IAPOLLO SMART DVR

4/8/16 Channel Full Realtime D1 Digital Video Recorder

User's Manual

V 1.0.0 08/2013

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ALL OUR PRODUCTS CARRY QVIS LOGOS

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Table of Contents

1 FEATURES AND SPECIFICATIONS 1

1.1 Overview 1

1.2 Features 1

1.3 Specifications 2

2 FRONT PANEL AND REAR PANEL 6

2.1 Front Panel 6

2.2 Rear Panel 7

2.3 Mouse Operation 8

3 NETWORK CONNECTION 9

4 OVERVIEW OF NAVIGATION AND CONTROLS 10

4.1 Login, Logout & Main Menu 10

4.1.1 Login 10

4.1.2 Main Menu 11

4.1.3 Logout 11

4.1.4 Auto Resume after Power Failure 12

4.1.5 Replace Button Battery 12

4.2 Live Viewing 12

4.3 Manual Record 14

4.3.1 Manual record menu 14

4.3.2 Basic operation 15

4.3.3 Enable/disable record 15

4.3.4 Enable all channel recording 16

4.3.5 Stop all channel recording 17

4.4 Search & Playback 17

4.4.1 Smart Search 21

4.4.2 Accurate playback by time 21

4.4.3 Mark Playback 22

4.4.4 Multiple-channel Preview 24

4.5 Schedule 24

4.5.1 Schedule Menu 24

4.5.2 Snapshot 27

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4.5.3 Image FTP 29

4.6 Detect 29
4.6.1 Go to Detect Menu 29
4.6.2 Motion Detect 29
4.6.3 Video Loss 33
4.6.4 Camera Masking 34

4.7 Backup 35
4.7.1 Detect Device 35
4.7.1 Backup 36

4.8 PTZ Control and Color Setup 37
4.8.1 Cable Connection 37
4.8.2 PTZ Setup 38
4.8.3 3D Intelligent Positioning Key 40

4.9 Preset/ Patrol/Pattern/Scan 40
4.9.1Preset Setup 41
4.9.2 Activate Preset 42
4.9.3 Patrol setup (Tour Setup) 42
4.9.4 Activate Patrol (tour) 42
4.9.5 Pattern Setup 42
4.9.6 Activate Pattern Function 42
4.9.7 Auto Scan Setup 43
4.9.8 Activate Auto Scan 43

4.10 Flip 43

5 UNDERSTANDING OF MENU OPERATIONS AND CONTROLS 44

5.1 Menu Tree 44

5.2 Main Menu 45

5.3 Setting 45
5.3.1 General 45
5.3.2 Encode 48
5.3.3 Schedule 50
5.3.4 Network 50
5.3.5 Detect 69
5.3.6 Display 69
5.3.7 Default 71

5.4 Search 72

5.5 Advanced 73
5.5.1 HDD Management 73

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5.5.2 Abnormality 78
5.5.3 Alarm Output 79
5.5.4 Manual Record 79
5.5.5 Account 79
5.5.6 Auto Maintenance 82
5.5.7 TV Adjust 83
5.5.8 Video Matrix 83
5.5.9 Card Overlay 84
5.5.10 Config Backup 86

5.6 Information 87
5.6.1 HDD Information 88
5.6.2 BPS 89
5.6.3 Log 89
5.6.4 Version 90
5.6.5 Online Users 91
5.6.6 Network Information 92

5.7 Shutdown 94

6 ABOUT AUXILIARY MENU 95

6.1 Go to Pan/Tilt/Zoom Menu 95
6.1.1 3D Intelligent Positioning Key 96

6.2 Preset /Patrol / Pattern /Border Function 96
6.2.1 Preset Setup 97
6.2.2 Activate Preset 98
6.2.3 Patrol Setup 98
6.2.4 Activate Patrol 98
6.2.5 Pattern Setup 98
6.2.6 Activate Pattern Function 99
6.2.7 Border Setup 99
6.2.8 Activate Border Function 100
6.2.9 Flip 100

7 WEB OPERATION 101

7.1 Network Connection 101

7.2 Login 101

7.3 LAN Mode 103

7.4 Real-time Monitor 106

7.5 PTZ 106

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7.6 Image/Relay-out 108
7.6.1 Image 108
7.6.2 Relay output 108
7.6.3 Multiple-channel preview 108

7.7 WAN Login 109

7.8 Setup 111
7.8.1 Channel 111
7.8.2 Network 117
7.8.3 Event 129
7.8.3.1 Video detect 129
7.8.4 Storage 138
7.8.5 System 143
7.8.6 Advanced 157
7.8.7 Information 159

7.9 Search 161

7.10 Alarm 164

7.11 Log out 165

7.12 Un-install Web Control 165

8 FAQ 166

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Welcome

Thank you for purchasing our network video recorder!

This user's manual is designed to be a reference tool for your system. Please open the accessory bag to check the items one by one in accordance with the list below. Contact your local retailer ASAP if something is missing or damaged in the bag.

Here you can find information about the **iApollo Mini DVR's** features and functions, as well as a detailed menu tree.

Before installation and operation please read the following safeguards and warnings carefully!

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Important Safeguards and Warnings

1 . Electrical safety

- All installation and operation within this manual should conform to your local electrical safety codes.
- We assume no liability or responsibility for any fires or electrical shocks caused by improper handling or installation.

2 . Transportation security

- Please avoid heavy stress, violent vibrations or water splashes during transportation, storage and installation. Please take heed, as this may cause permanent and irreversible damage to the unit.

3 . Installation

- Handle product with care and the correct way up.
- Do not apply power to the NVR before completing installation.
- Do not place objects on top of the NVR.

4 . Qualified engineers needed

- All the examination and repair work should be done by the qualified service engineers.
- We are not liable for any problems caused by unauthorized modifications or attempted repair.

5 . Environment

- The NVR should be installed in a cool, dry place away from direct sunlight, flammable and/or explosive substances, etc.
- This product should be transported, stored and used in the specified environments.

6. Accessories

- Be sure to use all the accessories recommended by manufacturer.
- Before installation, please open the product packaging and check all the components are included.
- Contact your local retailer ASAP if something is broken within the packaging.

7. Lithium battery

- Improper battery use may result in hazardous consequences such as the start of fires, an explosion, or personal injury!
- When you need to replace the battery, please make sure you replace I with the same battery model!

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Before your operation please read the following instructions carefully.

Installation environment

- ✧ Keep away from extreme hot places and sources；
- ✧ Avoid direct sunlight；
- ✧ Keep away from extreme humid places；
- ✧ Avoid violent vibration；
- ✧ Do not put other devices on the top of the NVR；
- ✧ Be installed in well ventilated place; do not block the vent.

Accessories

Check the following accessories after opening the box：

Please refer to the packing list in the box

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1 FEATURES AND SPECIFICATIONS

1.1 Overview

The iApollo Smart DVRs are an excellent digital monitor product designed for a home small business/premises use. It adopts embedded Linux OS to maintain reliable and stable operation. It utilises the best H.264 compression algorithm in the industry and G.711 audio compression technology gives high quality, low bit stream sound that captures every sound detail. Unique frame by frame play function is suitable for detail analysis. It has various functions such as record, playback and monitor, which can work all at the same time to can guarantee audio-video synchronisation. The DVRs in this range has advanced technology that comes with a strong network data transmission function.

All round accessibility to your Mini Smart DVR is achieved by using our professional surveillance software (PSS). Which can either be used in same local network or you can remotely connect, via an external network, and gain remote access control so that you can monitor at your own convenience.

1.2 Features

This series product has the following features:

- **Real-time monitor:** It has an analog output port, VGA port and HDMI port so you can use a monitor or displayer as part of the surveillance. System supports TV/VGA/HDMI video output all at the same time.

- **Storage function:** Uses a special data format to guarantee data security to avoid vicious data modification.

- **Compression format:** Supports multiple-channel audio and video recording. An independent hardware decodes the audio and video signal from each channel to maintain video and audio synchronisation.

- **Backup function:** Support backup operation via USB port (such as flash disk, portable HDD, burner). Client-end user can download the file to local HDD to backup via network.

- **Record playback function:**

  - Supports each channel real-time record independently, and at the same time it can support search, forward play, network monitor, record search, download, and more.

  - Support various playback modes: slow play, fast play, backward play and frame by frame play.

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- Support time title overlay so that you can view event accurate occurred time
- Support specified zone enlargement.

- **Network operation**

Supports network remote real-time monitor, remote record search and remote PTZ control.

- **Intelligent operation**

(Mouse operation function). In the menu, support copy and paste setup function

- **UPnP:** This establishes the mapping relationship between the LAN and the WAN via the UPnP protocol.

1.3 Specifications

	Parameter	4-ch	8-ch	16-ch
System	Main Processor	High-performance industrial embedded micro controller		
	OS	Embedded LINUX		
	System Resources	Multiplex operations: Multiple-channel record, multiple-channel playback and network operation simultaneously		
	Interface	User-friendly graphical user interface		
	Input Devices	Front panel, USB mouse, remote control		
	Input Method	Arabic number, English character, donation and extension Chinese (optional)		
	Shortcut Function	Copy/paste operation, USB mouse right-key shortcut menu, double click USB mouse to switch screen.		
Compression Standard	Video Compression	H.264		
	Audio Compression	G711A, G711U , PCM		
Video monitor	Video Input	4-CH composite video input: (NTSC/PAL) BNC ($1.0V_{P-P}$, 75Ω)	8-CH composite video input: (NTSC/PAL) BNC ($1.0V_{P-P}$, 75Ω)	16-CH composite video input: (NTSC/PAL) BNC ($1.0V_{P-P}$, 75Ω)
	Video Output	1-ch PAL/NTSC, BNC (1.0VP- P, 75Ω) composite video signal output. 1-ch VGA output. Support TV/VGA video output at the same time.		
	Video Standard	Support PAL/NTSC.		

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	Record Speed	Real-time Mode: PAL 1f/s to 25f/s per channel and NTSC 1f/s to 30f/s per channel		
	Video Partition	1/4 windows(Optional)	1/4/8/9 windows	1/4/8/9 /16 windows
	Monitor Touring	Support monitor tour functions such as alarm, motion detection, and schedule auto control.		
	Resolution (PAL/NTSC)	PAL/NTSC Real-time monitor： D1 704×576/704×480		
		Playback： All-channel: D1 704×576/704×480, HD1 352×576/352×480, 2CIF 704×288/704×240, CIF 352×288/ 352×240 , QCIF 176×144/176×120		
		Support dual streams: extra stream resolution CIF 352×288/ 352×240, QCIF 176×144/176×120.		
	Image Quality	6-level image quality (Adjustable)		
	Privacy mask	Support one privacy mask of user-defined size in full screen. Support max 4 zones.		
	Image Information	Channel information, time information and privacy mask zone.		
	TV Adjust	Adjust TV output zone suitable to anamorphic video.		
	Channel Lock	Cover secret channel with black screen though system is encoding normally. Screen-lock function to prevent unauthorized user seeing secret video.		
	Channel Information	Channel name, recording status, screen lock status, video loss status and motion detection status are shown on the bottom left of display screen.		
	Color Configuration	Hue, brightness, contrast, saturation and gain setup for each channel.		
Audio		N/A		
Hard disk	Hard Disk	1 built-in SATA port. Support 1 HDD.		
	Hard Disk Occupation	Video：56-900MByte/h		
Record and playback	Recording Mode	Manual recording, motion detection recording, schedule recording and alarm recording Priority: Manual recording> alarm recording>motion detection recording>schedule recording.		
	Storage Mode	Support channel record quota setup		
	Recording Length	1 to 120 minutes single record duration (Default setup is 60 minutes)		
	Playback Repeat Way	When hard disk is full, system can overwrite previous video file.		
	Record Search	Various search engines such as time, type and channel.		
	Playback Mode	Various fast play, slow play speeds, manual frame by frame playback and reverse play mode.		

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	Various File Switch Ways	Can switch to previous or next file or any file in current play list. Can switch to file on other channel of the same time. (If there is a file) Support file continuous play, when a file is end system auto plays the next file in the current channel
	Playback Way	Support mark playback
	Multi-channel Playback	There is 1/4/9/16-channel playback mode. (It may vary due to different series.)
	Window Zoom	Switch between self-adaptive screen/full screen when playback
	Partial Enlargement	When in one-window full-screen playback mode, you can select any zone to activate partial enlargement function.
Backup function	Backup Mode	HDD backup
		Support peripheral USB backup device. (Flash disk, portable disk and etc.)
		Support network download and save
Network Function	Network control	View monitor channel remotely.
		DVR configuration through client-end and web browser
		Upgrade via client or browser to realize remote maintenance.
		View alarm information such as motion detection and video loss via client.
		Support network PTZ lens control
		File download backup and playback
		Multiple devices share information via corresponding software such as professional surveillance software (PSS)
		Support network multiple-window preview function
Motion Detection and Alarm	Motion Detection	Zone setup: support 396((PAL 22×18, NTSC 22×15)) detection zones. Various sensitivity levels. Alarm can activate record or screen message prompt.
	Video Loss	Alarm can activate screen message prompt.
Interface	USB Interface	2 USB 2.0 ports.
	Network connection	1 RJ45 10M/100M/1000M self-adaptable Ethernet port
System Information	Hard Disk Information	Display HDD current status
	Data Stream Statistics	Data stream statistics for each channel (in wave mode)
	Log statistics	Backup to 1024 log files. Support various search engines such as time and type.
	Version	Display version information: channel amount, alarm input and output amount, system version and release date.
	On-line user	Display current on-line user
User Management	User Management	Multi-lever user management; various management modes Integrated management for local user, serial port user and network user. Configurable user power.

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		Support user /group and its corresponding rights modification. No limit to the user or group amount.	
	Password Authentication	Password modification Administrator can modify other user's password.	
		Account lock strategy Five times login failure in thirty minutes may result in account lock.	
Upgrade		Web browser, client-end and update tool.	
Login, Logout and Shutdown		Password login protection to guarantee safety	
		User-friendly interface when login. Provide the following options: Logout /shutdown/ restart.	
		Right authentication when shut down to make sure only those proper people can turn off DVR	
General Parameter	Power	DC 12V	
	Power Consumption	≤25W (With adapter, exclude HDD)	
	Working Temperature	0℃－＋55℃	
	Working Humidity	10%－90%	
	Air Pressure	86kpa－106kpa	
	Dimension	SMART 1U case. 205(W) x205 (D) x41mm(H)	SMART 1U case. 270(W) x205 (D) x41mm(H)
	Weight	1.0-1.5KG(Exclude HDD)	
	Installation Mode	Desktop installation	

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2 Front Panel and Rear Panel

This section provides information about front panel and rear panel. When you install this DVR for the first time, please refer to this part to start off with.

2.1 Front Panel

The front panel is shown as below. See Figure 2-1.

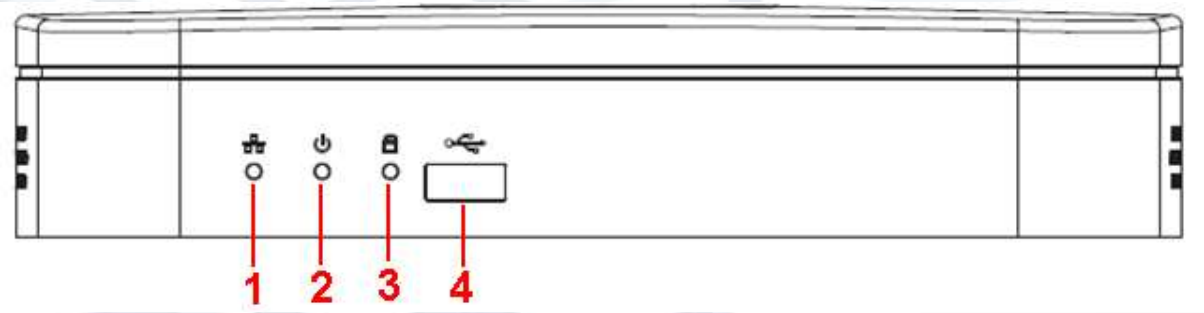


Figure 2-1

Please refer to the following sheet for detailed information:

SN	Name	Function
1	Network status indicator light	The red light turns on when the network connection is abnormal.
2	Power indicator light	The red light turns on when the power connection is OK.
3	HDD status indictor light	The red light turns on when HDD is abnormal.
4	USB	USB port

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2.2 Rear Panel

See Figure 2-2 for the rear panel view for the 4 Channel DVR, Figure 2-3 for the 8 Channel DVR, and Figure 2-4 for the 16 Channel DVR.

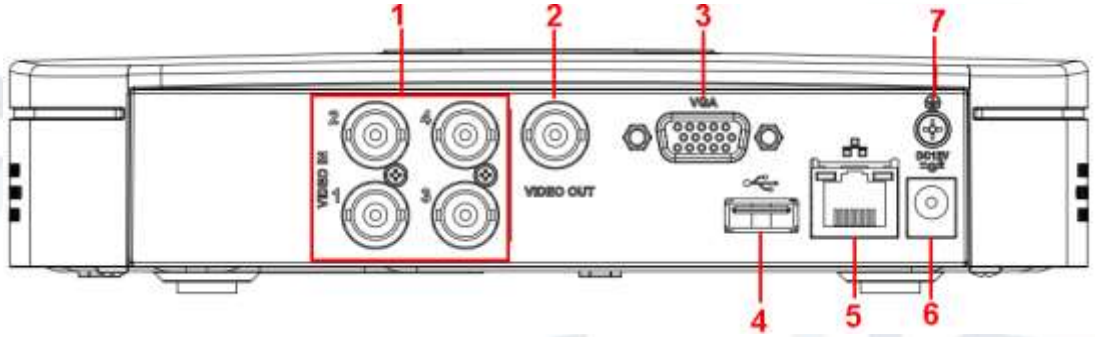


Figure 2-2

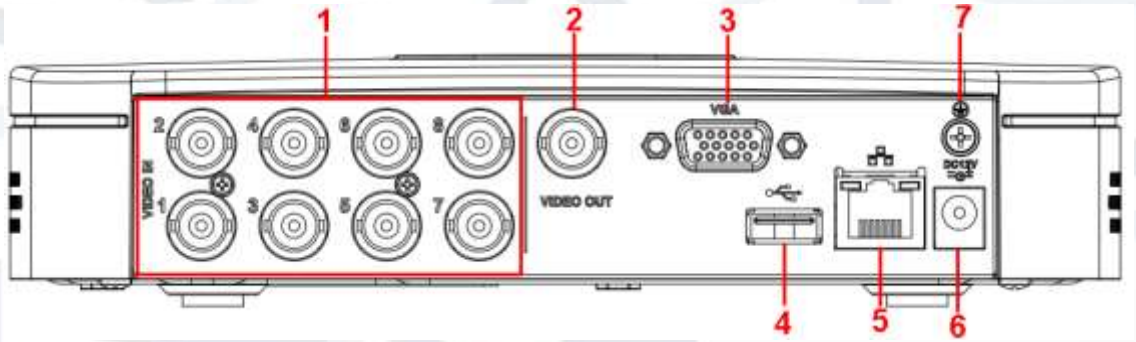


Figure 2-3

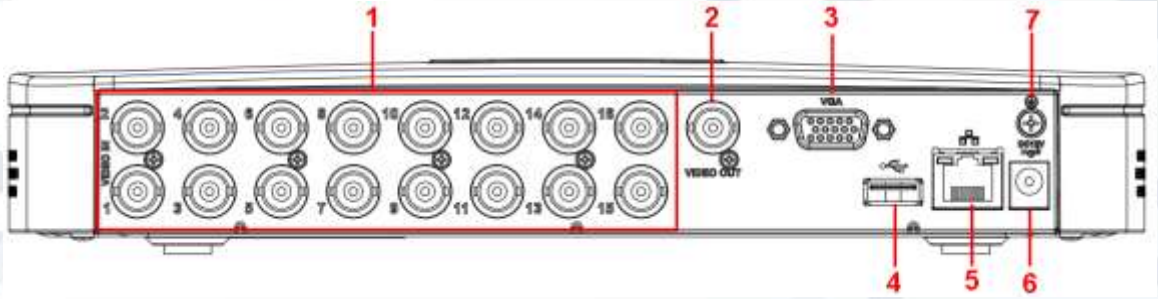


Figure 2-4

Please refer to the following sheet for detailed information:

SN	Name	SN	Name	SN	Name
1	Video input	2	Video output	3	VGA output
4	USB port	5	Network port	6	Power socket
7	GND port				

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2.3 Mouse Operation

Please refer to the following sheet for mouse operation instruction:

Left click mouse	When you have selected one menu item, left click mouse to view menu content.
	Modify checkbox or motion detection status.
	Click the 'Combo' box to pop up dropdown list
	In the input box, you can select input methods. Left click the corresponding button on the panel you can input numeral/English character (small/capitalised). Here the ← stands for backspace button. __ stands for space button. In English input mode: _ stands for input a backspace icon and ← stands for deleting the previous character.  In numeral input mode: _ stands for clear and ← stands for deleting the previous numeral.
Double left click mouse	Implement special control operation such as double click one item in the file list to playback the video.
	In multiple-window mode, double left click one channel to view in full-window. Double left click current video again to go back to previous multiple-window mode.
Right click mouse	In real-time monitor mode, this action pops up shortcut menu.
	Exit current menu without saving the modification.
Press middle button	In numeral input box: Increase or decrease numeral value.
	Switch the items in the check box.
	Page up or page down
Move mouse	Select current control or move control
Drag mouse	Select motion detection zone
	Select privacy mask zone.

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3 Network Connection

Please refer to Figure 3-1 below for connection example.

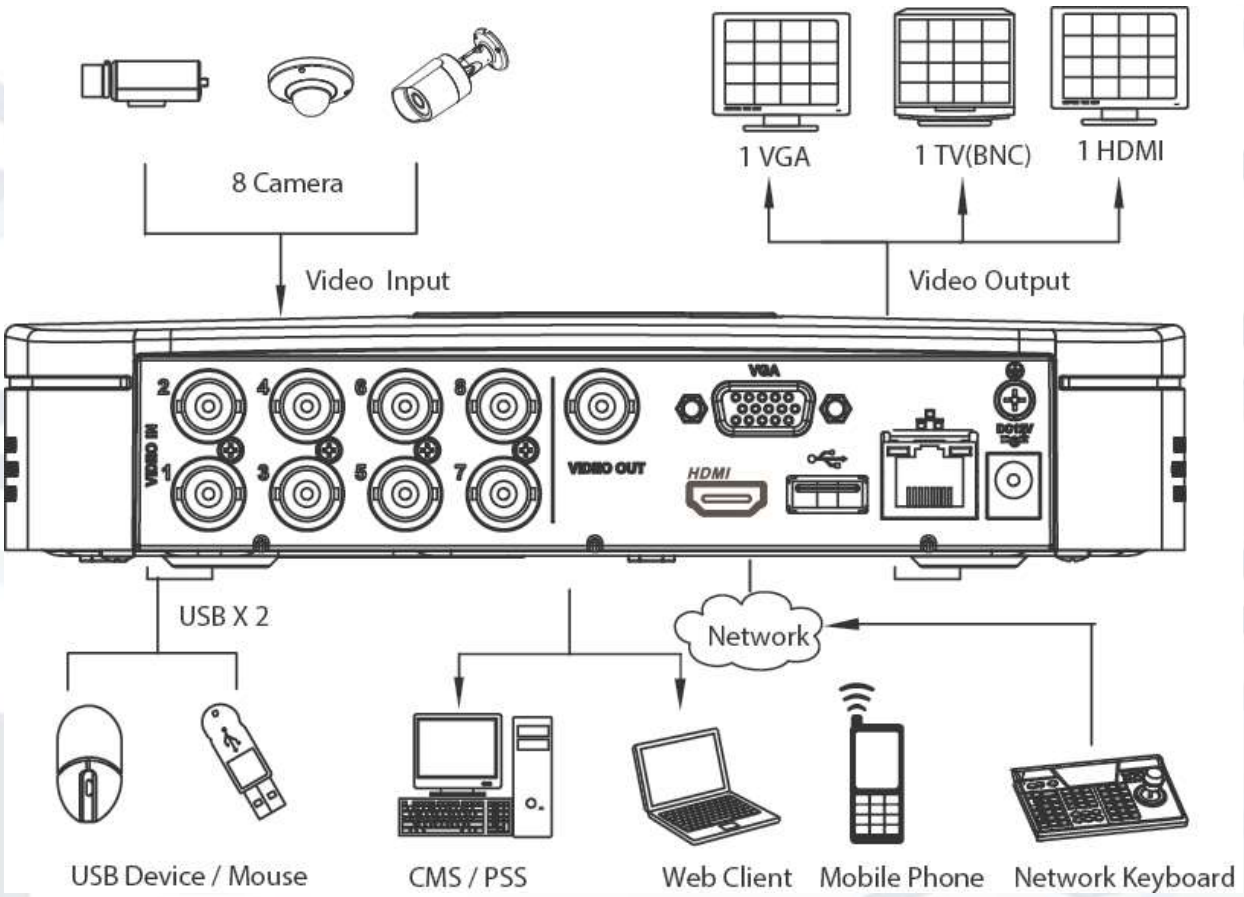


Figure 3-1

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4 Overview of Navigation and Controls

Before operation, please make sure:

- You have properly installed HDD and all the cable connections.
- The provided input power and the device power are matched.
- The external power should be DC 12V or AC90~264V 50+2% Hz.
- Always use the stable current, if necessary UPS is a best alternative measure.

4.1 Login, Logout & Main Menu

4.1.1 Login

After system has booted up, system pops up the startup wizard.

Click the Cancel button; you can go to the system login interface.

Click the Next Step button; you can go to the startup wizard interface. Here you can set the system basic information. See Figure 4-1.



Figure 4-1

The system login interface is shown as in Figure 4-2.

System consists of four accounts:

- **Username:** admin. **Password:** admin. (administrator, local and network)
- **Username:** 888888. **Password:** 888888. (administrator, local only)
- **Username:** 666666. **Password:** 666666(Lower authority user who can only monitor, playback, backup and etc.)
- **Username**: default. **Password**: default(hidden user)

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You can use USB mouse, front panel, or keyboard to input. About input method: Click 123 to switch between numeral, English character (small/capitalized) and denotation.

Note: For security reason, please modify password after you first login.

Continuous three times login failure will result in system alarm and five times login failure will result in account lock!



Figure 4-2

4.1.2 Main Menu

After you logged in, the system main menu is shown as below. See Figure 4-3.
There are total six icons: search, information, setting, backup, advanced and shutdown. You can move the cursor to highlight the icon, and then double click mouse to enter the sub-menu.



Figure 4-3

4.1.3 Logout

There are two ways for you to log out.

One is from menu option:

In the main menu, click shutdown button, you can see an interface is shown as below. See Figure 4-4.

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Figure 4-4

There are several options for you. See Figure 4-5.

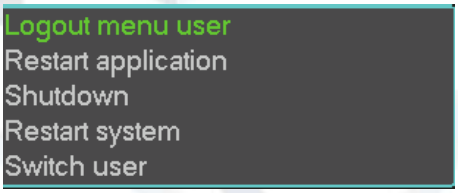


Figure 4-5

The other ways is to press power button on the front panel for at least 3 seconds, system will stop all operations. Then you can click the power button in the rear panel to turn off the DVR.

4.1.4 Auto Resume after Power Failure

The system can automatically backup video and resume previous working status after power failure.

4.1.5 Replace Button Battery

Please make sure to use the same battery model if possible.

We recommend replace battery regularly (such as one-year) to guarantee system time accuracy.

Note: Before replacement, please save the system setup, otherwise, you may lose the data completely!

4.2 Live Viewing

After you have logged in, the system is in live viewing mode. You can see system date, time and channel name. If you want to change system date and time, you can refer to general settings (Main Menu->Setting->General). If you want to modify the channel name, please refer to the display settings (Main Menu->Setting->Display).

1		Recording status	3		Video loss
2		Motion detection	4		Camera lock

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Tips

- Preview drag: If you want to change position of channel 1 and channel 16 when you are previewing, you can left click mouse in the channel 1 and then drag to channel 16, release mouse you can switch channel 1 and channel 16 positions.
- Use mouse middle button to control window split: You can use mouse middle button to switch window split amount.

Preview Control

The preview control function has the following features:

- Support preview playback.
  - ✧ In the preview desktop, system can playback previous 5-60 minutes record of current channel. Please go to the Main Menu->General to set real-time playback time.
  - ✧ Support drag and play function. You can use your mouse to select any playback start time.
  - ✧ Support playback, pause and exit function.
  - ✧ Right now, system does not support slow playback and backward playback function.
- Support digital zoom function.
- Support real-time backup function.

You can follow the contents listed below for the operation instruction:

Preview control interface

Move you mouse to the top centre of the video of current channel, you can see system pops up the preview control interface. See Figure 4-6. If your mouse stays in this area for more than 6 seconds and has no operation, the control bar automatically hides.



Figure 4-6

You can refer to the following sheet for detailed information:

SN	Name	Function
1	Realtime playback	• It is to playback the previous 5-60 minutes record of current channel. • Please go to the Main Menu->General to set real-time playback time. • System may pop up a dialogue box if there is no such record in current channel.

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2	Digital zoom	It is to zoom into specified zone of current channel. It supports zoom in function of multiple-channel. The selected area has an icon as  and the free area is shown as an icon as .
3	Real-time backup function	It is to backup the video of current channel to the USB device. System can not backup the video of multiple-channel at the same time. Current selected backup channel has an icon as  and the free channel is shown as an icon as . . Once the backup started, you can see the free channel is shown as an icon as .
4	Exit	

Playback control

The playback control has the following features:

- Support play, pause, and exit and drag function.
- During the preview playback process, you can not see the channel title and record status of current channel. It will display the channel title and the record status once you exit the preview playback.
- During the preview playback, you can not switch the displayed channel or change current window-display mode.
- Please note the tour function has the higher priority than the preview playback. You can not control the preview playback until the tour function ended.

4.3 Manual Record

Note: You need to have proper rights to implement the following operations. Please make sure the HDD has been properly installed.

4.3.1 Manual record menu

There are two ways for you to go to manual record menu:

- Right click mouse or in the main menu, Advanced->Manual Record.
- In live viewing mode, click record button in the front panel or record button in the remote control.

Manual record menu is shown as in Figure 4-7.

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4.3.2 Basic operation

There are two modes: main stream and extra stream. There are three statuses: schedule/manual/stop. Please highlight icon ’〇’ to select corresponding channel.

- Schedule: Channel records as you have set in recording setup (Main Menu->Setting->Schedule)
- Manual: The highest priority. After manual setup, all selected channels will begin ordinary recording.
- Stop: All channels stop recording.

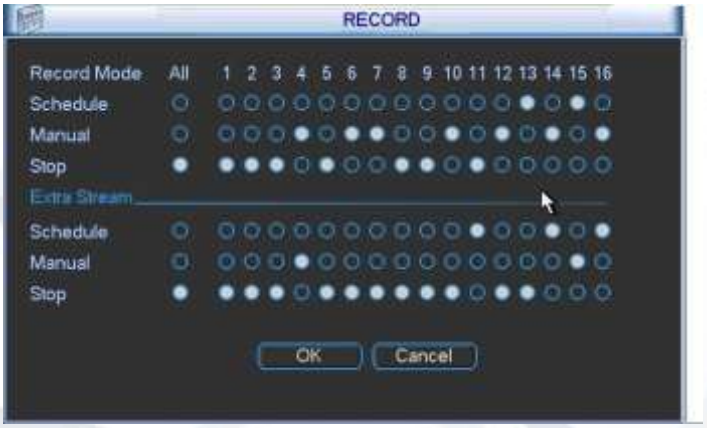


Figure 4-7

4.3.3 Enable/disable record

Please check current channel status: ‘○’ means it is not in recording status, ‘●’ means it is in recording status.

You can use mouse or direction key to highlight channel number. See Figure 4-8.

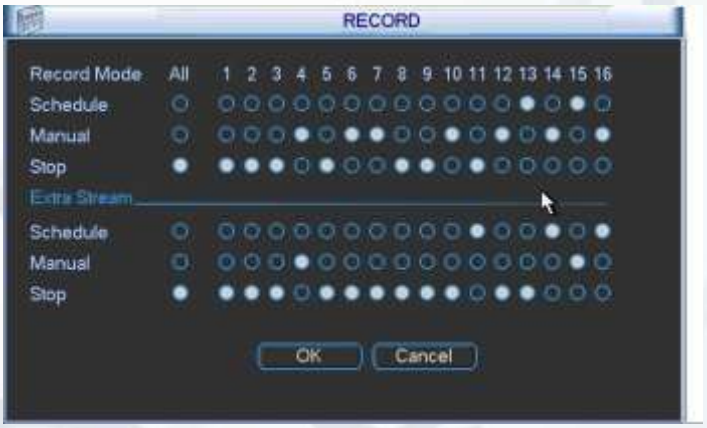


Figure 4-8

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4.3.4 Enable all channel recording

Highlight ○ below All, you can enable all channel recording.

- All channel schedule record

Please highlight ‘ALL’ after ‘Schedule’. See Figure 4-9.

When system is in schedule recording, all the channels will record as you have previously set (Main menu->Setting->Schedule). The corresponding indication light in front panel will turn on.

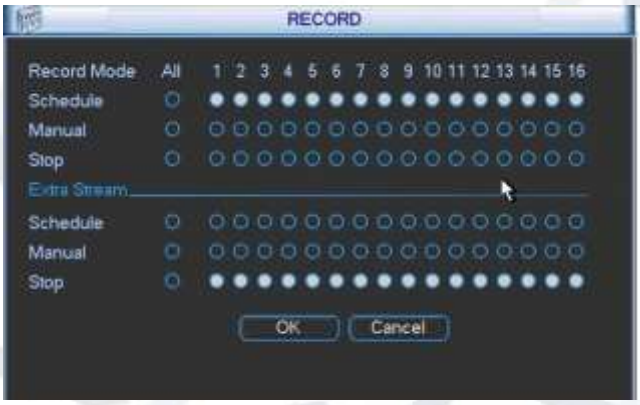


Figure 4-9

- All channel manual record

Please highlight ‘ALL’ after ‘Manual.’ See Figure 4-10.

When system is in manual recording, all scheduled set up you have set in will be null ((Main menu->Setting->Schedule)).

You can see indication light in front panel turns on, system begins manual record now.

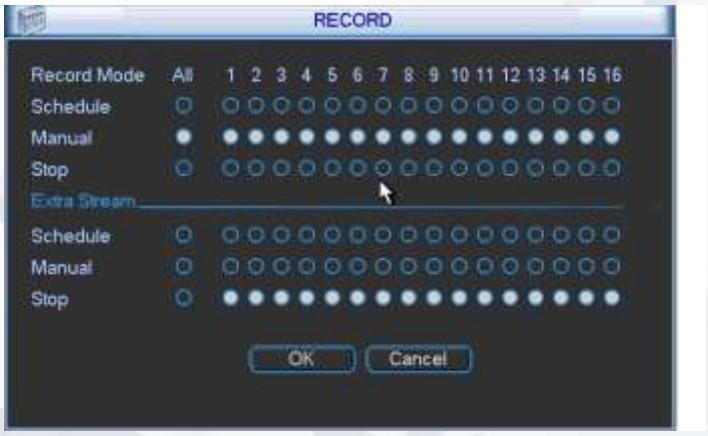


Figure 4-10

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4.3.5 Stop all channel recording

Please highlight “ALL” after “Stop”. See Figure 4-11.

System stops all channel recording no matter what mode you have set in the menu (Main menu->Setting->Schedule)

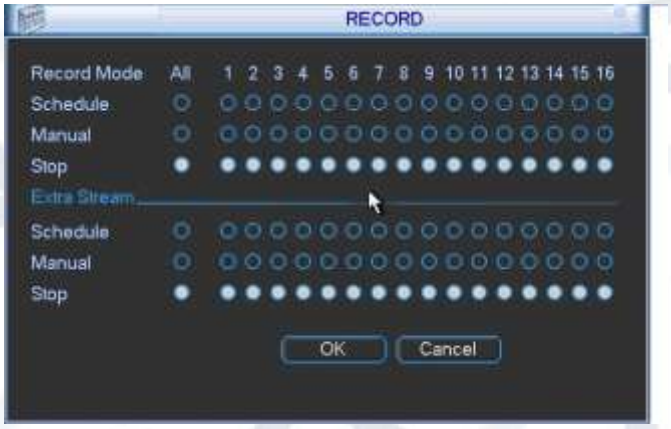


Figure 4-11

4.4 Search & Playback

Click search button in the main menu, search interface is shown as below. See Figure 4-12.

Usually there are three file types:

- R: Regular recording file.
- A: External alarm recording file.
- M: Motion detection recording file.

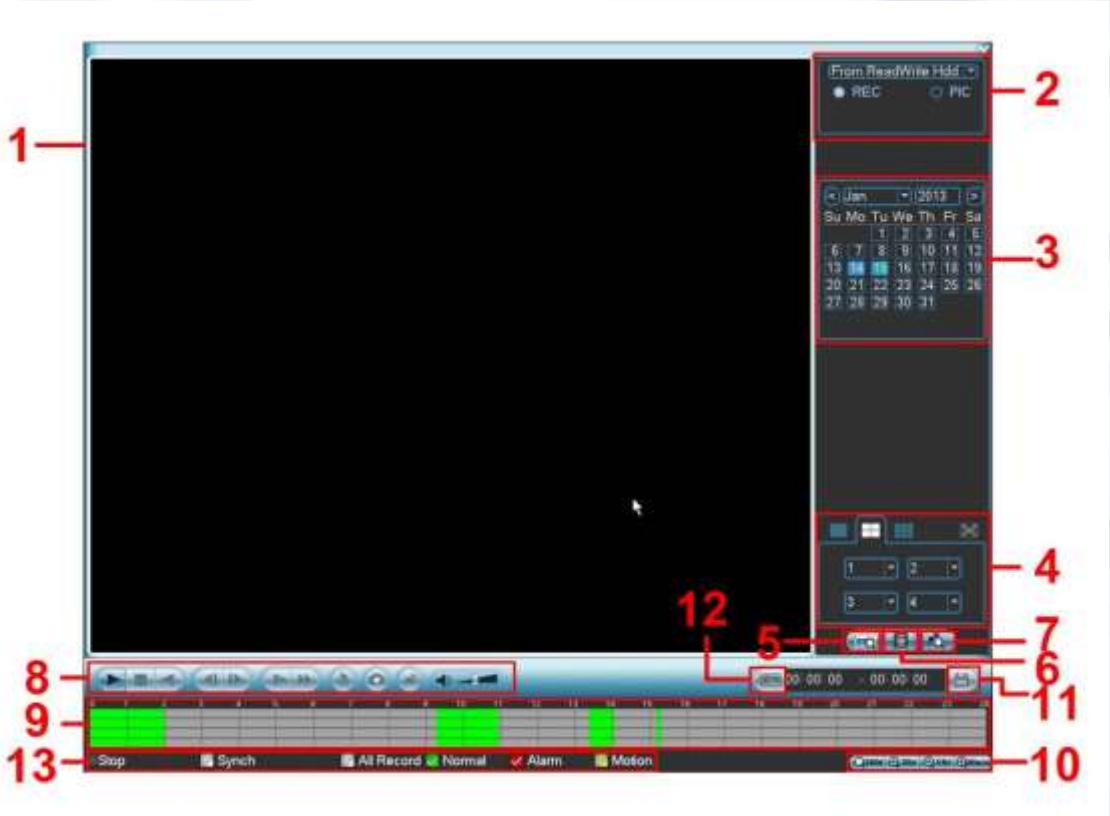


Figure 4-12

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Please refer to the following sheet for more information:

SN	Name	Function
1	Display window	●To display the searched picture or file. ●Support 1/4/9/16-window playback.
2	Search type	●Here you can select to search the picture or the recorded file. ●You can select to play from the read-write HDD, from peripheral device or from redundancy HDD. ●Before you select to play from the peripheral device, please connect the corresponding peripheral device. You can view all record files of the root directory of the peripheral device. Click the Browse button; you can select the file you want to play.
3	Calendar	●The blue highlighted date means there is picture or file. Otherwise, there is no picture or file. ●In any play mode, click the date you want to see, you can see the corresponding record file trace in the time bar.
4	Playback mode and channel selection pane.	●Playback mode：1/4/9/16. (It may vary due to different series.) ✧ In 1-window playback mode: you can select 1-16 channels. ✧ In 4-window playback mode: you can select 4 channels according to your requirement. ✧ In 9-window playback mode, you can switch between 1-8 and 9-16 channels. ✧ In 16-window playback mode, you can switch between1-16 and 17-32 channels. ●The time bar will change once you modify the playback mode or the channel option.
5	Card number search	The card number search interface is shown as below. Here you can view card number/field setup bar. You cam implement advanced search. 
6	File list switch button	●Double click it, you can view the picture/record file list of current day. ●The file list is to display the first channel of the record file. ●The system can display max 128 files in one time. Use the ◀| and |▶ or the mouse to view the file. Select one item, and then double click the mouse or click the ENTER button to playback. ●You can input the period in the following interface to begin accurate search. ●File type：R—regular record； A—external alarm record；M—Motion detect record.  ●Lock file. Click the file you want to lock and click the button  to lock. The file you locked will not be overwritten. ●Search locked file: Click the button  to view the locked file. ●Return: Click button , system goes back to the calendar and channel setup interface. Please note: ●System max locks 16 files. The size of the locked file shall be less than the 1/4 of the HDD total space. The first 16G of each partition can not be locked. ●System can only lock one file at one time and can not lock the extra stream. For the file that is writing or overwriting, it can not be locked.
7	Mark file list button	Click it to go to mark file list interface. You can view all mark information of current channel by time. Please refer to chapter 4.4.3 for detailed information. Please note only the product of this icon supports mark function.

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8	Playback control pane.	►/ II	Play/Pause There are three ways for you to begin playback. ● The play button ● Double click the valid period of the time bar. ● Double click the item in the file list. In slow play mode, click it to switch between play/pause.
		■	Stop
		◄	Backward play In normal play mode, left click the button, the file begins backward play. Click it again to pause current play. In backward play mode, click ►/ II to restore normal play.
		|◄/ ►|	In playback mode, click it to play the next or the previous section. You can click continuously when you are watching the files from the same channel. In normal play mode, when you pause current play, you can click ◄| and |► to begin frame by frame playback. In frame by frame playback mode, click ►/ II to restore normal playback.
		▶·	Slow play In playback mode, click it to realize various slow play modes such as slow play 1, slow play 2, and etc.
		▸▸	Fast forward In playback mode, click to realize various fast play modes such as fast play 1,fast play 2 and etc.
		Note: The actual play speed has relationship with the software version.	
			Smart search
			The volume of the playback
			Click the snapshot button in the full-screen mode, the system can snapshot 1 picture. System supports custom snap picture saved path. Please connect the peripheral device first, click snap button on the full-screen mode, you can select or create path. Click Start button, the snapshot picture can be saved to the specified path.
			Mark button. Please note this function is for some series product only. Please make sure there is a mark button in the playback control pane. You can refer to chapter 4.4.3 for detailed information.
9	Time bar	●This displays the record type and its period in current search criteria. ●In 4-window playback mode, there are corresponding four time bars. In other playback mode, there is only one time bar. ●Use the mouse to click one point of the color zone in the time bar, system begins playback. ●The time bar is beginning with 0 o'clock when you are setting the configuration. The time bar zooms in the period of the current playback time when you are playing the file. ●The green color stands for the regular record file. The red color stands for the external alarm record file. The yellow stands for the motion detect record file.	
10	Time bar unit	●The option includes: 24H, 12H, 1H and 30M. The smaller the unit, the larger the zoom rate. You can accurately set the time in the time bar to playback the record. ●The time bar is beginning with 0 o'clock when you are setting the configuration. The time bar zooms in the period of the current playback time when you are playing the file.	

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11	Backup	● Select the file(s) you want to backup from the file list. You can check from the list. Then click the backup button, now you can see the backup menu. System supports customized path setup. After select or create new folder, click the Start button to begin the backup operation. The record file(s) will be saved in the specified folder. ● Check the file again you can cancel current selection. System max supports to display 32 files from one channel. ● After you clip on record file, click Backup button you can save it. ● For one device, if there is a backup in process, you can not start a new backup operation.
12	Clip	●It is to edit the file. ●Please play the file you want to edit and then click this button when you want to edit. You can see the corresponding slide bars such as  or  in the time bar of the corresponding channel. You can adjust the slide bar or input the accurate time to set the file end time. ● After you set, you can click Clip button again to edit the second period. You can see the slide bar restore its previous position. ● Click Backup button after clip, you can save current contents in a new file. ● You can clip for one channel or multiple-channel. The multiple-channel click operation is similar with the one-channel operation. Please note: ● **System max supports 1024 files backup at the same time.** ● **You can not operate clip operation if there is any file has been checked in the file list.**
13	Record type	In any play mode, the time bar will change once you modify the search type.
Other Functions		
14	Smart search	● When system is playing, you can select a zone in the window to begin smart search. Click the motion detect button to begin play. ● Once the motion detect play has begun, click button again will terminate current motion detect file play. ● There is no motion detect zone by default. ● If you select to play other file in the file list, system switches to motion detect play of other file. ● During the motion detect play process, you can not implement operations such as change time bar, begin backward playback or frame by frame playback. ● Please refer to chapter 4.4.1 Smart Search for detailed operation.
15	Other channel synchronization switch to play when playback	When playing the file, click the number button, system can switch to the same period of the corresponding channel to play.
16	Digital zoom	When the system is in full-screen playback mode, left click the mouse in the screen. Drag your mouse in the screen to select a section and then left click mouse to realize digital zoom. You can right click mouse to exit.
17	Manually switch channel when playback	During the file playback process, you can switch to other channel via the dropdown list or rolling the mouse. This function is null if there is no record file or system is in smart search process.

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Note: All the operations here (such as playback speed, channel, time and progress) have relationship with hardware version. Some series DVRs do not support some functions or playback speeds.

4.4.1 Smart Search

During the multiple-channel playback mode, double click one channel and then click the button, system will begin smart search. System supports 396(22*18 PAL) and 330(22*15 NTSC) zones. Please left click mouse to select smart search zones. See Figure 4-13.

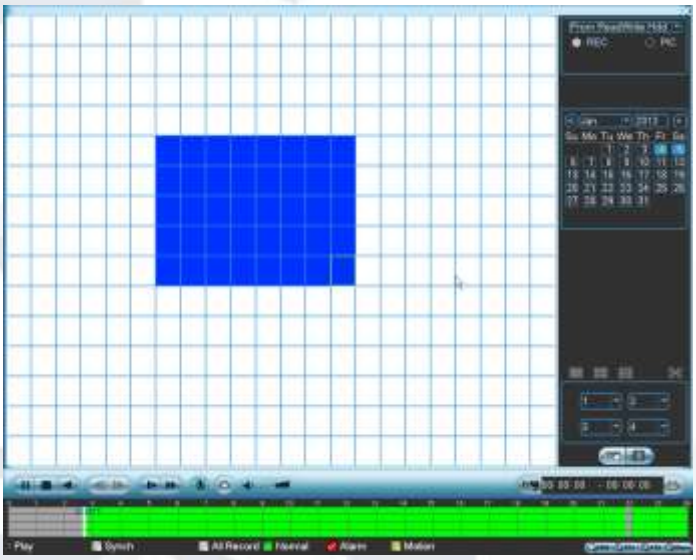


Figure 4-13

Click the , you can go to the smart search playback. Click it again, system stops smart search playback.

