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User Manual for DVR

1. Production Introduction

Network DVR is a monitoring product that allows audio and video synchronized. It adopts embedded and micro processor, so system runs more steadily. This product integrates functions such as video & audio, network transmission, alarming management, etc. Meanwhile, it has the features of DVR and DVS. It can not only work alone, but also can be networked to a powerful security monitoring network. It is widely used in school, factory, supermarket, bank, traffic, water conservancy facilities, residential area, and warehouse department, etc.

2. Installation

2.1. HDD Installation







1. Ensure Power supply has been disconnected, open the case cover;
2. Connect HDD data line, power line first , then fix the HDD in the case;
3. Install the cover, connect the power, which with adaptor, press the power switch;
4. Formatting the HDD (Please check details from : [System Setup—Peripheral—Storage Device—Formatting](#));
5. Network DVR can normally make snapshot and video.

2.2. Remote Operation



No.	Name	Description									
1	POWER	Press for about 3-5 seconds to shut down the DVR.									
2	DEV	Device match ID, can make the Remote and DVR one-to-one control, take 【4.6.3.2 Device No.】 for reference.									
3	No. Key	1.can make the channel full screen 2.can input numbers and English character.									
4	ALL	Switch to multi-channels mode									
5	MENU	Press this key , it will recycling show Right Click Menu, Main Menu and Status Menu									
6	ESC	Close the upper operation interface;									
7	Direction Keys	1. To simulate mouse moving; 2. Select PTZ channel, while no interface can make PTZ turning. OK is confirm/select function									
8	FN	Popup system settings screen									
9	Playback Key	In turns: <table border="1"> <tr> <td>Play/back</td><td>Play</td><td>Pause</td></tr> <tr> <td>Frame play</td><td>Fast Forward</td><td>Fast Backward</td></tr> <tr> <td>Play Slowly</td><td>Stop</td><td>REC</td></tr> </table>	Play/back	Play	Pause	Frame play	Fast Forward	Fast Backward	Play Slowly	Stop	REC
Play/back	Play	Pause									
Frame play	Fast Forward	Fast Backward									
Play Slowly	Stop	REC									
10	PTZ	ZOOM+/-: Adjust PTZ camera lens distance; Cruise: open/close cruise line									
11	SHIFT	Switch between English uppercase letters and lowercase letters									

2.3. Previewing window Icon Description

Icon	Description
	Means recording
	Means client-end is linking this channel.
 (Yellow)	means that this channel is set alarm, but is not triggered
 (Red)	Means the alarm is triggered.
	Means this window voice monitoring close.
	Means this window voice monitoring open.

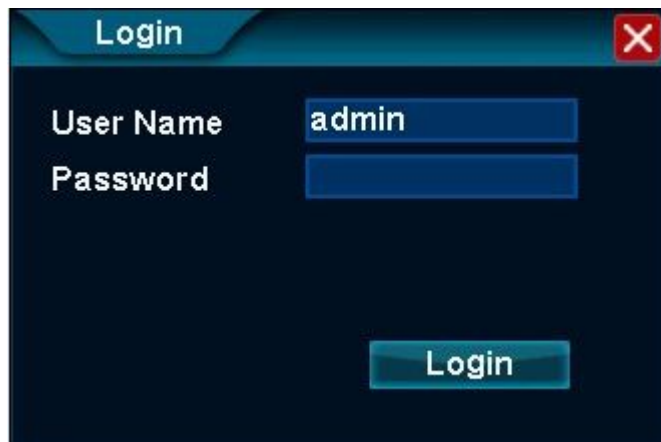
3. Fast Operation

3.1. Login

3.1.1. Normal Login

After starting system, it will popup [Login] screen, after user login can make other operation.

Remarks: If cancel [System Setup/General/General/Display Wizard] function, the login prompt won't given unless users operate the DVR.



Steps:

1. [User Name] input default user name 'admin';
2. [Password] is empty, that is nothing input;
3. Single click [Login], then finish login operation.

