web

The feature is similar to the local alarm of NVR. Event types are composed of **motion detection**, **video loss** and **video shielding**.

Taking motion detection for example to illustrate:

- **Region:** Set the alarm area.
- **Sensitivity:** Change the sensitivity of the motion detection. The higher the sensitivity, the easier to trigger alarm.
- Channel: Can be set for each channel.
- **Enable:** Motion detection-enabled switch.
- **Schedule:** Set the alarm time.
- Alarm Linkage Control: Include alarm output, show message, buzzer, send Emails,

alarm recording, PTZ Act, tour, Buzzer and Snapshot.

# 5.6.4.2 Alarm In/Alarm Out

Click the Config->Alarm->Alarm In/Alarm Out. You can set up alarm port and linkage operations.

• Alarm In

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Alarm     Motion Detect     Alarm     Alarm In     Alarm Out	Alarm In Name	1 V Grabble Type Normal Open  Atarn in 1	
Abnormality     Smart	Schedule	Set Interval 0 Sec	
Line Crossing     Area Intrusion	Alarm Out	Alarm delay 10 Sec 10-300	
Object Missing     Device Extremely	Show Message	Send Email	
Region Entrance     Region Exiting     Fast Moving     Lottering Detection	Record CHN	1         2         3         4         5         6         7         8         9         10         11         12         13         14         15         16           17         18         19         20         2         2         24         25         26         77         28         29         30         13         12	
People Gathering     Parking Detection	Record delay	10 Sec 10-300	
Advance Option	PTZ Act	Set	
	Enable Tour	1         2         3         4         5         6         7         8         9         10         11         12         13         14         15         16           17         18         19         20         21         22         23         24         25         26         27         28         30         31         32	
	Buzzer		
	Snapshot	1         2         3         4         5         6         7         8         10         10         12         13         14         15         16           17         18         19         10         22         23         44         15         66	
	Сору	Save Rabeeb	

### Figure 5-30 Alarm In Setting by Web

<b>()</b>	• 6 http://192.16	58.1.9/index.htm		۵-۵	192.168.1.9	×	1.00000.0000	 -	-	-	ienii G
Preview	Playback	Alarm	Config	Logout							Version 5.5.
LocalSet Maintain Setting Alarm - Motion De Alarm - Alarm - Cross - Aras - Aras - Cross - Aras - Cross - Aras - Cross - Aras - Cross - Aras - Cross - Alarm - Cross - Cros	Alar ity ity ity ity itrance itrance itrance befetcic iton	m Out Alarm Out Name Type Status	1 Alarn out		San Refeat						

Figure 5-31 Alarm Out Setting by Web

# 5.6.4.3 Abnormality

Alarm Output

Click the **Config->Alarm->Abnormality**. It is similar to the local abnormality of the NVR. You can set the alarm recording, screen tips, buzzer alarm, sending Emails, alarm output.

← ⊕ € http://192.168.	.1.101/	* ** 18	41 - 14	P - C € 192.168.1.101	×	Constant a	- 0 ×
Preview Play	yback Alarm	Config	Logout				Version 5.5.0.26
<ul> <li>LocalSet</li> <li>Maintain         <ul> <li>VerInfo</li> <li>Log</li> <li>Setting</li> <li>Alarm             <ul></ul></li></ul></li></ul>	Event Type	No writable disk •	Enable				
Alarm In     Alarm Out     Abnormality     Smart     Line Cross     Area Intrusion     Advance Option	Alarm Out ✓ Show Message	1 Buzzer	Alarm delay	1010~300			
				Save Refresh			

Figure 5-32 Abnormality Setting of NVR by Web

• No writable disk: There is no disk or the disk status is not available, such as read-only disk.

• Hard disk error: The connection between the disk and the device is error, such as the data lines are broken.

- **Disk No Space:** Alarm when the remaining space of the hard disk reaches the set value.
- **Network Disconnection:** Alarm when the network cable is disconnected.
- IP Conflict: Alarm when the IP address is the same as the others.

• **S.M.A.R.T:** This exception is about HDD health detection. It will be triggered when the HDD of device have some problems and not work under good condition. It supports these methods to remind the user about the exception: Show Message and Buzzer.

## 5.6.5 SMART

### 5.6.5.1 Line Cross

Click the Config->Smart->Line Cross.



### Figure 5-33 Line Cross Setting

It is similar to the NVR local settings, you can also choose to show the detect boundaries on the preview screen. You can set four lines that have a direction, the device will alarm when it detects the behavior of cross-border.