Important:

- **System does not support motion detect zone setup during the full-screen mode.**
- **During the multiple-channel playback, system stops playback of rest channels if you implement one-channel smart search.**

4.4.2 Accurate playback by time

Select records from one day, click the list, you can go to the file list interface. You can input time at the top right corner to search records by time. For example, click time 06:00.00 and then click Search button, you can view all the record files after 06:00.00 (The records includes current time.). Click Play button, you can see system begins play from 06:00.00. See Figure 4-14.

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Note:

- After you searched files, system implements accurate playback once you click Play for the first time.
- System does not support accurate playback for picture.
- System supports synchronised playback and non-synchronous playback. The synchronization playback supports all channels and non-synchronous playback only supports accurately playback of current select channel.

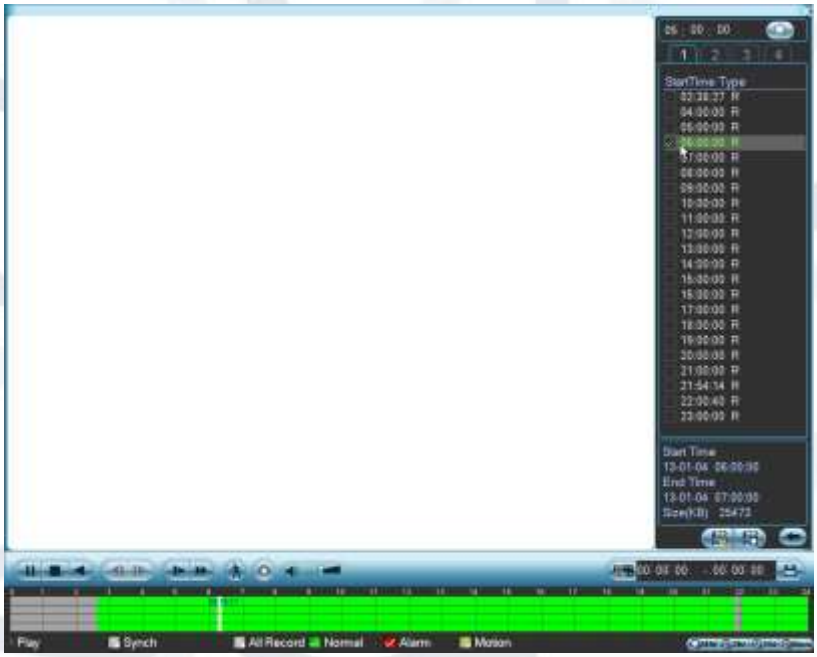


Figure 4-14

4.4.3 Mark Playback

Please make sure your purchased device support this function. You can use this function only if you can see the mark playback icon on the Search interface (Figure 4-12).

When you are playback record, you can mark the record when there is important information. After playback, you can use time or the mark key words to search corresponding record and then play. It is very easy for you to get the important video information.

- Add Mark

When system is playback, click Mark button , you can go to the following interface. See Figure 4-15.

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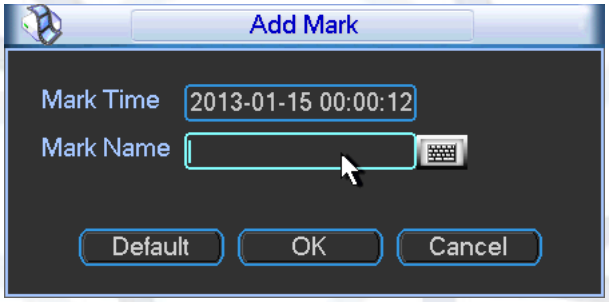


Figure 4-15

- Playback Mark

During 1-window playback mode, click mark file list button  in Figure 4-12, you can go to mark file list interface. Double click one mark file, you can begin playback from the mark time.

- Play before mark time

Here you can set to begin playback from previous seconds of the mark time.

Note: Usually, system can playback previous No. seconds record if there is such kind of record file. Otherwise, system playbacks from the previous X seconds when there is such as kind of record.

- Mark Manager

Click the mark manager button  on the Search interface (Figure 4-12); you can go to Mark Manager interface. See Figure 4-16. System can manage all the record mark information of current channel by default. You can view all mark information of current channel by time.

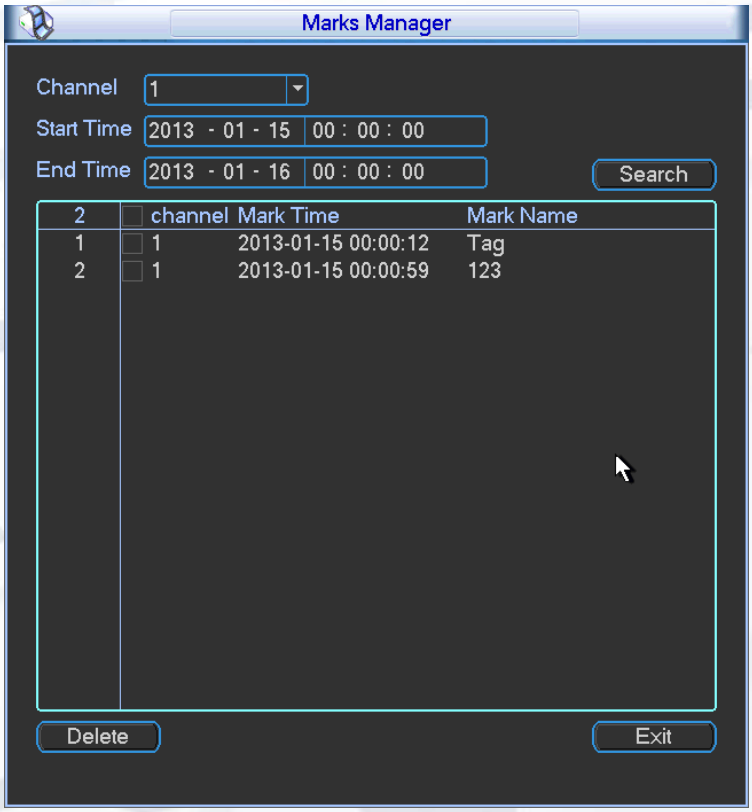


Figure 4-16

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- **Modify:** Double click one mark information item, you can see system pops up a dialogue box for you to change mark information. You can only change mark name here.
- **Delete:** Here you can check the mark information item you want to delete and then click Delete button, you can remove one mark item. .

Note:

- After you go to the mark management interface, system needs to pause current playback. System resume playback after you exit mark management interface.
- If the marked file you want to playback has been removed, system begins playback from the first file in the list.

4.4.4 Multiple-channel Preview

Right click mouse and then select multiple-channel preview; you can go to the following interface. See Figure 4-17. Here you can enable and set multiple-channel preview so that you can view several video at one channel.

- Enable: Check the box here to enable this function.
- Storage: This function is null right now.
- Frame rate: PAL：1-25fps.NTSC:30fps.
- Bit stream value: Default setup is 1024Kb/S.

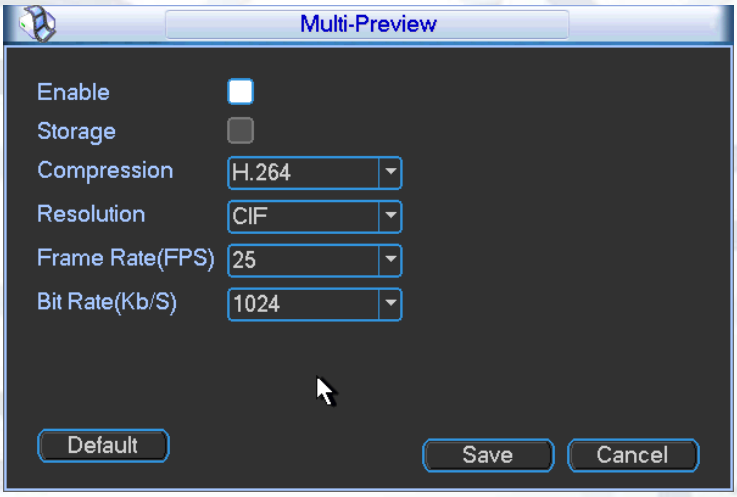


Figure 4-17

4.5 Schedule

After system booted up, it is in default 24-hour regular mode. You can set record type and time in schedule interface.

4.5.1 Schedule Menu

In the main menu, from setting to schedule, you can go to schedule menu. See Figure 4-18.

- **Channel:** Please select the channel number first. You can select “all” if you want to set for the whole channels.

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- **Week day:** There are eight options: ranges from Saturday to Sunday and all.
- **Pre-record:** System can pre-record the video before the event occurs into the file. The value ranges from 1 to 30 seconds depending on the bit stream.
- **Snapshot:** You can enable this function to snapshoot image when alarm occurs.
- **Record types**: There are four types: regular, motion detection (MD), Alarm, MD & alarm.
- **Holiday setting:** Click it you can see an interface shown as in Figure 4-19. Here you can set holiday date. Check the box, it means current channel shall record as your holiday setup. Please go to the Period interface to set the holiday date record setup. Please note you need to go to Chapter 5.3.1 to enable Holiday function first.

Please highlight icon to select the corresponding function. After completing all the setups please click save button, system goes back to the previous menu.

At the bottom of the menu, there are color bars for your reference. Green color stands for regular recording, yellow color stands for motion detection and red color stands for alarm recording. The white means the MD and alarm record is valid. Once you have set to record when the MD and alarm occurs, system will not record neither motion detect occurs nor the alarm occurs.



Figure 4-18

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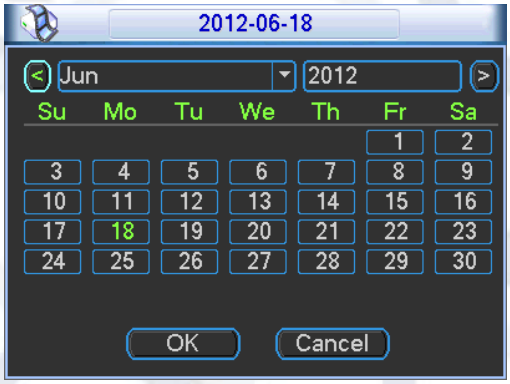


Figure 4-19

4.5.1.1 Quick Setup

Copy function allows you to copy one channel setup to another. After setting in channel 1, click Copy button, you can go to interface Figure 4-20. You can see the current channel name is grey such as channel 1. Now you can select the channel you want to paste such as channel 5/6/7. If you want to save current setup of channel 1 to all channels, you can click the first box “ALL”. Click the OK button to save current copy setup. Click the OK button in the Record interface so the copy function works.

Please note, if you select ALL in Figure 4-20, the record setup of all channels are the same and the Copy button becomes hidden.

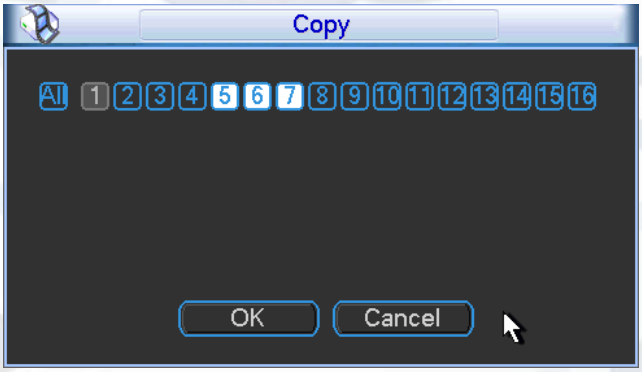


Figure 4-20

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4.5.2 Snapshot

4.5.2.1 Schedule Snapshot

In Encode interface, click snapshot button to input snapshot mode, size, quality and frequency. See the interface on the left of Figure 4-21.

In FTP (Main Menu->Network->Network Setting) interface, please input upload interval. See the interface in the middle of Figure 4-21.

In Schedule interface, please enable snapshot function. See interface on the right of Figure 4-21.

Please refer to the following figure for detailed information. See Figure 4-21:

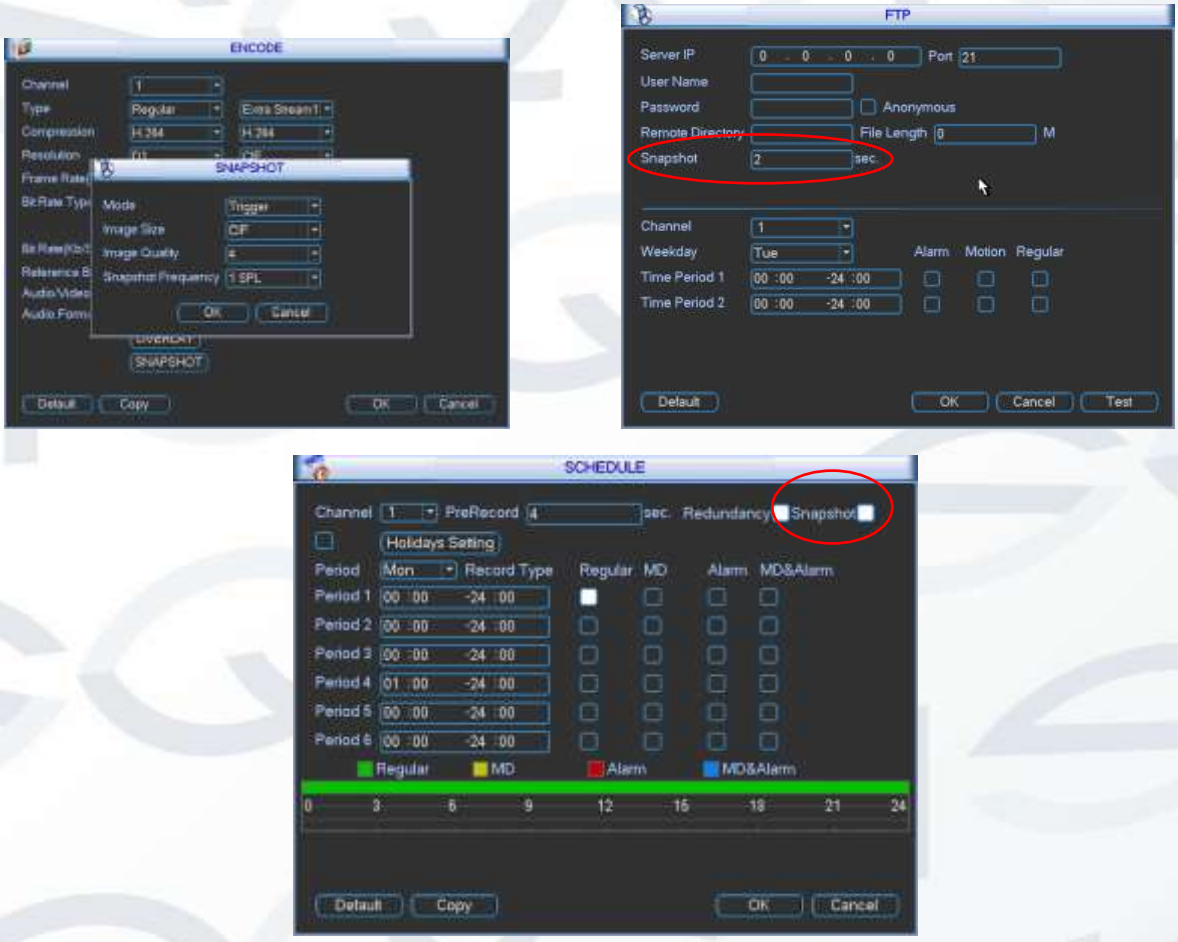


Figure 4-21

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4.5.2.2 Activation Snapshot

Please follow the steps listed below to enable the activation snapshot function. After you enabled this function, system can snapshot when the corresponding alarm occurred.

- In Encode interface, click snapshot button to input snapshot mode, size, quality and frequency. See the interface on the left of Figure 4-22.
- In FTP interface please input upload interval. See the interface in the middle of Figure 4-21.
- In Detect interface please enable snapshot function for specified channels (interface in the middle of Figure 4-22). Or in alarm interface (interface on the right of Figure 4-22) please enable snapshot function for specified channels.

Please refer to the following figure for detailed information. See Figure 4-22:

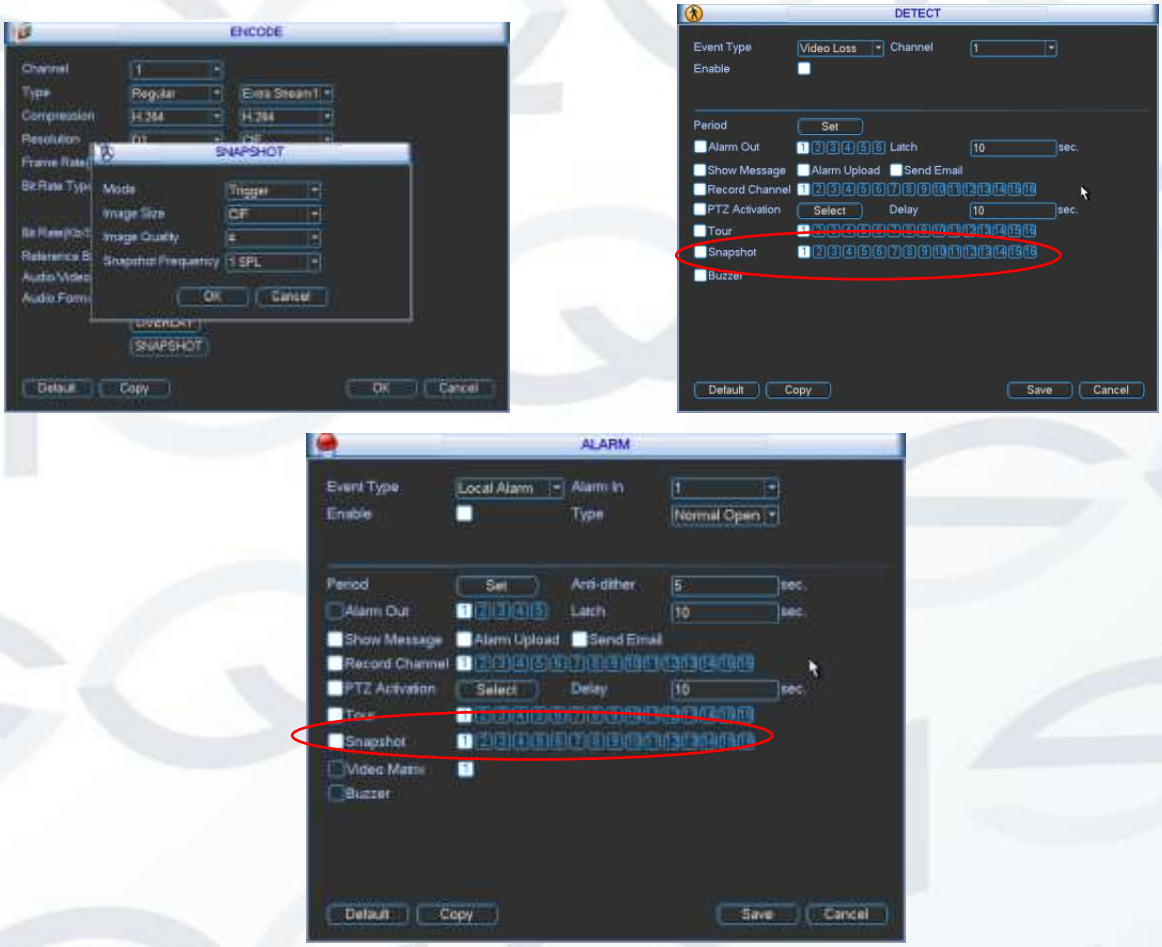


Figure 4-22

4.5.2.3 Priority

Please note the activation snapshot has the higher priority than schedule snapshot. If you have enabled these two types at the same time, system can activate the activation snapshot when alarm occurs, and otherwise system just operates the schedule snapshot.

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4.5.3 Image FTP

In Network interface, you can set FTP server information. Please enable FTP function and then click save button. See Figure 4-23.

Please boot up corresponding FTP server.

Please enable schedule snapshot (Chapter 0) or activation snapshot (Chapter 4.5.2.2) first, now system can upload the image file to the FTP server.

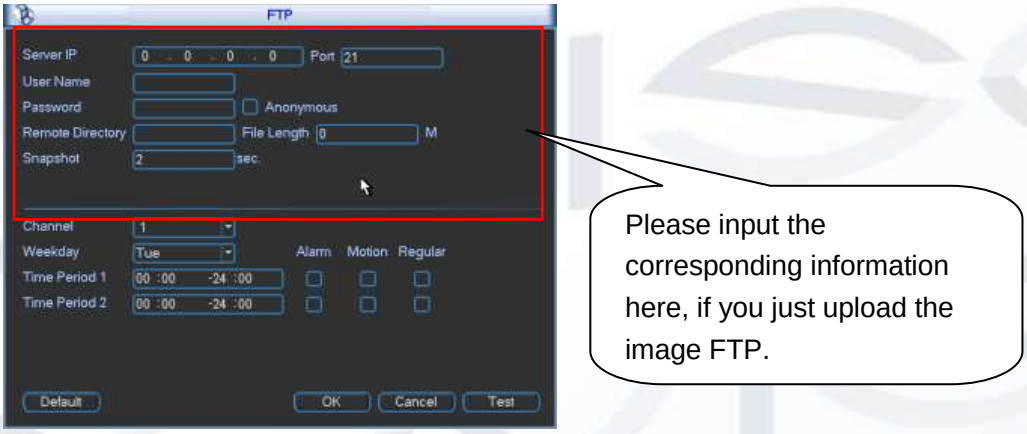


Figure 4-23

4.6 Detect

4.6.1 Go to Detect Menu

In the main menu, from Setting to Detect, you can see motion detect interface. See Figure 4-24.There is three detection types: motion detection, video loss, camera masking.

- The video loss has no detection region and sensitivity setup and camera masking has no detection region setup.
- You can see motion detect icon if current channel has enabled motion detect alarm.
- You can drag you mouse to set motion detect region without Fn button. Please click OK button to save current region setup. Right click mouse to exit current interface.

4.6.2 Motion Detect

Detection menu is shown as below. See Figure 4-24

- **Event type:** From the dropdown list you can select motion detection type.
- **Channel:** Select a channel from the dropdown list to set motion detect function.
- **Enable:** Check the box here to enable motion detect function.

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- **Region:** Click select button, the interface is shown as in Figure 4-25. Here you can set motion detection zone. There are 396(PAL)/330(NTSC) small zones. Blue zone is the motion detection zone. White zone is the disarmed zone. System can only detect motion detect signal from the arm region. You can click Fn button to switch between the arm mode and disarm mode. In arm mode, you can click the direction buttons to move the green rectangle to set the motion detection zone. After you completed the setup, please click ENTER button to exit current setup. Do remember click save button to save current setup. If you click ESC button to exit the region setup interface system will not save your zone setup.
- **Sensitivity:** System supports 6 levels. The sixth level has the highest sensitivity.
- **Period:** Click set button, you can see an interface is shown as in Figure 4-27.Here you can set motion detect period. System only enables motion detect operation in the specified periods. It is not for video loss or the camera masking. Please select Sunday to Saturday from the dropdown list. You can see there are six periods for you to set. Please note you need to check the box before the period to enable the period setup valid. In Figure 4-27, select work day or non-work day from the drop down list, and then click the Set button, you can set your own business day and non-business day setup. See Figure 4-28. You can set Monday to Friday as the working day and Saturday and Sunday as non-business day. Click Save button to go back to previous interface.
- **Anti-dither:** System only memorizes one event during the anti-dither period. The value ranges from 5s to 600s.
- **Alarm output:** when an alarm occurs, system enables peripheral alarm devices.
- **Latch:** when motion detection complete, system auto delays detecting for a specified time. The value ranges from 1-300(Unit: second)
- **Show message:** System can pop up a message to alarm you in the local host screen if you enabled this function.
- **Alarm upload:** System can upload the alarm signal to the network (including alarm centre) if you enabled current function.
- Send email: System can send out email to alert you when alarm occurs.
- **Record channel:** System auto activates motion detection channel(s) to record once an alarm occurs. Please make sure you have set MD record in Schedule interface(Main Menu->Setting->Schedule) and schedule record in manual record interface(Main Menu->Advanced->Manual Record)
- **PTZ activation:** Here you can set PTZ movement when an alarm occurs. Such as go to preset, tour &pattern when there is an alarm. Click “select” button, you can see an interface is shown as in Figure 4-26.
- **Record Delay:** System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
- **Tour:** Here you can enable tour function when alarm occurs. System one-window tour. Please go to chapter 5.3.6 Display for tour interval setup.
- **Snapshot:** You can enable this function to snapshoot image when an motion detect alarm occurs.
- **Buzzer:** Highlight the icon to enable this function. The buzzer beeps when alarm occurs.
- **Test:** Click it to test current motion detect setup (do not need to save). Click Select button after Region, you can set motion detect area. The default setup is whole region. The blue zones are the selected area. Please set sensitivity and click Test button, you can see system

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only display motion detect status of the blue area. The red flashing area is current motion detect. See Figure 4-30.

Please highlight icon to select the corresponding function. After all the setups please click Save button, system goes back to the previous menu.

Note: In motion detection mode, you can not use copy/paste to set channel setup since the video in each channel may not be the same.

In Figure 4-25, you can left click mouse and then drag it to set a region for motion detection. Click Fn to switch between arm/withdraw motion detection. After setting, click enter button to exit.

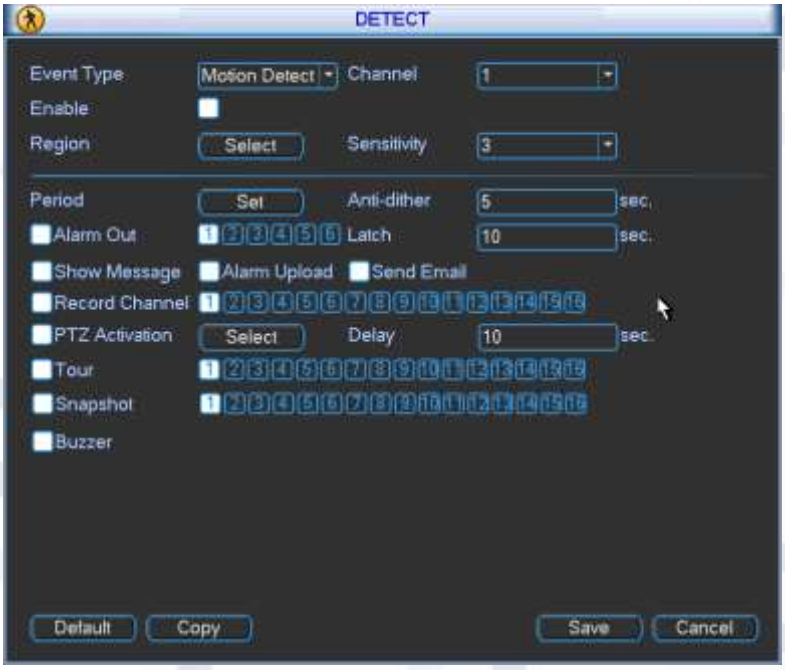


Figure 4-24

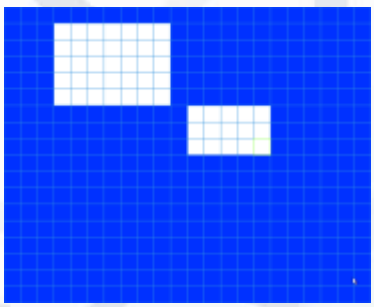


Figure 4-25

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Figure 4-26

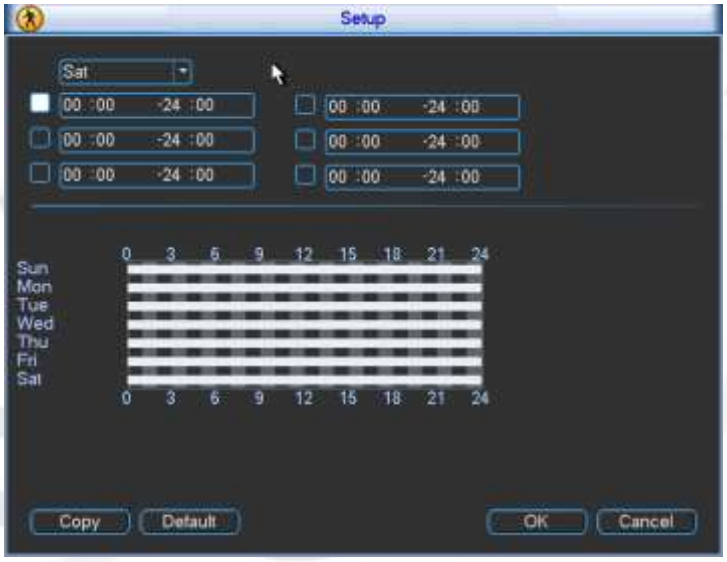


Figure 4-27

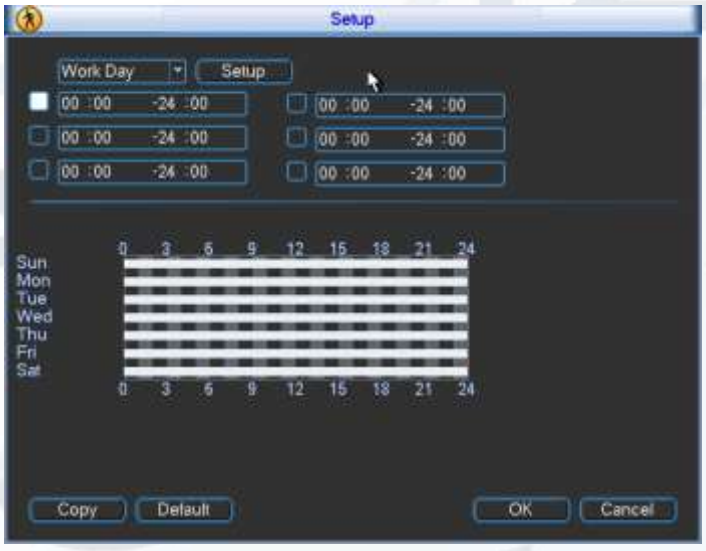


Figure 4-28

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Figure 4-29

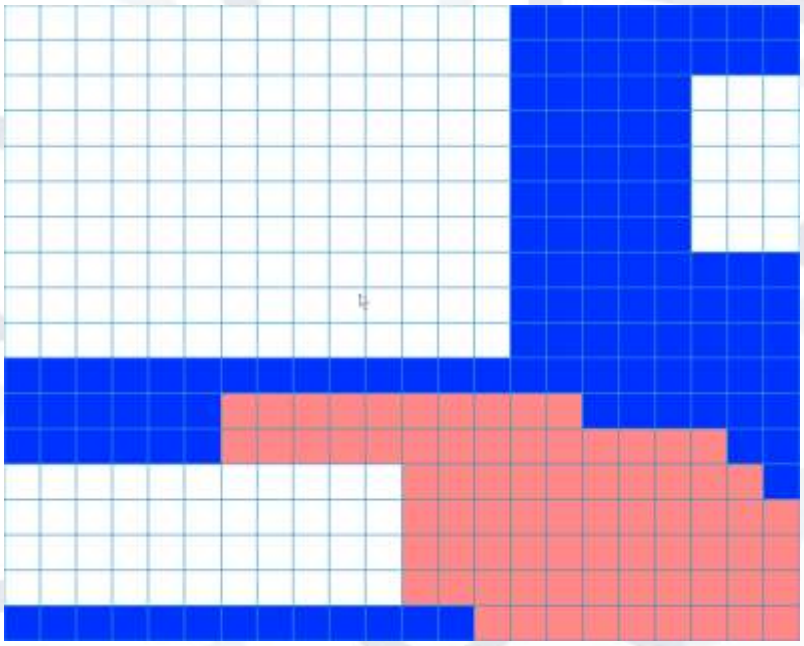


Figure 4-30

4.6.3 Video Loss

In Figure 4-24, select video loss from the type list. You can see the interface is shown as in Figure 4-31.This function allows you to be informed of when a video loss phenomenon occurred. You can enable alarm output channel and then enable show message function.

Tips:

- You can enable preset/tour/pattern activation operation when video loss occurs.
- System only enables video loss function during the period you set here. It is null for motion detect or camera masking type.

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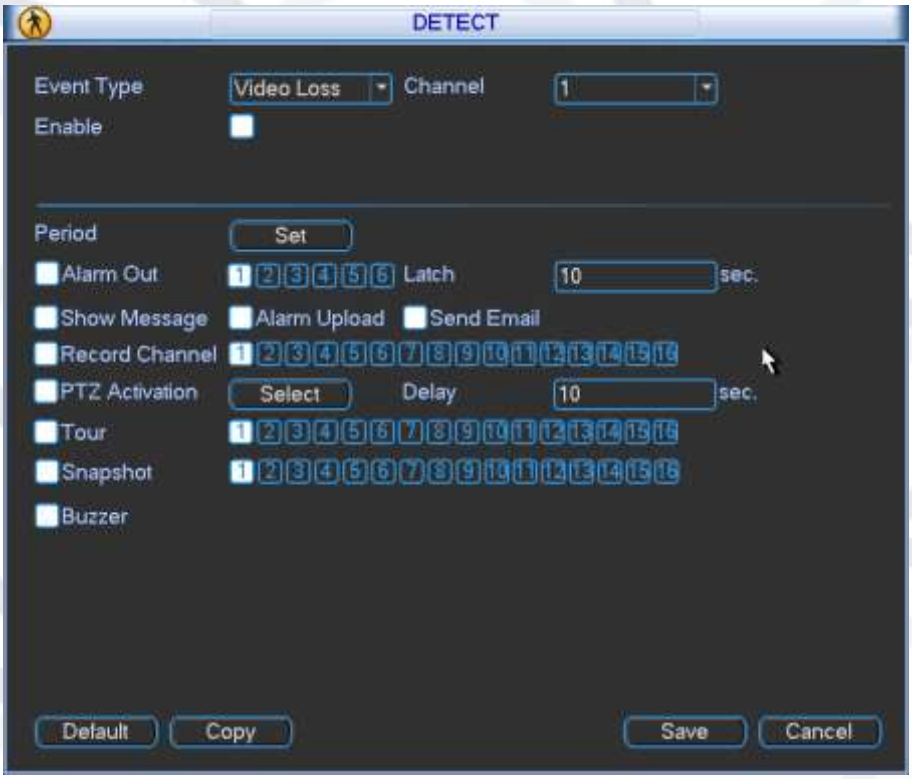


Figure 4-31

4.6.4 Camera Masking

When someone viciously masks the lens, or the output video is in one-color due to the environments light change, the system can alert you to guarantee video continuity. Camera masking interface is shown as in Figure 4-32. You can enable “Alarm output “or “Show message” function when camera masking alarm occurs.

- Sensitivity: The value ranges from 1 to 6. It mainly concerns the brightness. The level 6 has the higher sensitivity than level 1. The default setup is 3.

Tips: You can enable preset/tour/pattern activation operation when video loss occurs. Please refer to chapter 4.6.2 motion detection for detailed information.

Note:

- In Detect interface, copy/paste function is only valid for the same type, which means you can not copy a channel setup in video loss mode to camera masking mode.
- About Default function. Since detection channel and detection type may not be the same, system can only restore default setup of current detect type. For example, if you click Default button at the camera masking interface, you can only restore default camera masking setup. It is null for other detect types.
- System only enables camera masking function during the period you set here. It is null for motion detect or video loss type.

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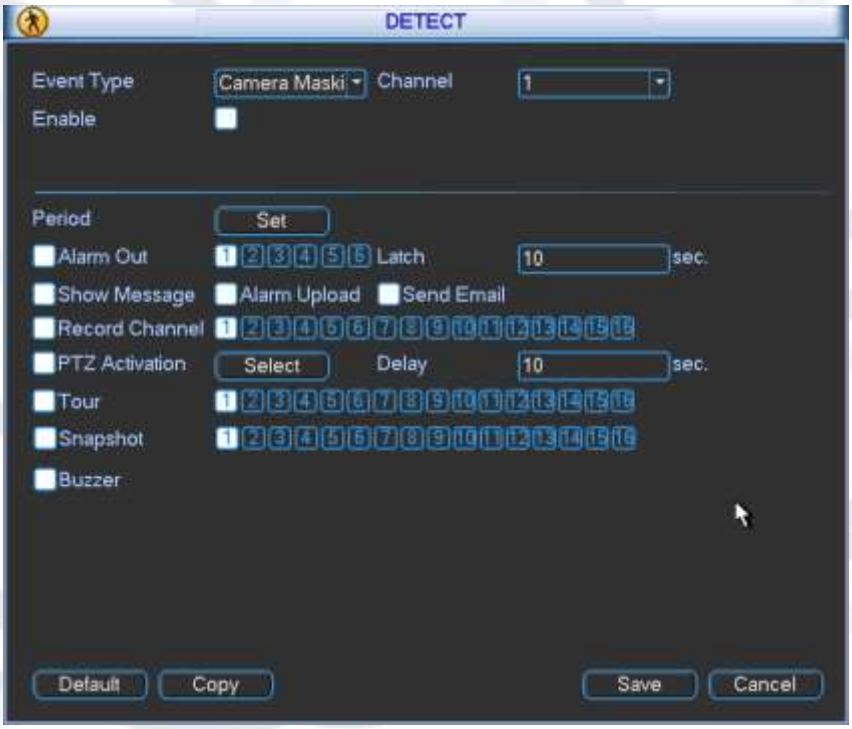


Figure 4-32

4.7 Backup

DVR support USB device backup and network download. Here we introduce USB backup. You can refer to Chapter 7 Web Client Operation for network download backup operation.

4.7.1 Detect Device

Click backup button, you can see an interface is shown as in Figure 4-33. Here is for you to view devices information.

You can view backup device name and its total space and free space. The device includes USB burner, flash disk, SD card, and portable HDD.

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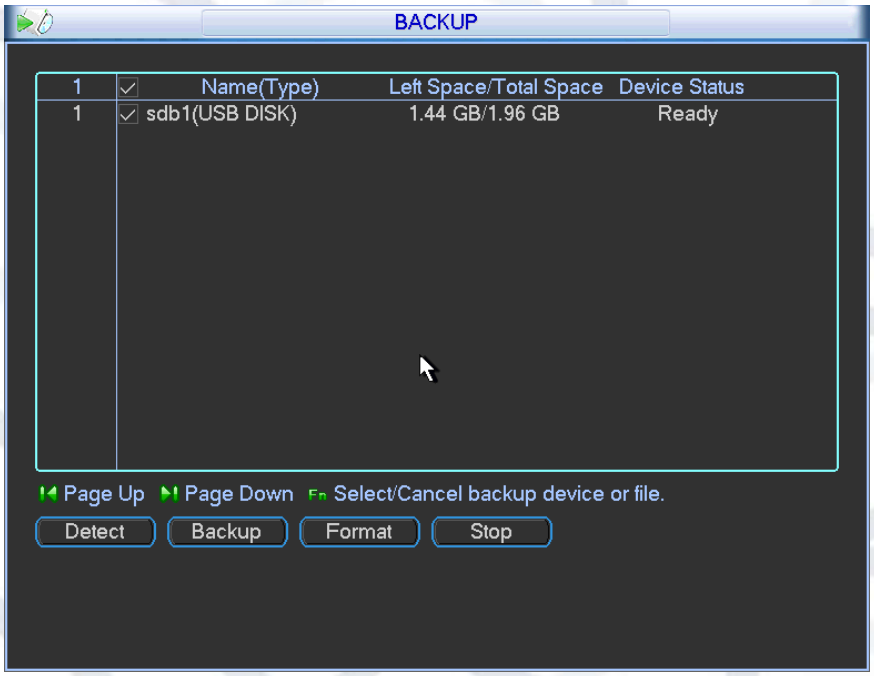


Figure 4-33

4.7.1 Backup

Select backup device and then set channel, file start time and end time.

Click add button, system begins search. All matched files are listed below. System automatically calculates the capacity needed and remained. See Figure 4-34. System only backup files with a √ before channel name. You can use Fn or cancel button to delete √ after file serial number.

Click backup button, you can backup selected files. There is a process bar for you reference. When the system completes backup, you can see a dialogue box prompting successful backup.

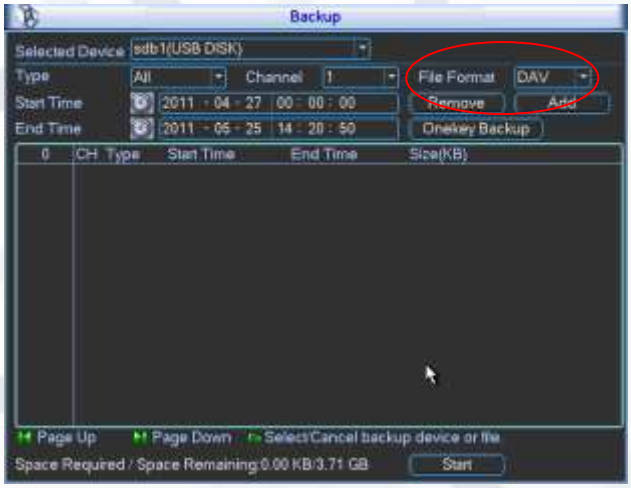


Figure 4-34

Click backup button, system begins burning. At the same time, the backup button becomes stop button. You can view the remaining time and process bar at the left bottom.

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- **File format:** Click the file format; you can see there are two options: DAV/ASF.
- **Picture backup:** Please set the corresponding time, channel and then select the type as PIC from the dropdown list. See Figure 4-35. Please click the Add button and then select the pictures. Click the Start button; you can copy the specified pictures to the selected portable devices.

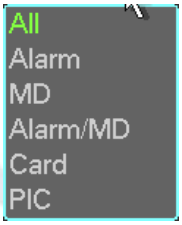


Figure 4-35

- **One key backup:** It includes three steps: the search, select all, start the backup. You can skip the above three steps and then copy all the searched files directly.

The file name format usually is: Channel number+Record type+Time. In the file name, the YDM format is Y+M+D+H+M+S. File extension name is .dav.

Tips: During backup process, you can click ESC to exit current interface for other operation. The system will not terminate backup process.

Note: When you click stop button during the burning process, the stop function becomes activated immediately. For example, if there are ten files, when you click stop system just backup five files, system only save the previous 5 files in the device (But you can view ten file names).

4.8 PTZ Control and Color Setup

Note: All the operations here are based on PELCO-D protocol. For other protocols, there might be a little difference.

4.8.1 Cable Connection

Please follow the procedures below to go on cable connection

- Connect the dome RS485 port to DVR 485 port.
- Connect dome video output cable to DVR video input port.
- Connect power adapter to the dome.

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4.8.2 PTZ Setup

Note: The camera video should be in the current screen. Before setup, please check the following connections are right:

- PTZ and decoder connection is right. Decoder address setup is right.
- Decoder A (B) line connects with DVR A (B) line.

Boot up the DVR, input user name and password.

In the main menu, click setting, and then click Pan/Tilt Control button. The interface is shown as in Figure 4-36. Here you can set the following items:

- Channel: select the current camera channel.
- Protocol: select corresponding PTZ protocol(such as PELCO-D)
- Address: default address is 1.
- Baud rate: select corresponding baud rate. Default value is 9600.
- Data bits: select corresponding data bits. Default value is 8.
- Stop bits: select corresponding stop bits. Default value is 1.
- Parity: there are three options: odd/even/none. Default setup is none.



Figure 4-36

After completing all the setting please click save button. Right click mouse (click “Fn” Button in the front panel or click “Fn” key in the remote control). The interface is shown as in Figure 4-37.

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Figure 4-37

Click Pan/Tilt/Zoom, the interface is shown as below. See Figure 4-38.

Here you can set the following items:

- Step: value ranges fro 1 to 8.
- Zoom
- Focus
- Iris

Please click icon and to adjust zoom, focus and iris.



Figure 4-38

In Figure 4-38, please click direction arrows (See Figure 4-39) to adjust PTZ position. There are total 8 direction arrows.



Figure 4-39

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4.8.3 3D Intelligent Positioning Key

In the middle of the eight direction arrows, there is a 3D intelligent positioning key. SeeFigure 4-40. Please make sure your protocol supports this function and you need to use mouse to control.

Click this key, system goes back to the single screen mode. Drag the mouse in the screen to adjust section size. The dragged zone supports 4X to 16X speeds. It can recognise PTZ automatically. The smaller zone you dragged, the higher the speed.



Figure 4-40

Here is a sheet for you reference:

Name	Function key	function	Shortcut key	Function key	function	Shortcut Key
Zoom		Near			Far	
Focus		Near			Far	
Iris		close			Open	

4.9 Preset/ Patrol/Pattern/Scan

In Figure 4-38, please click the “set” button. The interface is shown as below. See Figure 4-41. Here you can set the following items:

- Preset
- Tour
- Pattern
- Border



Figure 4-41

In Figure 4-38, click page switch button, the interface is shown as in Figure 4-42.

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Here you can activate the following functions:

- Preset
- Tour
- Pattern
- Auto scan
- Auto pan
- Flip
- Reset
- Page switch

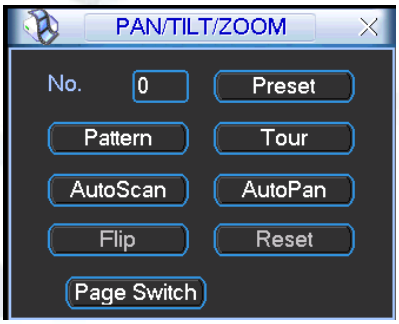


Figure 4-42

Note:

- Preset, tour and pattern all need the value to be the control parameter. You can define it as you require.
- You need to refer to your speed dome user's manual for Aux definition. In some cases, it can be used for special process.
- The following setups are usually operated in the Figure 4-38, Figure 4-41 and Figure 4-42.

4.9.1Preset Setup

In Figure 4-38, use the eight direction arrows to adjust camera to the proper position.

In Figure 4-41, click preset button and input preset number. The interface is shown as in Figure 4-43.

Now you can add this preset to one tour.



Figure 4-43

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4.9.2 Activate Preset

In Figure 4-42, please input preset number in the No. blank, and click preset button.

4.9.3 Patrol setup (Tour Setup)

In Figure 4-38, click patrol button. The interface is shown as in Figure 4-44.Input preset number and add this preset to a patrol (tour). For each patrol (tour), you can input max 80 presets.



Figure 4-44

4.9.4 Activate Patrol (tour)

In Figure 4-41, input patrol (tour) number in the No. blank and click patrol button

4.9.5 Pattern Setup

In Figure 4-41, click pattern button and then click “begin” button. The interface is shown as in Figure 4-45. Then you can go to Figure 4-38 X to modify zoom, focus, and iris.
Go back to Figure 4-45 and click “end” button. You can memorize all these operations as pattern 1.



Figure 4-45

4.9.6 Activate Pattern Function

In Figure 4-39, input mode value in the No. blank, and click pattern button.

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4.9.7 Auto Scan Setup

In Figure 4-38, click the border button. The interface is shown as in Figure 4-43. Please go to Figure 4-35, use direction arrows to select camera left limit

Then go to Figure 4-43 and click left limit button

Repeat the above procedures to set right limit.



Figure 4-46

4.9.8 Activate Auto Scan

In Figure 4-42, click “Auto Scan” button, the system begins auto scan. Correspondingly, the auto scan button becomes Stop button. Click stop button to terminate scan operation.

4.10 Flip

In Figure 4-42, click page switch button, you can see an interface is shown as below. See Figure 4-47. Here you can set auxiliary function. The aux value has relation ship with the Aux button of the decoder.

Click page switch button again, system goes back to Figure 4-38.