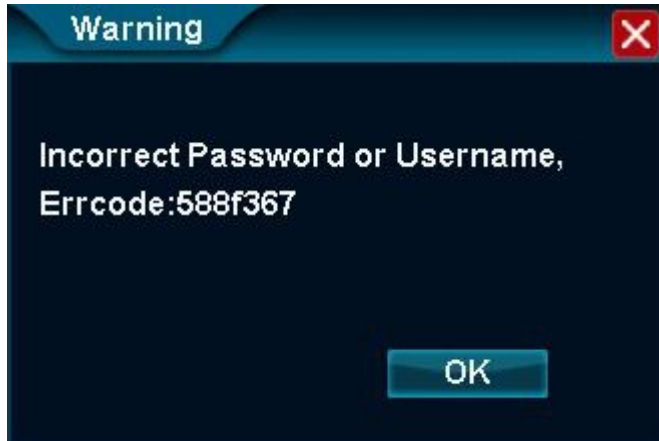
Remarks: If login failure for 3 times, mouse will be locked for 10 seconds, DVR will alarm until login successfully .

3.1.2. Temporary Login

If forget user name and password and make login failure, can use temporary login.

Steps:

- a) Error login again, note [Errcode],
- b) Contact with customer service, they will tell a temporary user name and password.



3.2. Menu Operation

Menu Operation is functions at [Right Click Menu] and [Main Menu],in order to make operation more easily.

Menu function as follows:



Right Click Menu: System Setup, View Layout , Video Adjust, PTZ, Clients, Snapshot, Photos, Record Setup, Playback, Clear Alarm



Main Menu: : System Setup, View Layout(3 layout), Sequence Interval, Zoom, Video Adjust, PTZ, Snapshot, Photos, Record Setup, Playback, Shutdown.

3.2.1. View Layout

Function Location: Right Click Menu:



Main Menu:



Function Summary: while previewing, it can adjust screen distribution mode, can choose View1, View2 (Picture in Picture), View4, etc.

Function Introduction:

Mode	Screen No.	Picture Changes	Display Order	Full Screen	Remark
1View	1	Select 'Channel No.'	1, 2, 3...16	/	/
2View (Picture in Picture)	2	Click 'Picture in Picture'	1+2, 3+4... 13+14, 15+16	Double click	Press on the small picture for a little long time , then can drag the picture
4View	4	Click 'View4'	1~4, 5~8, 9~12, 13~16	Double click	/

3.2.2. Sequence Interval




Function Location: Main Menu:

Function Summary: [Sequence interval] can show the previewing screen in turns, after finishing Sequence Interval, the screen layout will be the same with that before this function.


Steps:



1. Single click  at main menu to start Sequence Interval function ;
2. Setup how time interval ;

3. Single click [OK], then start 'Sequence Interval'



4. Single click  button, can stop Sequence interval function.
- 5.

3.2.3. Video Adjust



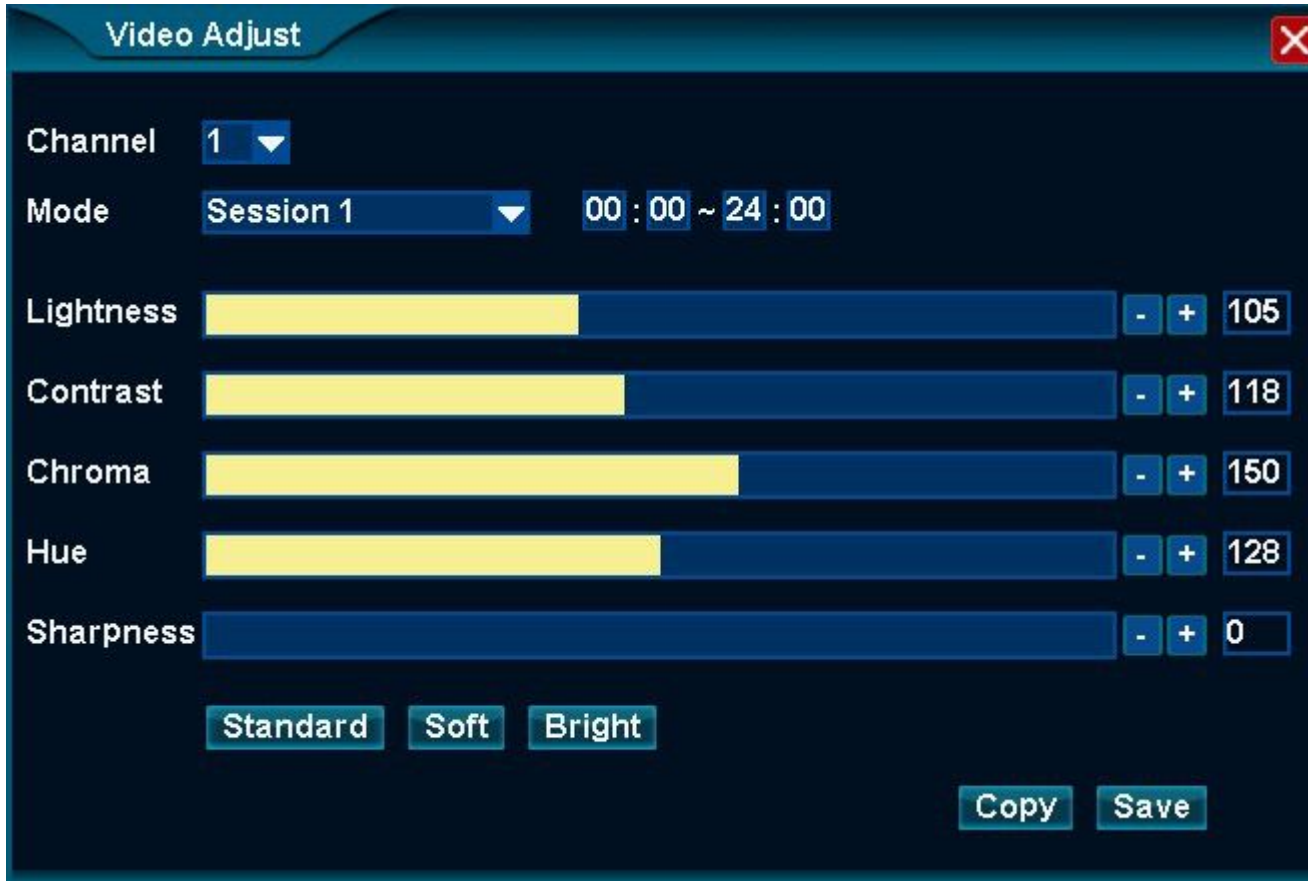
Function Location: Right Click Menu:



Function Summary: can setup different video effects during different time range.

For Example: Session1 can setup as Day effect, Session2 setup as Night effect.

3.2.3.1. Session1



Steps:

1. From Right Click Menu or Main Menu, Single click video Adjust Icon;
2. Select channel need adjusting ;

3. Mode select [Session 1], setup the effective time range;

Remarks: Session 1 default as the whole day

4. Manually Adjust [Contrast, Chroma, Hue, Sharpness] ;

Remarks: Also can single click [Standard, Soft, Bright] for speedy settings.

5. Single Click [Save] to take effect.

Remarks: [Copy] can copy this setup to all channels.

3.2.3.2. Session 2

Steps:

Setup steps of Session2 is the same with Session1.

Remarks: change Session2 valid time range into Night (for example 17:30~06:00), it will be night mode.

3.2.4. PTZ

Function Location: Right Click Menu:



Main Menu:



Function Summary:

1. [PTZ Adjust] can adjust PTZ lens direction, Iris, Focus, Zoom, Speed.
2. [Preset positions Cruise] can adjust Preset Positions, Cruise Line, Aux.

3.2.4.1. PTZ Adjust



PTZ Adjust Steps:

1. Right Click Menu or Main Menu select [PTZ Control];
2. Change Channel No. into PTZ Channel;
Remarks: After selecting, it will be full screen showing; single click [16 View] can get multi-screen;
3. Change PTZ moving speed;
4. Single click up/down/right/left button to adjust PTZ lens direction;
Remarket: [Auto] can make PTZ Horizontal roll.
5. Single click [Iris/Focus/Zoom] can adjust brightness, focus, and image resizing.

Single Click [More] enter '3.4.5.2 Preset point Cruise'

3.2.4.2. Preset Point Cruise

Include Aux function, Preset, Patrol.

3.2.4.3. Aux Function



1. Choose 'AUX' function No;
2. Single click [AUX OPEN] can open corresponding function, for example wiper;
3. Single click [AUX CLOSE] can close the function.