- Plot area: Set the detect boundaries.
- Sensitivity: Change the sensitivity of the border detection. The higher the sensitivity, the easier to trigger alarm.
- Channel: Can be set for each channel.
- Enable: Border detection enabled switch.
- Schedule: Set the alarm time.
- Alarm Linkage Control: Include alarm output, show message, buzzer, send Emails, alarm recording, PTZ Act and tour.

## 5.6.5.2 Area Intrusion

Click the Config-> Smart->Area Intrusion.

Preview Playback	Alarm Config I	Logout				Version 5.5.0.36Temp
Localet     Mantain     M	Retart Det		Ound 2 State With States The Theodolity Sendoy Action Control DocuManage Brand State Brand	or Entelling         0           1 <t< th=""><th>544 0-400 544 10-300 74 74 75 75 75</th><th></th></t<>	544 0-400 544 10-300 74 74 75 75 75	

### Figure 5-34 Area intrusion Setting

It is similar to the NVR local settings, you can also choose to show the detect areas on the preview screen. You can set four different test areas that have a direction, the device will alarm when it detects the behavior of area intrusion.

- **Plot area:** Set the detect areas.
- **Sensitivity:** Change the sensitivity of the Area Intrusion. The higher the sensitivity, the easier to trigger alarm.
- Channel: Can be set for each channel.
- Enable: Area Intrusion enabled switch.
- Schedule: Set the alarm time.
- Alarm Linkage Control: Include alarm output, show message, buzzer, send Emails, alarm recording, PTZ Act and tour.

## 5.6.5.3 Region Entrance



### Figure 5-35Region Entrance Setting

Region Entrance function detects people, vehicle or other objects which enter in a forbidden pre-defined virtual region from outside, and some certain actions can be taken when the alarm is triggered.

- Plot area: Set the detect areas.
- **Sensitivity:** Change the sensitivity of the Area Intrusion. The higher the sensitivity, the easier to trigger alarm.
- **Channel:** Can be set for each channel.
- Enable: Area Intrusion enabled switch.
- Schedule: Set the alarm time.
- Alarm Linkage Control: Include alarm output, show message, buzzer, send Emails,

alarm recording, PTZ Act and tour.

# 5.6.5.4 Region Exiting



### Figure 5-36Region Exiting Setting

Region Exiting function detects people, vehicle or other objects which exit a forbidden pre-defined virtual region from inside, and some certain actions can be taken when the alarm is triggered.

- Plot area: Set the detect areas.
- **Sensitivity:** Change the sensitivity of the Area Intrusion. The higher the sensitivity, the easier to trigger alarm.
- Channel: Can be set for each channel.
- Enable: Area Intrusion enabled switch.
- Schedule: Set the alarm time.
- Alarm Linkage Control: Include alarm output, show message, buzzer, send Emails, alarm recording, PTZ Act and tour.

# 5.6.5.5 Object Abandoned



### Figure 5-37Object Abandoned Setting

Object Abandoned function detect articles that left in a certain pre-defined virtual region, and some certain actions can be taken when the alarm is triggered.

- **Plot area:** Set the detect areas.
- **Sensitivity:** Change the sensitivity of the Area Intrusion. The higher the sensitivity, the easier to trigger alarm.
- Channel: Can be set for each channel.
- **Time threshold:** For example, if you set the time threshold is 5 seconds and someone intrude your area about 3 seconds alarm cannot be triggered.
- Enable: Area Intrusion enabled switch.
- Schedule: Set the alarm time.
- Alarm Linkage Control: Include alarm output, show message, buzzer, send Emails, alarm recording, PTZ Act and tour.

# 5.6.5.6 Object Missing



### Figure 5-38Object Missing Setting

Object Missing function detect articles that missing in a certain pre-defined virtual region, and some certain actions can be taken when the alarm is triggered.

- Plot area: Set the detect areas.
- **Sensitivity:** Change the sensitivity of the Area Intrusion. The higher the sensitivity, the easier to trigger alarm.
- Channel: Can be set for each channel.
- **Time threshold:** For example, if you set the time threshold is 5 seconds and someone intrude your area about 3 seconds alarm cannot be triggered.
- Enable: Area Intrusion enabled switch.
- Schedule: Set the alarm time.
- Alarm Linkage Control: Include alarm output, show message, buzzer, send Emails, alarm recording, PTZ Act and tour.

# 5.6.5.7 Fast Moving



### Figure 5-39Fast Moving Setting

Fast Moving function detects people, vehicle and some other objects that move with forbidden speed, and some certain actions can be taken when the alarm is triggered.