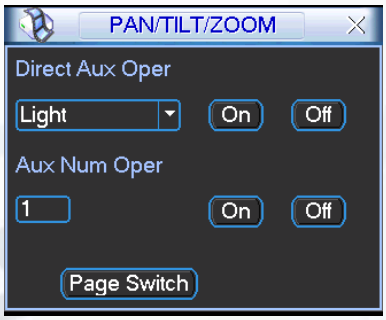


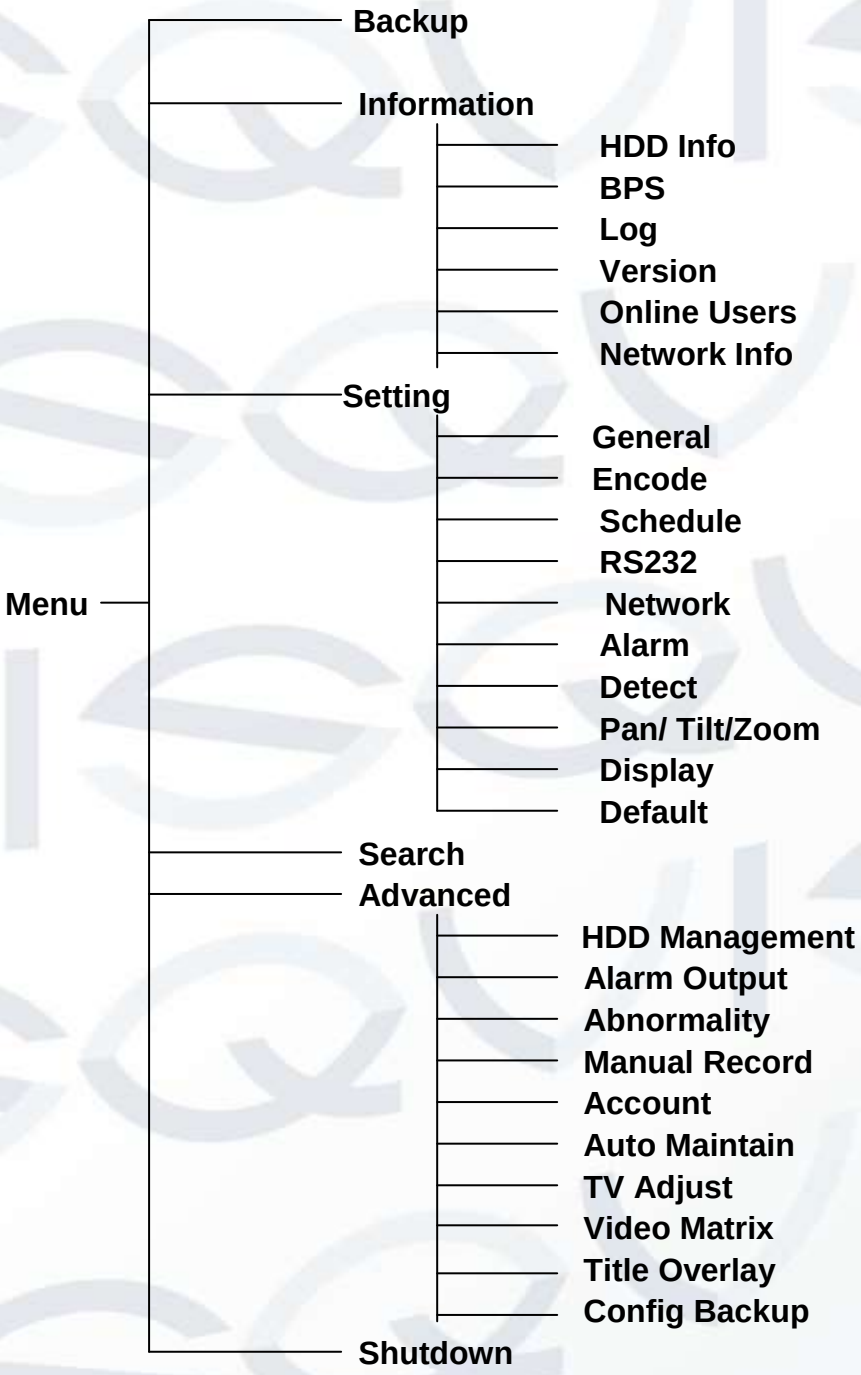
Figure 4-47

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5 Understanding of Menu Operations and Controls

5.1 Menu Tree

The DVR menu tree is shown below:



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5.2 Main Menu

After you logged in, the system main menu is shown as below. See Figure 5-1. There are total six icons: search, Information, setting, backup, advanced and shutdown. Move the cursor to highlight the icon, then double click mouse to enter the sub-menu.



Figure 5-1

5.3 Setting

In main menu, highlight setting icon and double click mouse. System setting interface is shown as below. See Figure 5-2.



Figure 5-2

5.3.1 General

General setting includes the following items. See Figure 5-3.

- **System time:** Here is for you to set system time
- **Date format:** There are three types: YYYYY-MM-DD: MM-DD-YYYYY or DD-MM-YYYY.
- **Date separator:** There are three denotations to separate date: dot, beeline and solidus.
- **DST:** Here you can set DST time and date. Please enable DST function and then click set button. You can see an interface is shown as in Figure 5-4. Here you can set start time and end time by setting corresponding week setup. In Figure 5-4, enable date button, you can

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see an interface is shown as in Figure 5-5. Here you can set start time and end time by setting corresponding date setup.

- **Time format:** There are two types: 24-hour mode or 12-hour mode.
- **Language:** System supports various languages: Chinese (simplified), Chinese (Traditional), English, Italian, Japanese, French, Spanish (All languages listed here are optional. Slight difference maybe found in various series.)
- **HDD full:** Here is for you to select working mode when hard disk is full. There are two options: stop recording or rewrite. If current working HDD is overwritten or the current HDD is full while the next HDD is no empty, then system stops recording, If the current HDD is full and then next HDD is not empty, then system overwrites the previous files.
- **Video standard:** There are two formats: NTSC and PAL.
- **Pack duration:** Here is for you to specify record duration. The value ranges from 1 to 120 minutes. Default value is 60 minutes.
- **Real-time playback:** It is to set playback time you can view in the preview interface (chapter 4.2 Live Viewing). The value ranges from 5 to 60 minutes.
- **Device ID:** Please input a corresponding device name here.
- **Holiday setup:** Click it you can see an interface shown as in Figure 5-7. Here you can set holiday date. Please go to chapter 4.5 Schedule to view or set the holiday date record setup.
  - ✧ When you enable Holiday settings and schedule setup at the same time, holiday setting has the priority. If the selected day is a holiday, then system records as you set in holiday setting. If it is not a holiday, system records as you set in Schedule interface. Please note you need to go to chapter 4.5 Schedule to enable Holiday setup. Otherwise you can not enable holiday record setup.
  - ✧ Please note, there is no year setup on the holiday setup. For example, if you set 30th Oct, 2012 as a holiday, then the date of 30th Oct in each year will be set as a holiday. So, general speaking, your holiday setup in other year may also affect the holiday setup in 2012.
- **Auto logout:** Here is for you to set auto logout interval once login user remains inactive for a specified time. Value ranges from 0 to 60 minutes.
- **Mouse property:** Click mouse setup button, you can go to mouse setup interface. See Figure 5-7. You can set double click speed via dragging the slide bard. You can Click Default button to restore default setup.
- **Startup wizard:** Check the box here, system goes to the startup wizard when the device boots up the next time. Otherwise, it goes to the system login interface directly.
- **Navigation bar:** Check the box here, system displays the navigation bar on the interface.

Note: Since system time is very important, do not modify time casually unless you must! Before your time modification, please stop record operation first!

After completing all the setups please click save button, system goes back to the previous menu.

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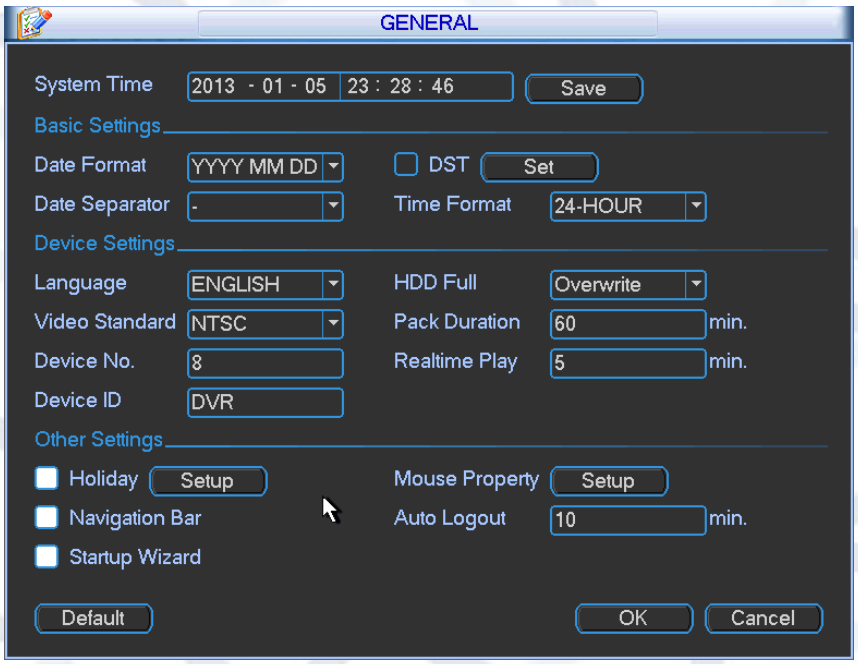


Figure 5-3

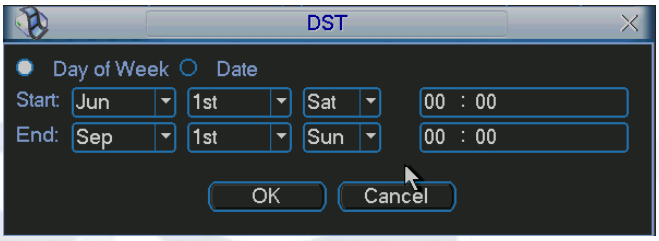


Figure 5-4



Figure 5-5

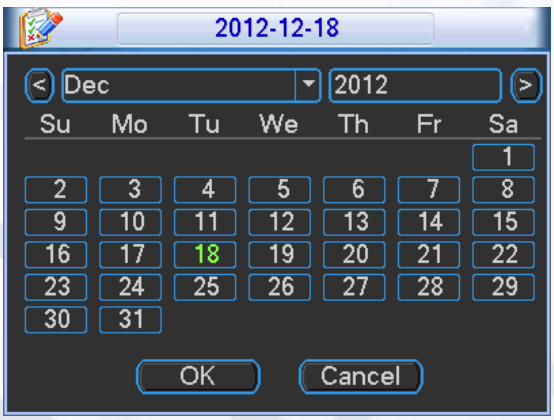


Figure 5-6

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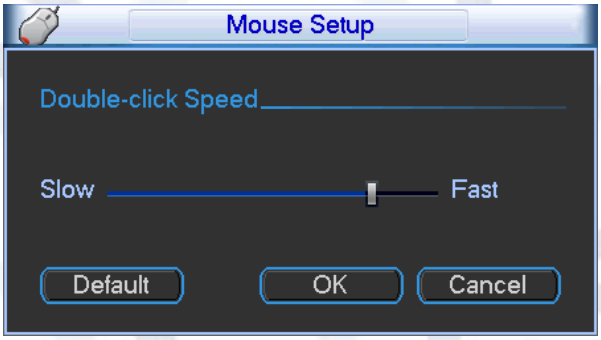


Figure 5-7

5.3.2 Encode

Encode setting includes the following items. See Figure 5-8.

Please note some series do not support extra stream.

- **Channel:** Select the channel you want.
- **Type:** Please select from the dropdown list. There are three options: regular/motion detect/alarm. You can set the various encode parameters for different record types.
- **Compression:** System supports H.264.
- **Resolution:** System supports various resolutions, you can select from the dropdown list. The main stream supports D1/HD1/2CIF/CIF/QCIF and the extra stream supports CIF/QCIF. Please note the option may vary due to different series.
- **Frame rate:** It ranges from 1f/s to 25f/s in NTSC mode and 1f/s to 30f/s in PAL mode.
- **Bit rate type:** System supports two types: CBR and VBR. In VBR mode, you can set video quality.
- **Quality:** There are six levels ranging from 1 to 6. The sixth level has the highest image quality.
- **Video/audio:** You can enable or disable the video/audio.
- **Overlay:** Click overlay button, you can see an interface is shown in Figure 5-9.
  - **Cover area (Privacy mask):** Here is for you to set privacy mask section. You can drag you mouse to set proper section size. In one channel video, system max supports 4 zones in one channel.
  - **Preview/monitor:** privacy mask has two types. Preview and Monitor. Preview means the privacy mask zone can not be viewed by user when system is in preview status. Monitor means the privacy mask zone can not be view by the user when system is in monitor status.
  - **Time display:** You can select system displays time or not when you playback. Please click set button and then drag the title to the corresponding position in the screen.
  - **Channel display:** You can select system displays channel number or not when you playback. Please click set button and then drag the title to the corresponding position in the screen.
  - **Copy：** After you complete the setup, you can click the Copy button to copy current setup to other channel(s). You can see an interface is shown as in Figure 5-10. You can see current channel number is grey. Please check the number to select the channel or

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you can check the box ALL. Please click the OK button in Figure 5-10 and Figure 5-8 respectively to complete the setup. Please note, once you check the All box, you set same encode setup for all channels. Audio/video enable box, overlay button and the copy button is shield. See Figure 5-11.

Please highlight icon to select the corresponding function.

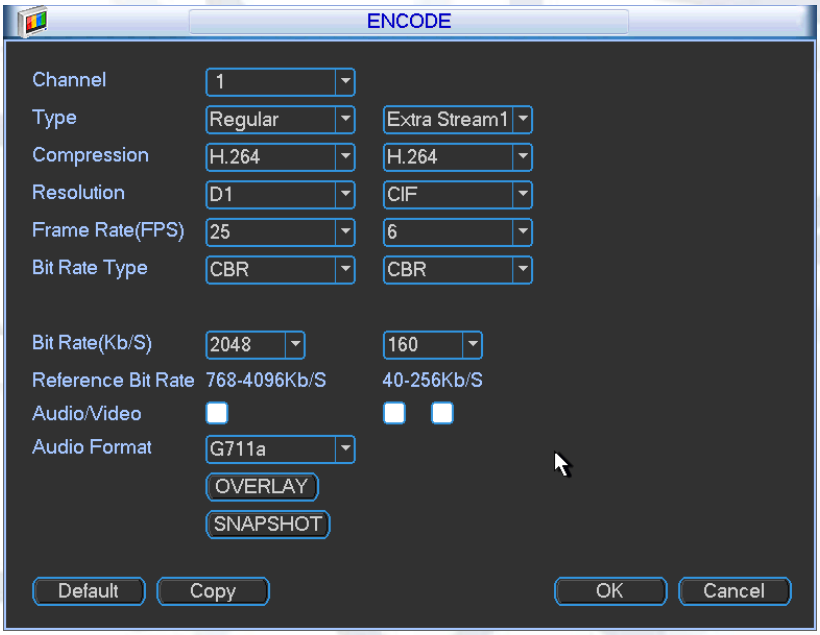


Figure 5-8

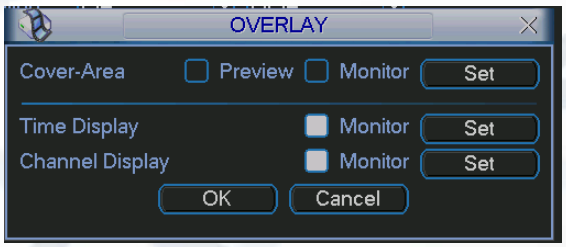


Figure 5-9

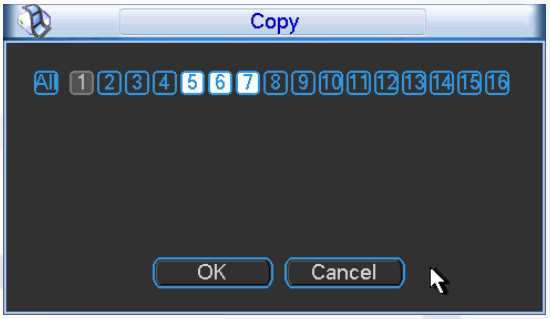


Figure 5-10

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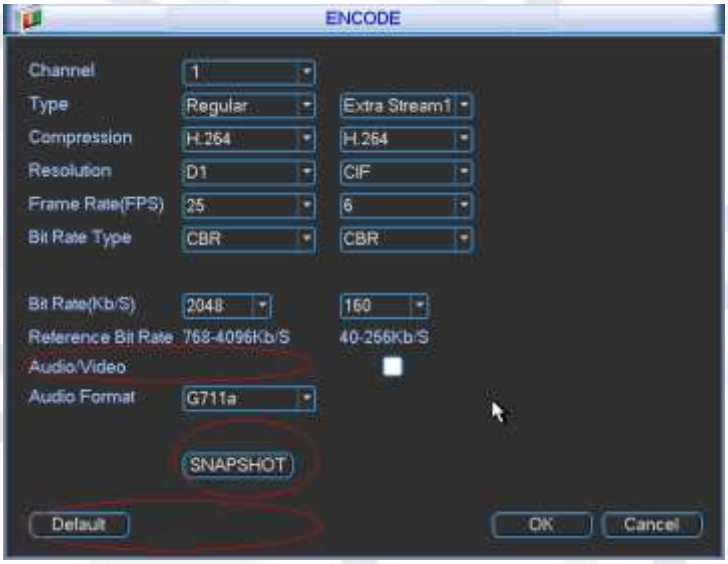


Figure 5-11

5.3.3 Schedule

Please refer to chapter 4.5 schedule.

5.3.4 Network

Here is for you to input network information.

The single network adapter interface is shown as in Figure 5-12 and the dual network adapters interface (for some series product only) is shown as in Figure 5-13.

- **IP Version:** There are two options: IPv4 and IPv6. Right now, system supports these two IP address format and you can access via them.
- **MAC address:** The host in the LAN can get a unique MAC address. It is for you to access in the LAN. It is read-only.
- **IP address:** Here you can use up/down button (▲▼) or input the corresponding number to input IP address. Then you can set the corresponding subnet mask the default gateway.
- **Subnet prefix:** The input value ranges from 0 to 128. It is to mark a specified network MAC address. Usually it includes an organization of multiple-level.
- **Default gateway:** Here you can input the default gateway. **Please note system needs to check the validity of all IPv6 addresses. The IP address and the default gateway shall be in the same IP section. That is to say, the specified length of the subnet prefix shall have the same string.**
- **DHCP:** It is to auto search IP. When enable DHCP function, you can not modify IP/Subnet mask /Gateway. These values are from DHCP function. If you have not enabled DHCP function, IP/Subnet mask/Gateway display as zero. You need to disable DHCP function to view current IP information. Besides, when PPPoE is operating, you can not modify IP/Subnet mask /Gateway.
- **TCP port:** Default value is 37777. You can change if necessary.

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- **UDP port:** Default value is 37778. You can change if necessary.
- **HTTP port:** Default value is 80.
- **RTSP port:** Default value is 554.

Important: System needs to reboot after you changed and saved any setup of the above four ports. Please make sure the port values here do not conflict.

- **Max connection:** system support maximal 128 users. 0 means there is no connection limit.
- **MTU:** It is to set MTU value of the network adapter. The value ranges from 1280-7200 bytes. The default setup is 1500 bytes. Please note MTU modification may result in network adapter reboot and network becomes off. That is to say, MTU modification can affect current network service. System may pop up dialog box for you to confirm setup when you want to change MTU setup. Click OK button to confirm current reboot, or you can click Cancel button to terminate current modification. Before the modification, you can check the MTU of the gateway; the MTU of the DVR shall be the same as or is lower than the MTU of the gateway. In this way, you can reduce packets and enhance network transmission efficiency.

The following MTU value is for reference only:

- ✧ 1500: Ethernet information packet max value and it is also the default value. It is the typical setup when there is no PPPoE or VPN. It is the default setup of some router, switch or the network adapter.
- ✧ 1492: Recommend value for PPPoE.
- ✧ 1468: Recommend value for DHCP.

- **Preferred DNS server**: DNS server IP address.
- **Alternate DNS server:** DNS server alternate address.
- **Transfer mode:** Here you can select the priority between fluency/video qualities.
- **LAN download:** System can process the downloaded data first if you enable this function. The download speed is 1.5X or 2.0X of the normal speed.
- **Dual network adapters mode:**
  - ✧ **Multiple-address mode:** eth0 and eth1 operate separately. You can use the services such as HTTP, RTP service via etho0 or the eth1 usually you need to set one default card(default setup is etho) to request the auto network service form the device-end such as DHCP, email ,FTP and etc. In multiple-address mode, system network status is shown as offline once one card is offline.
  - ✧ **Network fault-tolerance:** In this mode, device uses bond0 to communicate with the external devices. You can focus on one host IP address. At the same time, you need to set one master card. Usually there is only one running card (master card).System can enable alternate card when the master card is malfunction. The system is shown as offline once these two cards are both offline. Please note these two cards shall be in the same LAN.
  - ✧ **Load balance:** In this mode, device uses bond0 to communicate with the external device. The eth0 and eth1 are both working now and bearing the network load. Their network load are general the same. The system is shown as offline once these two cards are both offline. Please note these two cards shall be in the same LAN.

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Important: For the IP address of IPv6 version, default gateway, preferred DNS and alternate DNS, the input value shall be 128-digit. It shall not be left in blank.

After completing all the setups please click save button, system goes back to the previous menu.

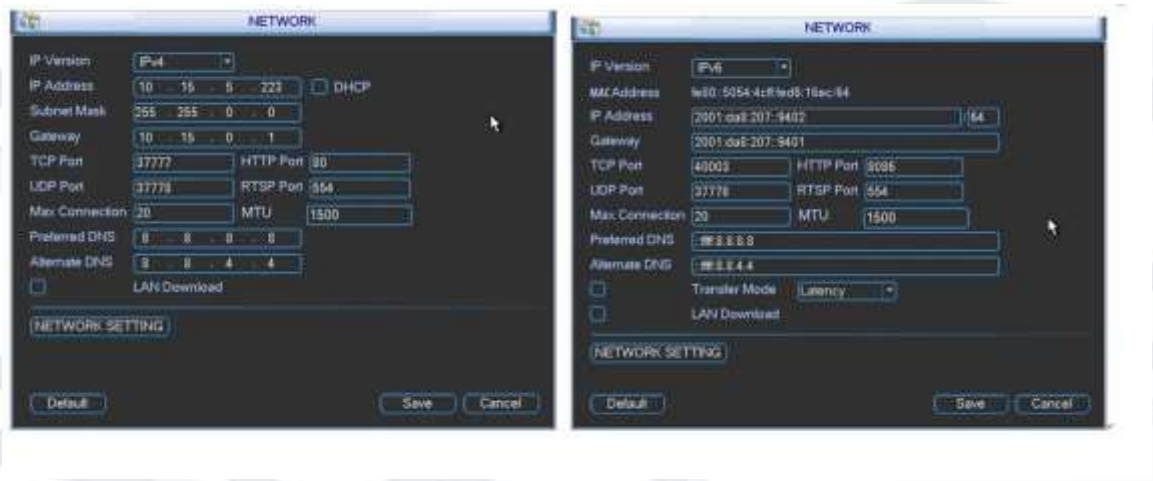


Figure 5-12

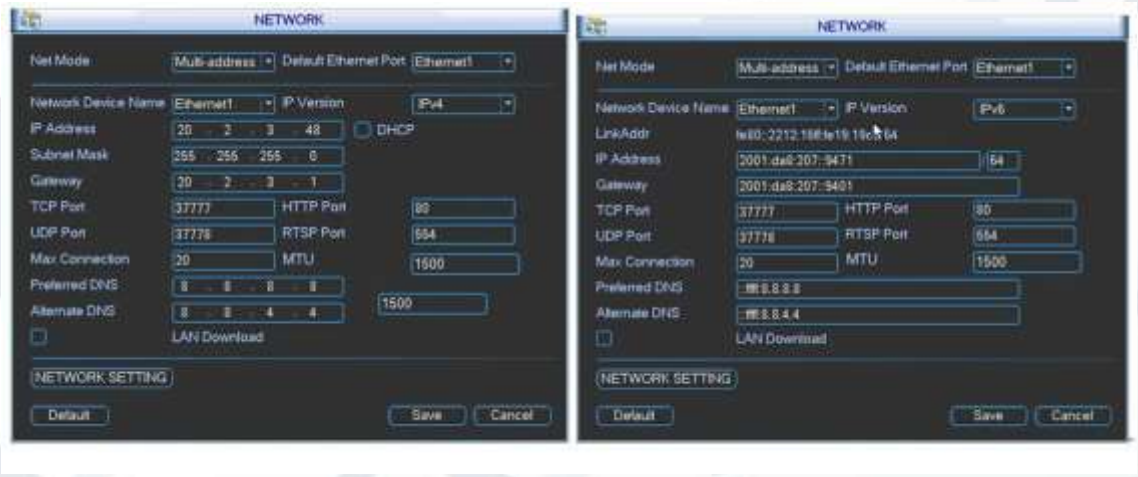


Figure 5-13

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5.3.4.1 Network Setting

Network setting interface is shown as in Figure 5-14. Please check the box to enable corresponding function and then double click current item to go to setup interface.



Figure 5-14

5.3.4.2 IP Filter

IP filter interface is shown as in Figure 5-15. You can add IP in the following list. The list supports max 64 IP addresses. System supports valid address of IPv4 and IPv6. **Please note system needs to check the validity of all IPv6 addresses.**

After you enabled trusted sites function, only the IP listed below can access current DVR.
If you enable blocked sites function, the following listed IP addresses can not access current DVR.

- **Enable:** Highlight the box here, you can check the trusted site function and blocked sites function. You can not see these two modes if the Enable button is grey.
- **Type:** You can select trusted site and blacklist from the dropdown list. You can view the IP address on the following column.
- **Start address/end address:** Select one type from the dropdown list, you can input IP address in the start address and end address. Now you can click Add IP address or Add IP section to add.
  a) For the newly added IP address, it is in enable status by default. Remove the √ before the item, and then current item is not in the list.
  b) System max supports 64 items.
  c) Address column supports IPv4 or IPv6 format. If it is IPv6 address, system can optimize it. For example, system can optimize aa:0000: 00: 00aa: 00aa: 00aa: 00aa: 00aa as aa:: aa: aa: aa: aa: aa: aa.
  d) System automatically removes space if there is any space before or after the newly added IP address.
  e) System only checks start address if you add IP address. System check start address and end address if you add IP section and the end address shall be larger than the start

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address.

f) System may check newly added IP address exists or not. System does not add if input IP address does not exist.

- **Delete:** Click it to remove specified item.
- **Edit:** Click it to edit start address and end address. See Figure 5-17. System can check the IP address validity after the edit operation and implement IPv6 optimization.
- **Default:** Click it to restore default setup. In this case, the trusted sites and blocked sites are both null.

Note:

- If you enabled trusted sites, only the IP in the trusted sites list can access the device.
- If you enabled blocked sites, the IP in the blocked sites can not access the device.
- System supports add MAC address.

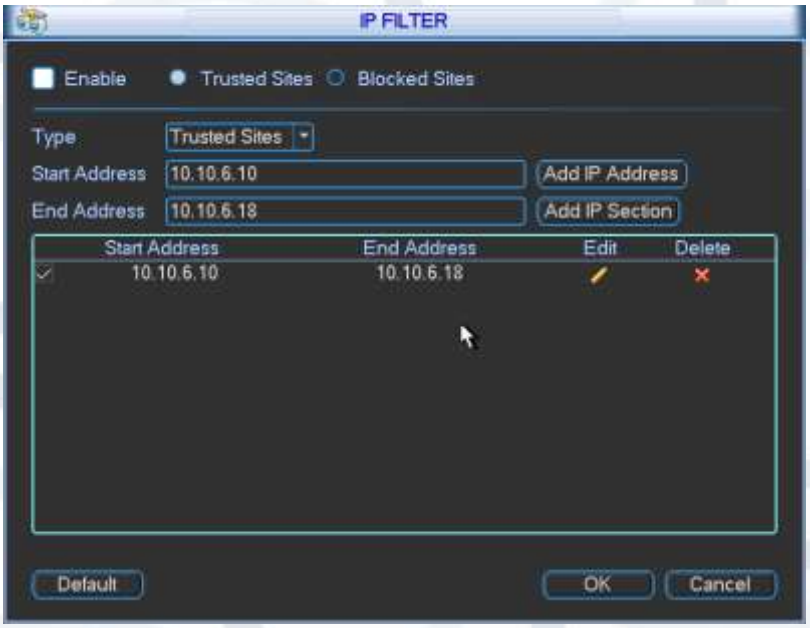


Figure 5-15

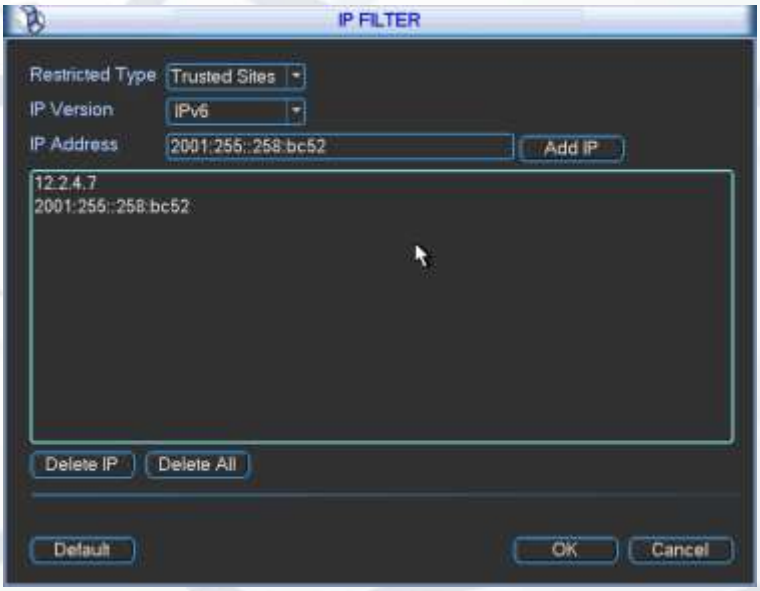


Figure 5-16

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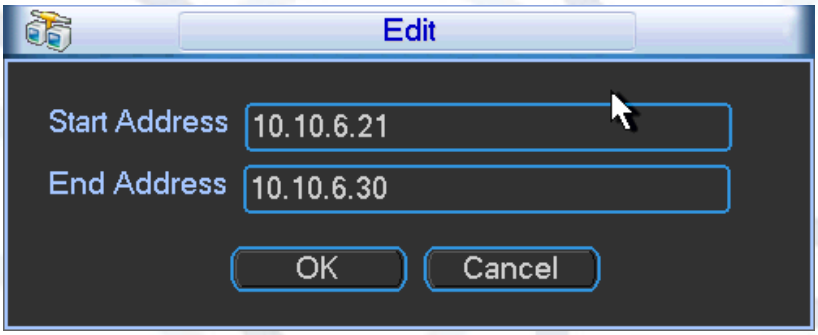


Figure 5-17

5.3.4.3 NTP Setup

You need to install SNTP server (Such as Absolute Time Server) in your PC first. In Windows XP OS, you can use command “net start w32time” to boot up NTP service. NTP setup interface is shown as in Figure 5-18.

- **Host IP:** Input your PC address.
- **Port:** This series DVR supports TCP transmission only. Port default value is 123.
- **Update interval:** minimum value is 1. Max value is 65535. (Unit: minute)
- **Time zone:** select your corresponding time zone here.
- **Manual update:** It allows you to synchronize the time with the server manually.

Here is a sheet for your time zone setup:

City /Region Name	Time Zone
London	GMT+0
Berlin	GMT+1
Cairo	GMT+2
Moscow	GMT+3
New Deli	GMT+5
Bangkok	GMT+7
Beijing (Hong Kong)	GMT+8
Tokyo	GMT+9
Sydney	GMT+10
Hawaii	GMT-10
Alaska	GMT-9
Pacific Time(P.T)	GMT-8
American Mountain Time(M.T)	GMT-7
American Central Time(C.T)	GMT-6
American Eastern Time(E.T)	GMT-5
Atlantic Time	GMT-4
Brazil	GMT-3
Middle Atlantic Time	GMT-2

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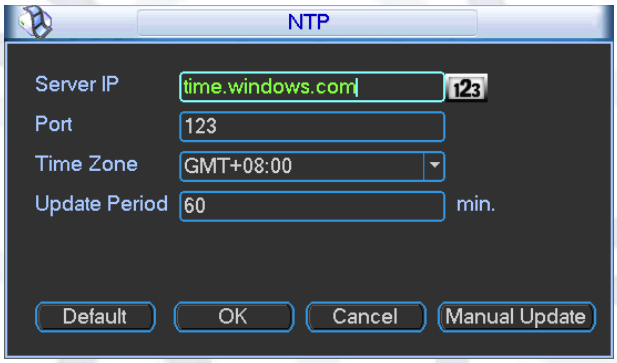


Figure 5-18

5.3.4.4 Multiple Cast Setup

Multiple-cast setup interface is shown as in Figure 5-19.

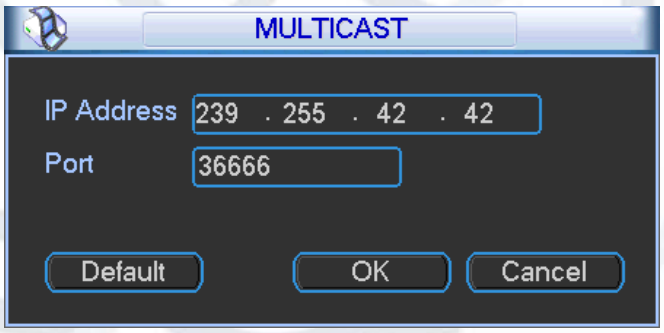


Figure 5-19

Here you can set a multiple cast group. Please refer to the following sheet for detailed information:

- IP multiple cast group address

-224.0.0.0-239.255.255.255

-“D” address space

  - The higher four-bit of the first byte=”1110”

- Reserved local multiple cast group address

-224.0.0.0-224.0.0.255

-TTL=1 When sending out telegraph

-For example

224.0.0.1 All systems in the sub-net

224.0.0.2 All routers in the sub-net

224.0.0.4 DVMRP router

224.0.0.5 OSPF router

224.0.0.13 PIMv2 router

- Administrative scoped addressees

-239.0.0.0-239.255.255.255

-Private address space

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- Like the single broadcast address of RFC1918
- Can not be used in Internet transmission
- Used for multiple cast broadcast in limited space.

Except the above mentioned addresses of special meaning, you can use other addresses. For example:

Multiple cast IP: 235.8.8.36
Multiple cast PORT: 3666.

After you logged on to the Web, the Web can automatically get multiple cast address and add it to the multiple cast groups. You can enable real-time monitor function to view the view.
Please note multiple cast function applies to special series only.

5.3.4.5 PPPoE

PPPoE interface is shown as in Figure 5-20.

Input “PPPoE name” and “PPPoE password” you get from your ISP (Internet service provider). Click save button, you need to restart to activate your configuration.

After rebooting, DVR will connect to internet automatically. The IP in the PPPoE is the DVR dynamic value. You can access this IP to visit the unit.

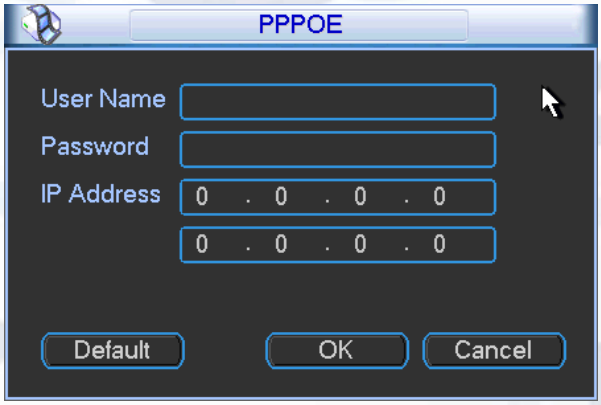


Figure 5-20

5.3.4.6 DDNS Setup

DDNS setup interface is shown as in Figure 5-21.

You need a PC with a fixed IP on the internet and also DDNS software running on it as well. In other words, this PC is a DNS (domain name server).

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In network DDNS, please select DDNS type and highlight enable item. Please input your PPPoE name you get from you IPS and server IP (PC with DDNS). Click save button and then reboot system.

Click save button, system prompts for rebooting to get all setup activated. After rebooting, open IE and input as below:

http：//(DDNS server IP)/(virtual directory name)/webtest.htm
e.g.: http：//10.6.2.85/DVR _DDNS/webtest.htm.)
Now you can open DDNSServer web search page.

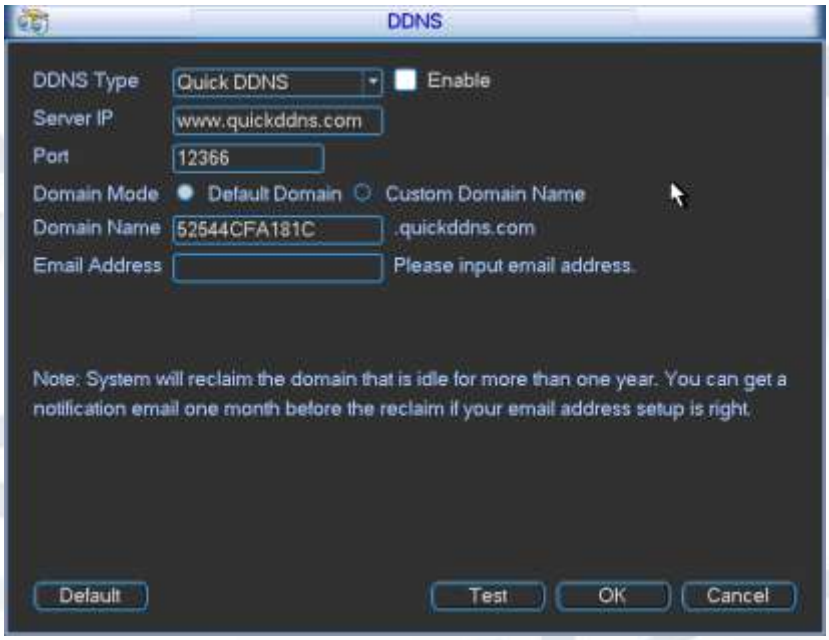


Figure 5-21

Please note NNDS type includes: CN99 DDNS, NO-IP DDNS, Quick DDNS and Dyndns DDNS.

All the DDNS can be valid at the same time, you can select as you requirement.

Quick DDNS function shall work with special DDNS server and special Professional Surveillance Software (PSS).

Quick DDNS and Client-end Introduction

1) Background Introduction
Device IP is not fixed if you use ADSL to login to the network. The DDNS function allows you to access the DVR via the registered domain name. Besides the general DDNS, the Quick DDNS works with the device from the manufacturer so that it can add the extension function.

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2) Function Introduction

The quick DDNS client has the same function as other DDNS client end. It realizes the bonding of the domain name and the IP address. Right now, current DDNS server is for our own devices only. You need to refresh the bonding relationship of the domain and the IP regularly. There is no user name, password or the ID registration on the server. At the same time, each device has a default domain name (Generated by MAC address) for your option. You can also use customized valid domain name (has not registered).

3) Operation

Before you use Quick DDNS, you need to enable this service and set proper server address, port value and domain name.

- Server address：www.quickddns.com
- Port number：80
- Domain name：There are two modes: Default domain name and customized domain name.

Except default domain name registration, you can also use customized domain name (You can input your self-defined domain name.) After successful registration, you can use domain name to login installed of the device IP.

- User name: It is optional. You can input your commonly used email address.

Important

- Do not register frequently. The interval between two registrations shall be more than 60 seconds. Too many registration requests may result in server attack.
- System may take back the domain name that is idle for one year. You can get a notification email before the cancel operation if your email address setup is OK.

5.3.4.7 UPNP

The UPNP protocol is to establish a mapping relationship between the LAN and the WAN. Please input the router IP address in the LAN in Figure 5-13. Double click the UPNP item in Figure 5-14, you can see the following interface. See Figure 5-22.

- UPNP on/off ：Turn on or off the UPNP function of the device.
- Status: When the UPNP is offline, it shows as “Unknown”. When the UPNP works it shows “Success”
- Router LAN IP: It is the router IP in the LAN.
- WAN IP: It is the router IP in the WAN.
- Port Mapping list： The port mapping list here is the one to one relationship with the router’s port mapping setting.
- Enable Switch ☑ : ：It shows that the function of port mapping is enabled in this port.
- List：
  - ✧ Service name：Defined by user.
  - ✧ Protocol： Protocol type
  - ✧ Internal port：Port that has been mapped in the router.

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✧ External port：Port that has been mapped locally.

- Default: UPNP default port setting is the HTTP, TCP and UDP of the DVR.
- Add to the list: Click it to add the mapping relationship.
- Delete: Click it to remove one mapping item.

Double click one item; you can change the corresponding mapping information. See Figure 5-23.

Important:

When you are setting the router external port, please use 1024~5000 ports. Do not use well-known port 1~255 and the system port 256~1023 to avoid conflict.

For the TCP and UDP, please make sure the internal port and external port are the same to guarantee the proper data transmission.

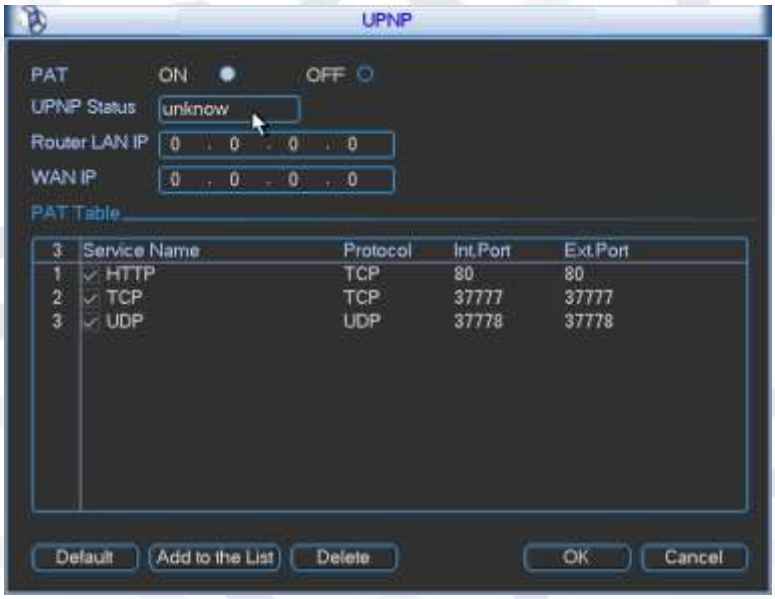


Figure 5-22

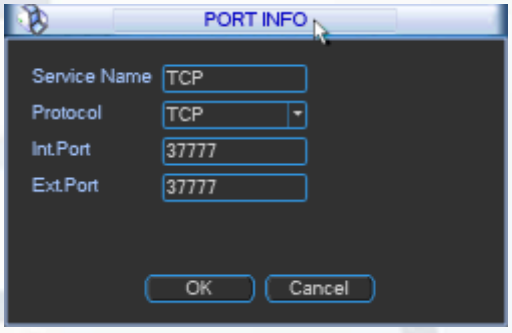


Figure 5-23

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5.3.4.8 WIFI

You can view the WIFI connection status in the Network Setting interface. See Figure 5-24. You can view current connection status and IP address if there is a connection.

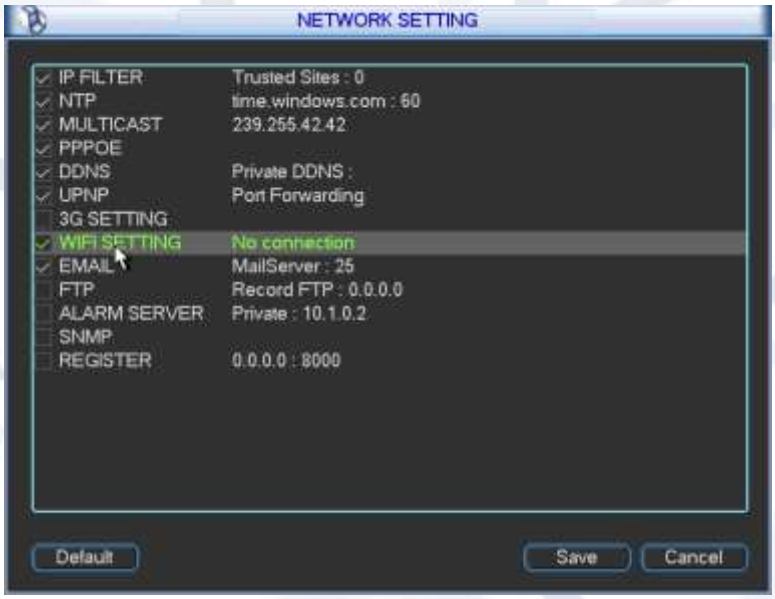


Figure 5-24

The WIFI interface is shown as below. See Figure 5-25.

- **Auto connect WIFI:** Check the box here, system automatically connects to the previous WIFI hotspot.
- **Refresh:** You can click it to search the hotspot list again. It can automatically add the information such as the password if you have set it before.
- **Disconnect:** Here you can click it to turn off the connection.
- **Connect:** Here you can click it to connect to the hotspot. System needs to turn off current connection and then connect to a new hotspot if there is connection of you selected one. See Figure 5-26.

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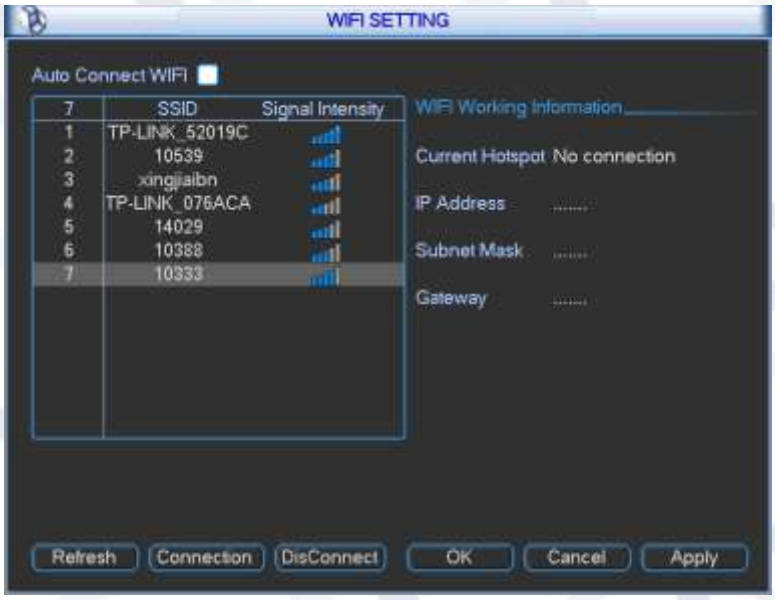


Figure 5-25



Figure 5-26

After successfully connecting, you can see the following interface. You can see it is connected now. See Figure 5-26.

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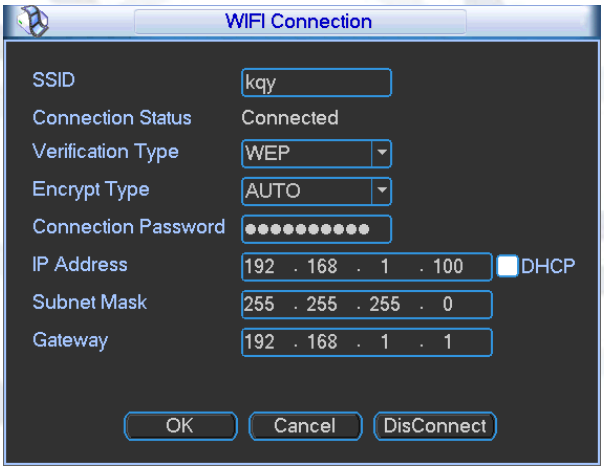


Figure 5-27

- WIFI working status: Here you can view current connection status.