3.2.4.4. Preset



1. Choose 'Preset No.' , for example :1;
2. Single click [Goto] can invoke the preset point.

3.2.4.5. Patrol



1. Single click [Patrol] , PTZ enter cruising condition;
2. Single click [Stop] , PTZ stop cruising.

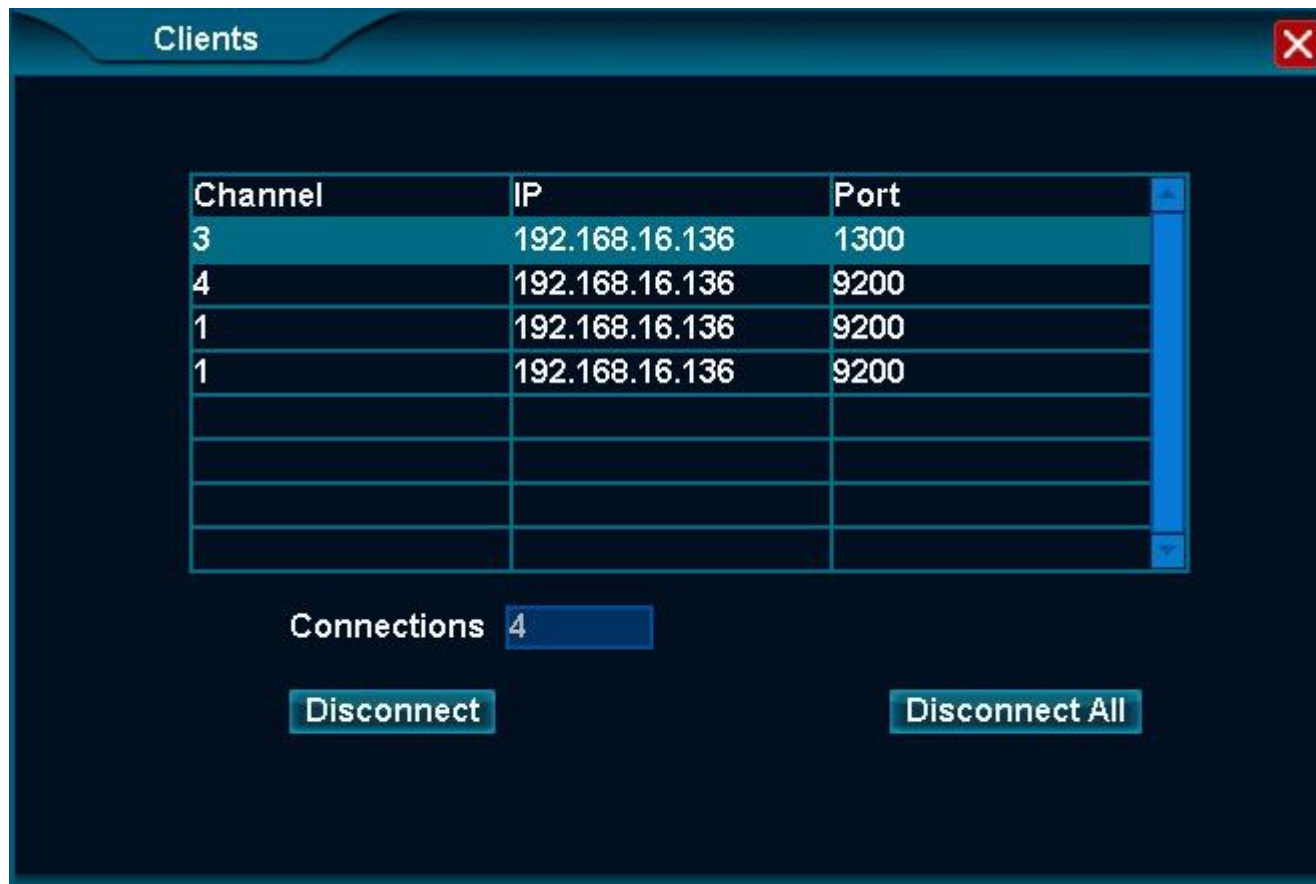
3.2.5. Clients

Function Location: Right Click Menu:



Function Summary:

1. Count client-end numbers that connecting with the DVR;
2. Disconnect any connection, or disconnect all connections.



All client-end connection information: channel, IP, Port, and Connections all information can check here.