- **Plot area:** Set the detect areas.
- **Sensitivity:** Change the sensitivity of the Area Intrusion. The higher the sensitivity, the easier to trigger alarm.
- Channel: Can be set for each channel.
- Enable: Area Intrusion enabled switch.
- Schedule: Set the alarm time.
- Alarm Linkage Control: Include alarm output, show message, buzzer, send Emails, alarm recording, PTZ Act and tour.

## 5.6.6 Advance Option

### 5.6.6.1 Tour

Click the **Config-> Advance Option->Tour**. It is similar to the NVR local settings.

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Preview	Playba	ck Alarm	Config	Logout	Version 5.5.0.8
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Alarm Smart Advance Option		Multi Views     Enable Tour	Four Time	5 View Combines	
<ul> <li>Tour</li> <li>HDD</li> <li>Base</li> <li>Advanced</li> </ul>			Single View(Full Screen	) - Add Delete Digital Channel Combine *	
<ul> <li>S.M.A.R.T</li> <li>Upgrade</li> <li>Record Contri</li> <li>Account</li> </ul>	rol		Single View(Full Scree Single View(Full Scree Single View(Full Scree	n) 1 n) 2 n) 3 n) 4 -	
		C Split Display	FourView	Select Channel View Combines	
	۰			Save Refresh	
	۰				

### Figure 5-35 Tour Setting

- Interval time: Channel switching time.
- **Channels choose:** You can set different channels to switch between back and forth.

You can choose single channel or multi channels to display on your screen at regular intervals.

## 5.6.6.2 HDD

Click the Config-> Advance Option->HDD. It is similar to the NVR local settings.

### 5.6.6.2.1 Base

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Match     Dick     Status     ATTR     Type     Total     Free     Group       • Log     Ipic     Nor Dick     ***     ***     ***     ***     ***       • Adame     Ipic     Nor Dick     ***     ***     ***     ***       • Adame     Ipic     Nor Dick     ***     ***     ***     ***       • Adame     Ipic     Nor Dick     ***     ***     ***     ***       • Adame     Ipic     Nor Dick     ***     ***     ***     ***       • Adame     Ipic     Nor Dick     ***     ***     ***     ***       • Adame     Ipic     ***     ***     ***     ***     ***       • Adame     Ipic     ***     ***     ***     ***     ***       • Adame     Ipic     ***     Ipic     Ipic     Ipic     Ipic       • Adame     Ipic     Ipic     Ipic     Ipic     Ipic     Ipic <t< td=""><td>LocalSet</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td></t<>	LocalSet									1		
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Accom Accom Refresh Save	Record Control		Sleep									
Refresh Save	Account											
	- Auto Maintenance							Refresh	Save			

### Figure 5-36 Base Setting of HDD

This page shows the status of the device's hard disk. You can set the state of the hard disk read and write. You can decide whether or not to sleep hard disk after a few minutes. In addition, you can also format or delete the hard disk.

- Hard disk: Hard disk serial number "[1]sda "Or" [2]sdb ".
- Status: "Unformatted" or "normal" or "no disk".
- **Read\write:** The video can be recorded and can be played back.
- **Read only:** The video only can be played back but not be recorded.
- Redundant: You can find a completely identical video in the redundant disk. It is a

function similar to that of a copy. The entire premise is that you have more than one hard disk.

- **Group:** Set which group the hard disk belongs to.
- **Delete:** Disconnect the connection between the hard disk and the device in logic. Of
- course, you can also restore the connection between them by clicking on the "Add" button.
- Format: Format the hard disk.
- **Sleep:** If the hard disk does not record or not play back in a few minutes, the disk will fall into sleep. This function can enhance the life of the hard disk.

### 5.6.6.2.2 Advanced

(-) (2) http://192.1	168.1.9/index.htm	P → C 2 192.168.1.9	and second of the local division of the	-	- • • • •
Preview Playback Uccellet Uccellet Setting Set	Alarm Config Mode Graup Channel	Logout           Group           1           3           1           3           1           3           1           3           1           3           1           3           1           3           1           3           1           3           1           3           1           3           1           3	15 16 31 32 * Refeat		Verden 53.0.331ene.

### Figure 5-37 Advanced Setting of HDD

This page you can switch the hard disk's storage mode, including the "group" or "quotas". Your device will restart when you switch the mode.

- **Group mode:** You can select several channels attached to a disk group. Then their videos will be recorded in the group.
- Select one disk group number.
- Select several channels attached to the disk group.