Please note:

- After successful connection, you can see WIFI connection icon at the top right corner of the preview interface.
- When the hotspot verification type is WEP, system displays as AUTO since the device can not detect its encryption type.
- System does not support verification type WPA and WPA2. The display may become abnormal for the verification type and encryption type.

After device successfully connected to the WIFI, you can view the hotspot name, IP address, subnet mask, default gateway and etc. See Figure 5-28.

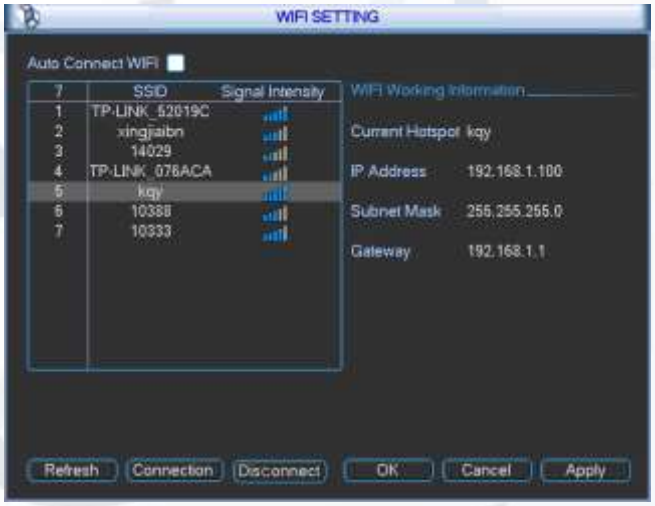


Figure 5-28

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5.3.4.9 Email

The email interface is shown as below. See Figure 5-29.

- **SMTP server:** Please input your email SMTP server IP here.
- **Port:** Please input corresponding port value here.
- **User name:** Please input the user name to login the sender email box.
- **Password:** Please input the corresponding password here.
- **Sender:** Please input sender email box here.
- **Title:** Please input email subject here. System support English character and Arabic number. Max 32-digit.
- **Receiver:** Please input receiver email address here. System max supports 3 email boxes. System automatically filters same addresses if you input one receiver repeatedly.
- **SSL enable:** System supports SSL encryption box.
- **Interval:** The send interval ranges from 0 to 3600 seconds. 0 means there is no interval.
- **Health email enable:** Please check the box here to enable this function. This function allows the system to send out the test email to check the connection is OK or not.
- **Interval:** Please check the above box to enable this function and then set the corresponding interval. System can send out the email regularly as you set here. Click the Test button, you can see the corresponding dialogue box to see the email connection is OK or not. See Figure 5-30.

Please note: system will not send out the email immediately when the alarm occurs. When the alarm, motion detection or the abnormity event activates the email, system sends out the email according to the interval you specified here. This function is very useful when there are too many emails activated by the abnormity events, which may result in heavy load for the email server.

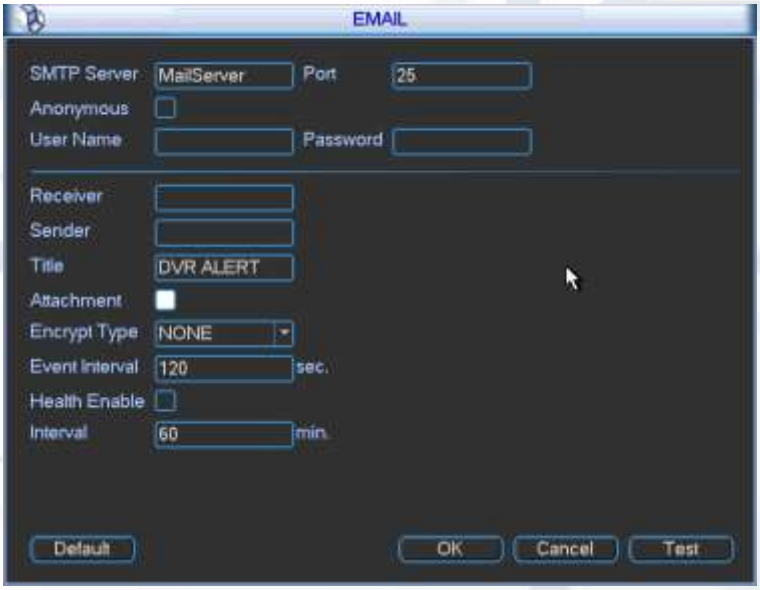


Figure 5-29

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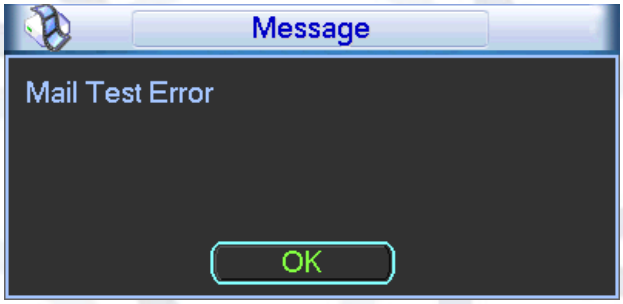


Figure 5-30

5.3.4.10 FTP

You need to download or buy FTP service tool (such as Ser-U FTP SERVER) to establish FTP service.

Please install Ser-U FTP SERVER first. From:

'start' -> "program" -> Serv-U FTP Server -> Serv-U Administator.

Now you can set user password and FTP folder. Please note you need to grant write right to FTP upload user. See Figure 5-31.

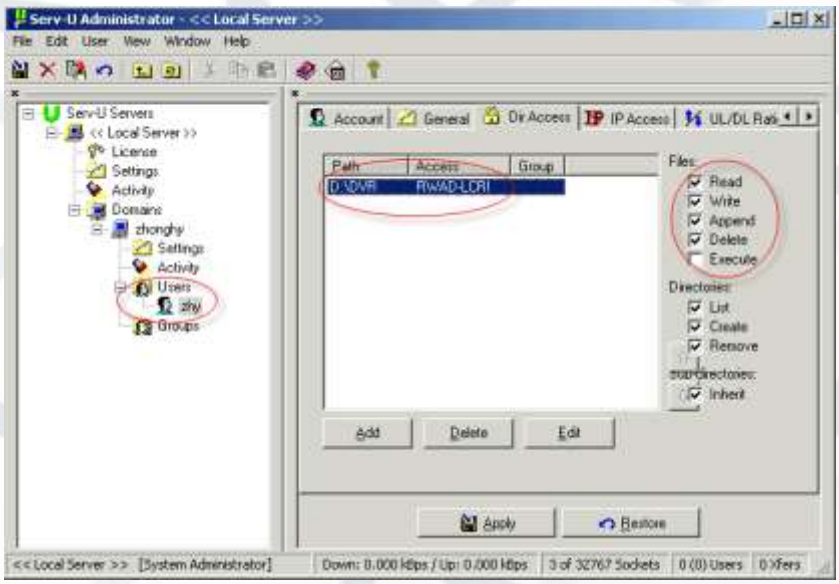


Figure 5-31

You can use a PC or FTP login tool to test setup is right or not.

For example, you can login user ZHY to FTP://10.10.7.7 and then test it can modify or delete folder or not. See Figure 5-32.

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Figure 5-32

System also supports upload multiple DVRs to one FTP server. You can create multiple folders under this FTP.

In Figure 5-229, select FTP and then double click mouse. You can see the following interface. See Figure 5-33.

- Please highlight the icon in front of Enable to activate FTP function.
- Here you can input FTP server address, port and remote directory. When remote directory is null, system automatically create folders according to the IP, time and channel.
- User name and password is the account information for you to login the FTP.
- Now you can set upload file length, picture upload interval, upload file channel, time and type.
  - ✧ File length is upload file length. When setup is larger than the actual file length, system will upload the whole file. When setup here is smaller than the actual file length, system only uploads the set length and auto ignore the left section. When interval value is 0, system uploads all corresponding files.
  - ✧ At the same time, you can set two periods, three record files for different channels.
- Click the Test button, you can see the corresponding dialogue box to see the FTP connection is OK or not. See Figure 5-34.



Figure 5-33

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Figure 5-34

5.3.4.11 SNMP

SNMP is an abbreviation of Simple Network Management Protocol. It provides the basic network management frame of the network management system. The SNMP widely used in many environments. It is used in many network device, software and system.
You can set in the following interface. See Figure 5-35.

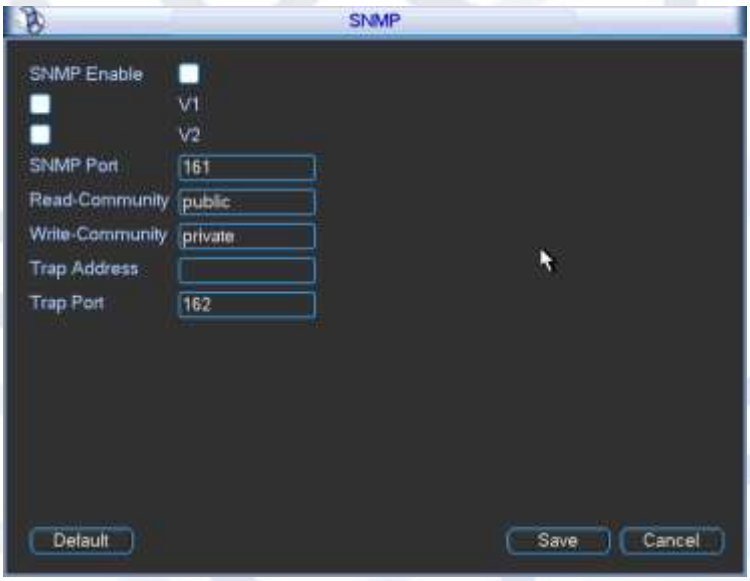


Figure 5-35

Please enable the SNMP function. Use the corresponding software tool (MIB Builder and MG-SOFT MIB Browser. You still need two MIB file: BASE-SNMP-MIB, DVR-SNMP-MIB) to connect to the device. You can get the device corresponding configuration information after successfully connection.

Please follow the steps listed below to configure.

- In Figure 5-35, check the box to enable the SNMP function. Input the IP address of the PC than is running the software in the Trap address. You can use default setup for the rest items.
- Compile the above mentioned two MIB file via the software MIB Builder.
- Run MG-SOFT MIB Browser to load the file from the previous step to the software.
- Input the device IP you want to manage in the MG-SOFT MIB Browser. Please set the corresponding version for your future reference.

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- Open the tree list on the MG-SOFT MIB Browser; you can get the device configuration. Here you can see the device has how many video channels, audio channels, application version and etc.

Note: Port conflict occurs when SNMP port and Trap port are the same.

5.3.4.12 Network Priority

This interface is for you to set network priority. The default setup is PPPoE>WIFI>3G>LAN. See Figure 5-36. You can change if necessary.

Default gateway: It is to display current default gateway. It is to display PPPoE if PPPoE dial succeeded.

Priority: The value ranges from 0 to 3. 0 has the highest priority.

Name: It is to display network name. Use ▲/▼ to move current item up/down.

Note: PPPoE always has the highest priority. You can change the priority of the rest three items.

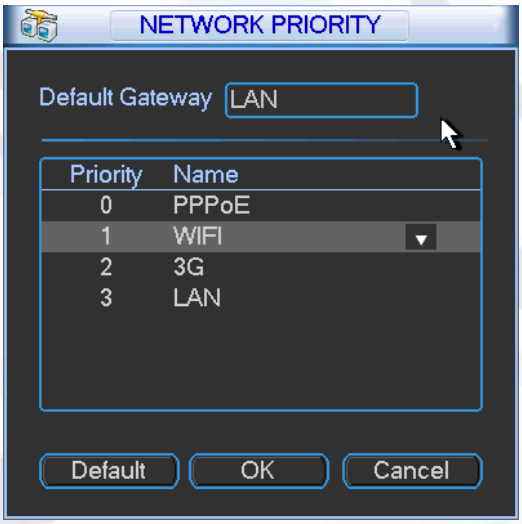


Figure 5-36

5.3.4.13 Auto register

This function allows the device to auto register to the proxy you specified. In this way, you can use the client-end to access the DVR and etc via the proxy. Here the proxy has a switch function. In the network service, device supports the server address of IPv4 or domain. Please follow the steps listed below to use this function. Please set proxy server address, port, and sub-device name at the device-end. Please enable the auto register function, the device can auto register to the proxy server.

1) The setup interface is shown as in Figure 5-37.

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Important: Do not input network default port such as TCP port number.

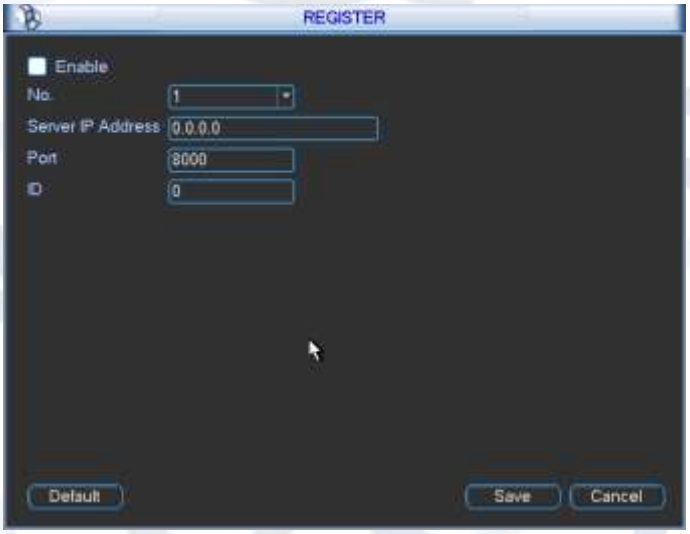


Figure 5-37

2) The proxy server software developed from the SDK. Please open the software and input the global setup. Please make sure the auto connection port here is the same as the port you set in the previous step.
3) Now you can add device. Please do not input default port number such as the TCP port in the mapping port number. The device ID here shall be the same with the ID you input in Figure 5-37. Click Add button to complete the setup.
4) Now you can boot up the proxy server. When you see the network status is Y, it means your registration is OK. You can view the proxy server when the device is online.

Important: The server IP address can also be the domain. But you need to register a domain name before you run proxy device server.

5.3.5 Detect

Please refer to chapter 4.6 Detect.

5.3.6 Display

Display setup interface is shown as below. See Figure 5-38.

- **Transparency:** Here is for you to adjust transparency. The value ranges from 128 to 255.
- **Channel name:** Here is for you to modify channel name. System max support 25-digit (The value may vary due to different series). Please note all your modification here only applies to DVR local end. You need to open web or client end to refresh channel name.
- **Time display:** You can select to display time or not when system is playback.
- **Channel display:** You can select to channel name or not when system is playback.
- **Resolution**: There are four options: 1920×1080, 1280×1024(default),1280×720,1024×768. Please note the system needs to reboot to activate current setup.

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- **Image enhance:** Check the box; you can optimize the margin of the preview video.
- **Tour setup:** Here you can activate tour function. Click Setup button, you can see an interface shown as in Figure 5-40.
  - ✧ **Enable tour:** Highlight box here to enable this function.
  - ✧ **Interval:** System supports 1/4/8/9/16-window tour. Input proper interval value here. The value ranges from 5-120 seconds. It is for schedule tour/alarm/motion detect tour.
  - ✧ **Split:** You can select window split mode from the dropdown list.
  - ✧ **Channel group:** It is for you to view channel names under current window split mode. You can add/delete channel here. Double click one item, you can change channel group setup to edit it. Now system max supports 32 channels. **Please note the channel group setup is for the window amount equal to or smaller than 16-window. System does not support channel group add/edit/delete function for 25/32-window mode.**
  - ✧ **Add:** Under specified window split mode, click it to add channel group.
  - ✧ **Delete:** Click it to remove selected channel group.
  - ✧ **Move up:** Click it to move current selected channel up.
  - ✧ **Move down:** Click it to move current selected channel down.
  - ✧ **Default:** Click it to restore default setup.

Please highlight icon to select the corresponding function.

After completing all the setups please click save button, system goes back to the previous menu.

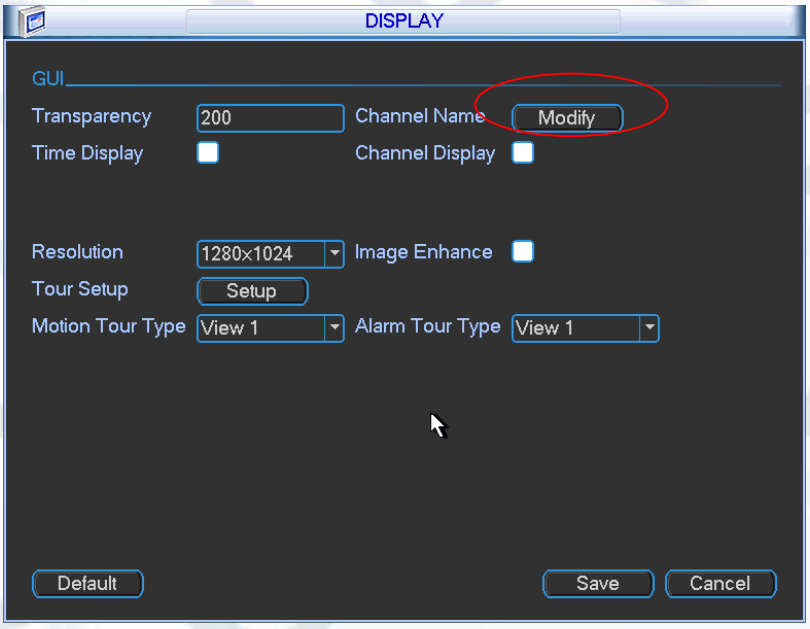


Figure 5-38

In Figure 5-38, click modify button after channel. You can see an interface is shown as in Figure 5-39. Please note all your modification here applies to local end only. You need to refresh web or client-end to get the latest channel name. System max support 25-digital character.

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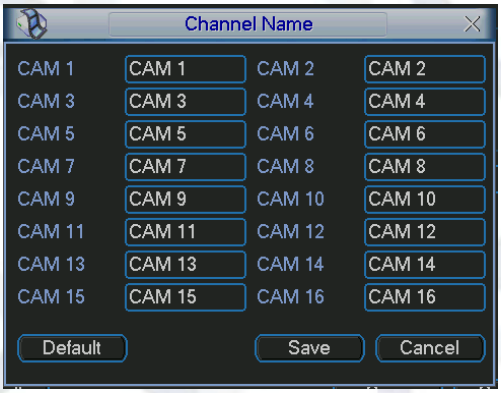


Figure 5-39

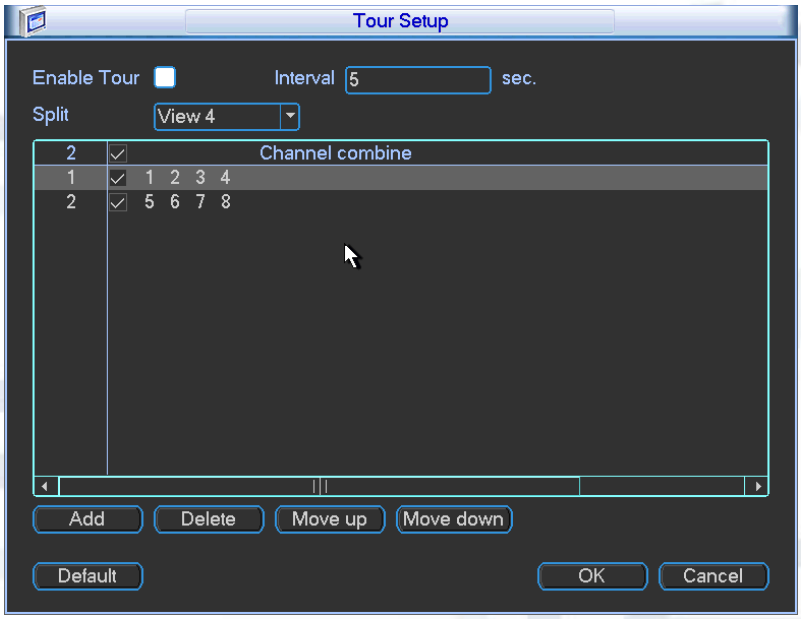


Figure 5-40

5.3.7 Default

Click default icon, system pops up a dialogue box. You can highlight to restore default factory setup. See Figure 5-26.

- Select all
- General
- Encode
- Schedule
- RS232
- Network
- Alarm
- Detect
- Pan/tilt/zoom
- Display
- Channel name

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Please highlight icon to select the corresponding function.

After all the setups please click save button, system goes back to the previous menu.

Warning!
System menu color, language, time display mode, video format, IP address, user account will not maintain previous setup after default operation!

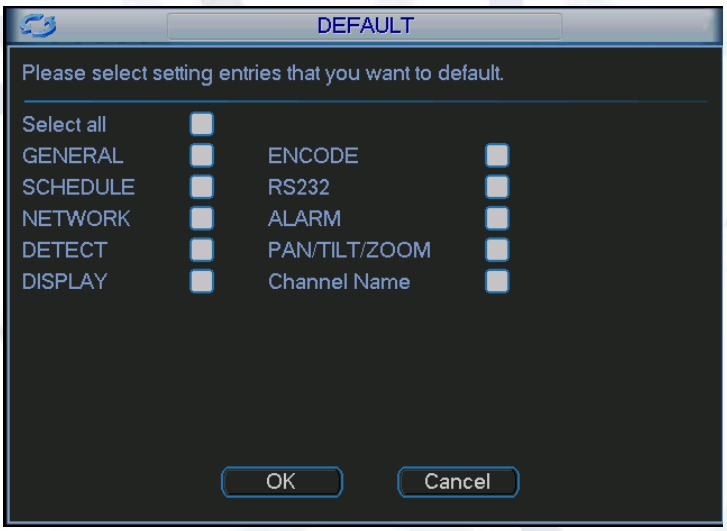


Figure 5-41

5.4 Search

Please refer to chapter 4.4 Search.

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5.5 Advanced

Double click advanced icon in the main window, the interface is shown as below. See Figure 5-42.There are total ten function keys: HDD management, alarm output, abnormity, manual record, account, auto maintenance, TV adjust and video matrix.

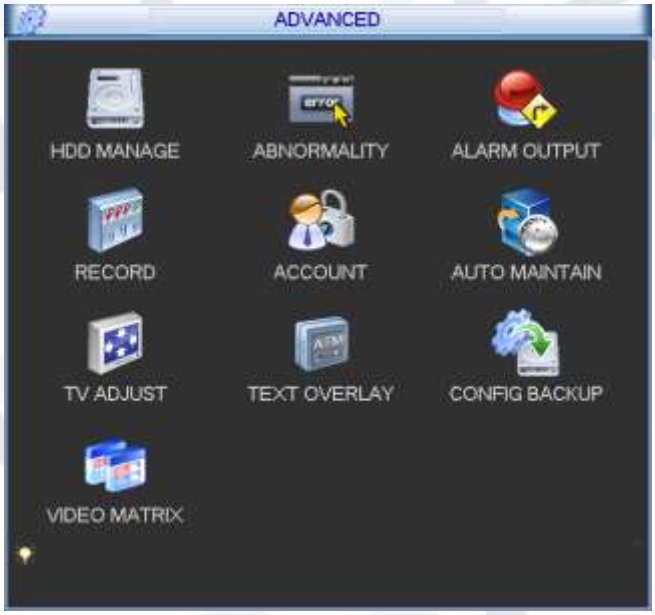


Figure 5-42

5.5.1 HDD Management

Here is for you to view and implement hard disk management. See Figure 5-43. You can see current HDD type, status, capacity and record time. When HDD is working properly, system is shown as O. When HDD error occurred, system is shown as X.

- **Alarm set:** Click alarm set button, the interface is shown as below. See Figure 5-44. (This interface is just like the abnormity setup). Please refer to chapter 5.5.2 for detailed information.
- **HDD operation:** You can select HDD mode from the dropdown list such as read-only or you can erase all data in the HDD. Please note system needs to reboot to get all the modification activated.

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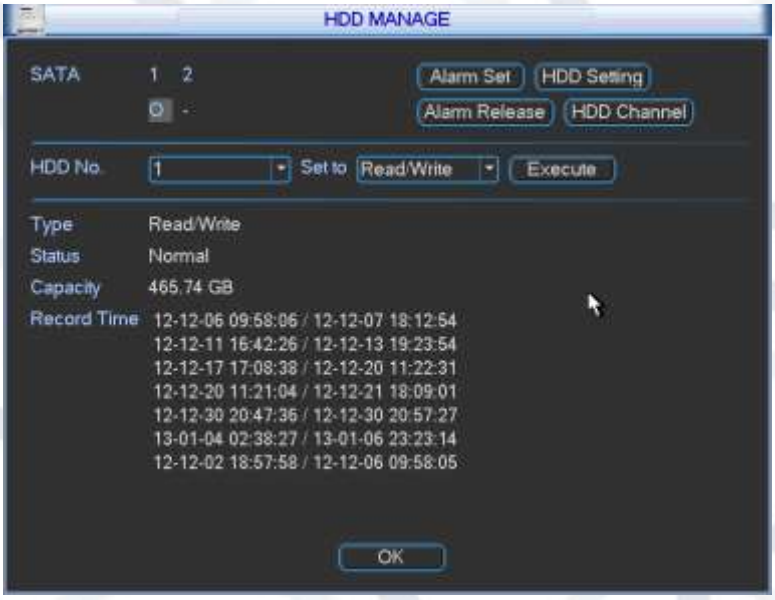


Figure 5-43

Please highlight icon to select the corresponding function.

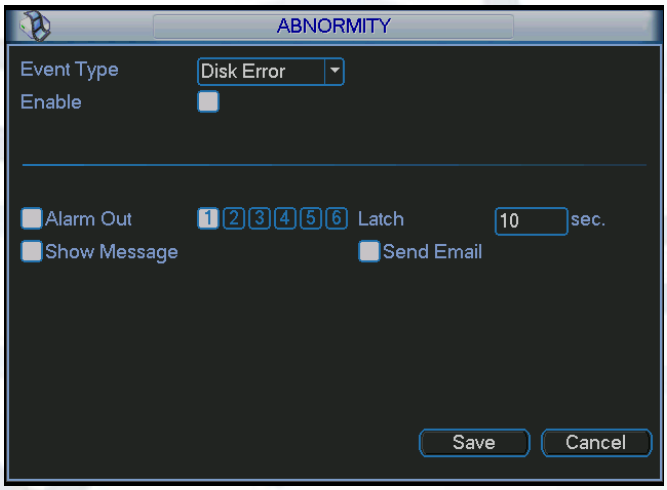


Figure 5-44

For the HDD group setup operation, please note:

- Each channel's records can be stored into the specified HDD Group.
- Each HDD Group is corresponding to several hard disks, while one hard disk is only included in one HDD Group.
- Each channel is only corresponding with one HDD Group, while one HDD Group can store records from several channels.
- HDD Group is only available for read-write HDD and self-defined disks, other types of hard disks cannot be set as HDD Group.

Important:

- Current series software version can only set the HDD group operation of the read-write HDDs. It is not for the redundancy HDD or read-only HDD.

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HDD Setting

Click the button 'HDD Settings' at the top right corner of the Figure 5-43, system will pop up an interface as below. See Figure 5-45.

- **HDD:** Here you can view the HDD amount the device can support. If there is a mark  in the front of the number, it means current position has installed a HDD.
- **HDD Group:** It lists the HDD Group number of current hard disk.

When you are setting the HDD Group, please check the box of the hard disk, and then choose the corresponding HDD Group number and save the settings.

Note: one HDD is corresponding to one group, while one group can have many HDDs. The HDD group No. is corresponding HDD port, the HDD group No. may vary if you change the HDD.

In Figure 5-45, you can see the system has two working hard disks at the first and second position, and the first hard disk belongs to HDD Group 1, the second hard disk belongs to HDD Group 2.

Important

Once you change the HDD Group settings, system will reboot!



Figure 5-45

Channels Setting

Click the button named with "Channels Settings" at the top right corner of the Figure 5-43, system will pop up an interface shown as in Figure 5-46.

- **Channel:** Here you can view the actual channel amount of the device.
- **Group No:** It is the SN in the HDD group management. Here we can set HDD 1 and HDD 2 sets to as HDD group 1 and HDD group 2 respectively. You can see the HDD group option has only two options 1 and 2 when you set corresponding HDD group of the channel.

When you set the channel setup, please select the corresponding channel such as 1 and 2, and then select the HDD group such as 1. Click the Save button, you can complete the setup.

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In the Figure 5-46, you set channel 1 and channel 3 to the corresponding HDD group2 and set channel 2 and channel 4 to channel 16 to HDD group 1. In this setup, the records from channel 1 and channel 3 are both saved in HDD of the group 2. The records from channel 2 and channel 4 to channel 16 are all saved in HDD of the group 1.

When you are setting the configurations of the channels setting, please select relevant channels first (such as channel 1 to 16), and then select the HDD Group NO. Please click the Save button to save current setup.

Important: Once you change the HDD Group settings, system will pack the records and then reboots system!

Tips: There is an easy way for you to test whether the records from the corresponding channel are saved in the specified HDD. You can remove the HDD and then check the channel can record or not. You can see the channel does not record and you can not search the previous record now.



Figure 5-46

Channel Quota

Please note only the product of the quota setup icon supports this function.

Here you can set channel storage capacity. See Figure 5-47.

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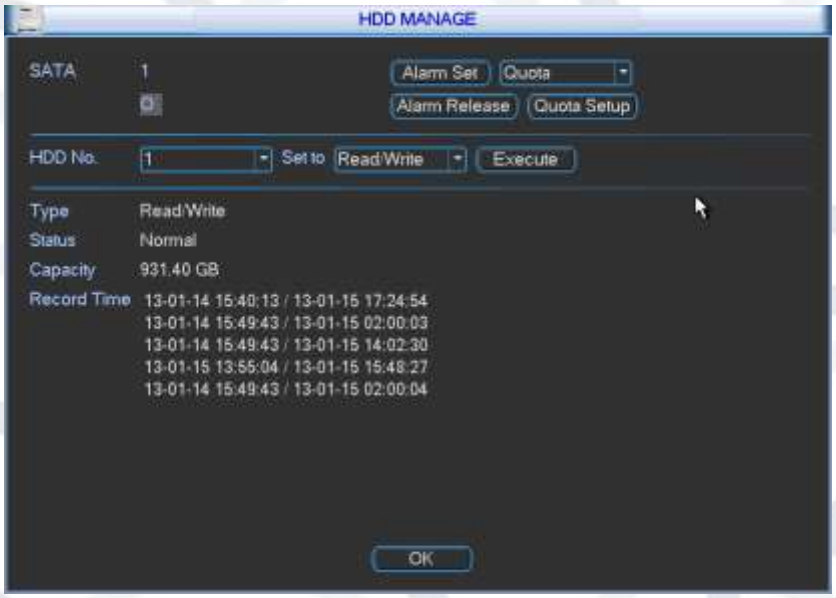


Figure 5-47

Click Quota Setup button, you can go to Figure 5-48. Here you can set the each channel storage capacity in each HDD.

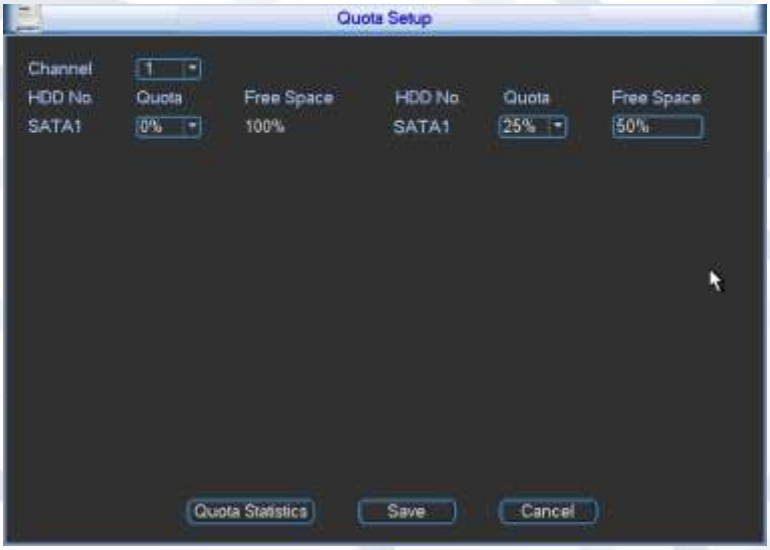


Figure 5-48

Click Quota Statistics, you can go to the following interface. You can view HDD capacity you set for each channel. See Figure 5-49.

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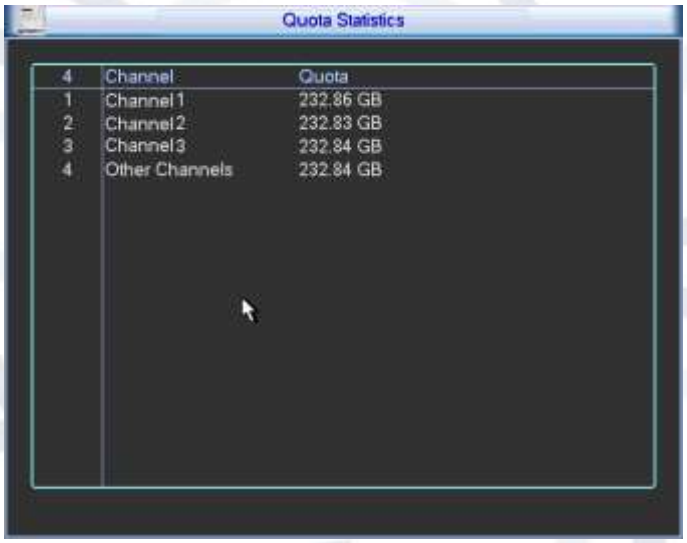


Figure 5-49

5.5.2 Abnormality

Abnormality interface is shown as in Figure 5-50.

- **Event type:** There are several options for you such as disk error, no disk, disconnection, IP conflict, MAC conflict and etc.
- **Alarm output:** Please select alarm activation output port (multiple choices).
- **Latch:** Here you can set corresponding delaying time. The value ranges from 10s-300s. System automatically delays specified seconds in turning off alarm and activated output after external alarm cancelled.
- **Show message:** system can pop up the message in the local screen to alert you when alarm occurs.
- **Alarm upload:** System can upload the alarm signal to the network (including alarm centre) if you enabled current function.
- **Send email:** System can send out email to alert you when alarm occurs.
- **Buzzer:** Highlight the icon to enable this function. The buzzer beeps when alarm occurs.

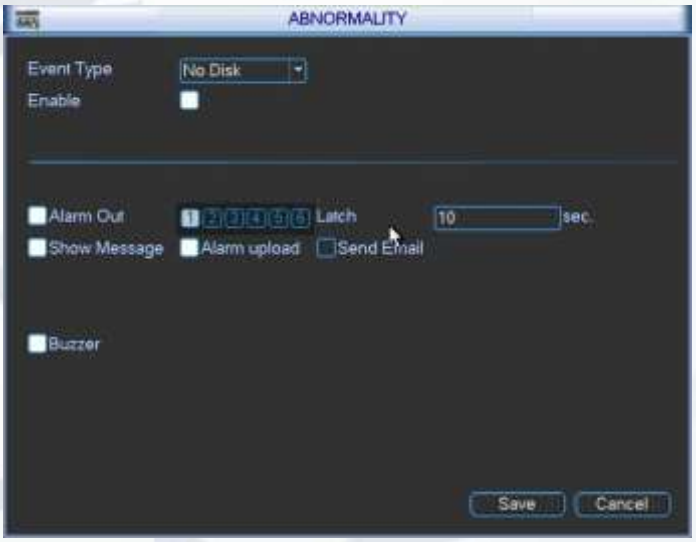


Figure 5-50

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5.5.3 Alarm Output

Here is for you to set proper alarm output.

Please highlight icon to select the corresponding alarm output.

After all the setups please click OK button, system goes back to the previous menu. See Figure 5-51.

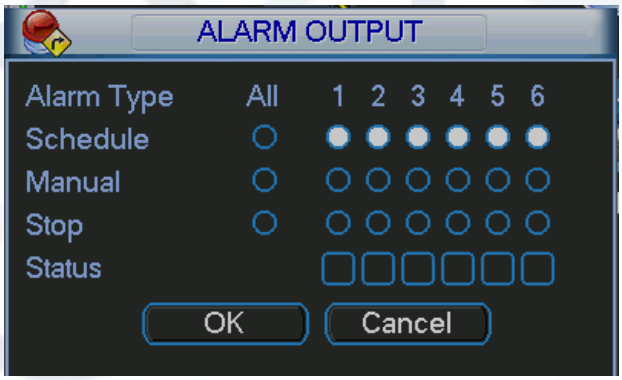


Figure 5-51

5.5.4 Manual Record

Please refer to chapter 4.3 manual record.

5.5.5 Account

Here is for you to implement account management. See Figure 5-52. Here you can:

- Add new user
- Modify user
- Add group
- Modify group
- Modify password.

For account management please note:

- For the user account name and the user group, the string max length is 6-byte. The backspace in front of or at the back of the string is invalid. There can be backspace in the middle. The string includes the valid character, letter, number, underline, subtraction sign, and dot.
- System account adopts two-level management: group and user. System max supports 20 user groups and 64 users.
- For group or user management, there are two levels: admin and user.

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- One user should belong to one group. User right can not exceed group right.
- About reusable function: this function allows multiple users use the same account to login.
- About user account and MAC. When you add a new user, you can input the MAC address of current user. Only the user of the same MAC address can access the device remotely.(MAC address is for the device of the same LAN.) If you leave MAC address item in blank when you add a new user, the user of any MAC address can access the device remotely. You can set or change MAC address when you add or modify a user. The MAC address function is also valid for PSS login.

Please note: current function does not support IPV6.

After all the setups please click save button, system goes back to the previous menu.

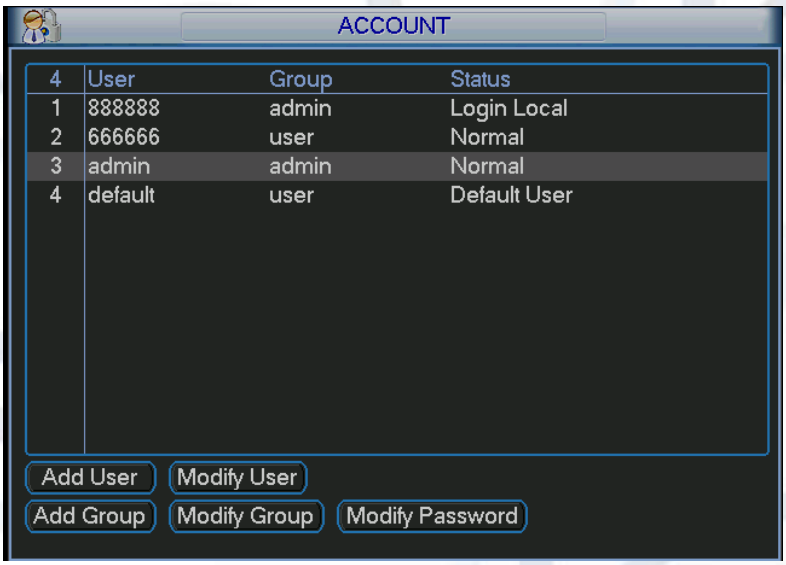


Figure 5-52

5.5.5.1 Modify Password

Click password button, the interface is shown as in Figure 5-53. Here you can modify account password.

Please select the account from the dropdown list, input the old password and then input the new password twice. Click the Save button to confirm current modification.

For the users of user account right, it can modify password of other users.

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Figure 5-53

5.5.5.2 Add/Modify Group

Click add group button, the interface is shown as below. See Figure 5-54.

Here you can input group name and then input some memo information if necessary.

There are total 60 rights such as control panel, shut down, real-time monitor, playback, record, record file backup, PTZ, user account, system information view, alarm input/output setup, system setup, log view, clear log, upgrade system, control device and etc.

The modify group interface is similar to the Figure 5-54.



Figure 5-54

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5.5.5.3 Add/Modify User

Click add user button, the interface is shown as in Figure 5-55.

Please input the user name, password, user MAC address and select the group it belongs to from the dropdown list. Then you can check the corresponding rights for current user.

For convenient user management, usually we recommend the general user right is lower than the admin account.

The modify user interface is similar to Figure 5-55.

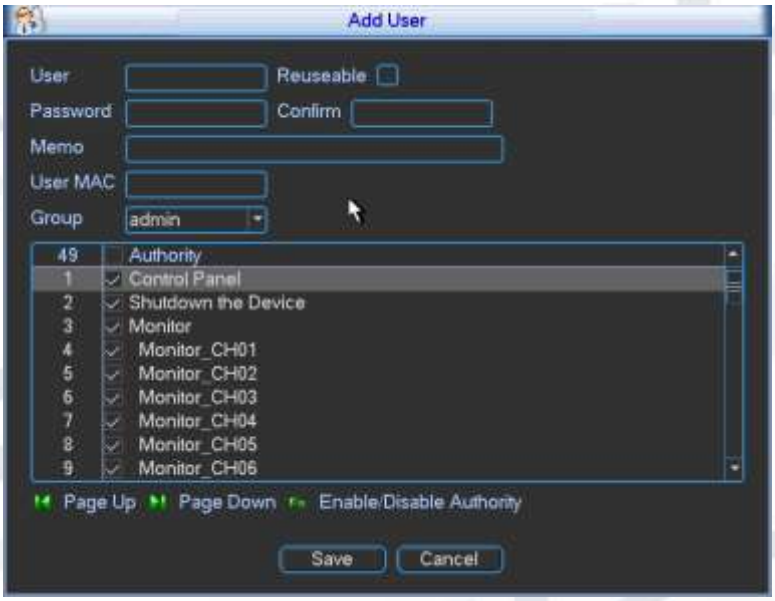


Figure 5-55

When you create a new user, you can input the corresponding MAC address of current user. If you leave this item in blank, any MAC address user can share this user account to login. Please note system needs to check the validity of MAC. Only the 12-digit 0-f format address can pass the validity verification. System only saves small character even you input capitalized one. You can see the corresponding prompt if there is any illegal input.

5.5.6 Auto Maintenance

Here you can set auto-reboot time and auto-delete old files setup. You can set to delete the files for the specified days. See Figure 5-56.

You can select proper setup from dropdown list.

After all the setups please click save button, system goes back to the previous menu.

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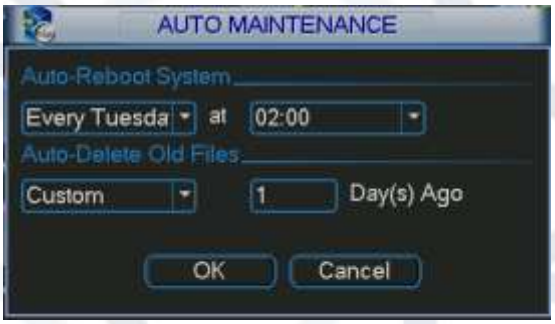


Figure 5-56

5.5.7 TV Adjust

Here is for you to adjust TV output setup. See Figure 5-57.

Please drag slide bar to adjust each item.

After all the setups please click OK button, system goes back to the previous menu.

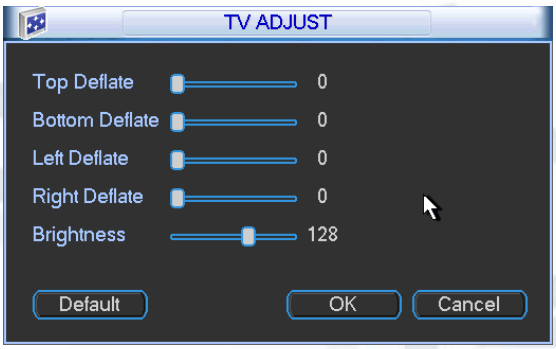


Figure 5-57

5.5.8 Video Matrix

Here you can set matrix output channel and its interval. See Figure 5-58.

It can support the 1/4/9/16-window sport tour and you can specify the interval.

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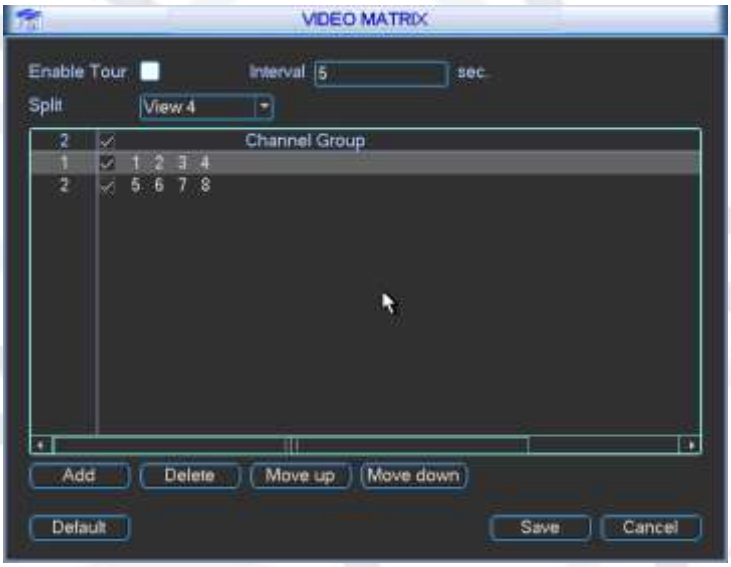


Figure 5-58

5.5.9 Card Overlay

The card overlay function is for financial areas. It includes Sniffer, information analysis and title overlay function. The Sniffer mode includes COM and network.

5.5.9.1 COM Type

The COM interface is shown as below. See Figure 5-59.

- **Protocol:** Please select from the dropdown list.
- **Setting:** Click COM setting button, the interface is shown as in RS232 interface. Please refer to Chapter 5.3.4 RS232.
- **Overlay channel:** Please select the channel you want to overlay the card number.
- **Overlay mode:** There are two options: preview and encode. Preview means overlay the card number in the local monitor video. Encode means overlay the card number in the record file.
- **Overlay Position:** Here you can select the proper overlay position from the dropdown list.

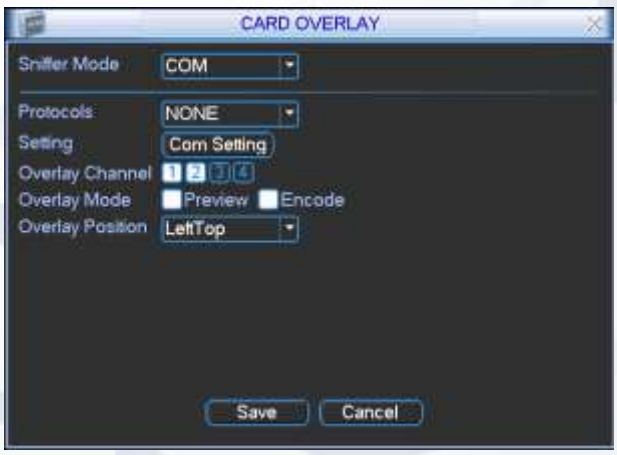


Figure 5-59

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5.5.9.2 Network Type

The network type interface is shown as below. See Figure 5-60.

Here we take the ATM/POS protocol to continue.

There are two types: with or without the protocol according to client's requirements.

With the protocol
For ATM/POS with the protocol, you just need to set the source IP, destination IP (sometimes you need to input corresponding port number).

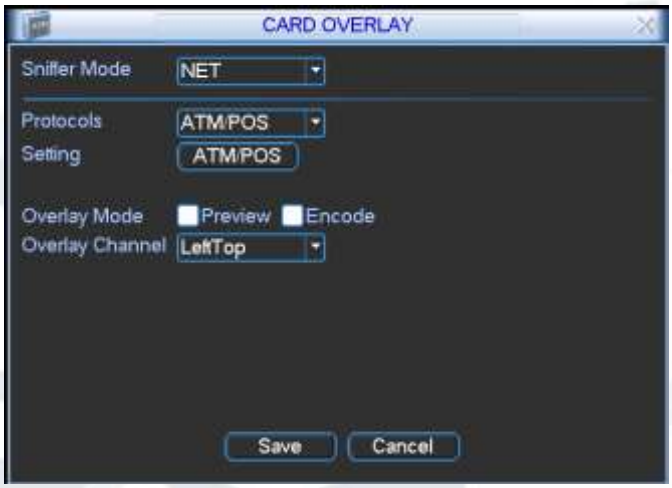


Figure 5-60

Without the protocol
For the ATM/POS without the protocol, the interface is shown as in Figure 5-61.
Source IP refers to host IP address that sends out information (usually it is the device host.)

Destination IP refers to other systems that receive information.

Usually you do not need to set source port and target port.

There are total four groups IP. The record channel applies to one group (optional) only.
Six frame ID groups verification can guarantee information validity and legal.

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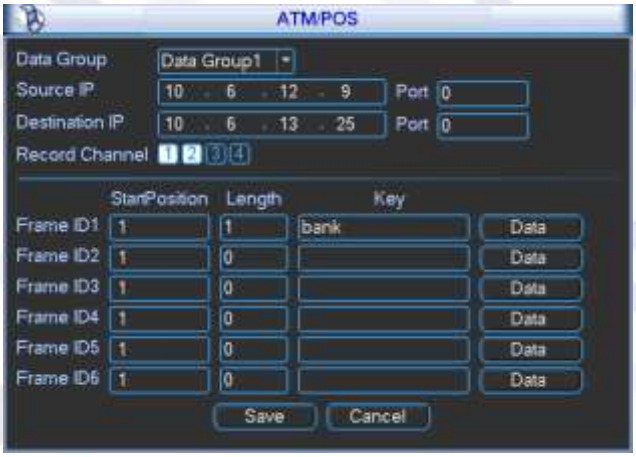


Figure 5-61

Click Data button you can see an interface is shown as in Figure 5-62.

Here you can set offset value, length, title according to your communication protocol and data package. .

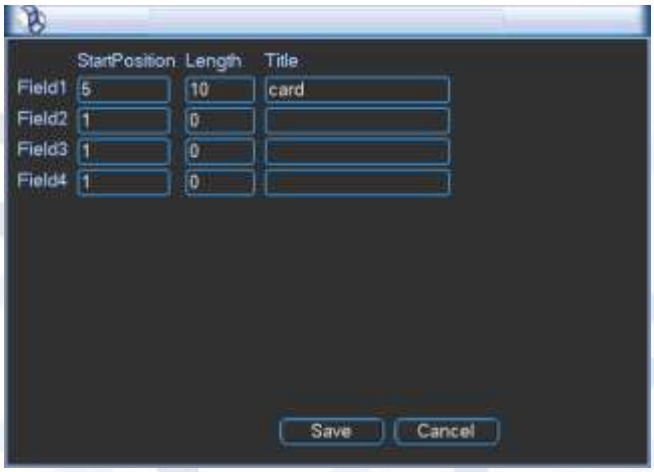


Figure 5-62

5.5.10 Config Backup

The configuration file backup interface is shown as below. See Figure 5-63.

This function allows you to import/export system configuration. You can use this function when there are several devices need the same setup.

- **Export:** Please connect the peripheral device first and then go to the following interface. Click Export button, you can see there is a corresponding “Config_Time” folder. Double click the folder, you can view some backup files.
- **Import:** Here you can import the configuration files from the peripheral device to current device. You need to select a folder first. You can see a dialogue box asking you to select a folder if you are selecting a file. System pops up a dialogue box if there is no configuration

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file under current folder. After successfully import, system needs to reboot to activate new setup.

- **Format:** Click Format button, system pops up a dialogue box for you to confirm current operation. System begins format process after you click the OK button.

Note:

- System can not open config backup interface again if there is backup operation in the process.
- System refreshes device when you go to the config backup every time and set current directory as the root directory of the peripheral device.
- If you go to the configuration backup interface first and then insert the peripheral device, please click Refresh button to see the newly added device.

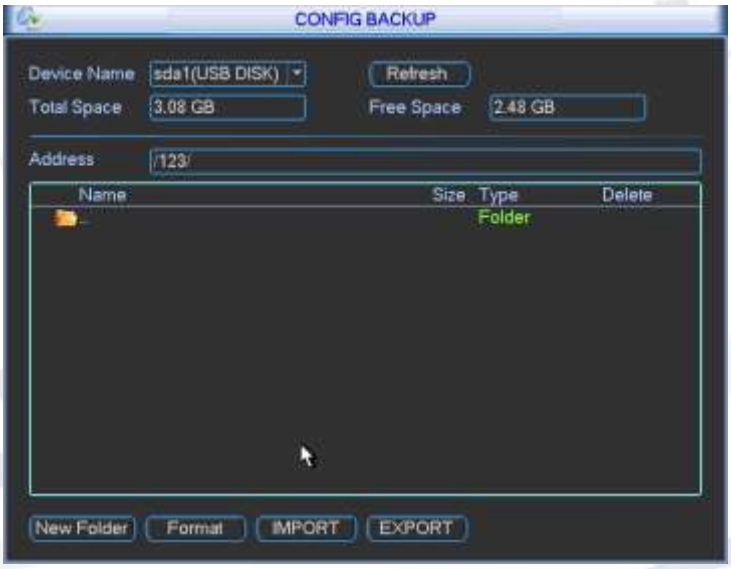


Figure 5-63

5.6 Information

Here is for you to view system information. There are total six items: HDD (hard disk information), BPS (data stream statistics), log, version, online user and network information. See Figure 5-64.



Figure 5-64

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5.6.1 HDD Information

Here is to list hard disk type, total space, free space, video start time and status. See See Figure 5-65.○ means current HDD is normal. X means there is error. - means there is no HDD.

If disk is damaged, system shows as “?”. Please remove the broken hard disk before you add a new one.

Once there is a hard disk confliction, please check hard disk time and system time is the same or not. Please go to setting then general to modify system time. At last, reboot the system to solve this problem.

After system booted up, if there is any confliction, system goes to HDD information interface directly. Please note, system does not ask you to deal with it forcedly.

When HDD confliction occurs, you can check system time and HDD time are identical or not. If they are not identical, please go to General (Chapter 5.3.1) to adjust system time or go to HDD Management (Chapter 5.5.1) to format HDD and then reboot the DVR.

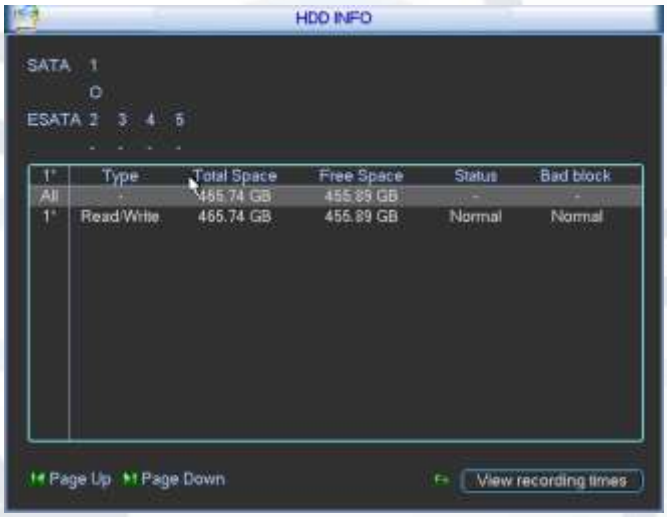


Figure 5-65

Tips: Please click Fn button or left click mouse to view HDD record time and HDD type and time.

Double click the HDD information; you will see the HDD SMART information.

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5.6.2 BPS

Here is for you to view current video data stream (KB/s) and occupied hard disk storage (MB/h). See Figure 5-66.

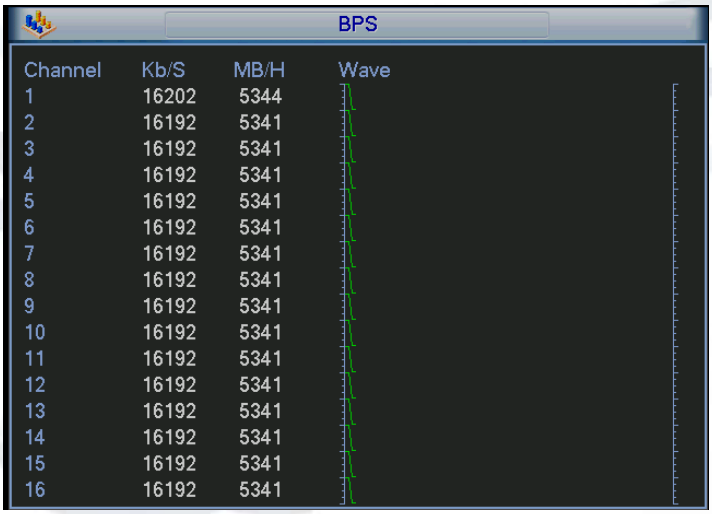


Figure 5-66

5.6.3 Log

Here is for you to view system log file. System lists the following information. See Figure 5-67.

Log types include system operation, system configuration, data management, alarm event, record operation, log clear, file operation and etc.

- **Start time/end time:** Please select start time and end time, then click search button. You can view the log files in a list. System max displays 100 logs in one page. It can max save 1024 log files. Please use page up/down button on the interface or the front panel to view more.
- **Backup:** Please select a folder you want to save; you can click the backup button to save the log files. After the backup, you can see there is a folder named Log_time on the backup path. Double click the folder, you can see the log file
- **Details:** Click the Details button or double click the log item, you can view the detailed information. See Figure 5-68. Here you can use rolling bar to view information, or you can use Page up/Page down to view other log information. For the alarm event log such as video loss, you can click the Playback button at the bottom right corner to playback.

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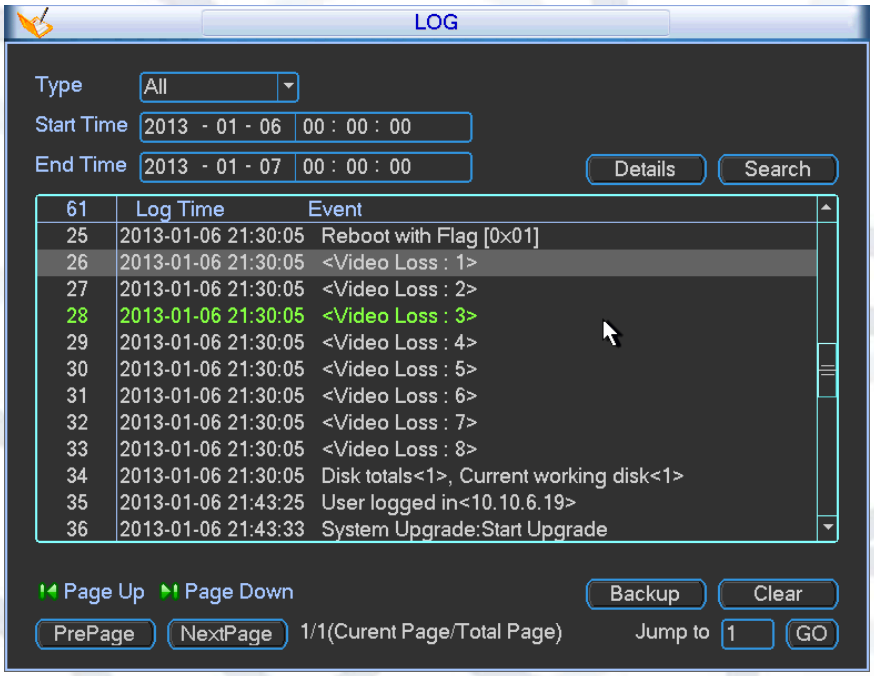


Figure 5-67

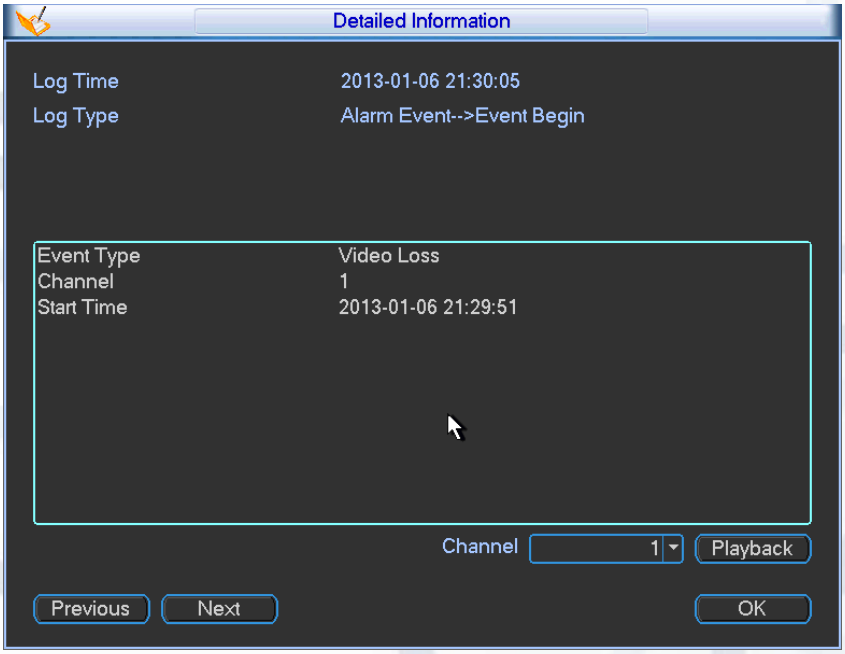


Figure 5-68

5.6.4 Version

This section is for you to view hardware features, software version, built date, release SN information and etc. You can also update system here. See Figure 5-69.

- **Start:** Please insert the USB device that have the update file to the device and then click the Start button to begin the update.

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Important: Please make sure the upgrade file name is 'update.bin'.



Figure 5-69

5.6.5 Online Users

This section is for you to manage online users. See Figure 5-70.

You can disconnect one user or block one user if you have proper system right. Max disconnection setup is 65535 seconds.

System refreshes current interface every five seconds to detect there is any newly added or deleted user.

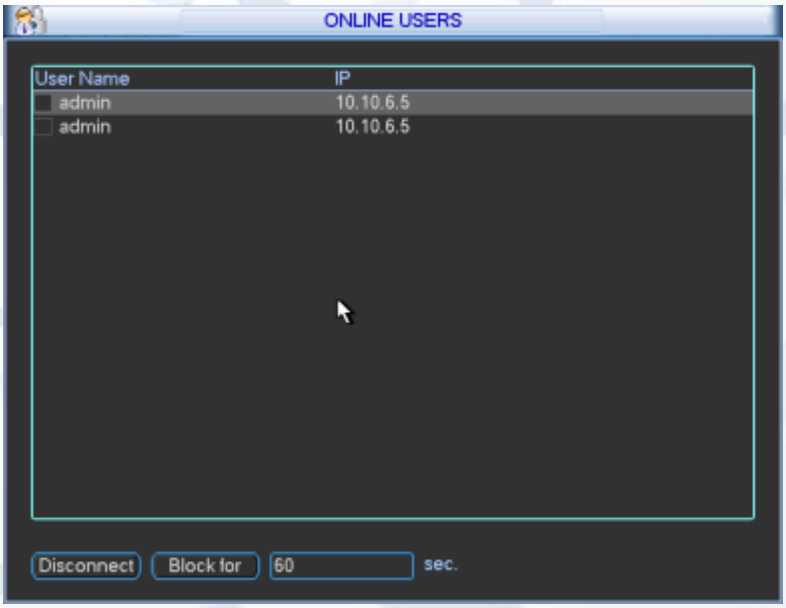


Figure 5-70

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5.6.6 Network Information

In this interface, you can see network test and network load information.

5.6.7 Network Test

Network test interface is shown as in Figure 5-71.

- **Destination IP:** Please input valid IPV4 address and domain name.
- **Test:** Click it to test the connection with the destination IP address. The test results can display average delay and packet loss rate and you can also view the network status as OK, bad, no connection and etc.
- **Network Sniffer backup:** Please insert USB2.0 device and click the Refresh button, you can view the device on the following column. You can use the dropdown list to select peripheral device. Click Browse button to select the snap path. The steps here are same as preview backup operation.

You can view all connected network adapter names (including Ethernet, PPPoE, WIFI, and 3G), you can click the button  on the right panel to begin Sniffer. Click the grey stop button to stop. Please note system can not Sniffer several network adapters at the same time.

After Sniffer began, you can exit to implement corresponding network operation such as login WEB, monitor. Please go back to Sniffer interface to click  stop Sniffer. System can save the packets to the specified path. The file is named after “Network adapter name+time”. You can use software such as Wireshark to open the packets on the PC for the professional engineer to solve complicated problems.

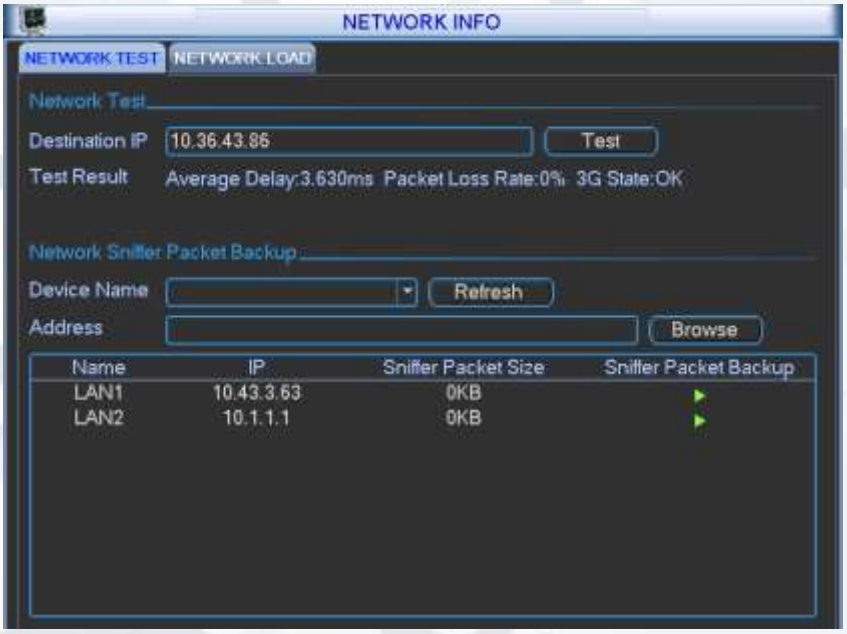


Figure 5-71

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5.6.8 Network Load

Network load is shown as in Figure 5-72. Here you can view the follow statistics of the device network adapter.

Here you can view information of all connected network adapters. The connection status is shown as offline if connection is disconnected. Click one network adapter, you can view the flow statistics such as send rate and receive rate at the top panel

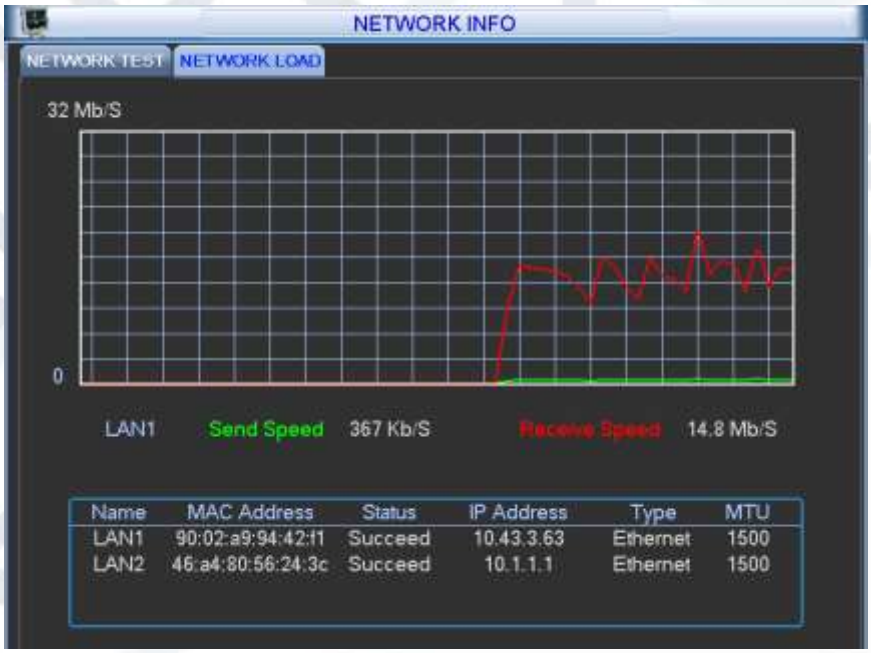


Figure 5-72

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5.7 Shutdown

Double click shutdown button, system pops up a dialogue box for you to select. See Figure 5-73

- **Logout menu user:** log out menu. You need to input password when you login the next time.
- **Restart application:** reboot DVR.
- **Shutdown:** system shuts down and turns off power.
- **Restart system:** system begins rebooting.
- **Switch user:** you can use another account to log in.

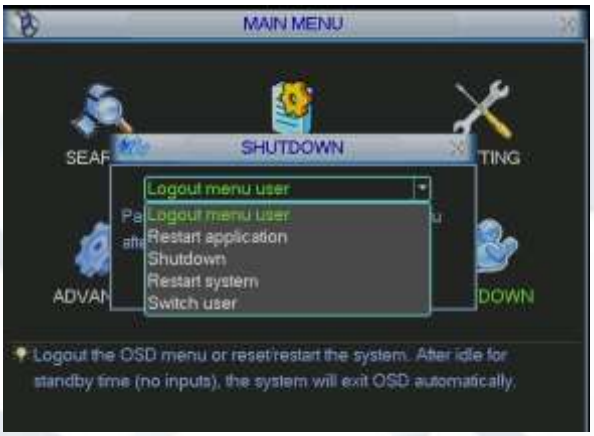


Figure 5-73

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6 About Auxiliary Menu

6.1 Go to Pan/Tilt/Zoom Menu

In the one-window surveillance mode, right click mouse (click “fn” Button in the front panel or click AUX key in the remote control). The interface is shown as below: See Figure 6-1.



Figure 6-1

Click Pan/Tilt/Zoom, the interface is shown as in Figure 6-2.

Here you can set the following items:

- Zoom
- Focus
- Iris

Please click icon and to adjust zoom, focus and Iris.



Figure 6-2

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In Figure 6-2, please click direction arrows (See Figure 6-3) to adjust PTZ position. There are totally eight direction arrows. (Please note there are only four direction arrows in DVR front panel.)



Figure 6-3

6.1.1 3D Intelligent Positioning Key

In the middle of the eight direction arrows, there is a 3D intelligent positioning key. See Figure 6-4. Please make sure your protocol supports this function and you need to use mouse to control.

Click this button, system goes back to the single screen mode. Drag the mouse in the screen to adjust section size.



Figure 6-4

Here is a sheet for you reference:

Name	Function key	function	Shortcut key	Function key	function	Shortcut key
Zoom		Near			Far	
Focus		Near			Far	
Iris		close			Open	

6.2 Preset /Patrol / Pattern /Border Function

In Figure 6-2 click the set button. The interface is shown as below:

Here you can set the following items:

- Preset
- Patrol
- Pattern
- Border

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Figure 6-5

In Figure 6-2, click page switch button, you can see an interface as in Figure 6-6.

Here you can activate the following functions:

- Preset
- Tour(Patrol)
- Pattern
- Auto scan
- Auto pan
- Flip
- Page Switch

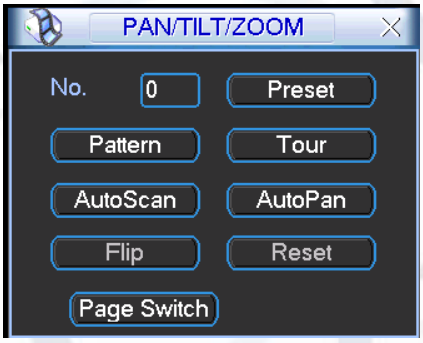


Figure 6-6

6.2.1 Preset Setup

Note: The following setups are usually operated in the Figure 6-2, Figure 6-5 and Figure 6-6.

In Figure 6-2, use the eight direction arrows to adjust camera to the proper position.

In Figure 6-5, click preset button and input preset number. The interface is shown as in Figure 6-7.

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Add this preset to one patrol number:



Figure 6-7

6.2.2 Activate Preset

In Figure 6-6 please input preset number in the No. blank, and click preset button.

6.2.3 Patrol Setup

In Figure 6-5, click the patrol button. The interface is shown as in Figure 6-8.
Input preset number and then add this preset to one patrol.



Figure 6-8

6.2.4 Activate Patrol

In Figure 6-6, input patrol number in the No. blank and click patrol button

6.2.5 Pattern Setup

In Figure 6-5, click pattern button and then click begin button. The interface shows like Figure 6-9. Please go to Figure 6-2 to modify zoom, focus, and iris. Go back to Figure 6-9 and click end button.

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You can memorise all these setups as pattern 1:



Figure 6-9

6.2.6 Activate Pattern Function

In Figure 6-6 input mode value in the No. blank, and click pattern button.

6.2.7 Border Setup

When in Figure 6-5, click the border button. The interface is shown as in Figure 6-10.

Please go to Figure 6-2, use direction arrows to select camera left limit, and then please go to Figure 6-10 and click left limit button.

Repeat the above procedures to set right limit.



Figure 6-10

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6.2.8 Activate Border Function

In Figure 6-6, click auto scan button, the system begins auto scan. Correspondingly, the auto scan button changes to stop button.

Click stop button to terminate scan operation.

6.2.9 Flip

In Figure 6-6, click page switch button, you can see an interface is shown as below. See Figure 6-11. Here you can set auxiliary function.

Click page switch button again, system goes back to Figure 6-2.

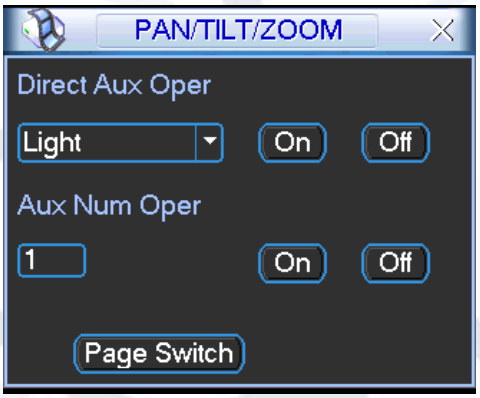


Figure 6-11

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7 WEB OPERATION

7.1 Network Connection

Before web operation, please check the following items:

- Network connection is right
- DVR and PC network setup is right. Please refer to network setup(Setup ->Network)
- Use order ping ***.***.***.*** (* DVR IP address) to check connection is OK or not. Usually the return TTL value should be less than 255.
- Open the IE and then input DVR IP address.
- System can automatically download latest web control and the new version can overwrite the previous one.
- If you want to un-install the web control, please run *uninstall webrec3.0.bat*. Or you can go to C:\Program Files\webrec to remove single folder. Please note, before you un-install, please close all web pages, otherwise the un-installation might result in error.
- Current series product supports various browsers such as Safari, firebox browser, Google browser. Device only support 1-channel monitor on the Apple PC.

7.2 Login

Open IE and input DVR address in the address column. For example, if your DVR IP is 10.10.3.16, then please input http:// 10.10.3.16 in IE address column. See Figure 7-1.

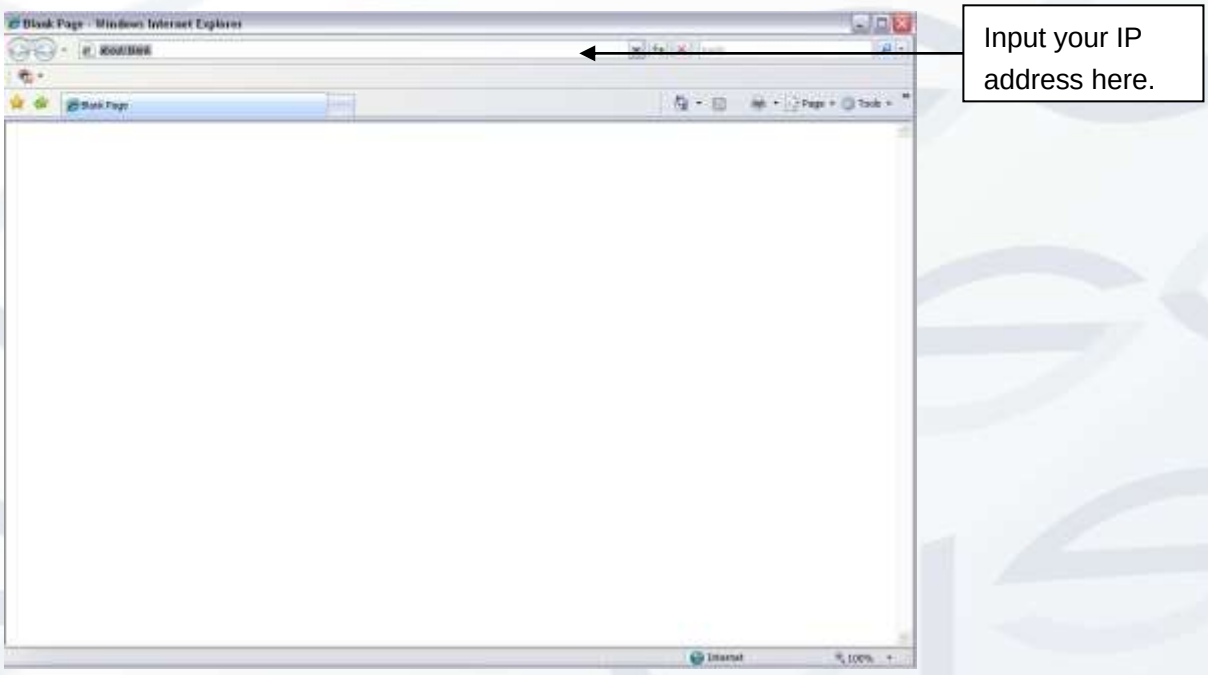


Figure 7-1

System pops up warning information to ask you whether install webrec.cab control or not. Please click yes button.

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If you can't download the ActiveX file, please modify your settings as follows. See Figure 7-2.

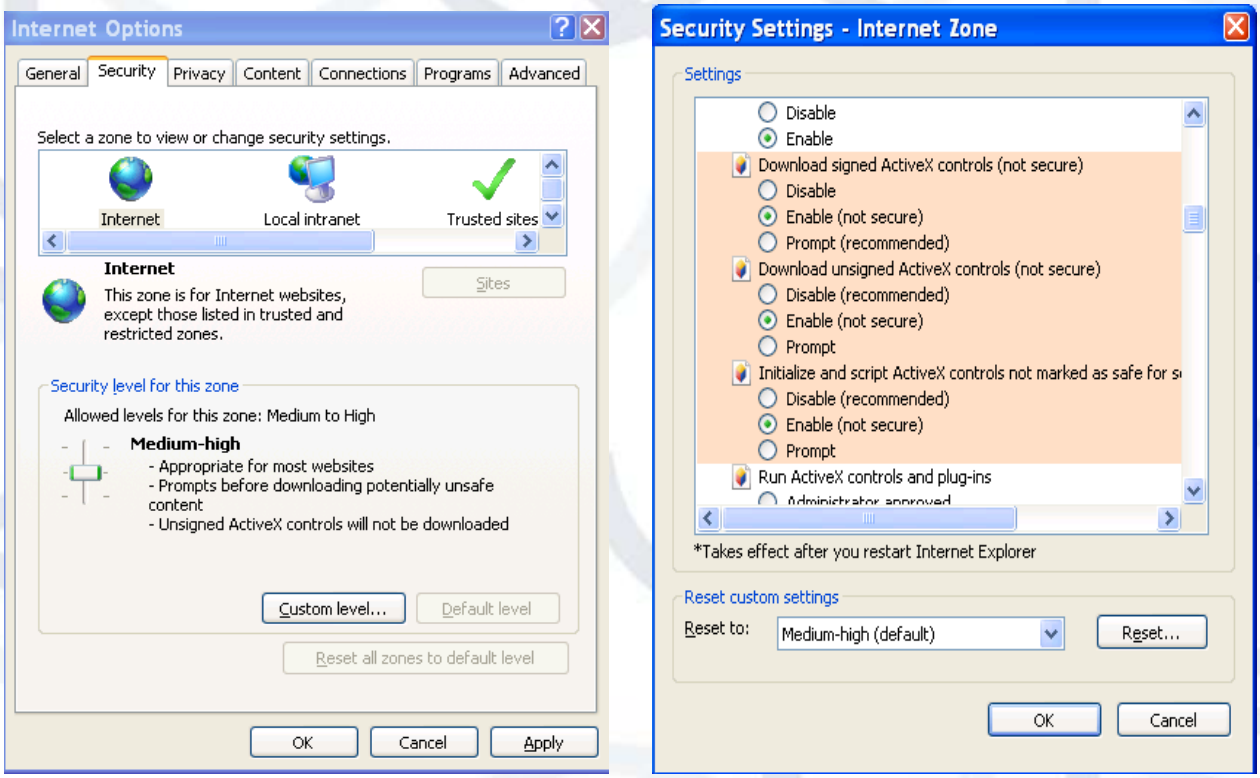


Figure 7-2

After installation, the interface is shown as below. See Figure 7-3.
Please input your user name and password.

Default factory name is **admin** and password is **admin**.

Then you can select the login mode: LAN and WAN.

Note: For security reasons, please modify your password after you first login.

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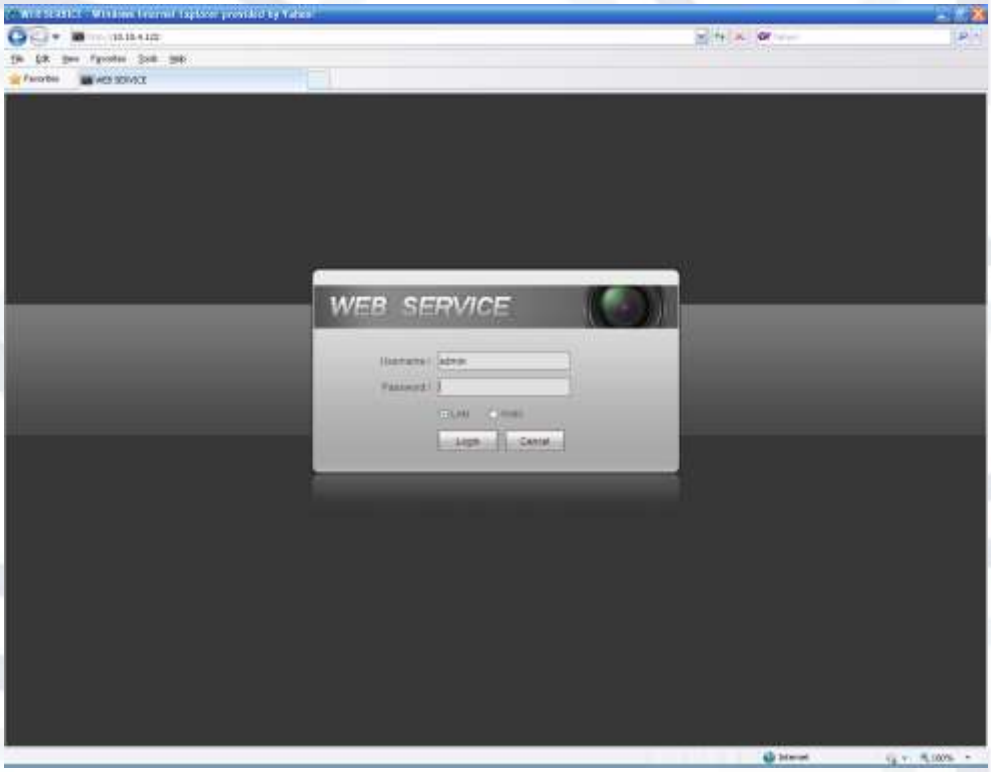


Figure 7-3

7.3 LAN Mode

For the LAN mode, after you logged in, you can see the main window. See Figure 7-9. This main window can be divided into the following sections.

- **Section 1:** there are five function buttons: Live（chapter 7.4）, setup (chapter 7.8), search (chapter 7.9), alarm (chapter 7.10), and logout (chapter 7.11).
- **Section 2:** There are channel number and one button: Start all. Start all button is to enable/disable all-channel real-time monitor. Click it the button becomes yellow. See Figure 7-4.

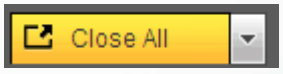


Figure 7-4

Please refer to Figure 7-5 for main stream and extra stream switch information.

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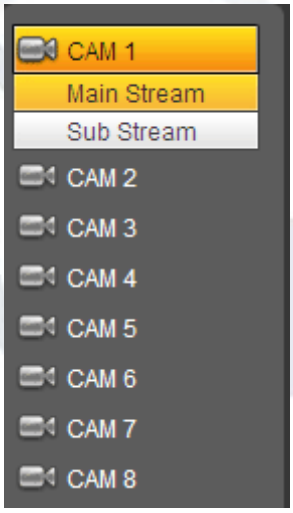


Figure 7-5

- Section 3: Start dialogue button.

You can click this button to enable audio talk. Click 【▼】 to select bidirectional talk mode.

There are four options: DEFAULT，G711a，G711u and PCM. After you enable the bidirectional talk, the Start talk button becomes End Talk button and it becomes yellow. See Figure 7-6.

Note: the audio input port from the device to the client-end is using the first channel audio input port. During the bidirectional talk process, system will not encode the audio data from the 1-channel.

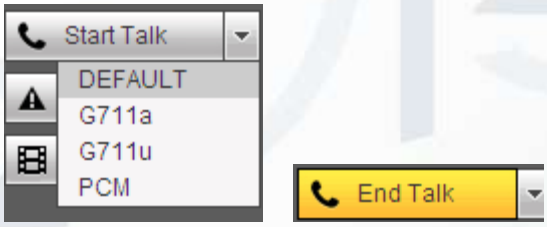


Figure 7-6

- Section 4: Instant record button. Click it, the button becomes yellow and system begins manual record. See Figure 7-7. Click it again, system restores previous record mode.

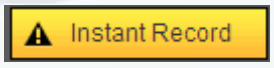


Figure 7-7

- Section 5: Local play button.

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The Web can playback the saved (Extension name is '.dav') files in the PC-end.

Click local play button, system pops up the following interface for you to select local play file. See Figure 7-8.



Figure 7-8

- **Section 6:** From the left to the right ,you can see video quality/fluency/ full screen/1-window/4-window/6-window/8-window/9-window/13-window/16-window/20-window/25-window/36-window.. You can set video fluency and real-time feature priority.
- **Section 7:** PTZ operation panel. Please refer to chapter 7.5 for detailed information.
- **Section 8:** Image setup and alarm setup. Please refer to chapter 7.6 for detailed information.

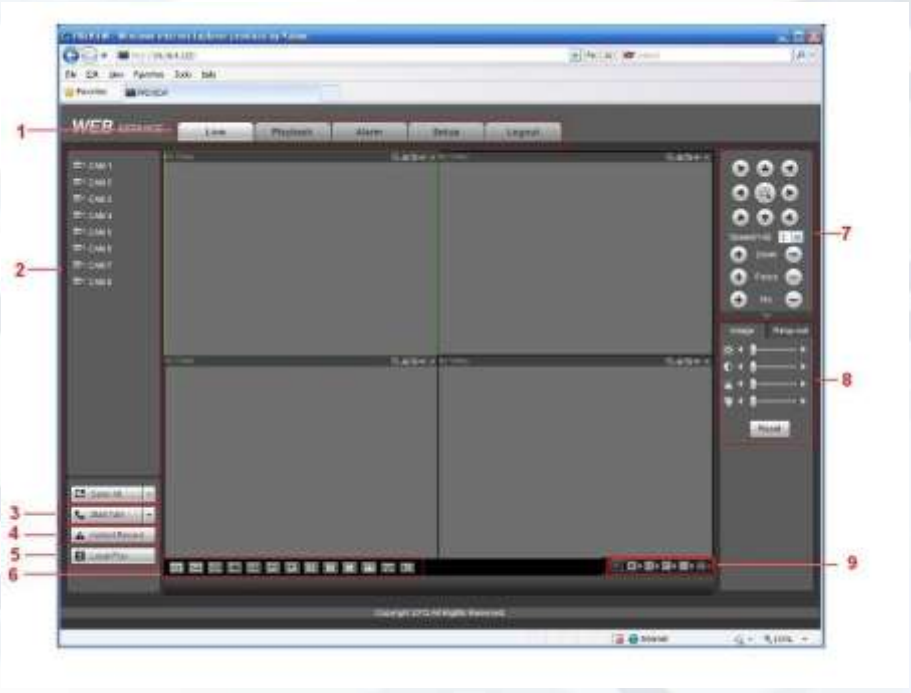


Figure 7-9

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7.4 Real-time Monitor

In section 2, left click the channel name you want to view, you can see the corresponding video in current window.

On the top left corner, you can view device IP, channel number, network monitor bit stream. See Figure 7-10.



Figure 7-10

On the top right corer, there are six Action buttons. See Figure 7-11.

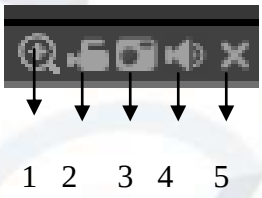


Figure 7-11

- **1: Digital zoom:** Click this button and then left drag the mouse in the zone to zoom in. right click mouse system restores original status.
- **2: Local record:** When you click local record button, the system begins recording and this button becomes highlighted. You can go to system folder RecordDownload to view the recorded file.
- **3: Snapshot picture:** You can snapshoot important video. All images are memorized in system client folder PictureDownload (default).
- **4: Audio:**Turn on or off audio.(It has no relationship with system audio setup)
- **5:** Close video.

7.5 PTZ

Before PTZ operation, please make sure you have properly set PTZ protocol. (Please refer to chapter 7.8.5.9).

There are eight direction keys. In the middle of the eight direction keys, there is a 3D intelligent positioning key.

Click 3D intelligent positioning key, system goes back to the single screen mode. Drag the mouse in the screen to adjust section size. It can realize PTZ automatically.

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Please refer to the following sheet for PTZ setup information.

Parameter	Function
Scan	● Select Scan from the dropdown list. ● Click Set button, you can set scan left and right limit. ● Use direction buttons to move the camera to you desired location and then click left limit button. Then move the camera again and then click right limit button to set a right limit.
Preset	● Select Preset from the dropdown list. ● Turn the camera to the corresponding position and Input the preset value. Click Add button to add a preset,.
Tour	● Select Tour from the dropdown list. ● Input preset value in the column. Click Add preset button, you have added one preset in the tour. ● Repeat the above procedures you can add more presets in one tour. ● Or you can click delete preset button to remove one preset from the tour.
Pattern	● Select Pattern from the dropdown list. ● You can input pattern value and then click Start button to begin PTZ movement such as zoom, focus, iris, direction and etc. Then you can click Add button to set one pattern.
Aux	● Please input the corresponding aux value here. ● You can select one option and then click AUX on or AUX off button.
Light and wiper	You can turn on or turn off the light/wiper.

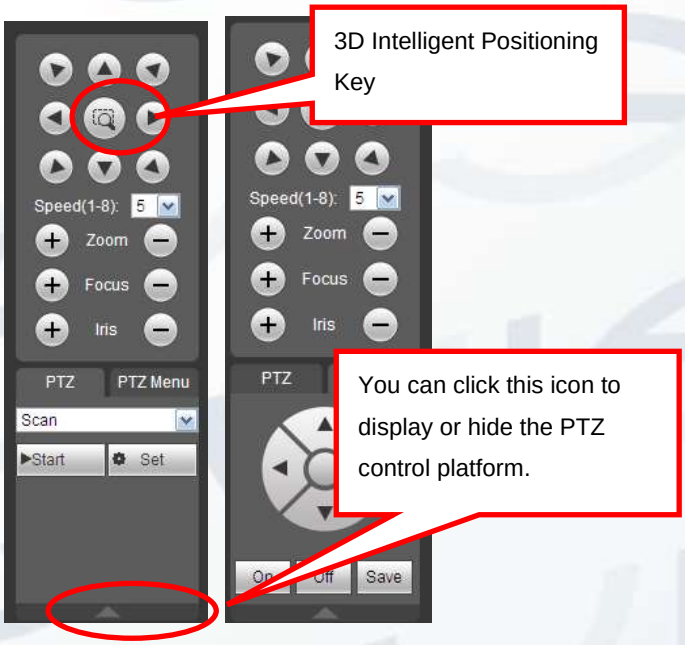


Figure 7-12

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7.6 Image/Relay-out

Select one monitor channel video and then click Image button in section 8, the interface is shown as Figure 7-13.

7.6.1 Image

Here you can adjust its brightness, contrast, hue and saturation. (Current channel border becomes green).

Or you can click Reset button to restore system default setup.

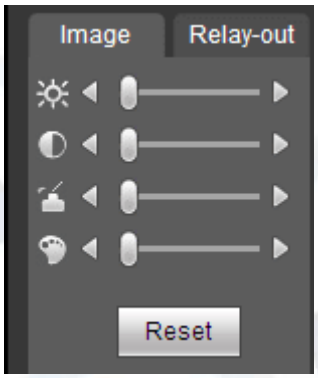


Figure 7-13

7.6.2 Relay output

Here you can select alarm output channel, the select channel alarm mode becomes manual and alarm is enabled. See Figure 7-14.



Figure 7-14

7.6.3 Multiple-channel preview

System allows you to preview several channels on one channel. It supports 1/4/8/9-window. See Figure 7-15.

Please note only the product of this icon can support current function.