- **Quota mode:** You can save videos or pictures for each channel that does not exceed the total volume of space.
- Record Quota: You can manually set the quota size of the channel video.

• Photo Quota: You can manually set the channel quota size to save the screenshots. Select one channel to set the quota size.

### 5.6.6.2.3 S.M.A.R.T.

iew Playba	ick		Config	Logout				Ve
in Info	N [1154	o. Sta	tus La	st test time Te	emperature	2212 Life	time(hours)	1
e Option		Tes	t type	Short -	) St	art selftest	Stop selftest	
Advanced	IC	•	Attribute name	Value	Worst	Threshold	Raw value	8
MARI	1	Raw_Read_Er	ror_Rate	200	200	51	0	
rade	3	Spin_Up_Tim	•	197	188	21	3141	
ord Control	4	Start_Stop_C	ount	100	100	0	189	
unt	5	Reallocated_	Sector_Ct	200	200	140	0	
Maintenance	7	Seek_Error_R	ate	200	200	0	0	
	9	Power_On_H	ours	97	97	0	2212	
	10	Spin_Retry_C	ount	100	100	0	0	
	11	Calibration_R	etry_Count	100	100	0	0	
	12	Power_Cycle_	Count	100	100	0	151	
	192	Power-Off_K	etract_Count	200	200	0	141	
	195	Load_Cycle_C	Cololius	200	200	0		
	194	Reallocated	_Ceisius	200	200	0	0	
	1.00	neanocated_	crençeoun	200	200			8
							Refresh	

Figure 5-38 SAMRT Detect of HDD Setting by Web

It is used to detect the hard disk status.

- S.M.A.R.T: To detect the hard disk whether it meets the basic requirements for storage.
- NO.: Access the hard disk serial number.
- Status: Can display the self-test progress in real time. And there will be a test result showing that the hard disk is "Passed "Or" Failed ".
- Last test time: A recent self-testing time on the hard disk.
- Temperature: Display the hard disk temperature in real time.
- Life time: The time hours that your hard disk have been used for.

## 5.6.6.3 Upgrade

Click the Config->Advance Option->Upgrade.

← → ⊕• @	http://192.168.3.16	7/	🕹 X 5 - Q 📀	9 192.168.3.167	×	1		= <b>○ <u>- ×</u></b> ↑ ★ ☆
Preview	Playback	Alarm	Config	Logout				Version 5.5.0.8
Preview     Maintain     Maintain     Variho     Variho	ol ance	Alarm Select upgrade fi	config =		Upgrade			Version 5.5.8

Figure 5-39 Upgrade NVR by Web

- 1. Select the upgrade file from local.
- 2. Click the upgrade, the device will automatically reboot in remote.

Note:

➢ In general, the extension of the upgrade file is \*\*\*.upf.

## 5.6.6.4 Record control

Click the Config->Advance Option->Record Control. You can quickly set the record control mode for each channel. It is similar to the NVR local settings.



Figure 5-40 Quick Record Control by Web

## 5.6.6.5 Account

Click the **Config->Advance Option->Account**. It is similar to the NVR local settings.

< →	http://192.168.3.16	7/	🛃 X 5 - Q 🚯	192.168.3.167	×				n * ¤
Preview	Playback	Alarm	Config	Logout				v	arcion 550.8
<ul> <li>Jocaliet</li> <li>Maintain</li> <li>Maintain</li> <li>Verkifo</li> <li>Log</li> <li>Setting</li> <li>Alarm</li> <li>Smart</li> <li>dharma</li> <li>Tora</li> <li>HOD</li> <li>Liggade</li> <li>Record Contr</li> <li>Auto Mainten</li> </ul>	ol ance	Accout min admir@cu.sable() v gustt(Reusable)			Add User Modify User Delete User Modify Password Add Group Modify Group Delete Group Refresh				

Figure 5-41 Account Setting of NVR by Web

• User accounts: Select the account you want to edit, the page will display this user's editing privileges.

• **The formula bar:** Support to add and modify user rights, change password operation, add or delete the user and group.

### 5.6.6.6 Auto Maintenance

Click the **Config->Advance Option->Auto Maintenance**. It is similar to the NVR local settings. You can set the time for automatic restart of the NVR.

€ → 🕫	http://192.168	.3.167/	者 x 5 - Q 📀	192.168.3.167	×			n ★ ¤
Preview	Playbac	k Alarm	Config	Logout				Version 5.5.0.8
<ul> <li>Verinfo</li> <li>Log</li> <li>Setting</li> </ul>		Auto-Reboot Tue	. • O	2:00 💌				
<ul> <li>Alarm</li> <li>Smart</li> <li>Advance Option</li> <li>Tour</li> </ul>			Save	Refresh				
<ul> <li>HDD</li> <li>Upgrade</li> <li>Record Contr</li> <li>Account</li> </ul>	ol							
	ance							

Figure 5-42 Auto Restart Setting by Web

# 5.7 Logout

Click the logout button, click OK, you will exit to the login page.



Figure 5-43 Logout the Web Client

# **Chapter 6 P2P**

# 6.1 Login by username

Web -Remote management of equipment in another way is through P2P Connection access. Open the web browser and input the www.elevatep2p.com, and press the Enter key to enter the login interface.

Remote Monitor of Netwo	rk		Language:	English -
Tech		By User	By Device	
		Log in monitor	ring system	
Innovative Video Technology		UserName		
		Password		
			Save Password	
		LO	gin	
	ELEVATE SERIES	Register Down	nload Get Password	

# 6.1.1 Register

Click on the "register" button to enter the graphical interface, input your registration information to register. It will show a success message, and then you can login with your account.

UserName	
Password	
Confirm	
Email Find Passw	word
Register Cancel	
# 6.1.2 My device

This page displays the name and the connection status of have added devices. You can refresh the device status and login in a device manually.

After you add a device, according to prompts you can click Add device, shown as an IP Interface address connection, specific operations see section.



Figure 6-3 Main Interface of P2P after Login

### 6.1.3 Device Manage

It is empty for the first time when using video surveillance list. Click the Add button and enter the device ID, device name, account number and then select Add channel.

You can modify and delete the devices that have been added.

My Devices	Device Manage	User Info	Logout					
	Device Name			Cloud ID			Operation	1
	6616PP			umksj7gggggu				
				Cloud ID				
				Cloud ID				
				DeviceName				
				UserName				
				Password				
				Channele 1				
				Chaimeis 1				
				ок	Cancel			
						DroDago Nort	Dage Add Device	
						Prenage Next	AbdDevice	

#### Figure 6-4 Device Manager of P2P

### 6.1.4 User Info

You can change the password on this page.

My Devices	Device Manage	User Info	Logout			
			User Name	namel		
			Old Password	1		
			New Password			
			Email	neal wanefinializing on		
			Modify	Cancel		

Figure 6-5 User Info of P2P

## 6.1.5 Logout

Click the Logout button.



Figure 6-6 Logout P2P

# 6.2 Login by Cloud ID

By cloud ID is another way to achieve P2P connections.

Remote Monitor of Network	Language: English			
	By User	By Device		
		ing system		
initiovative video technology	UserName			
	Password			
	Log	gin		
ELEVATE SERIES	Register Down	nload Get Password		

#### Figure 6-7 Login by Cloud ID of NVR

Type device for the cloud ID and account, click Log into the graphical interface.

Preview	Playback	Alarm	Config	Logout						Version 5.5.0.33
CAM 1-Net. CAM 2-Net. CAM 3-Net. CAM 4-Net. CAM 5-Net. CAM 6-Net. CAM 7-Net.										Color Control A
CAM 8-Net. CAM 9-Net. CAM 10-Ne CAM 10-Ne CAM 12-Ne CAM 12-Ne CAM 13-Ne CAM 13-Ne CAM 14-Ne CAM 15-Ne CAM 15-Ne	an umks3iwv an an an an an an	wiar 1 583Kboi M		≝ • A ∎ umka3wow	ar-2-5128bas-M	⊠ <b>— / i i</b> No Video	G <b>-</b>	Ω ► No Video	≊∎a∙	Step(1-8): 5 Value(1-255):1 PreSet Auto Tour
Open Al(Main) Open Al(Sub)	No Video			I ■ ∩ ► No Video		G ■∩ ► No Video	G <b>-</b>		≊∞∩≻	Auto Pan Auto Scan Pattern PTZ AuxOpen AuxClose Other Function  Picture P Record P Reboot RecordSize
Close All	No Video			Image: Contract of the second sec		G ■ ∩ F No Video	g •		2∞∩>	
	No Video	BCAC		336 64 9		G ■ O ► No Video	3.	A ► No Video		

Figure 6-8 Main Interface After Login by Cloud ID of NVR

Note:

After login by cloud ID successfully, the interface are the same as you login by IP address and the operations also. Please refer to IP address connection parts.