Figure 7-15

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7.7 WAN Login

In WAN mode, after you logged in, the interface is shown as below. See Figure 7-16:

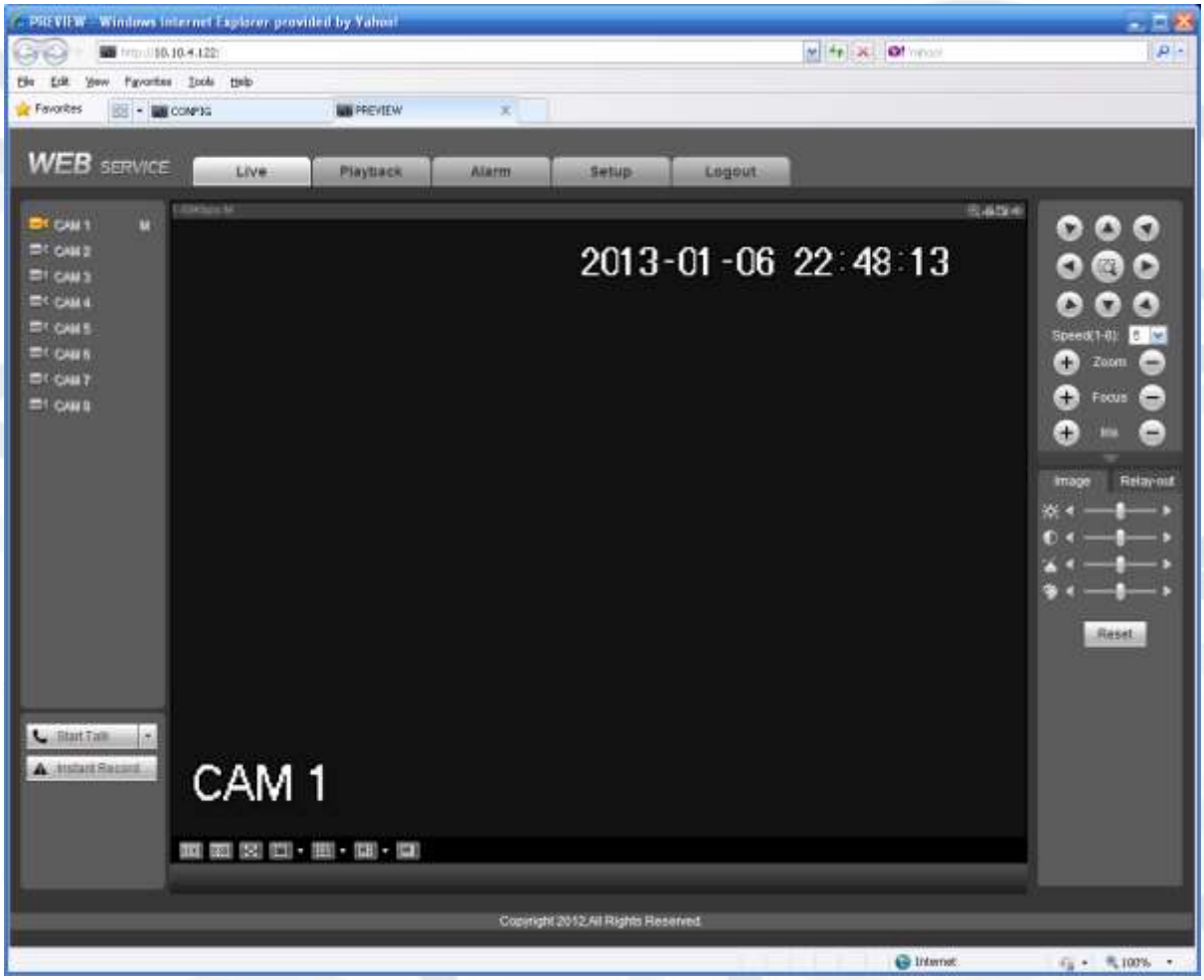


Figure 7-16

Please refer to the following contents for LAN and WAN login difference.

1) In the WAN mode, system opens the main stream of the first channel to monitor by default. The open/close button on the left pane is null.

2) You can select different channel and different monitor mode at the bottom of the interface. See Figure 7-17.

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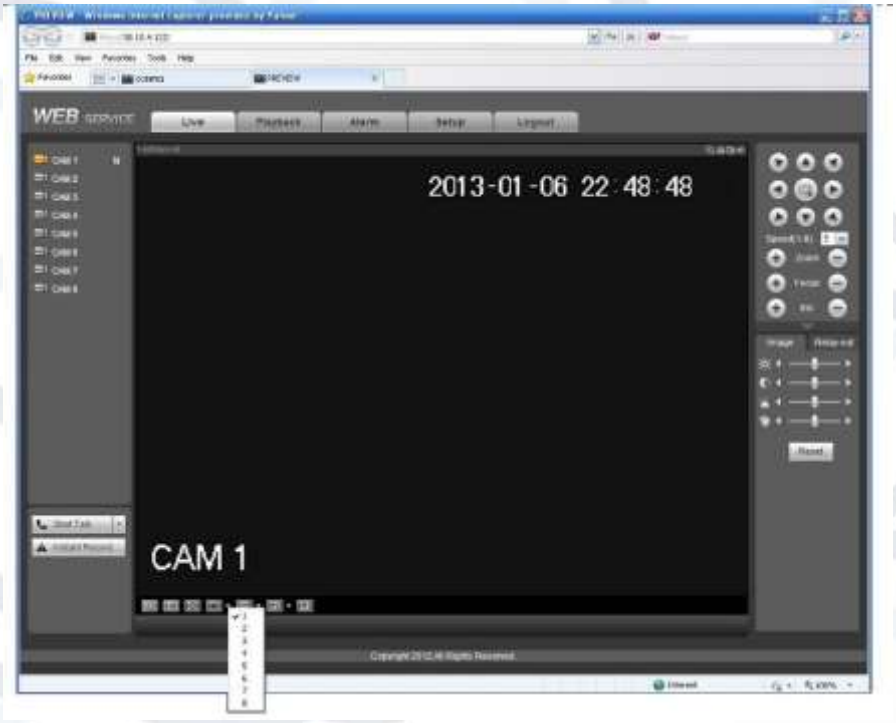


Figure 7-17

Important: The window display mode and the channel number are by default. For example, for the 16-channel, the max window split mode is 16.

3) Multiple-channel monitor, system adopts extra stream to monitor by default. Double click one channel, system switches to single channel and system uses main stream to monitor. You can view there are two icons at the left top corner of the channel number for you reference. M stands for main stream. S stands for sub stream (extra stream).

4) If you login via the WAN mode, system does not support alarm activation to open the video function in the Alarm setup interface.

Important

- For multiple-channel monitor mode, system adopts extra stream to monitor by default. You can not modify manually. All channels are trying to synchronize. Please note the synchronization effect still depends on your network environments.
- For bandwidth consideration, system can not support monitor and playback at the same time. System auto closes monitor or playback interface when you are searching setup in the configuration interface. It is to enhance search speed.

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7.8 Setup

7.8.1 Channel

7.8.1.1 Conditions

Here you can view device property information. The setups become valid immediately after you set. See Figure 7-18.



Figure 7-18

Please refer to the following sheet for detailed information:

Parameter	Function
Channel	Please select a channel from the dropdown list.
Period	It divides one day (24 hours) to two periods. You can set different hue, brightness, and contrast for different periods.
Hue	It is to adjust monitor video brightness and darkness level. The default value is 50. The bigger the value is, the large the contrast between the bright and dark section is and vice versa.
Brightness	It is to adjust monitor window brightness. The default value is 50. The larger the number is , the bright the video is. When you input the value here, the bright section and the dark section of the video will be adjusted accordingly. You can use this function when the whole video is too dark or too bright. Please note the video may become hazy if the value is too high. The value ranges from 0 to 100.The recommended value ranges from 40 to 60.

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Contrast	It is to adjust monitor window contrast. The value ranges from 0 to 100. The default value is 50. The larger the number is, the higher the contrast is. You can use this function when the whole video bright is OK but the contrast is not proper. Please note the video may become hazy if the value is too low. If this value is too high, the dark section may lack brightness while the bright section may over exposure .The recommended value ranges from 40 to 60.
Saturation	It is to adjust monitor window saturation. The value ranges from 0 to 100. The default value is 50. The larger the number is, the strong the color is. This value has no effect on the general brightness of the whole video. The video color may become too strong if the value is too high. For the grey part of the video, the distortion may occur if the white balance is not accurate. Please note the video may not be attractive if the value is too low. The recommended value ranges from 40 to 60.
Gain	The gain adjust is to set the gain value. The smaller the value is, the low the noise is. But the brightness is also too low in the dark environments. It can enhance the video brightness if the value is high. But the video noise may become too clear.
White level	It is to enhance video effect.
Color mode	It includes several modes such as standard, color. You can select corresponding color mode here, you can see hue, brightness, and contrast and etc will adjust accordingly.

7.8.1.2 Video and Audio

7.8.1.2.1 Encode

The encode interface is shown as below. See Figure 7-19.

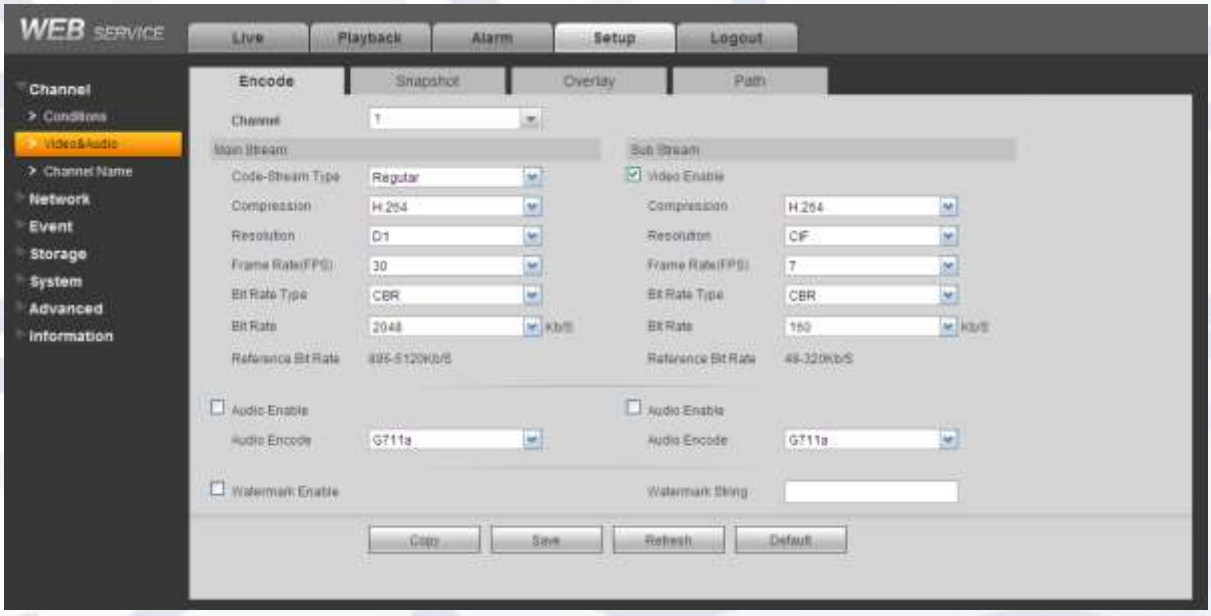


Figure 7-19

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Please refer to the following sheet for detailed information:

Parameter	Function
Channel	Please select a channel from the dropdown list.
Video enable	Check the box here to enable extra stream video. This item is enabled by default.
Code stream type	It includes main stream, motion stream and alarm stream. You can select different encode frame rates form different recorded events. System supports active control frame function (ACF). It allows you to record in different frame rates. For example, you can use high frame rate to record important events, record scheduled event in lower frame rate and it allows you to set different frame rates for motion detection record and alarm record.
Compression	The main bit stream supports H.264. The extra stream supports H.264, MJPG.
Resolution	System supports various resolutions, you can select from the dropdown list. The main stream supports D1/HD1/2CIF/CIF/QCIF and the extra stream supports CIF/QCIF. Please note the option may vary due to different series.
Frame Rate	PAL：1～25f/s；NTSC：1～30f/s.
Bit Rate	● Main stream: You can set bit rate here to change video quality. The large the bit rate is, the better the quality is. Please refer to recommend bit rate for the detailed information. ● Extra stream: In CBR, the bit rate here is the max value. In dynamic video, system needs to low frame rate or video quality to guarantee the value. The value is null in VBR mode.
Reference bit rate	Recommended bit rate value according to the resolution and frame rate you have set.
I Frame	Here you can set the P frame amount between two I frames. The value ranges from 1 to 150. Default value is 50. Recommended value is frame rate *2.
Watermark enable	This function allows you to verify the video is tampered or not. Here you can select watermark bit stream, watermark mode and watermark character. Default character is DigitalCCTV. The max length is 85-digit. The character can only include number, character and underline.

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7.8.1.2.2 Snapshot

The snapshot interface is shown as in Figure 7-20.

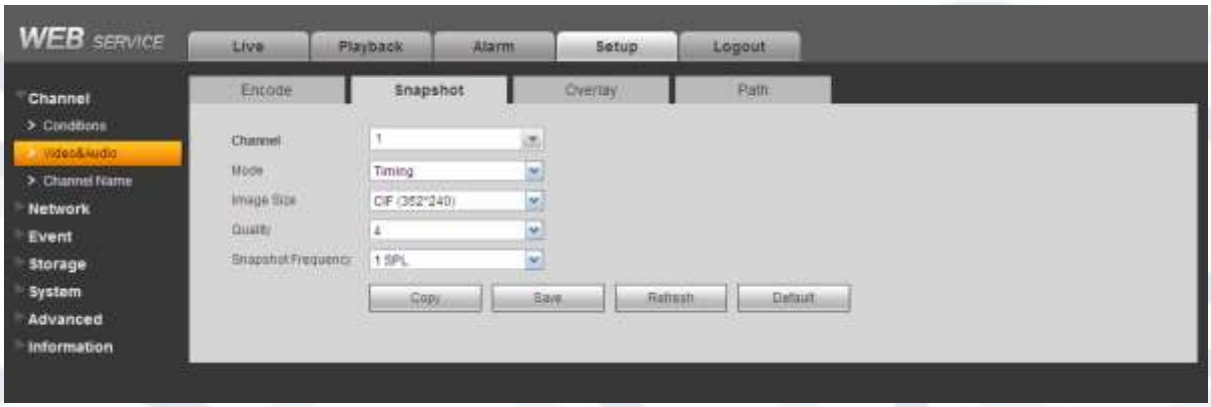


Figure 7-20

Please refer to the following sheet for detailed information:

Parameter	Function
Snapshot type	There are two modes: Timing (schedule) and Event (activation). ● Timing snapshot is valid during the specified period you set. ● Activation snapshot only is valid when motion detect alarm, camera masking alarm or local activation alarm occurs.
Image size	It is the same with the resolution of the main stream.
Quality	It is to set the image quality. There are six levels.
Interval	It is to set snapshot frequency. The value ranges from 1s to 7s.
Copy	Click it; you can copy current channel setup to other channel(s).

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7.8.1.2.3 Video Overlay

The video overlay interface is shown as in Figure 7-21.

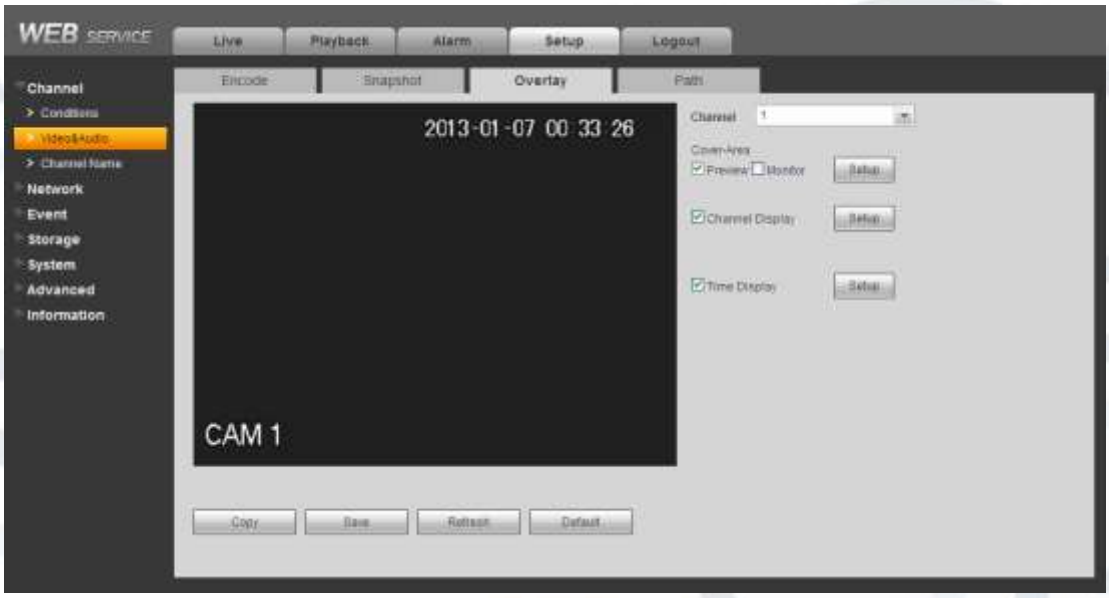


Figure 7-21

Please refer to the following sheet for detailed information:

Parameter	Function
Cover-area (Privacy mask)	Check Preview or Monitor first. Click Set button, you can privacy mask the specified video in the preview or monitor video. System max supports 4 privacy mask zones.
Time Title	You can enable this function so that system overlays time information in video window. You can use the mouse to drag the time title position. You can view time title on the live video of the WEB or the playback video.
Channel Title	You can enable this function so that system overlays channel information in video window. You can use the mouse to drag the channel title position. You can view channel title on the live video of the WEB or the playback video.

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7.8.1.2.4 Path

The storage path interface is shown as in Figure 7-22.

Here you can set snap image saved path (in the preview interface) and the record storage path (in the preview interface).The default setup is C:\PictureDownload and C:\RecordDownload.

Please click the Save button to save current setup.

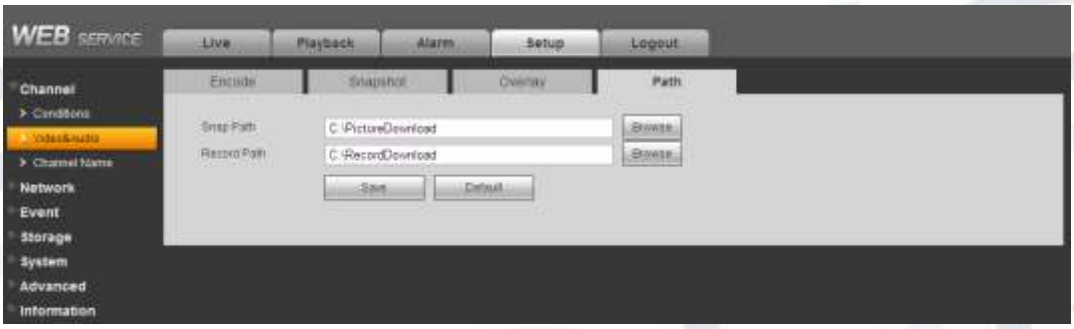


Figure 7-22

7.8.1.2.5 Channel Name

Here you can set channel name. See Figure 7-23.



Figure 7-23

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7.8.2 Network

7.8.2.1 TCP/IP

The TCP/IP interface is shown as in Figure 7-24.

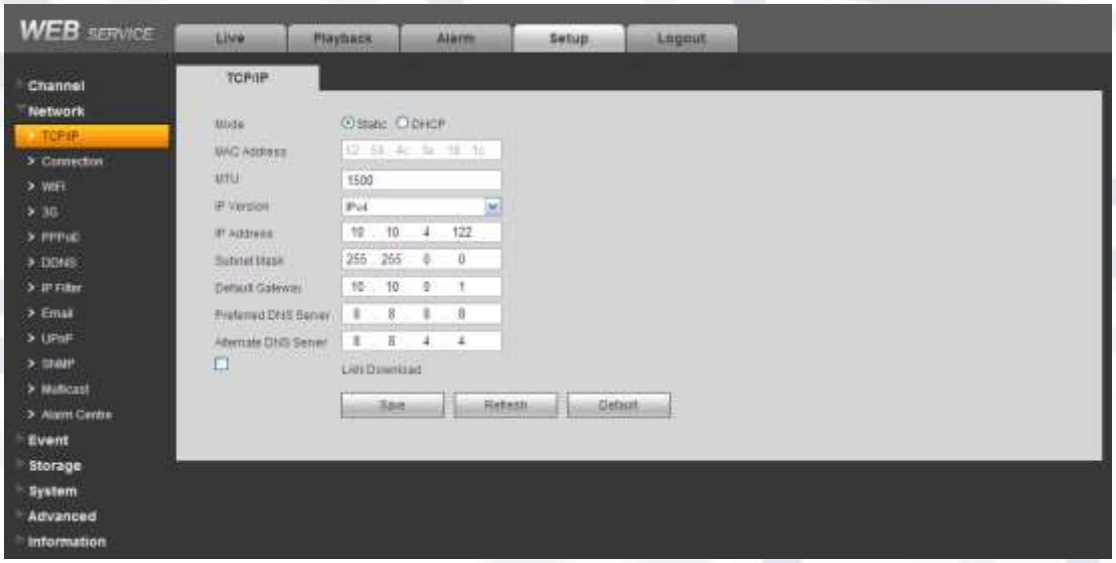


Figure 7-24

Please refer to the following sheet for detailed information:

Parameter	Function
Mode	There are two modes: static mode and the DHCP mode. ● The IP/submask/gateway are null when you select the DHCP mode to auto search the IP. ● If you select the static mode, you need to set the IP/submask/gateway manually. ● If you select the DHCP mode, you can view the IP/submask/gateway from the DHCP. ● If you switch from the DHCP mode to the static mode, you need to reset the IP parameters. ● Besides, IP/submask/gateway and DHCP are read-only when the PPPoE dial is OK.
Mac Address	It is to display host Mac address.
IP Version	It is to select IP version. IPV4 or IPV6. You can access the IP address of these two versions.
IP Address	Please use the keyboard to input the corresponding number to modify the IP address and then set the corresponding subnet mask and the default gateway.
Preferred DNS	DNS IP address.

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Alternate DNS	Alternate DNS IP address.
For the IP address of IPv6 version, default gateway, preferred DNS and alternate DNS, the input value shall be 128-digit. It shall not be left in blank.	
LAN load	System can process the downloaded data first if you enable this function. The download speed is 1.5X or 2.0X of the normal speed.

7.8.2.2 Connection

The connection interface is shown as in Figure 7-25.



Figure 7-25

Please refer to the following sheet for detailed information:

Parameter	Function
Max connection	It is the max Web connection for the same device. The value ranges from 1 to 20. The default setup is 10.
TCP port	The default value is 37777. You can input the actual port number if necessary.
UDP port	The default value is 37778. You can input the actual port number if necessary.
HTTP port	The default value is 80. You can input the actual port number if necessary.
RTSP port	The default value is 554.

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7.8.2.3 WIFI

Please note this function is for the device of WIFI module.

The WIFI interface is shown as in Figure 7-26.

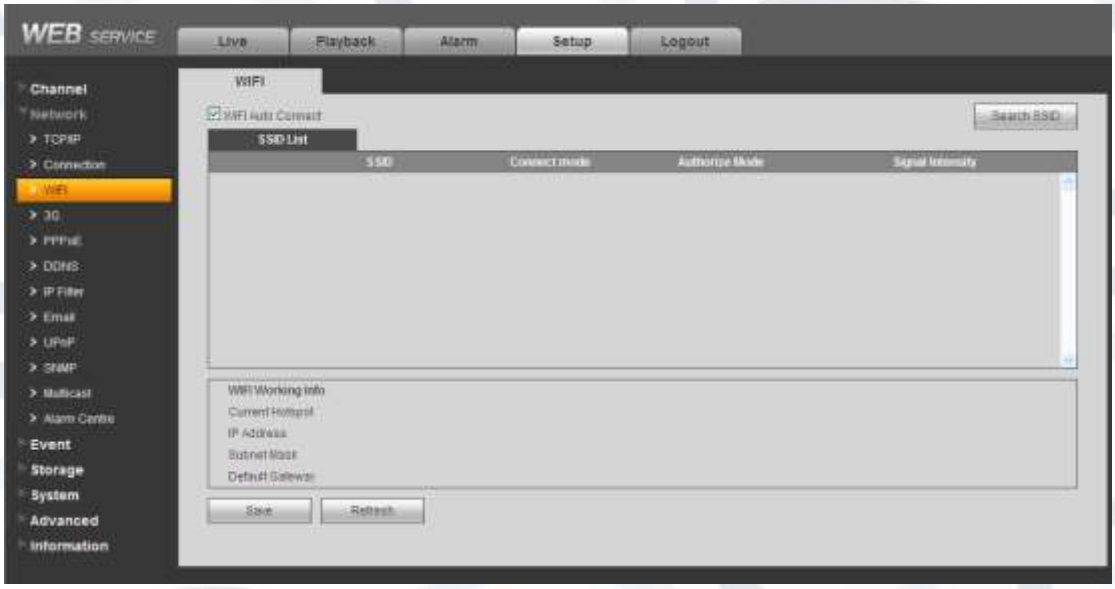


Figure 7-26

Please check the box to enable WIFI function and then click the Search SSID button. Now you can view all the wireless network information in the following list. Double click a name to connect to it. Click Refresh button, you can view latest connection status.

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7.8.2.4 3G

7.8.2.4.1 CDMA/GPRS

The CDMA/GPRS interface is shown as in Figure 7-27.

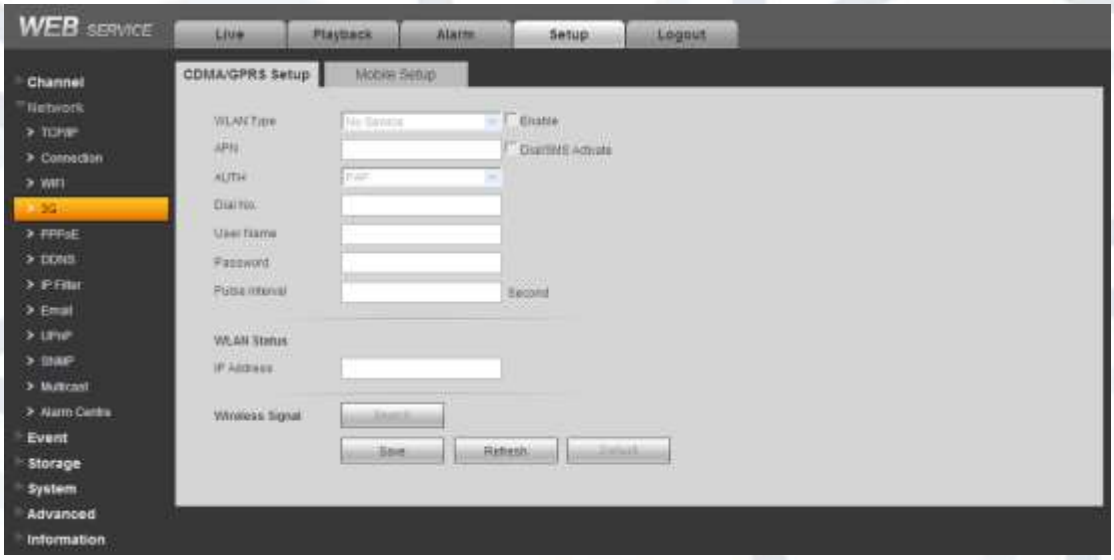


Figure 7-27

Please refer to the following sheet for detailed information:

Parameter	Function
WLAN type	Here you can select 3G network type to distinguish the 3G module from different ISP. The types include WCDMA，CDMA1x and etc.
APN/Dial No.	Here is the important parameter of PPP.
Authorization	It includes PAP,CHAP,NO_AUTH.
Pulse interval	It is to set time to end 3G connection after you close extra stream monitor. For example, if you input 60 here, system ends 3G connection after you close extra stream monitor 60 seconds.
Important • **If the pulse interval is 0, then system does not end 3G connection after you close the extra stream monitor.** • **Pulse interval here is for extra stream only. This item is null if you are using main stream to monitor.**	

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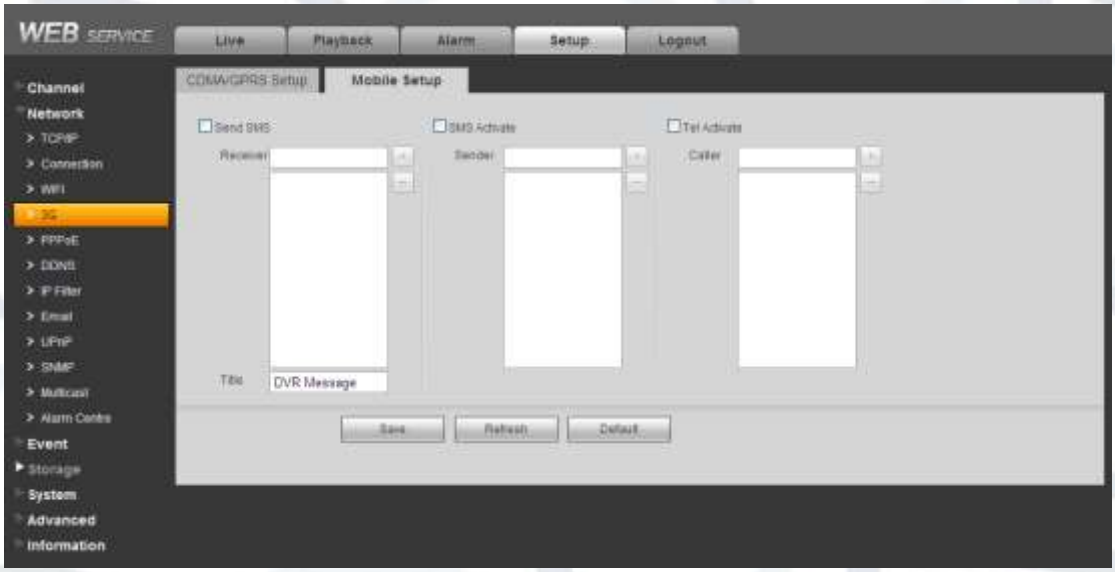


Figure 7-28

7.8.2.4.2 Mobile

The mobile setup interface is shown as in Figure 7-29.

Here you can activate or turn off the 3G connected phone or mobile phone, or the phone you set to get alarm message.

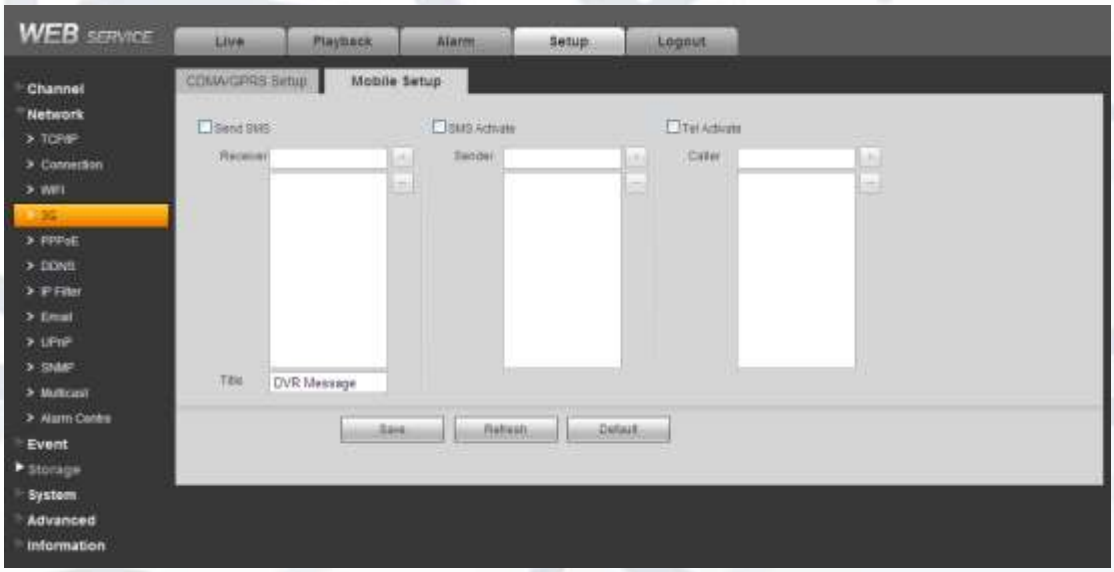


Figure 7-29

7.8.2.5 PPPoE

The PPPoE interface is shown as in Figure 7-30.

Input the PPPoE user name and password you get from the IPS (internet service provider) and enable PPPoE function. Please save current setup and then reboot the device to get the setup activated.

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Device connects to the internet via PPPoE after reboot. You can get the IP address in the WAN from the IP address column.

Note: you need to use previous IP address in the LAN to login the device. Please go to the IP address item to via the device current device information. You can access the client-end via this new address.



Figure 7-30

7.8.2.6 DDNS

The DDNS interface is shown as in Figure 7-31.

The DDNS is to set to connect the various servers so that you can access the system via the server. Please go to the corresponding service website to apply a domain name and then access the system via the domain. It works even your IP address has changed.

Please select DDNS from the dropdown list (Multiple choices). Before you use this function, please make sure your purchased device support current function.

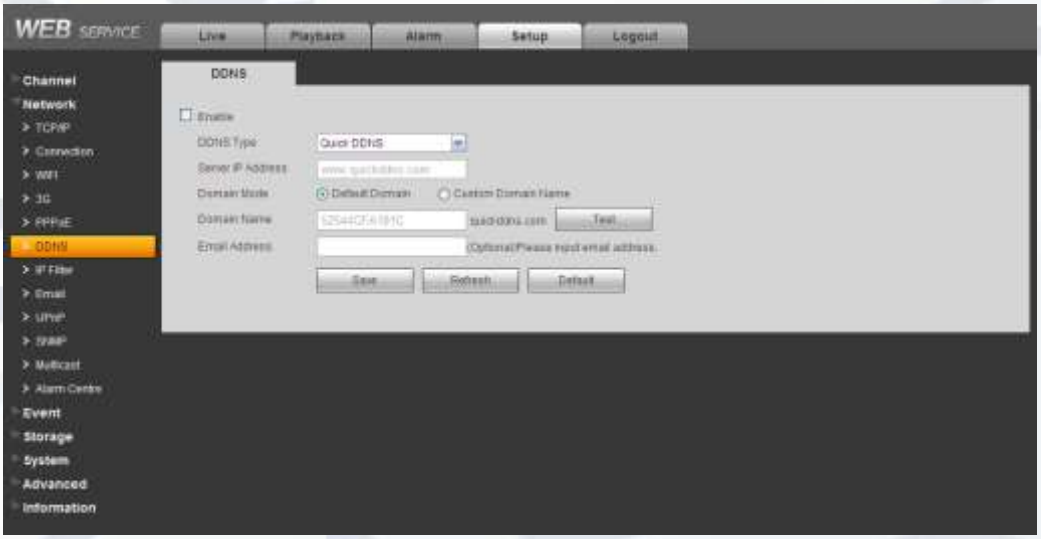


Figure 7-31

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Please refer to the following sheet for detailed information:

Parameter	Function
Server Type	You can select DDNS protocol from the dropdown list and then enable DDNS function.
Server IP	DDNS server IP address
Server Port	DDNS server port.
Domain Name	Your self-defined domain name.
User	The user name you input to log in the server.
Password	The password you input to log in the server.
Update period	Device sends out alive signal to the server regularly. You can set interval value between the device and DDNS server here.

Quick DDNS and Client-end Introduction

1) Background Introduction

Device IP is not fixed if you use ADSL to login the network. The DDNS function allows you to access the DVR via the registered domain name. Besides the general DDNS, the quick DDNS works with the device from the manufacturer so that it can add the extension function.

2) Function Introduction

The quick DDNS client has the same function as other DDNS client end. It recognises the bonding of the domain name and the IP address. Right now, current DDNS server is for our own devices only. You need to refresh the bonding relationship of the domain and the IP regularly. There is no user name, password or the ID registration on the server. At the same time, each device has a default domain name (Generated by MAC address) for your option. You can also use customized valid domain name (has not registered.).

3) Operation

Before you use Quick DDNS, you need to enable this service and set proper server address, port value and domain name.

- **Server address**：www.quickddns.com
- **Port number**：80
- **Domain name**：There are two modes: Default domain name and customized domain name.

Except default domain name registration, you can also use customised domain name (You can input your self-defined domain name.) After successful registration, you can use domain name to login installed of the device IP.

- **User name:** It is optional. You can input your commonly used email address.

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Important

- Do not register frequently. The interval between two registrations shall be more than 60 seconds. Too many registration requests may result in server attack.
- System may take back the domain name that is idle for one year. You can get a notification email before the cancel operation if your email address setup is OK.

7.8.2.7 IP filter

The IP filter interface is shown as in Figure 7-32.

After you enabled trusted sites function, only the IP listed below can access current DVR.

If you enable blocked sites function, the following listed IP addresses can not access current DVR.

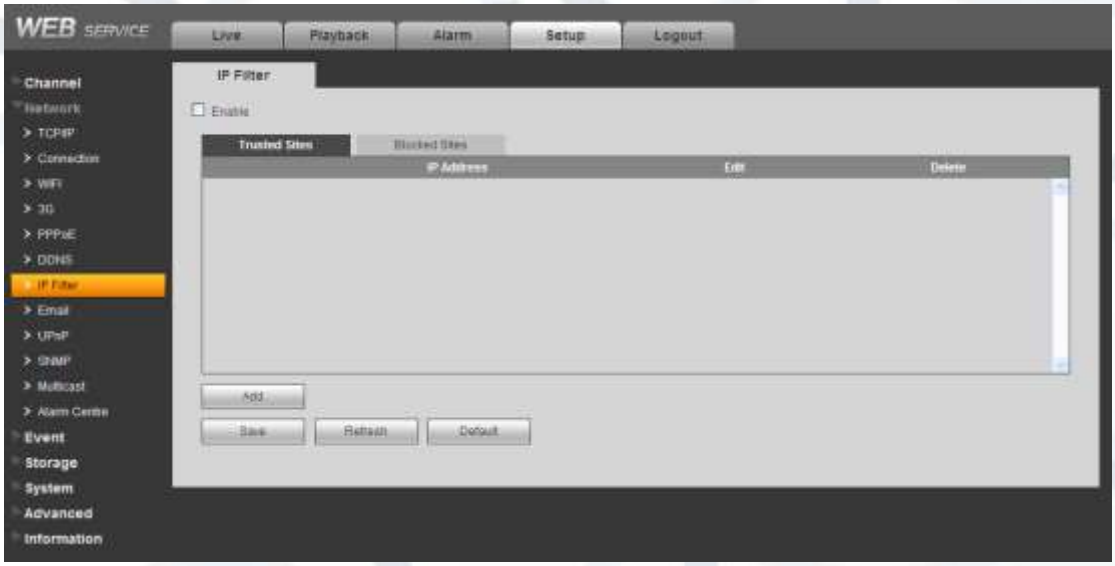


Figure 7-32

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7.8.2.8 Email

The email interface is shown as in Figure 7-33.

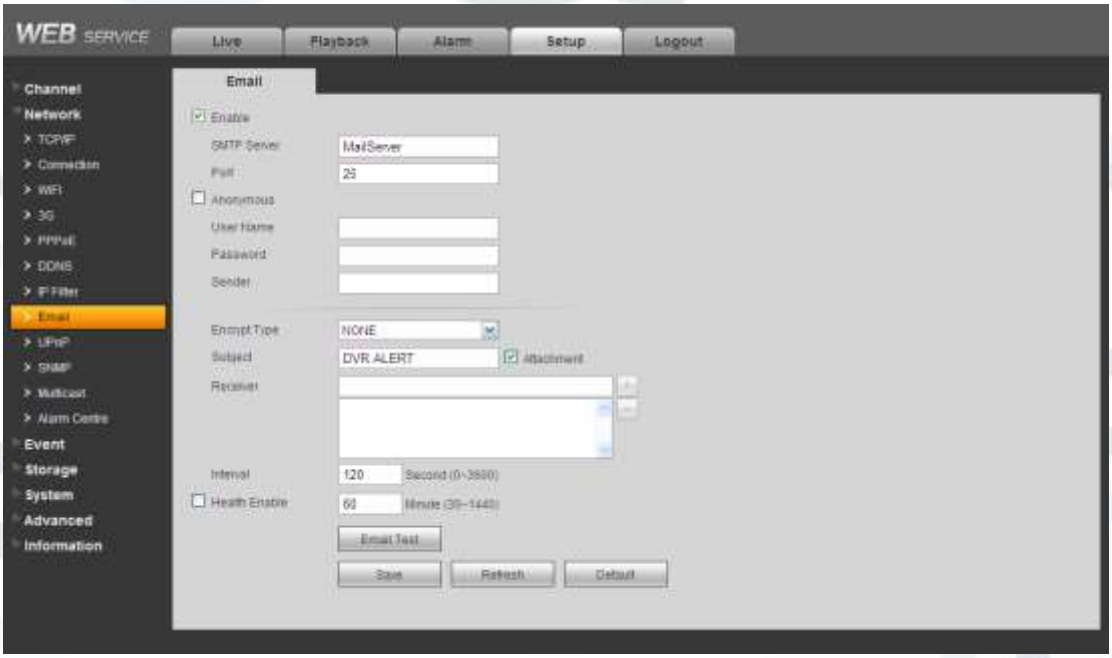


Figure 7-33

Please refer to the following sheet for detailed information:

Parameter	Function
Enable	Please check the box here to enable email function.
SMTP Server	Input server address and then enable this function.
Port	Default value is 25. You can modify it if necessary.
Anonymity	For the server supports the anonymity function. You can auto login anonymously. You do not need to input the user name. password and the sender information.
User Name	The user name of the sender email account.
Password	The password of sender email account.
Sender	Sender email address.
Authentication (Encryption mode)	You can select SSL or none.
Subject	Input email subject here.
Attachment	System can send out the email of the snapshot picture once you check the box here.
Receiver	Input receiver email address here. Max three addresses. It supports SSL,TLS email box.
Interval	The send interval ranges from 0 to 3600 seconds. 0 means there is no interval.

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Parameter	Function
	Please note system will not send out the email immediately when the alarm occurs. When the alarm, motion detection or the abnormity event activates the email, system sends out the email according to the interval you specified here. This function is very useful when there are too many emails activated by the abnormity events, which may result in heavy load for the email server.
Health mail enable	Please check the box here to enable this function.
Update period (interval)	This function allows the system to send out the test email to check the connection is OK or not. Please check the box to enable this function and then set the corresponding interval. System can send out the email regularly as you set here.
Email test	The system will automatically sent out a email once to test the connection is OK or not .Before the email test, please save the email setup information.

7.8.2.9 UPnP

It allows you to establish the mapping relationship between the LAN and the public network.

Here you can also add, modify or remove UPnP item. See Figure 7-34.

- In the Windows OS, From Start->Control Panel->Add or remove programs. Click the “Add/Remove Windows Components” and then select the “Network Services” from the Windows Components Wizard.
- Click the Details button and then check the “Internet Gateway Device Discovery and Control client” and “UPnP User Interface”. Please click OK to begin installation.
- Enable UPnP from the Web. If your UPnP is enabled in the Windows OS, the DVR can auto detect it via the “My Network Places”

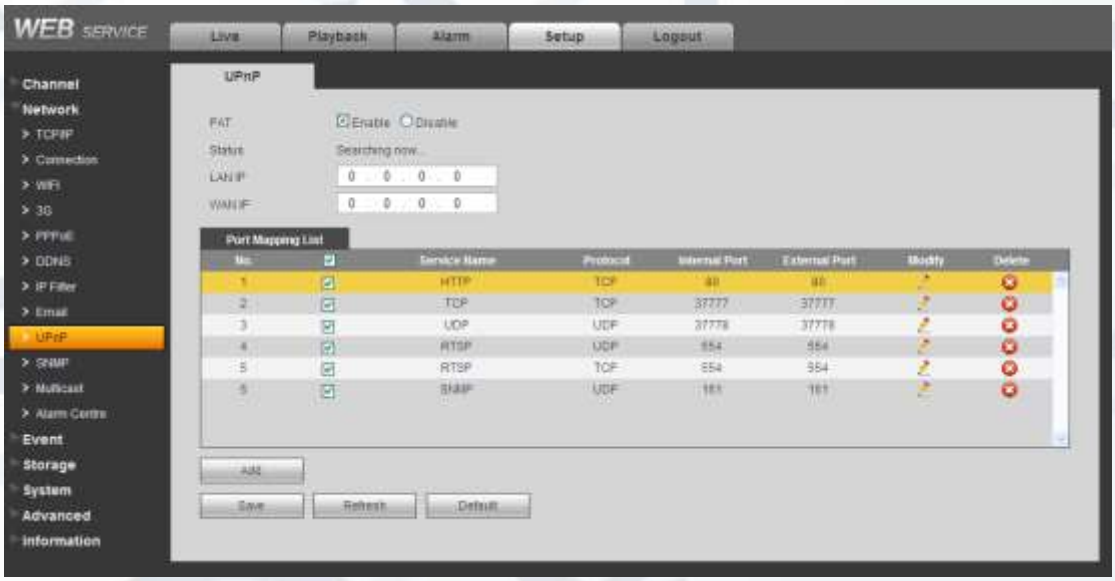


Figure 7-34

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7.8.2.10 SNMP

The SNMP interface is shown as in Figure 7-35.

The SNMP allows the communication between the network management work station software and the proxy of the managed device.



Figure 7-35

Please refer to the following sheet for detailed information:

Parameter	Function
SNMP Port	The listening port of the proxy program of the device. It is a UDP port not a TCP port. The value ranges from 1 to 65535. The default value is 161
Read Community	It is a string. It is a command between the manage process and the proxy process. It defined the authentication, access control and the management relationship between one proxy and one group of the managers. Please make sure the device and the proxy are the same. The read community will read all the objects the SNMP supported in the specified name. The default setup is public.
Write Community	It is a string. It is a command between the manage process and the proxy process. It defined the authentication, access control and the management relationship between one proxy and one group of the managers. Please make sure the device and the proxy are the same. The read community will read/write/access all the objects the SNMP supported in the specified name. The default setup is write.
Trap address	The destination address of the Trap information from the proxy program of the device.

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Parameter	Function
Trap port	The destination port of the Trap information from the proxy program of the device. It is for the gateway device and the client-end PC in the LAN to exchange the information. It is a non-protocol connection port. It has no effect on the network applications. It is a UDP port not TCP port. The value ranges from 1 to 165535. The default value is 162.
SNMP version	● Check V1, system only processes the information of V1. ● Check V2, system only processes the information of V2. ● Check SNMP V3.you can set user name and password. There is account security verification when the server wants to connect to the device. At the same time, the v1 and V2 is null and can not select.

7.8.2.11 Multicast

The multicast interface is shown as in Figure 7-36.

Multicast is a transmission mode of data packet. When there is a multiple-host to receive the same data packet, multiple-cast is the best option to reduce the broad width and the CPU load. The source host can just send out one data to transit. This function also depends on the relationship of the group member and group of the outer.



Figure 7-36

7.8.2.12 Alarm Centre

The alarm centre interface is shown as below. See Figure 7-37.

This interface is reserved for you to develop. System can upload alarm signal to the alarm centre when local alarm occurs.

Before you use alarm centre, please set server IP, port and etc. When an alarm occurs, system can send out data as the protocol defined, so the client-end can get the data.

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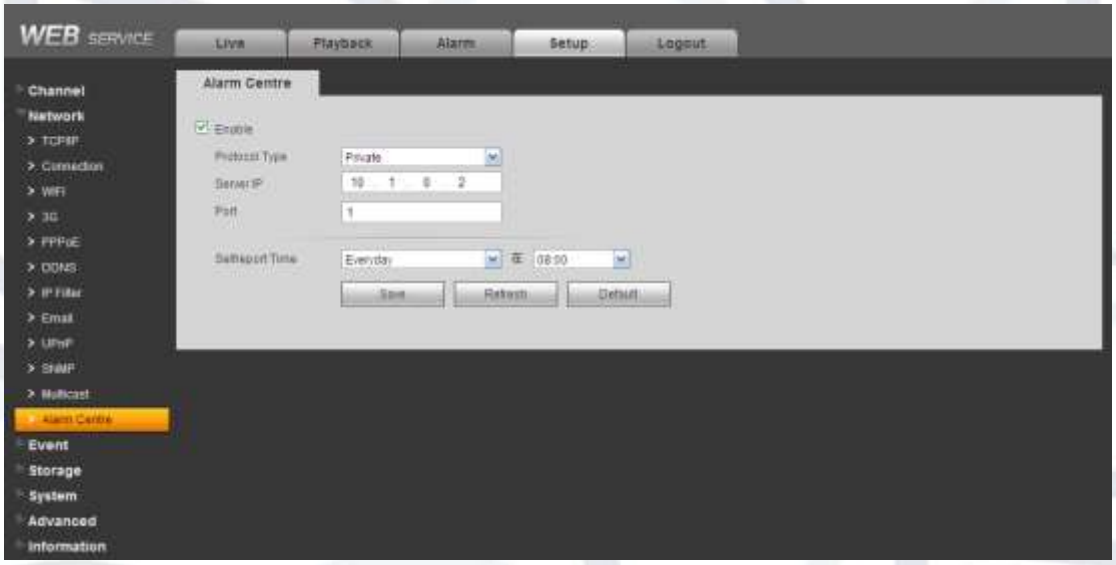


Figure 7-37

7.8.3 Event

7.8.3.1 Video detect

Motion Detect

The motion detect interface is shown as in Figure 7-38.

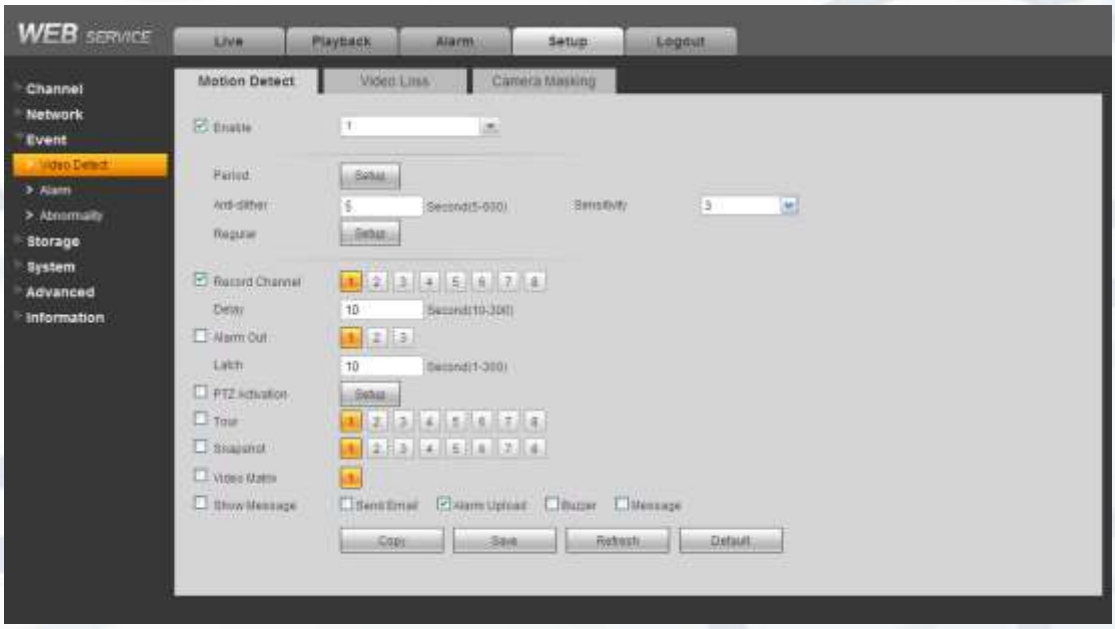


Figure 7-38

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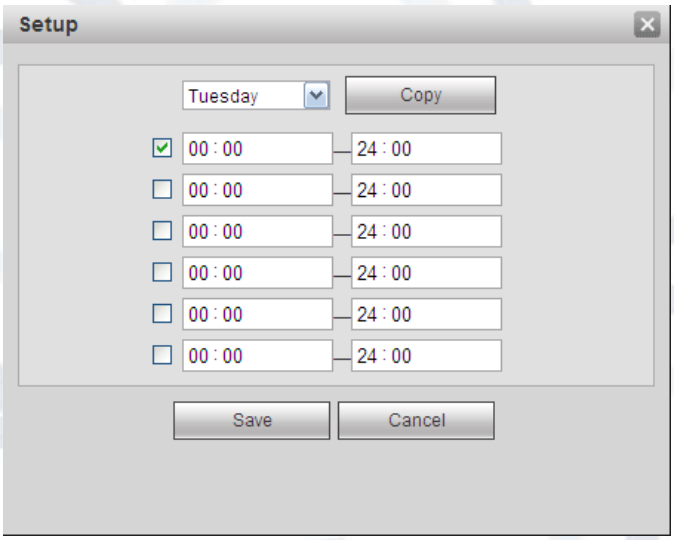


Figure 7-39

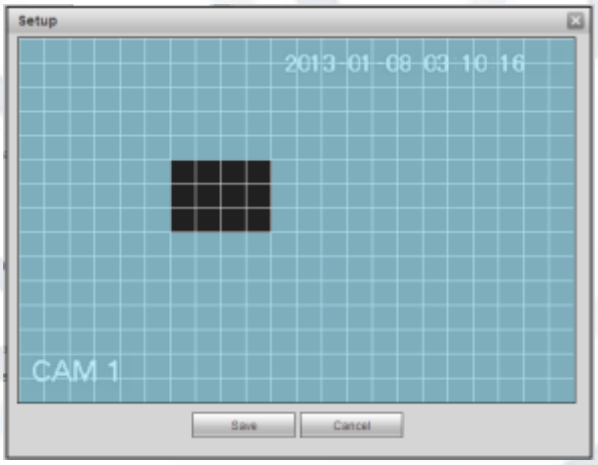


Figure 7-40

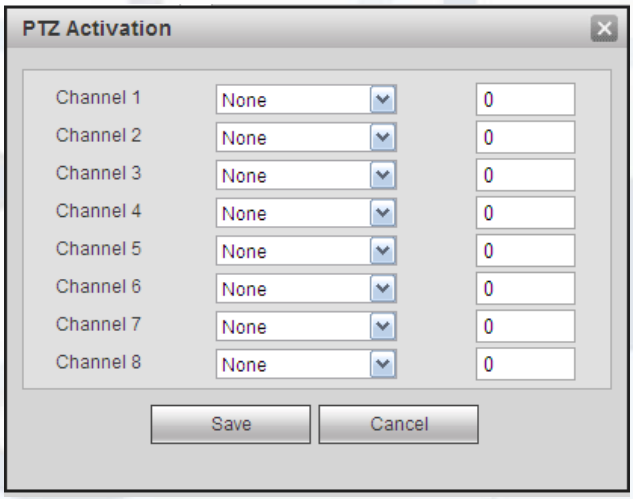


Figure 7-41

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Please refer to the following sheet for detailed information:

Parameter	Function
Enable	You need to check the box to enable motion detection function. Please select a channel from the dropdown list.
Period	Motion detection function becomes activated in the specified periods. See Figure 7-39. There are six periods in one day. Please draw a circle to enable corresponding period. Click OK button, system goes back to motion detection interface, please click save button to exit.
Anti-dither	System only memorizes one event during the anti-dither period. The value ranges from 5s to 600s.
Sensitivity	There are six levels. The sixth level has the highest sensitivity.
Region	There are six levels. The sixth level has the highest sensitivity. Region: If you select motion detection type, you can click this button to set motion detection zone. The interface is shown as in Figure 7-40. There are PAL 22X18/NTSC 22X15 zones. Right click mouse you can go to full-screen display mode. Do remember clicking OK button to save your motion detection zone setup.
Record channel	System auto activates motion detection channel(s) to record once an alarm occurs. Please note you need to set motion detect record period and go to Storage-> Schedule to set current channel as schedule record.
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Alarm out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when an alarm occurs.
Latch	System can delay the alarm output for specified time after an alarm ended. The value ranges from 1s to 300s.
Show message	System can pop up a message to alarm you in the local host screen if you enabled this function.
Buzzer	Check the box here to enable this function. The buzzer beeps when an alarm occurs.
Alarm upload	System can upload the alarm signal to the centre (Including alarm centre.
Message	When 3G network connection is OK, system can send out a message when motion detect occurs.
Send Email	If you enabled this function, System can send out an email to alert you when an alarm occurs.
Tour	You need to check the box here to enable this function. System begins 1-wiindow or multiple-window tour display among the channel(s) you set to record when an alarm occurs. Please go to chapter 5.3.6 to set tour interval and tour mode.

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Parameter	Function
PTZ Activation	Here you can set PTZ movement when alarm occurs. Such as go to preset X. See Figure 7-41.
Video Matrix	This function is for motion detect only. Check the box here to enable video matrix function. Right now system supports one-channel tour function. System takes “first come and first serve” principle to deal with the activated tour. System will process the new tour when a new alarm occurs after previous alarm ended. Otherwise it restores the previous output status before the alarm activation.

Video Loss

The video loss interface is shown as in Figure 7-42.

After analysis video, system can generate a video loss alarm when the detected moving signal reached the sensitivity you set here.

Please note video loss does not support anti-dither, sensitivity, region setup. For rest setups, please refer to chapter 0 motion detect for detailed information.



Figure 7-42

Camera Masking

The camera masking interface is shown as in Figure 7-43.

After analysis video, system can generate a camera masking alarm when the detected moving signal reached the sensitivity you set here.

For detailed setups, please refer to chapter 0 motion detect for detailed information.

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Figure 7-43

7.8.3.1 Alarm

Before operation, please make sure you have properly connected alarm devices such as buzzer. The input mode includes local alarm and network alarm.

7.8.3.1.1 Local Alarm

The local alarm interface is shown as in Figure 7-44.

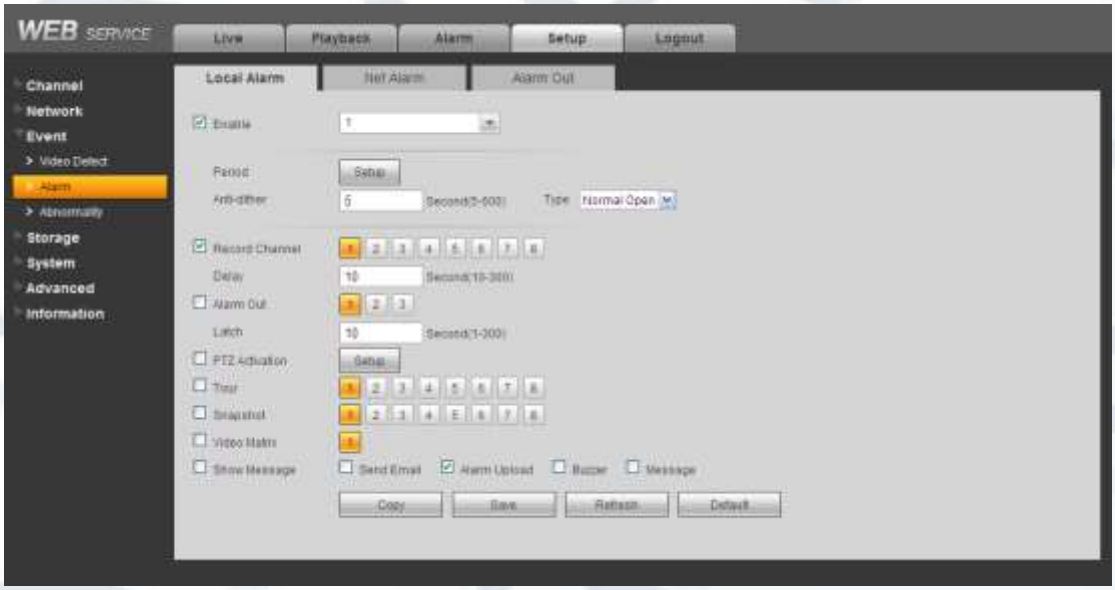


Figure 7-44

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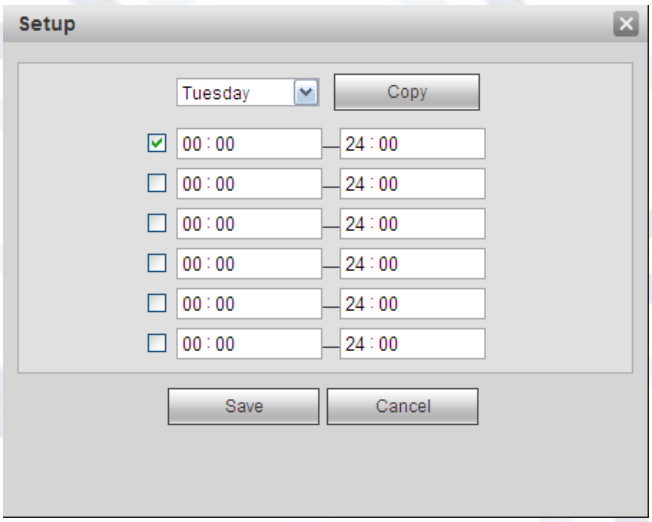


Figure 7-45

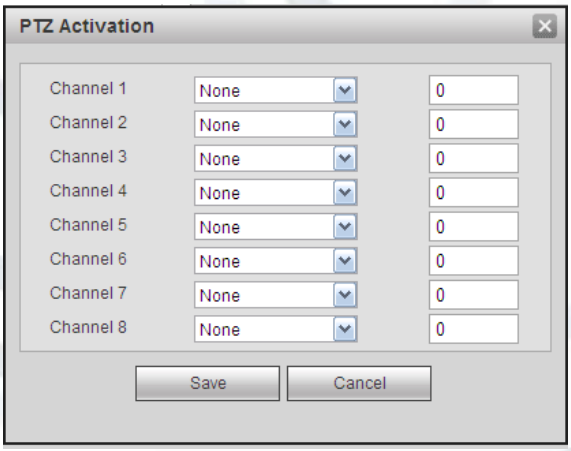


Figure 7-46

Please refer to the following sheet for detailed information:

Parameter	Function
Enable	You need to check the box to enable this function. Please select a channel from the dropdown list.
Period	This function becomes activated in the specified periods. There are six periods in one day. Please draw a circle to enable corresponding period. Select date. If you do not select, current setup applies to today only. You can select all week column to apply to the whole week. Click OK button, system goes back to local alarm interface, please click save button to exit.
Anti-dither	System only memorizes one event during the anti-dither period. The value ranges from 5s to 600s.
Sensor type	There are two options: NO/NC.
Record channel	System auto activates motion detection channel(s) to record once an alarm occurs. Please note you need to set

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Parameter	Function
	alarm record period and go to Storage-> Schedule to set current channel as schedule record.
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Alarm out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when an alarm occurs.
Latch	System can delay the alarm output for specified time after an alarm ended. The value ranges from 1s to 300s.
Show message	System can pop up a message to alarm you in the local host screen if you enabled this function.
Buzzer	Check the box here to enable this function. The buzzer beeps when an alarm occurs.
Alarm upload	System can upload the alarm signal to the centre (Including alarm centre.
Send Email	If you enabled this function, System can send out an email to alert you when an alarm occurs.
Tour	You need to check the box here to enable this function. System begins 1-wiindow or multiple-window tour display among the channel(s) you set to record when an alarm occurs. Please go to chapter 5.3.6 to set tour interval and tour mode.
PTZ Activation	Here you can set PTZ movement when alarm occurs. Such as go to preset X.

7.8.3.1.2 Net Alarm

The network alarm interface is shown as in Figure 7-47. Network alarm refers to the alarm signal from the network. System does not anti-dither and sensor type setup. For reset setups, please refer to chapter 7.8.3.1.1.



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Figure 7-47

7.8.3.1.3 Alarm Out

Here you can set alarm output channel mode. See Figure 7-48.



Figure 7-48

7.8.3.2 Abnormity

It includes six statuses: No disk, disk error, net disconnection, IP conflict and MAC conflict. See Figure 7-49 through Figure 7-54.



Figure 7-49

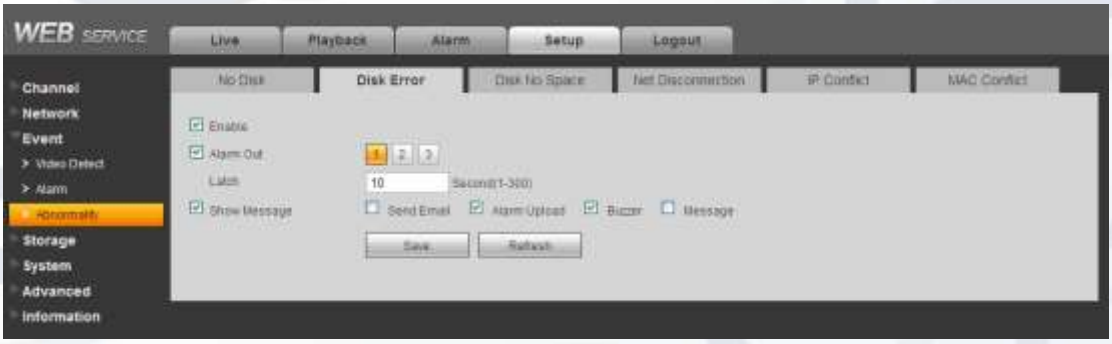


Figure 7-50

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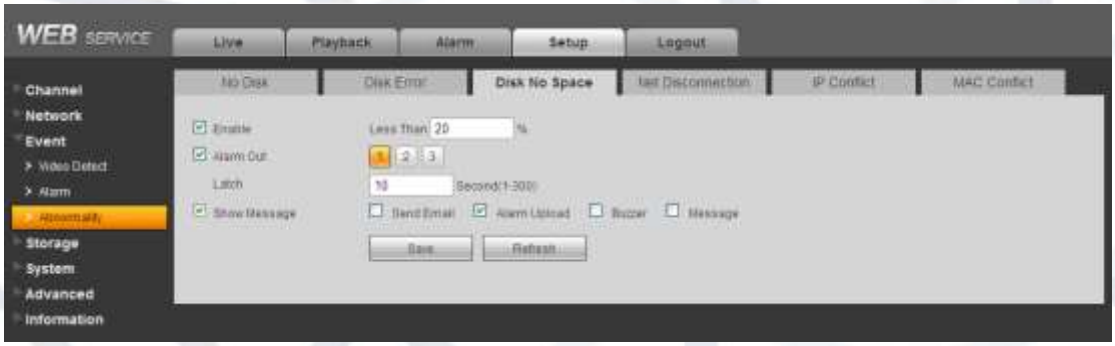


Figure 7-51



Figure 7-52

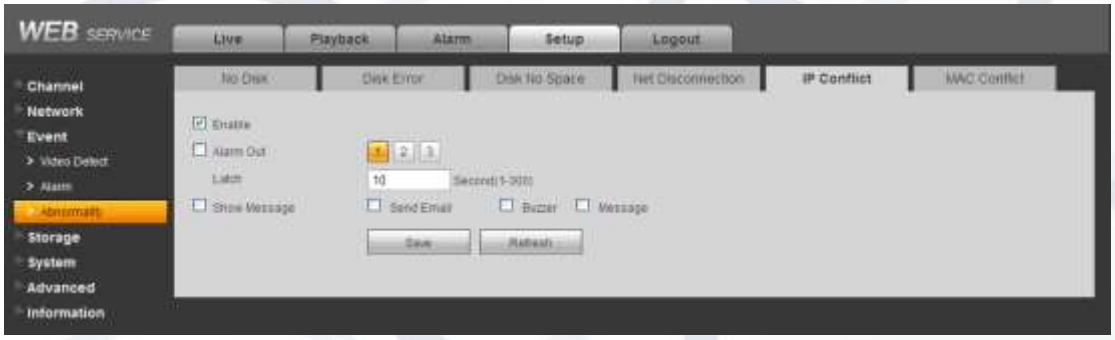


Figure 7-53



Figure 7-54

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Please refer to the following sheet for detailed information:

Parameter	Function
Event Type	The abnormal events include: No disk, disk error, disk no space, net disconnection, IP conflict and MAC conflict. You can set one or more items here. Less than: You can set the minimum percentage value here (For disk not space only). The device can alarm when capacity is not sufficient. You need to draw a circle to enable this function.
Enable	Check the box here to enable selected function.
Alarm Out	Please select corresponding alarm output channel when an alarm occurs. You need to check the box to enable this function.
Latch	The alarm output can delay for the specified time after an alarm stops. The value ranges from 1s to 300s.
Show message	System can pop up a message to alarm you in the local host screen if you enabled this function.
Alarm upload	System can upload the alarm signal to the centre (Including alarm centre.
Send Email	If you enabled this function, System can send out an email to alert you when an alarm occurs.
Buzzer	Check the box here to enable this function. The buzzer beeps when an alarm occurs.

7.8.4 Storage

7.8.4.1 Schedule

In this interfaces, you can add or remove the schedule record setup. See Figure 7-55.

There are three record modes: general (auto), motion detect and alarm. There are six periods in one day. Please make sure you have enabled the corresponding record mode in the Setup->Storage->Conditions.

You can view the current time period setup from the color bar.

- Green color stands for the general record/snapshot.
- Yellow color stands for the motion detect record/snapshot..
- Red color stands for the alarm record/snapshot.

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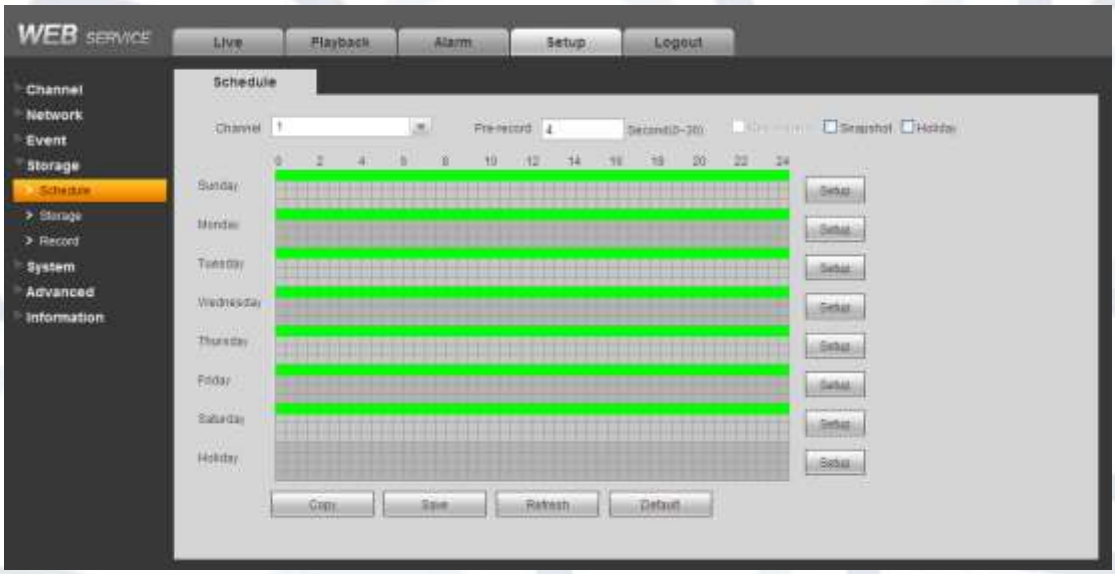


Figure 7-55

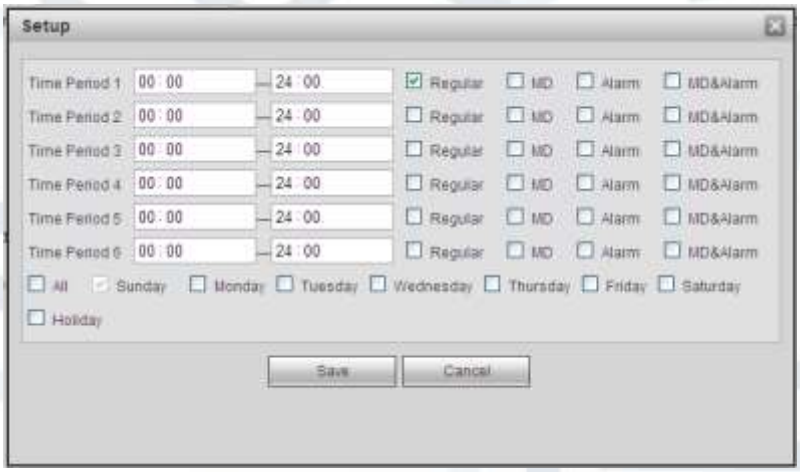


Figure 7-56

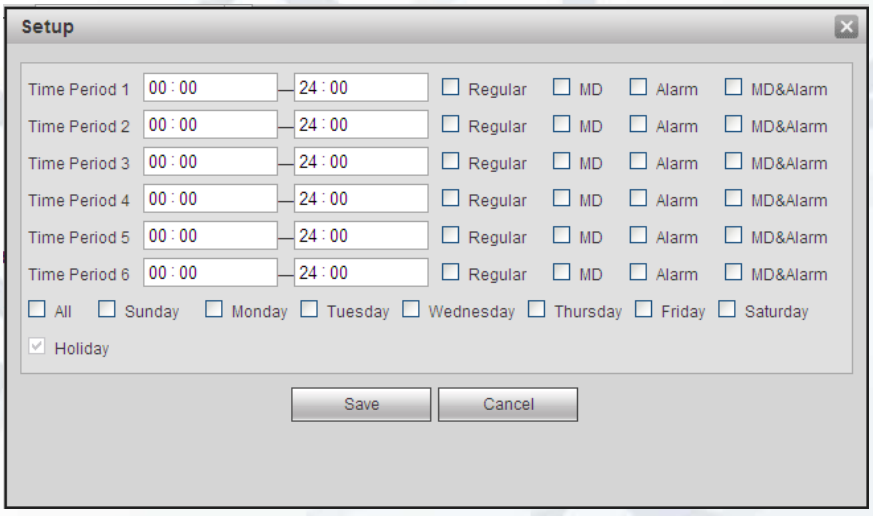


Figure 7-57

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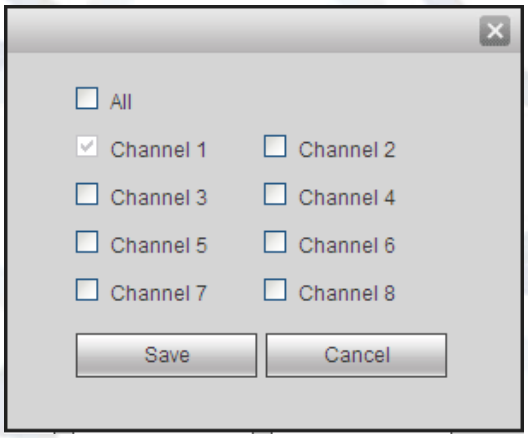


Figure 7-58

Please refer to the following sheet for detailed information:

Parameter	Function
Channel	Please select a channel from the dropdown list.
Pre-record	Please input pre-record time here. The value ranges from 0 to 30.
Redundancy	Check the box here to enable redundancy function. **Please note this function is null if there is only one HDD.**
Snapshot	Check the box here to enable snapshot function.
Holiday	Check the box here to enable holiday function.
Setup (Sunday to Saturday)	Click the Setup button, you can set record period. See Figure 7-56. There are six periods in one day. If you do not check the date at the bottom of the interface, current setup is for today only. Please click Save button and then exit.
Setup (Holiday)	Click the Setup button, you can set record period. See Figure 7-57. There are six periods in one day. If you check Holiday box, current channel shall record as your holiday setup here.
Copy	Copy function allows you to copy one channel setup to another. After setting in channel, click Copy button, you can go to interface Figure 7-58. You can see current channel name is grey such as channel 1. Now you can select the channel you wan to paste such as channel 5/6/7. If you wan to save current setup of channel 1 to all channels, you can click the first box “ALL”. Click the OK button to save current copy setup. Click the OK button in the Encode interface, the copy function succeeded.

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7.8.4.2 Storage

7.8.4.2.1 Local Storage

The local interface is shown as in Figure 7-59. Here you can see HDD information. You can also operate the read-only, write-only, hot swap and format operation.



Figure 7-59

7.8.4.2.2 HDD Setting

Here is for you to set HDD group. See Figure 7-60.



Figure 7-60

7.8.4.2.3 HDD Channel

The HDD channel interface is shown as in Figure 7-61. Here you can set channel group.



Figure 7-61

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7.8.4.2.4 FTP

The FTP interface is shown as in Figure 7-62.

The FTP function is on if you check the Enable box here.

When network is offline or malfunction, system can save record or picture to HDD.



Figure 7-62

7.8.4.3 Record control

The record control interface is shown as in Figure 7-63.



Figure 7-63

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Please refer to the following sheet for detailed information:

Parameter	Function
Channel	Here you can view channel number. The number displayed here is the max channel amount of your device.
Status	There are three statuses: schedule, manual and stop.
Schedule	System enables auto record function as you set in record schedule setup (general, motion detect and alarm).
Manual	This has the highest priority. Enable corresponding channel to record no matter what period applied in the record setup.
Stop	Stop current channel record no matter what period applied in the record setup.
Start all/ stop all	Check the corresponding All button, you can enable or disable all channels record.

7.8.5 System

7.8.5.1 General

The general interface includes General, date/time and holiday setup.

7.8.5.1.1 General

The general interface is shown as in Figure 7-64.



Figure 7-64

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Please refer to the following sheet for detailed information:

Parameter	Function
Device ID	This is to set device name.
Device No.	This is device channel number.
Language	You can select the language from the dropdown list. **Please note the device needs to reboot to get the modification activated.**
Video Standard	This is to display video standard such as PAL.
HDD full	Here is for you to select working mode when hard disk is full. There are two options: stop recording or rewrite. If current working HDD is overwritten or the current HDD is full while the next HDD is no empty, then system stops recording, If the current HDD is full and then next HDD is not empty, then system overwrites the previous files.
Pack duration	Here is for you to specify record duration. The value ranges from 1 to 120 minutes. Default value is 60 minutes.

7.8.5.1.2 Date and time

The date and time interface is shown as in Figure 7-65



Figure 7-65

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Please refer to the following sheet for detailed information:

Parameter	Function
Date format	Here you can select date format from the dropdown list.
Time Format	There are two options: 24-H and 12-H.
Time zone	The time zone of the device.
System time	This is to set system time. It becomes valid after you set.
Sync PC	You can click this button to save the system time as your PC current time.
DST	Here you can set day night save time begin time and end time. You can set according to the date format or according to the week format.
NTP	You can check the box to enable NTP function.
NTP server	You can set the time server address.
Port	It is to set the time server port.
Interval	It is to set the sync periods between the device and the time server.

7.8.5.1.3 Holiday Setup

Holiday setup interface is shown as in Figure 7-66.

Here you can check the box here to enable this function and then set.



Figure 7-66

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7.8.5.2 Account

Note:

- For the character in the following user name or the user group name, system supports a maximum of 6-digits. The space in the front or at the end of the string is null. The valid string includes: character, number, and underline.
- The user amount is 20 and the group amount is 8 when the device is shipped out of the factory. The factory default setup includes two levels: user and admin. You can set the corresponding group and then set the rights for the respective user in the specified groups.
- User management adopts group/user modes. The user name and the group name shall be unique. One user shall be included in only one group.

7.8.5.2.1 User name

In this interface you can add/remove user and modify user name. See Figure 7-67.

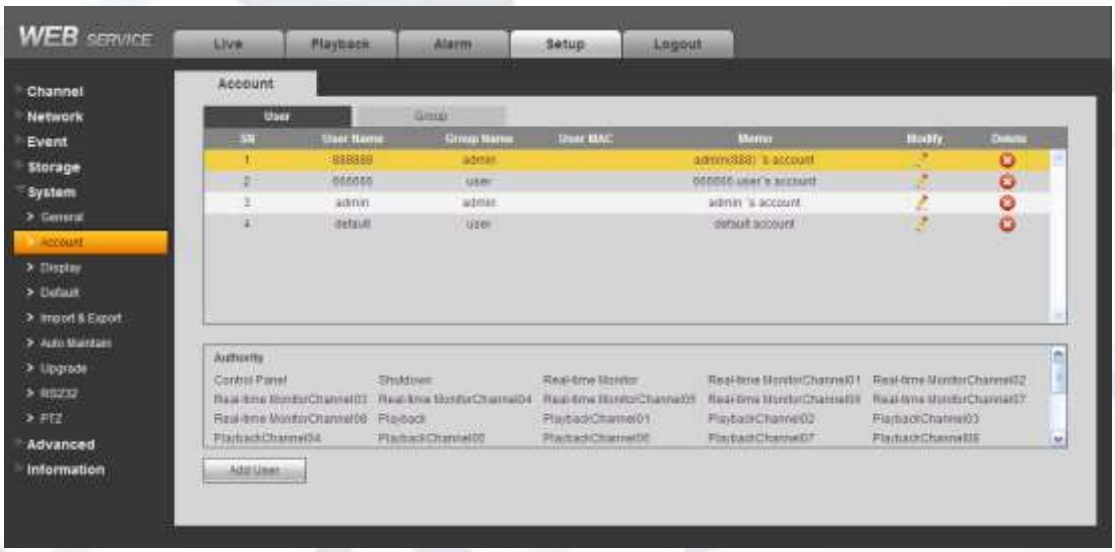


Figure 7-67

Add user: It is to add a name to group and set the user rights. See Figure 7-68. There are four default users: admin/888888/666666 and hidden user “default”. Except user 6666, other users have administrator right. The user 666666 can only have the monitor rights.

Hidden user “default” is for system interior use only and can not be deleted. When there is no login user, hidden user “default” automatically login. You can set some rights such as monitor for this user so that you can view some channel view without login.

Here you can input the user name and password and then select one group for current user. Please note the user rights shall not exceed the group right setup.

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For convenient setup, please make sure the general user has the lower rights setup than the admin.

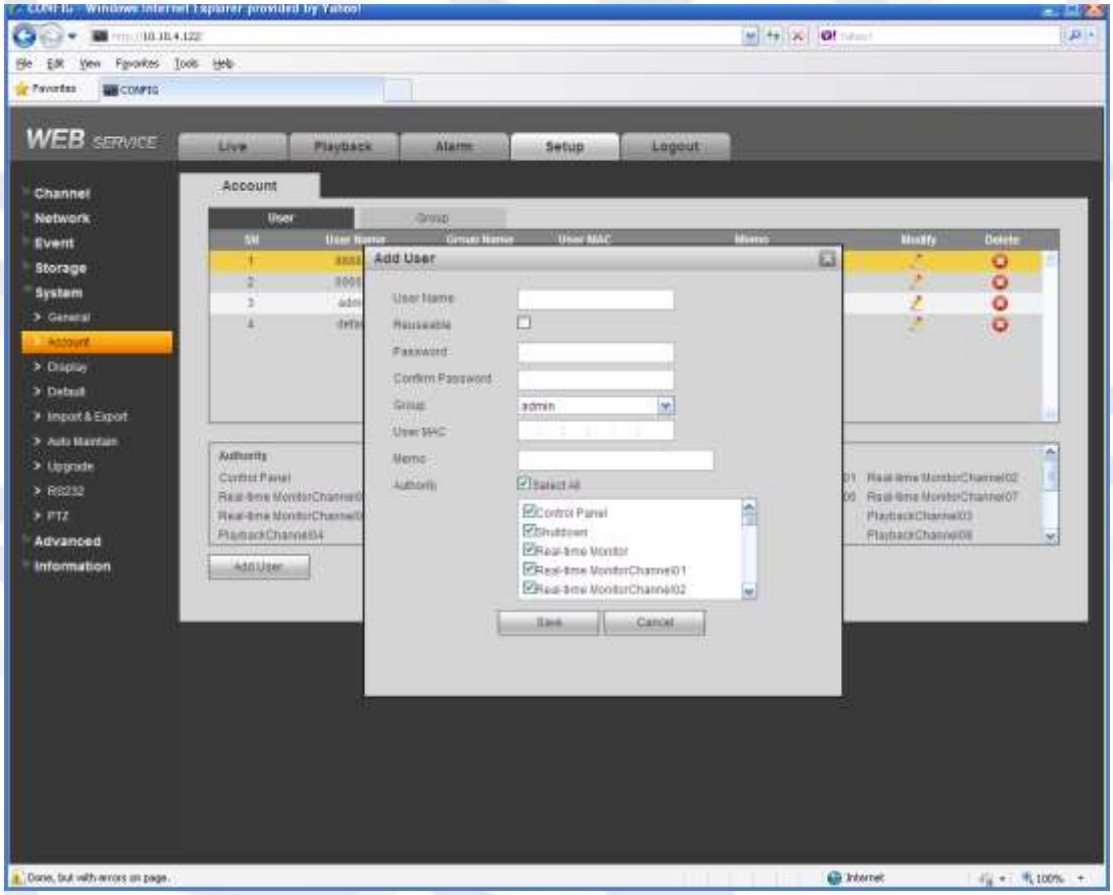


Figure 7-68

Modify user

It is to modify the user property, belonging group, password and rights. See Figure 7-69.

Modify password

It is to modify the user password. You need to input the old password and then input the new password twice to confirm the new setup. Please click the OK button to save.

Please note, the password ranges from 1-digit to 6-digit. It shall include the number only. For the user of the account rights, he can modify the password of other users.

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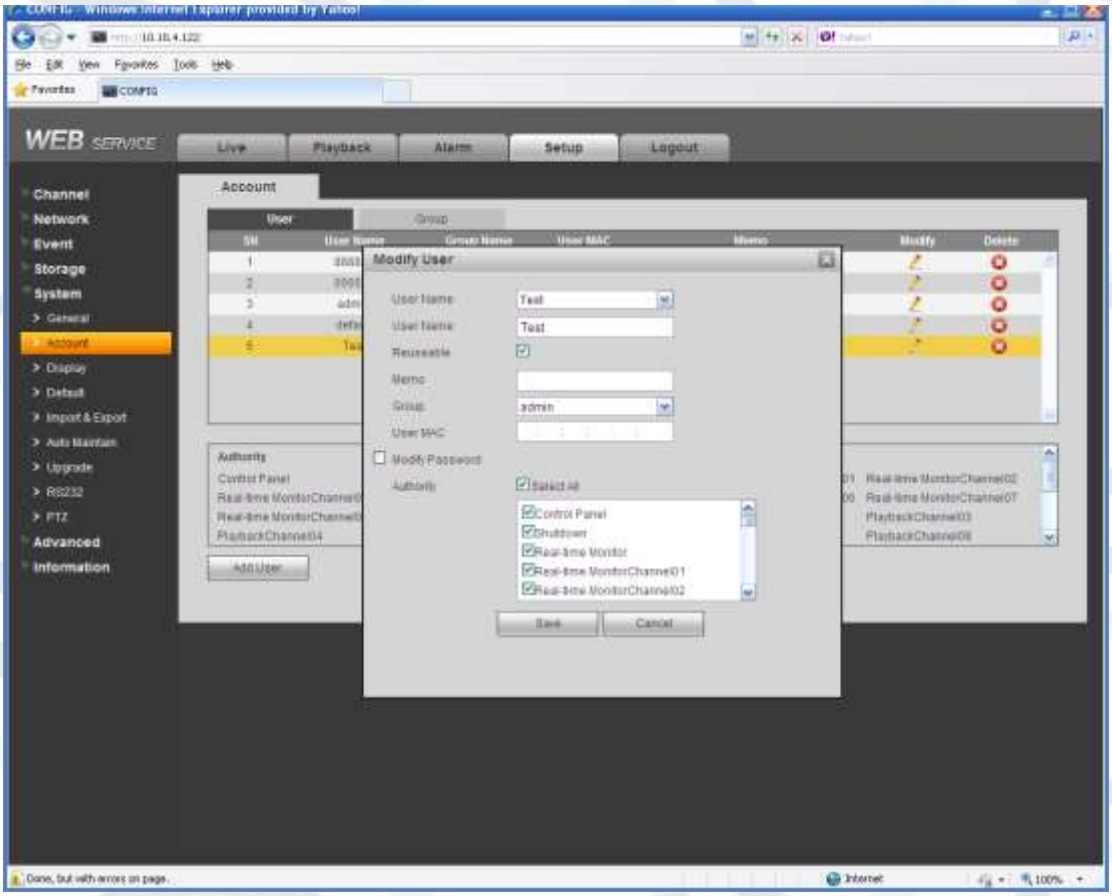


Figure 7-69

7.8.5.2.2 Group

The group management interface can add/remove group, modify group password and etc. The interface is shown as in Figure 7-70.

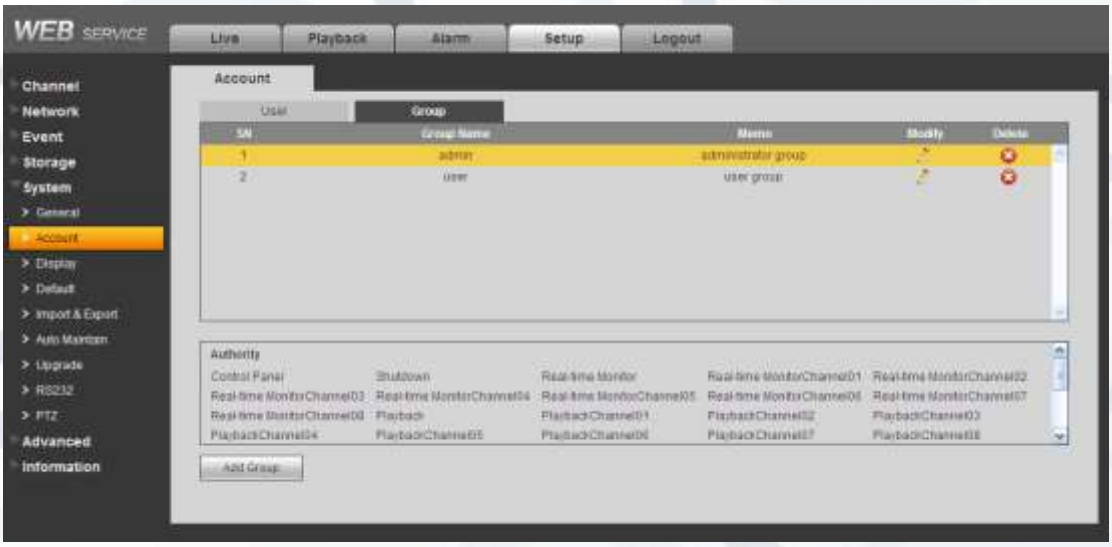


Figure 7-70

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Add group: It is to add group and set its corresponding rights. See Figure 7-71.

Please input the group name and then check the box to select the corresponding rights. It includes: shutdown/reboot device, live view, record control, PTZ control and etc.

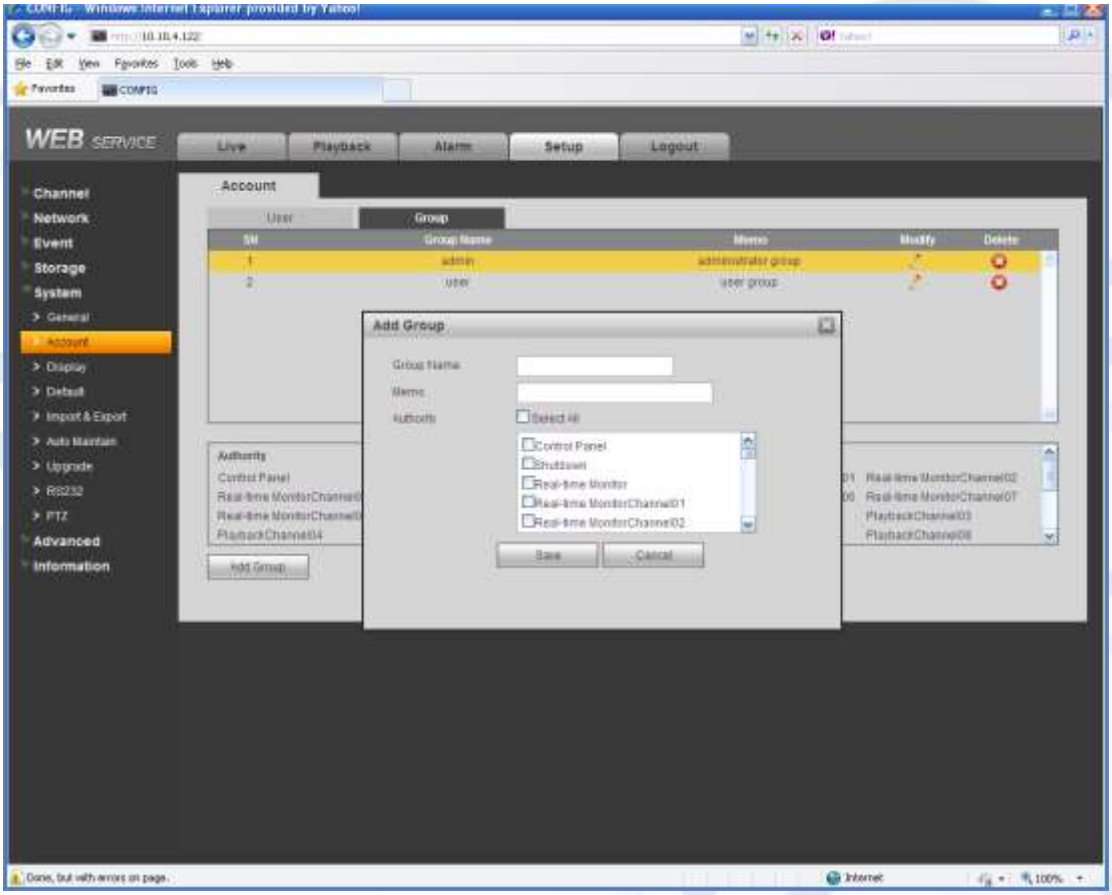


Figure 7-71

Modify group

Click the modify group button, you can see an interface is shown as in Figure 7-72.

Here you can modify group information such as remarks and rights.

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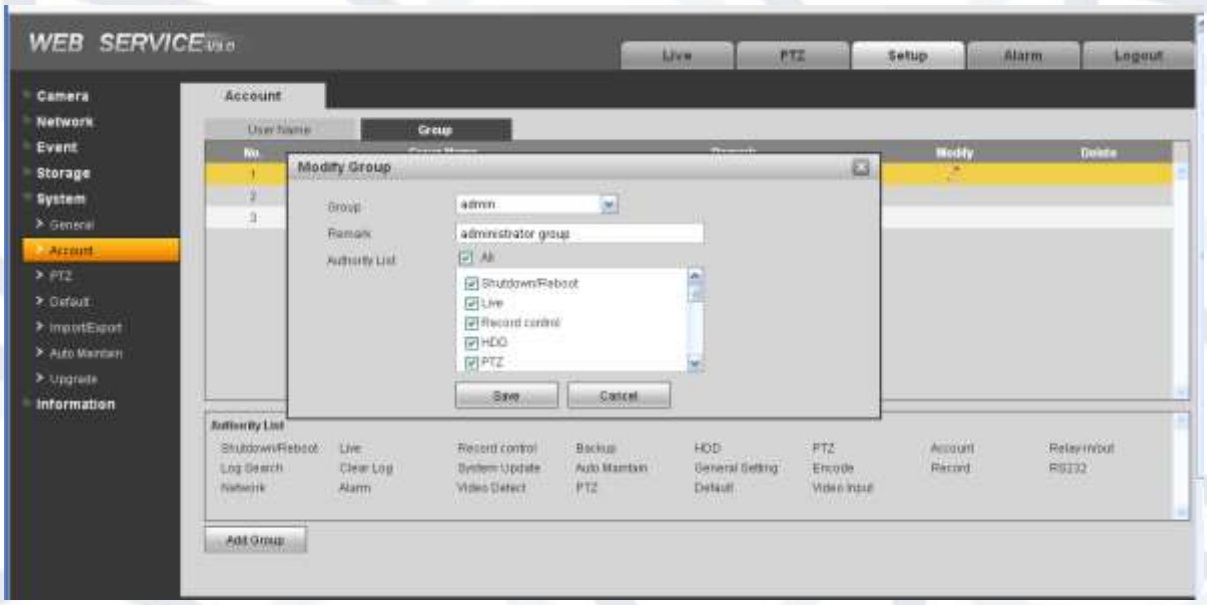


Figure 7-72

7.8.5.3 Display

Display interface includes GUI, TV adjust, Tour and video matrix.

7.8.5.3.1 GUI

Here you can set background color and transparency level. See Figure 7-73.

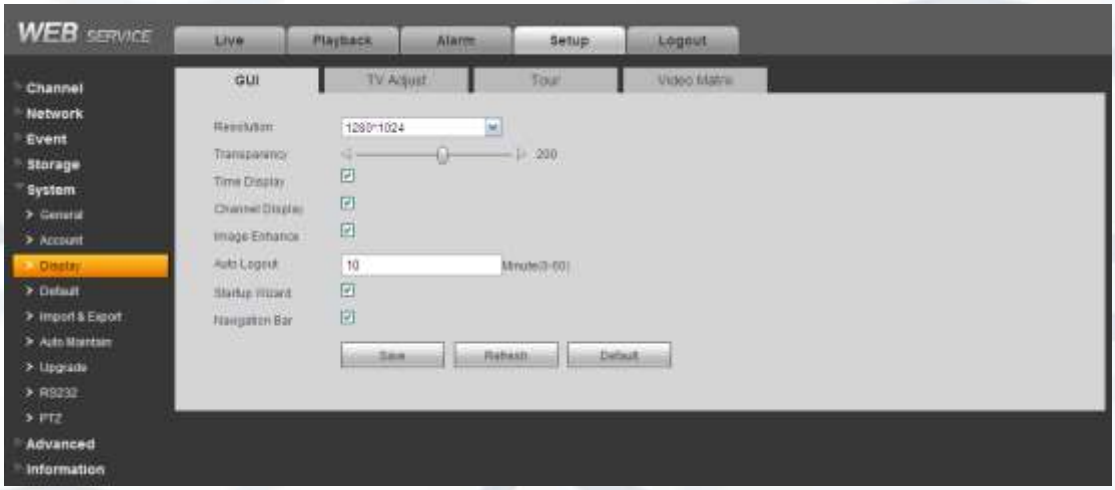


Figure 7-73

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Please refer to the following sheet for detailed information:

Parameter	Function
Resolution	There are four options: 1280×1024(default),1280×720,1024×768,800×600. Please note the system needs to reboot to activate current setup.
Transparency	Here is for you to adjust transparency. The value ranges from 128 to 255.
Time title/channel title	Check the box here, you can view system time and channel number on the monitor video.
Image enhance	Check the box; you can optimize the margin of the preview video.

7.8.5.3.2 TV Adjust

It is to set TV output region. See Figure 7-74.



Figure 7-74

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7.8.5.3.3 Tour

The tour interface is shown as in Figure 7-75. Here you can set tour interval, split mode, motion detect tour and alarm tour mode.

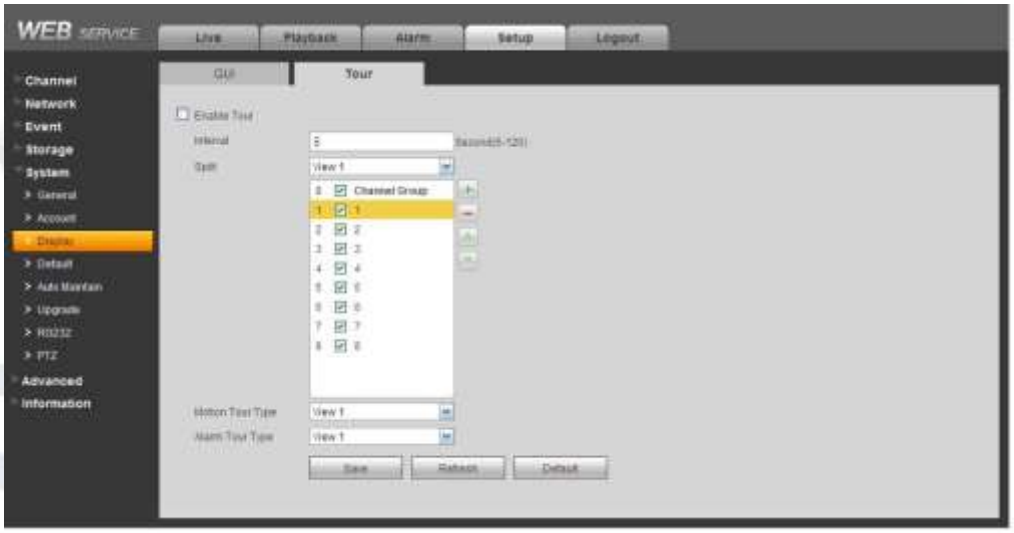


Figure 7-75

Please refer to the following sheet for detailed information:

Parameter	Function
Enable tour	Check the box here to enable tour function.
Interval	Here is for you to adjust transparency. The value ranges from 5 to 120s. The default setup is 5s.
Split	Here you can set window mode and channel group. System can support 1/4/8/9/16/25/36-window according to device channel amount.
Motion tour/Alarm tour	Here you can set motion detect tour/alarm tour window mode. System supports 1/8-window now.

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7.8.5.3.4 Video Matrix

The video matrix interface is shown as in Figure 7-76.

Here you can set video matrix output channel and interval. It supports 1/4/9/16 spot tour.



Figure 7-76

7.8.5.4 Default

The default setup interface is shown as in Figure 7-77.

Here you can select Channel/Network/Event/Storage/System. Or you can check the All box to select all items.

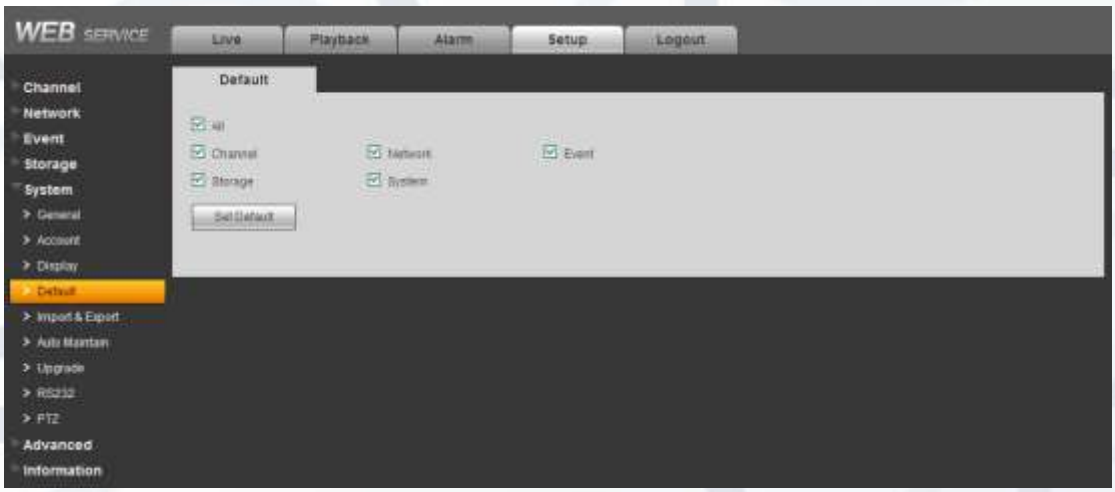


Figure 7-77

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7.8.5.5 Import/Export

The interface is shown as in Figure 7-78.

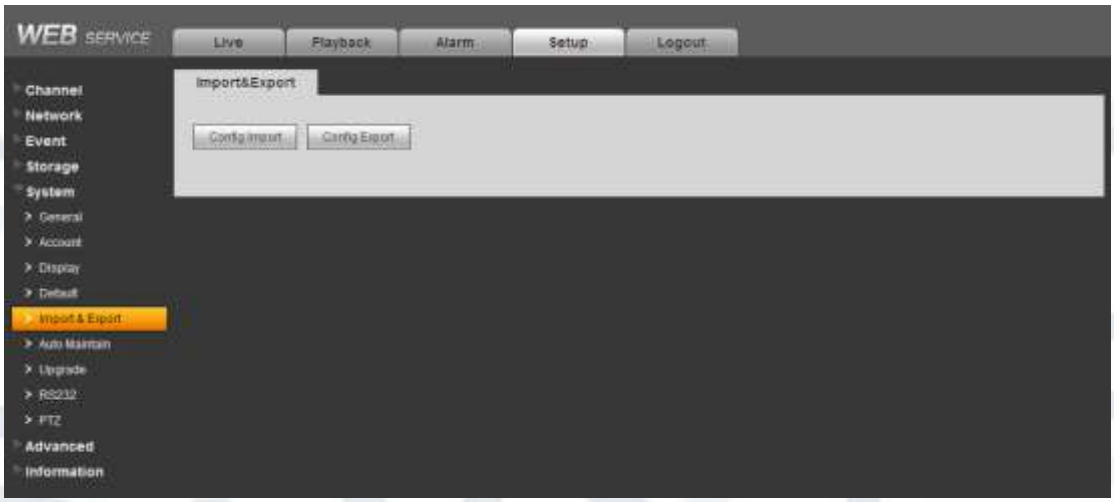


Figure 7-78

Please refer to the following sheet for detailed information.

Parameter	Function
Import	It is to import the local setup files to the system.
Export	It is to export the corresponding WEB setup to your local PC.

7.8.5.6 Auto maintenance

The auto maintenance interface is shown as in Figure 7-79.

Here you can select auto reboot and auto delete old files interval from the dropdown list.
If you want to use the auto delete old files function, you need to set the file period.

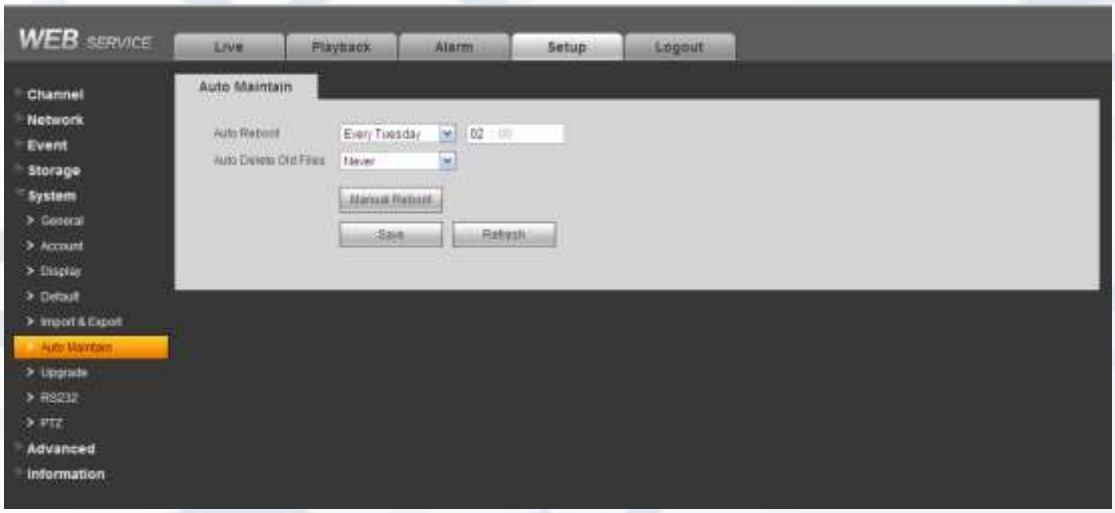


Figure 7-79

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7.8.5.7 Upgrade

The upgrade interface is shown as in Figure 7-80.

Please select the upgrade file and then click the update button to begin update. Please note the file name shall be as *.bin. During the upgrade process, do not unplug the power cable, network cable, or shutdown the device.

Important: Improper upgrade program may result in device malfunction!

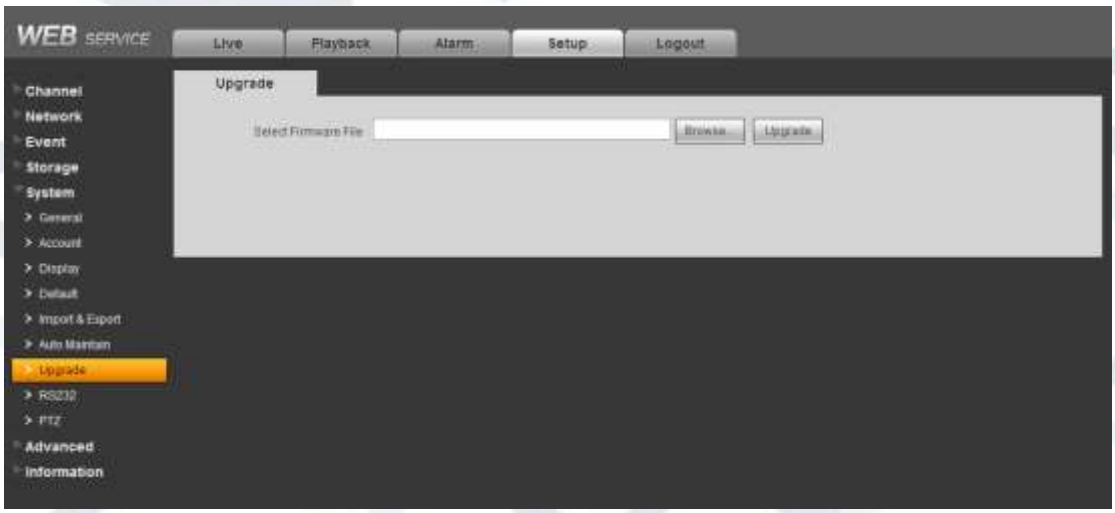


Figure 7-80

7.8.5.8 RS232

The RS232 interface is shown as in Figure 7-81.

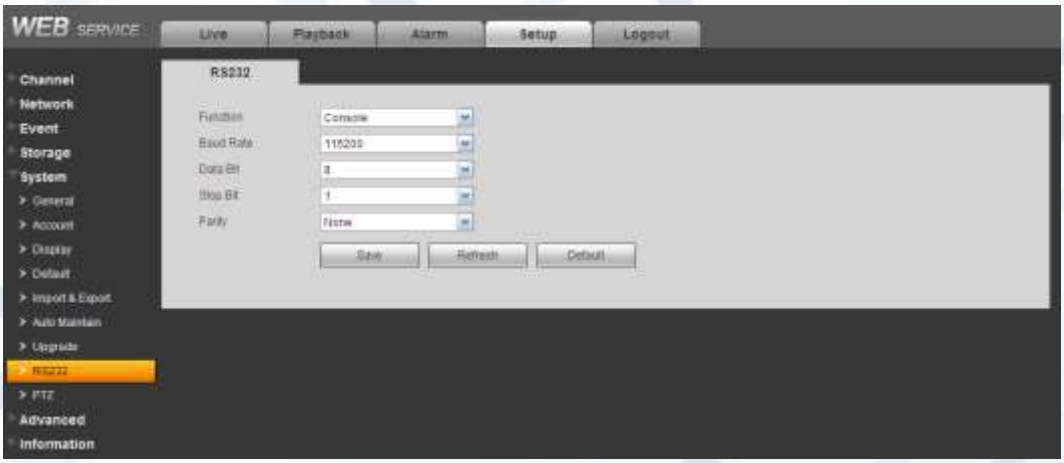


Figure 7-81

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Please refer to the following sheet for detailed information:

Parameter	Function
Protocol	Select the corresponding dome protocol. Default setup is console.
Baud Rate	Select the baud rate. Default setup is 115200.
Data Bit	The value ranges from 5 to 8. Default setup is 8.
Stop bit	There are two options: 1/2. Default setup is 1.
Parity	There are five options: none/odd/even/space/mark. Default setup is none.

7.8.5.9 PTZ

The PTZ interface is shown as in Figure 7-82.

Before setup, please check the following connections are right:

- PTZ and decoder connection is right. Decoder address setup is right.
- Decoder A (B) line connects with DVR A (B) line.

Click Save button after you complete setup, you can go back to the monitor interface to control speed dome.

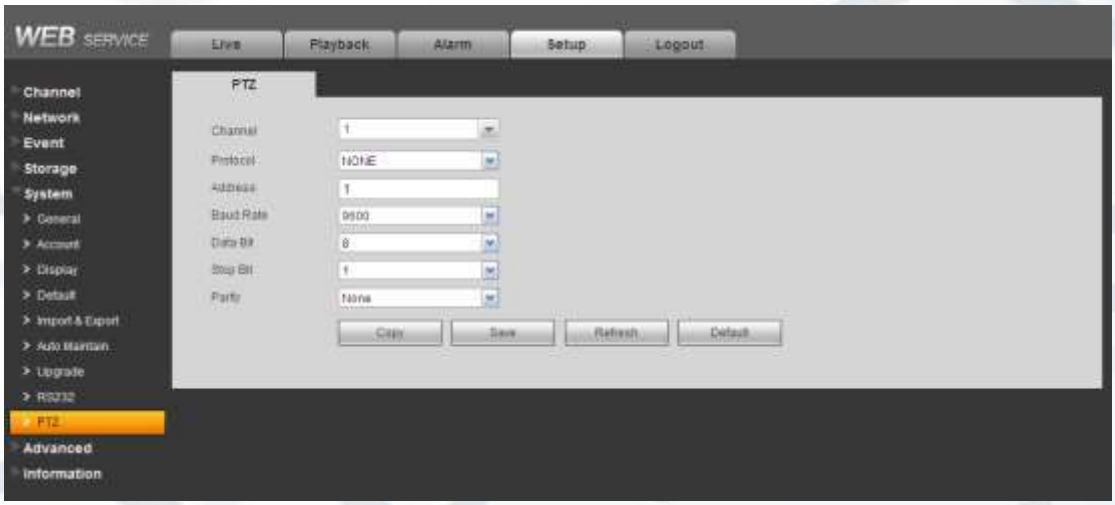


Figure 7-82

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Please refer to the following sheet for detailed information:

Parameter	Function
Channel	Select speed dome connected channel.
Protocol	Select the corresponding dome protocol such as PELCOD..
Address	Set corresponding dome address. Default value is 1. **Please note your setup here shall comply with your dome address; otherwise you can not control the speed dome.**
Baud Rate	Select the dome baud rate. Default setup is 9600.
Data Bit	Default setup is 8. Please set according to the speed dome dial switch setup.
Stop bit	Default setup is 1. Please set according to the speed dome dial switch setup.
Parity	Default setup is none. Please set according to the speed dome dial switch setup.

7.8.6 Advanced

7.8.6.1 Text Overlay

The card overlay function is for financial areas. It includes Sniffer, information analysis and title overlay function. The Sniffer mode includes COM and network.

7.8.6.1.1 COM Type

The COM interface is shown as below. See Figure 7-83.

- **Protocol:** Please select from the dropdown list.
- **Setting:** Click COM setting button, the interface is shown as in RS232 interface. Please refer to Chapter 7.8.5.8 RS232.
- **Overlay channel:** Please select the channel you want to overlay the card number.
- **Overlay mode:** There are two options: preview and encode. Preview means overlay the card number in the local monitor video. Encode means overlay the card number in the record file.
- **Overlay Position:** Here you can select the proper overlay position from the dropdown list.

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Figure 7-83

7.8.6.1.2 Network Type

The network type interface is shown as below. See Figure 7-84.

Here we take the ATM/POS protocol to continue.

There are two types: with or without the protocol according to client's requirements.

With the protocol:
For ATM/POS with the protocol, you just need to set the source IP, destination IP (sometimes you need to input corresponding port number).



Figure 7-84

Without the protocol:
For the ATM/POS without the protocol, the interface is shown as in Figure 7-85.

Source IP refers to host IP address that sends out information (usually it is the device host.)
Destination IP refers to other systems that receive information.

Usually you do not need to set source port and target port.

There are total four group IP. The record channel applies to one group (optional) only.
Six frame ID groups verification can guarantee information validity and legal.

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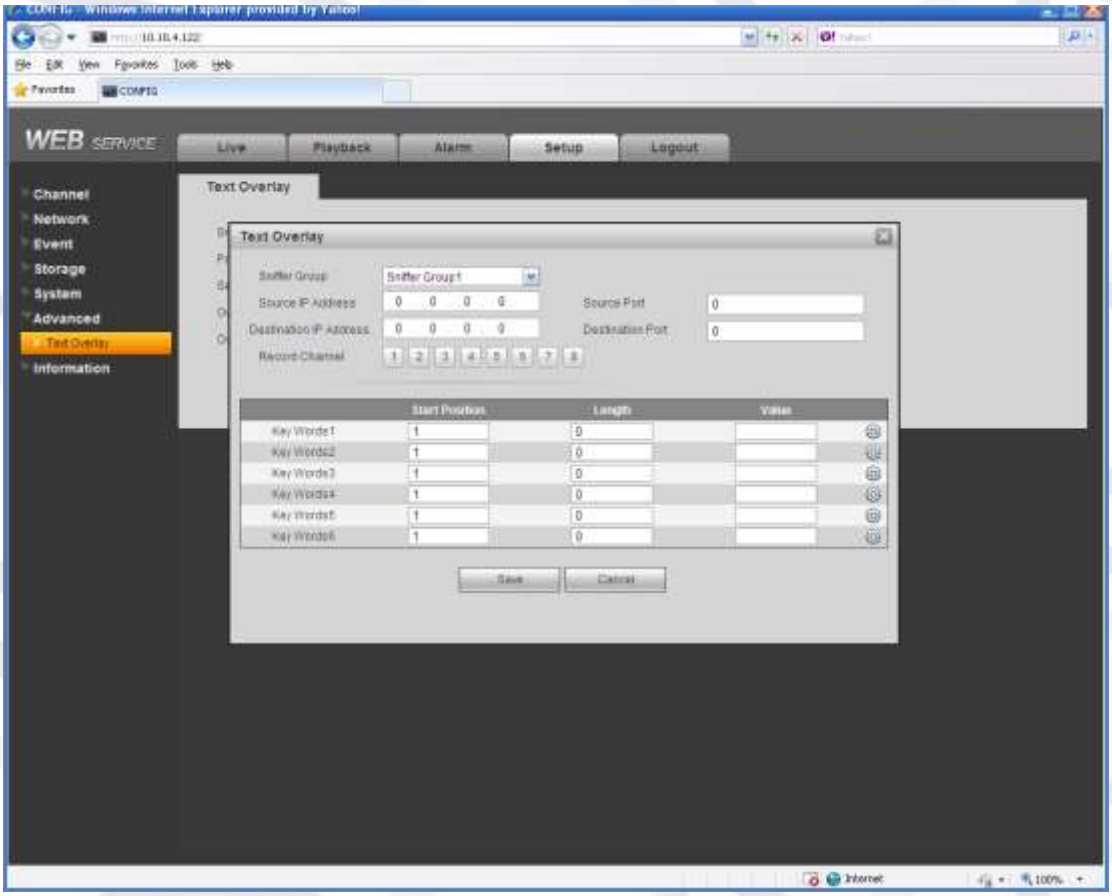


Figure 7-85

Click Data button you can set offset value, length, title according to your communication protocol and data package.

7.8.7 Information

7.8.7.1 Version

The version interface is shown as in Figure 7-86.

Here you can view system hardware features, software version, release date and etc. Please note the following information is for reference only.



Figure 7-86

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7.8.7.2 Log

Here you can view system log. See Figure 7-87.

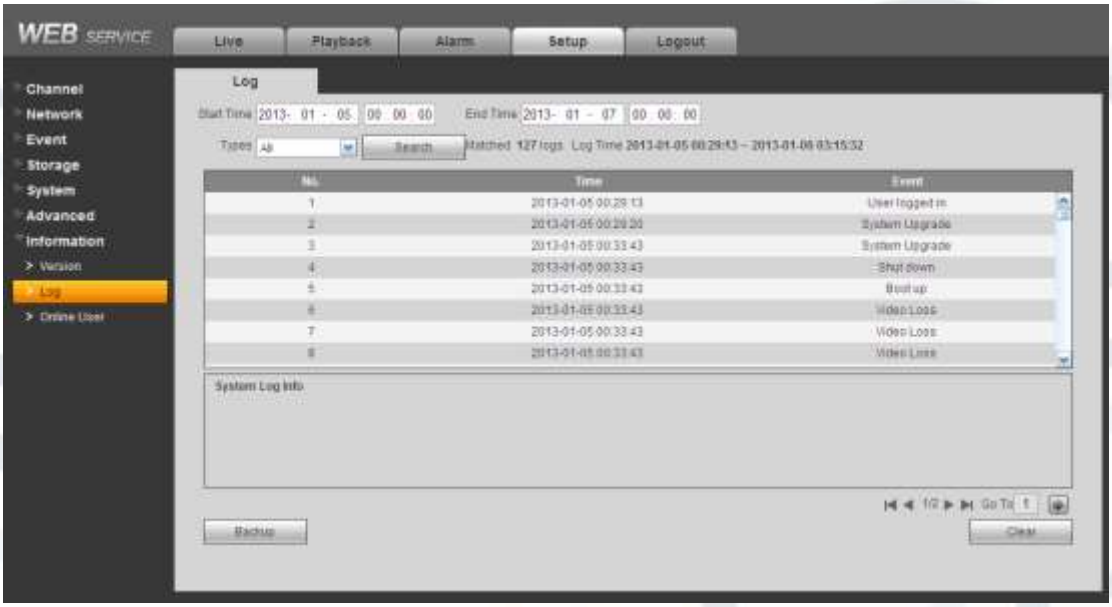


Figure 7-87

Please refer to the following sheet for log parameter information:

Parameter	Function
Type	Log types include: system operation, configuration operation, data operation, event operation, record operation, user management, log clear.
Start time	Set the start time of the requested log.
End time	Set the end time of the requested log.
Search	You can select log type from the drop down list and then click search button to view the list. You can click the stop button to terminate current search operation.
Detailed information	You can select one item to view the detailed information.
Clear	You can click this button to delete all displayed log files. Please note system does not support clear by type.
Backup	You can click this button to backup log files to current PC.

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7.8.7.3 Online User

The online user interface is shown as in Figure 7-88.

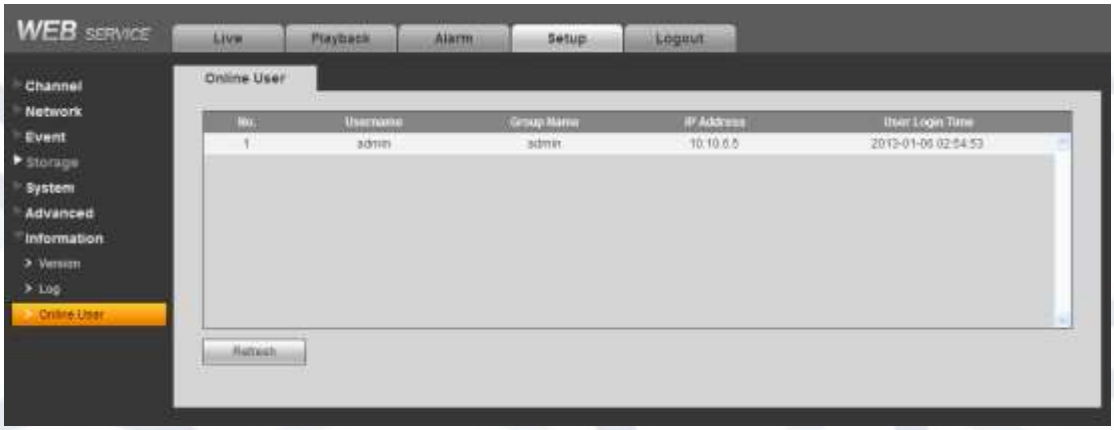


Figure 7-88

7.9 Search

Click search button, you can see an interface is shown as in Figure 7-89. Please set record type, record date, window display mode and channel name.

You can click the date on the right pane to select the date. The green highlighted date is system current date and the blue highlighted date means it has record files.

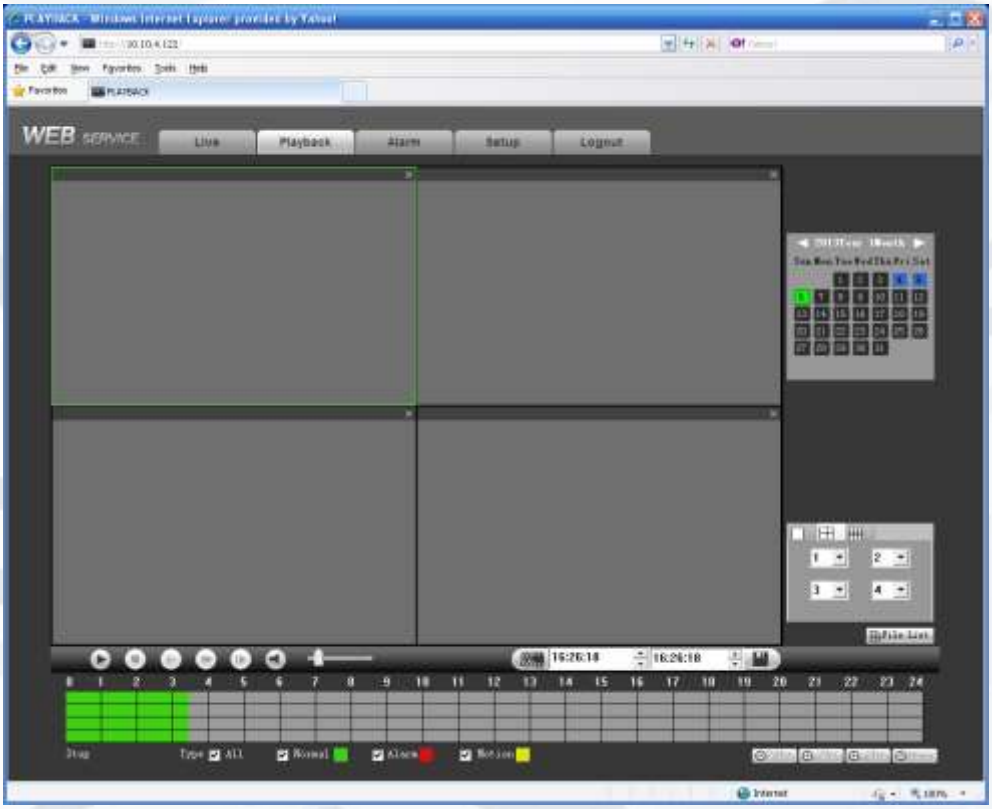


Figure 7-89

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Then please click search button, you can see the corresponding files in the list. See Figure 7-90.

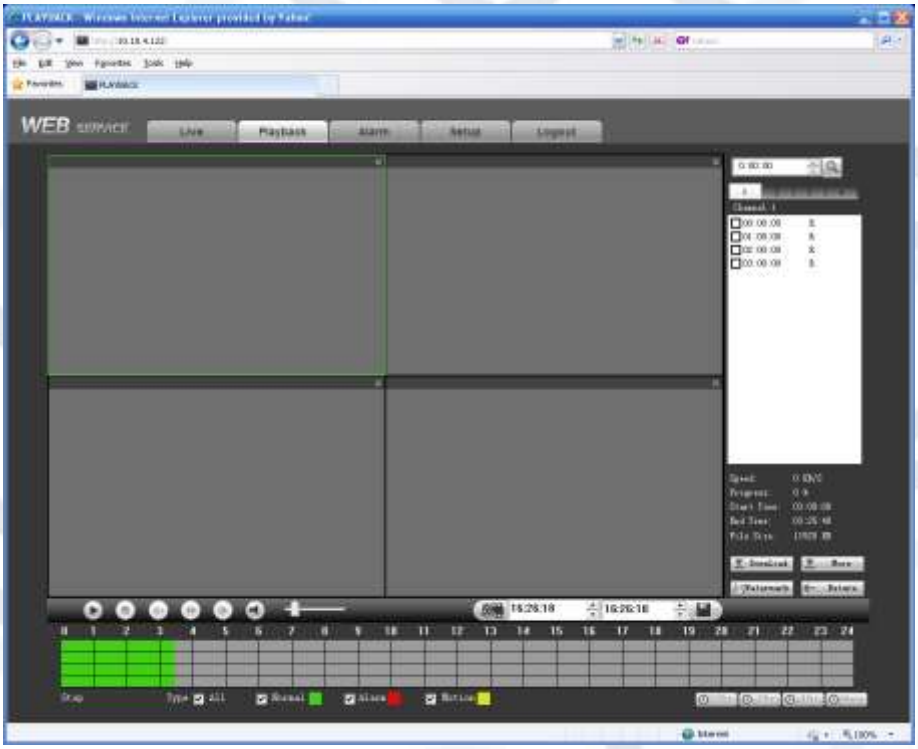


Figure 7-90

Select a file you want to play and then click Play button, system can begin playback. You can select to playback in full-screen. Please note for one channel, system can not playback and download at the same time. The record is automatically saved at the Download folder of the installation directory. Or you can download it to your specified directory. You can use the playback control bar to implement various operations such as play, pause, stop, slow play, fast play and etc. You can view playback channel and device IP during the playback process.

Select the file(s) you want to download and then click download button, system pops up a dialogue box shown as in Figure 7-91, then you can specify file name and path to download the file(s) to your local pc.

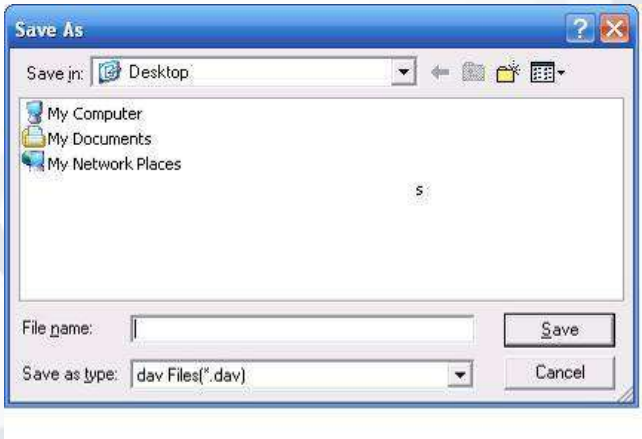


Figure 7-91

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Load more

It is for you to search record or picture. You can select record channel, record type and record time to download. See Figure 7-92.

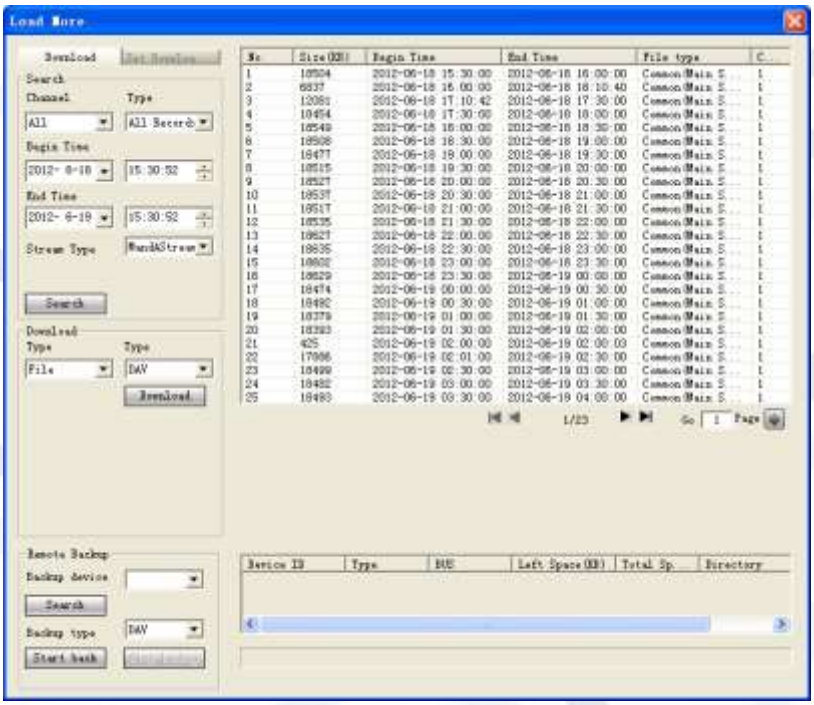


Figure 7-92

Remote backup:

In Figure 7-92, there is a remote back pane at the left bottom of the pane. It allows you to backup the record or picture to your local USB storage media via the Web remotely. Click the search button; you can view the available storage device. See Figure 7-93. Please select file(s) from the list and then Click Start backup button. Please refer to chapter 7.8.1.2.4 to set device download path.

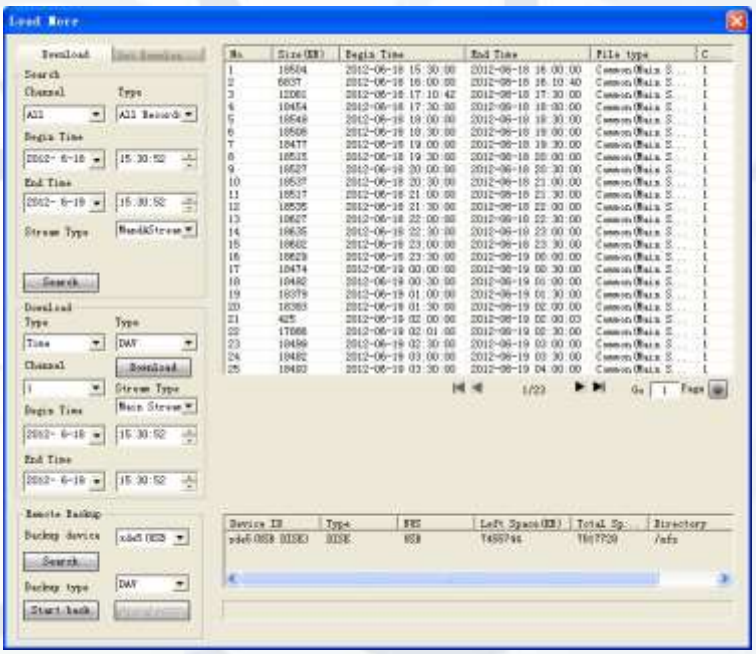


Figure 7-93

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Now you can see system begins to backup and the Stop backup button becomes valid. You can click it to terminate current operation.

At the bottom of the interface, there is a process bar for your reference.

7.10 Alarm

Click alarm function, you can see an interface is shown as Figure 7-94. Here you can set device alarm type and alarm sound setup.



Figure 7-94

Please refer to the following sheet for detailed information:

(Please make sure current device can upload the alarm)

Type	Parameter	Function
Alarm Type	Video loss	System alarms when video loss occurs.
	Motion detection	System alarms when motion detection alarm occurs.
	Camera masking	System alarms when camera is viciously masking.
	Disk full	System alarms when disk is full.
	Disk error	System alarms when disk error occurs.
	External alarm	Alarm input device sends out alarm.
Operation	Prompt	Check the box here, system can automatically pops up an alarm icon on the Alarm button in the main interface when there is an alarm.
Alarm Sound	Play alarm sound	System sends out alarm sound when an alarm occurs. You can specify as you wish.
	Sound path	Here you can specify alarm sound file.

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7.11 Log out

Click log out button, system goes back to log in interface. See Figure 7-95.

You need to input user name and password to login again.

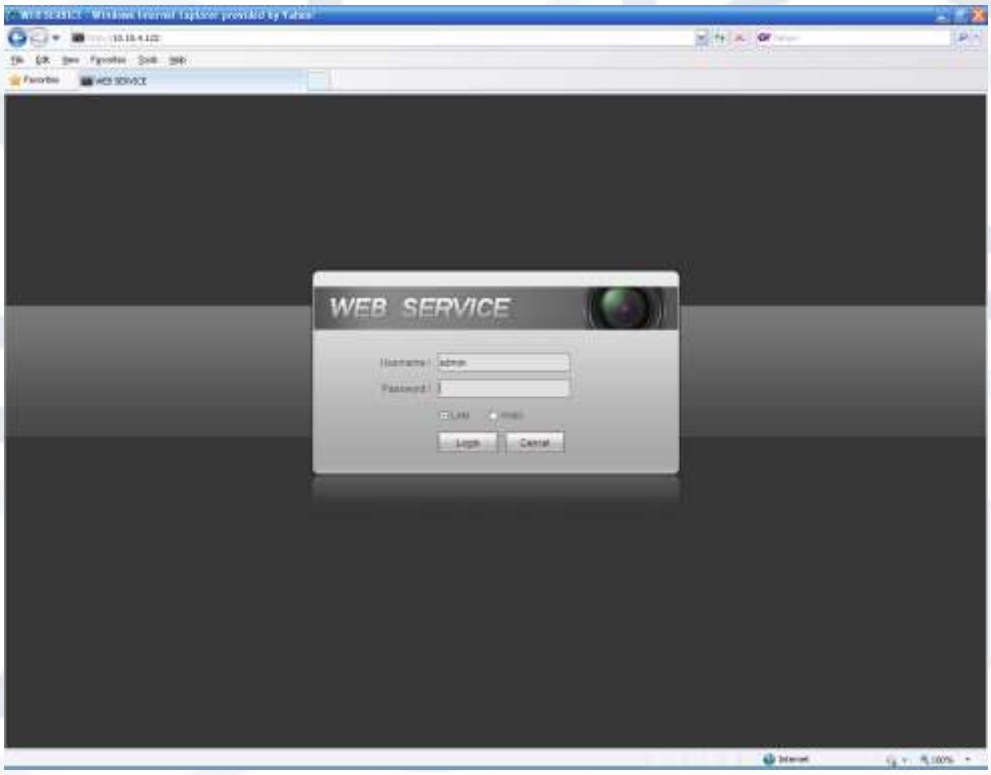


Figure 7-95

7.12 Un-install Web Control

You can use web un-install tool “uninstall web.bat” to un-install web control.

Please note, before you un-installation, please close all web pages, otherwise the un-installation might result in error.

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8 FAQ

1. DVR can not boot up properly.

There are following possibilities:

- Input power is not correct.
- Power connection is not correct.
- Power switch button is damaged.
- Program upgrade is wrong.
- HDD malfunction or something wrong with HDD ribbon.
- Seagate DB35.1，DB35.2，SV35 or Maxtor 17-g has compatibility problem. Please upgrade to the latest version to solve this problem.
- Front panel error.
- Main board is damaged.

2. DVR often automatically shuts down or stops running.

There are following possibilities:

- Input voltage is not stable or it is too low.
- HDD malfunction or something wrong wit the ribbon.
- Button power is not enough.
- Front video signal is not stable.
- Working environment is too harsh, too much dust.
- Hardware malfunction.

3. System can not detect hard disk.

There are following possibilities:

- HDD is broken.
- HDD ribbon is damaged.
- HDD cable connection is loose.
- Main board SATA port is broken.

4. There is no video output whether it is one-channel, multiple-channel or all-channel output.

There are following possibilities:

- Program is not compatible. Please upgrade to the latest version.
- Brightness is 0. Please restore factory default setup.
- There is no video input signal or it is too weak.
- Check privacy mask setup or your screen saver.
- DVR hardware malfunctions.

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5. Real-time video color is distorted.

There are following possibilities:

- When using BNC output, NTSC and PAL setup is not correct. The real-time video becomes black and white.
- DVR and monitor resistance is not compatible.
- Video transmission is too long or degrading is too huge.
- DVR color or brightness setup is not correct.

6. Can not search local records.

There are following possibilities:

- HDD ribbon is damaged.
- HDD is broken.
- Upgraded program is not compatible.
- The recorded file has been overwritten.
- Record function has been disabled.

7. Video is distorted when searching local records.

There are following possibilities:

- Video quality setup is too low.
- Program read error, bit data is too small. There is mosaic in the full screen. Please restart the DVR to solve this problem.
- HDD data ribbon error.
- HDD malfunction.
- DVR hardware malfunctions.

8. There is no audio when monitor.

There are following possibilities:

- It is not a power picker.
- It is not a power acoustics.
- Audio cable is damaged.
- DVR hardware malfunctions.

9. There is audio when monitor but there is no audio when system playback.

There are following possibilities:

- Setup is not correct. Please enable audio function
- Corresponding channel has no video input. Playback is not continuous when the screen is blue.

10. Time display is not correct.

There are following possibilities:

- Setup is not correct
- Battery contact is not correct or voltage is too low.
- Crystal is broken.

11. DVR can not control PTZ.

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There are following possibilities:

- Front panel PTZ error
- PTZ decoder setup, connection or installation is not correct.
- Cable connection is not correct.
- PTZ setup is not correct.
- PTZ decoder and DVR protocol is not compatible.
- PTZ decoder and DVR address is not compatible.
- When there are several decoders, please add 120 Ohm between the PTZ decoder A/B cables furthest end to delete the reverberation or impedance matching. Otherwise the PTZ control is not stable.
- The distance is too far.

12. Motion detection function does not work.

There are following possibilities:

- Period setup is not correct.
- Motion detection zone setup is not correct.
- Sensitivity is too low.
- For some versions, there is hardware limit.

13. Can not log in client-end or web.

There are following possibilities:

- For Windows 98 or Windows ME user, please update your system to Windows 2000 sp4. Or you can install client-end software of lower version. Please note right now, our DVR is not compatible with Windows VISTA control.
- ActiveX control has been disabled.
- No dx8.1 or higher. Please upgrade display card driver.
- Network connection error.
- Network setup error.
- Password or user name is invalid.
- Client-end is not compatible with DVR program.

14. There is only mosaic no video when preview or playback video file remotely.

There are following possibilities:

- Network fluency is not good.
- Client-end resources are limit.
- There is multiple-cast group setup in DVR. This mode can result in mosaic. Usually we do not recommend this mode.
- There is privacy mask or channel protection setup.
- Current user has no right to monitor.
- DVR local video output quality is not good.

15. Network connection is not stable.

There are following possibilities:

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- Network is not stable.
- IP address conflict.
- MAC address conflict.
- PC or DVR network card is not good.

16. Burn error /USB back error.

There are following possibilities:

- Burner and DVR are in the same data cable.
- System uses too much CPU resources. Please stop record first and then begin backup.
- Data amount exceeds backup device capacity. It may result in burner error.
- Backup device is not compatible.
- Backup device is damaged.

17. Keyboard can not control DVR.

There are following possibilities:

- DVR serial port setup is not correct
- Address is not correct
- When there are several switchers, power supply is not enough.
- Transmission distance is too far.

18. Alarm signal can not been disarmed.

There are following possibilities:

- Alarm setup is not correct.
- Alarm output has been open manually.
- Input device error or connection is not correct.
- Some program versions may have this problem. Please upgrade your system.

19. Record storage period is not enough.

There are following possibilities:

- Camera quality is too low. Lens is dirty. Camera is installed against the light. Camera aperture setup is not correct.
- HDD capacity is not enough.
- HDD is damaged.

20. Can not playback the downloaded file.

There are following possibilities:

- There is no media player.
- No DXB8.1 or higher graphic acceleration software.
- There is no DivX503Bundle.exe control when you play the file transformed to AVI via media player.
- No DivX503Bundle.exe or ffdshow-2004 1012 .exe in Windows XP OS.

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21. Forgot local menu operation password or network password

Please contact your local service engineer or our sales person for help. We can guide you to solve this problem.

22. For the HD-SDI 1080P 1.5U and 2U series product, system loses frames when record local file or the playback is not smooth.

There are following possibilities:

- Close extra stream record function.
- Close snapshot function.
- Reduce monitor channel amount of the WEB.
- Close FTP upload function.

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Daily Maintenance

- Please use the brush to clean the board, socket connector and the chassis regularly.
- The device shall be soundly earthed in case there is audio/video disturbance. Keep the device away from the static voltage or induced voltage.
- Please unplug the power cable before you remove the audio/video signal cable, RS232 or RS485 cable.
- Do not connect the TV to the local video output port (VOUT).It may result in an incorrect video output circuit.
- Always shut down the device properly. Please use the shutdown function in the menu, or you can press the power button in the rear pane for at least three seconds to shut down the device. Otherwise it may result in HDD malfunction.
- Please make sure the device is away from the direct sunlight or other heating sources. Please keep the sound ventilation.
- Please check and maintain the device regularly.

Note:

- **This manual is for reference only. Slight differences may be found when using the user interface.**
- **All the designs and software here are subject to change without prior written notice.**
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- **Please visit our website: www.adata.co.uk or contact your local service engineer for more information.**

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To download these apps please scan the QR codes below with your mobile device, using the camera feature and the appropriate QR scanner app:

iPad & Tablets:



APPLE iTunes

ANDROID Google Play

Mobile Smart Phones:



APPLE iTunes

ANDROID Google Play

WINDOWS Phone

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