Disconnect Steps:

1. From the list, select any channel to connect;
2. Single click [Disconnect] , can disconnect the remote connection;
3. Single click [Disconnect All], can disconnect all remote connection.

3.2.6. Snapshot

Snapshot function includes [Snapshot], [Photos] two functions.

3.2.6.1. Snapshot

Function Location: Right Click Menu:



Main Menu:



Function Summary: : can make snapshot of object image and store into the HDD.

Steps:

1. Right click Right Click Menu or Main Menu [Snapshot];
[Remarks: enter snapshot condition; the mouse icon will change into camera icon.](#)
2. Move into snapshot screen, single left click can get the snapshot, check the picture for prompt;
3. Right click can cancel snapshot condition.

3.2.6.2. Photos

Function Location: Right Click Menu:



Main Menu:



Function Summary:

1. Can query the snapshot stored in the DVR, include Manual Snapshot, Alarm Snapshot, Record Snapshot.
2. Can copy the snapshot into USB disk.



3.2.6.3. Snapshot Query

Steps:

1. [Search Type] choose snapshot type, default is All Picture;
2. [Channel] choose the channel for snapshot, default is All channels;
3. [Start] ~[End] is snapshot time range (Longest is 1 month), default is 'today' ;
4. [Search] button, single click, then the right list can show the eligible snapshot.

[Remarks: single click can show the snapshot contents.](#)

3.2.6.4. Picture Backup

Steps:

1. Connect FAT32 format U disk into the DVR USB port;
2. Single click to choose a picture and it can only choose one;
3. Single click [Backup to USB], after the prompt shown backup successfully can take away the U disk.

3.2.7. Record Function

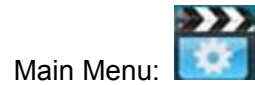
Record function includes:

1. **Record Setup:** open/close Manual Record (default is open), open/close Scheduled Record;
2. **Playback:** Query, Playback, Backup.

3.2.7.1. Record Setup

Function Location: Right Click Menu:





Function Summary:

1. Can open/close each channel Manual Record;
2. Can open/close each channel Scheduled Record?

3.2.7.2. Manual Record

Record Setup

Channel	Manual	Scheduled			
01	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Set	<input type="checkbox"/>	Set
02	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Set	<input type="checkbox"/>	Set
03	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Set	<input type="checkbox"/>	Set
04	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Set	<input type="checkbox"/>	Set
05	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Set	<input type="checkbox"/>	Set
06	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Set	<input type="checkbox"/>	Set
07	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Set	<input type="checkbox"/>	Set
08	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Set	<input type="checkbox"/>	Set

Copy
Default
OK
Cancel

Step I: Open Manual Record

1. Right Click Menu or Main Menu .Select [Record Setup];
2. Select channel, and choose 'Manual' option;

Remarks: [Copy] can make the settings apply to all channels

3. Single click [OK] to open Manual Record ;

Remarks: Recording channel has the icon: , Manual Record default is open .

Steps II: Close Manual Record

1. Choose the channel, cancel 'Manual' Option;

Remarks: [Copy] can apply the settings to all channels.

2. Single click [OK] TO CLOSE Manual Record function.

3.2.7.3. Scheduled Record

Record Setup ✕

Channel	Manual	Scheduled			
01	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Set	<input type="checkbox"/>	Set
02	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Set	<input type="checkbox"/>	Set
03	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Set	<input type="checkbox"/>	Set
04	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Set	<input type="checkbox"/>	Set
05	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Set	<input type="checkbox"/>	Set
06	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Set	<input type="checkbox"/>	Set
07	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Set	<input type="checkbox"/>	Set
08	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Set	<input type="checkbox"/>	Set

Copy
Default
OK
Cancel

Step I: Open and Setup Scheduled Record

1. Right Click Menu or Main Menu. Select [Record Setup];
2. Select channel, and choose 'Scheduled' option;

Remarks: [Copy] can make the settings apply to all channels

3. Single click [Set] to modify Scheduled Record time range;

Remarks: Scheduled Record can be divided into 2 time ranges.

4. Single click [OK] to OPEN Scheduled Record

Remarks: channel has the icon: .

3.2.7.4 Playback

Function Location: Right Click Menu:



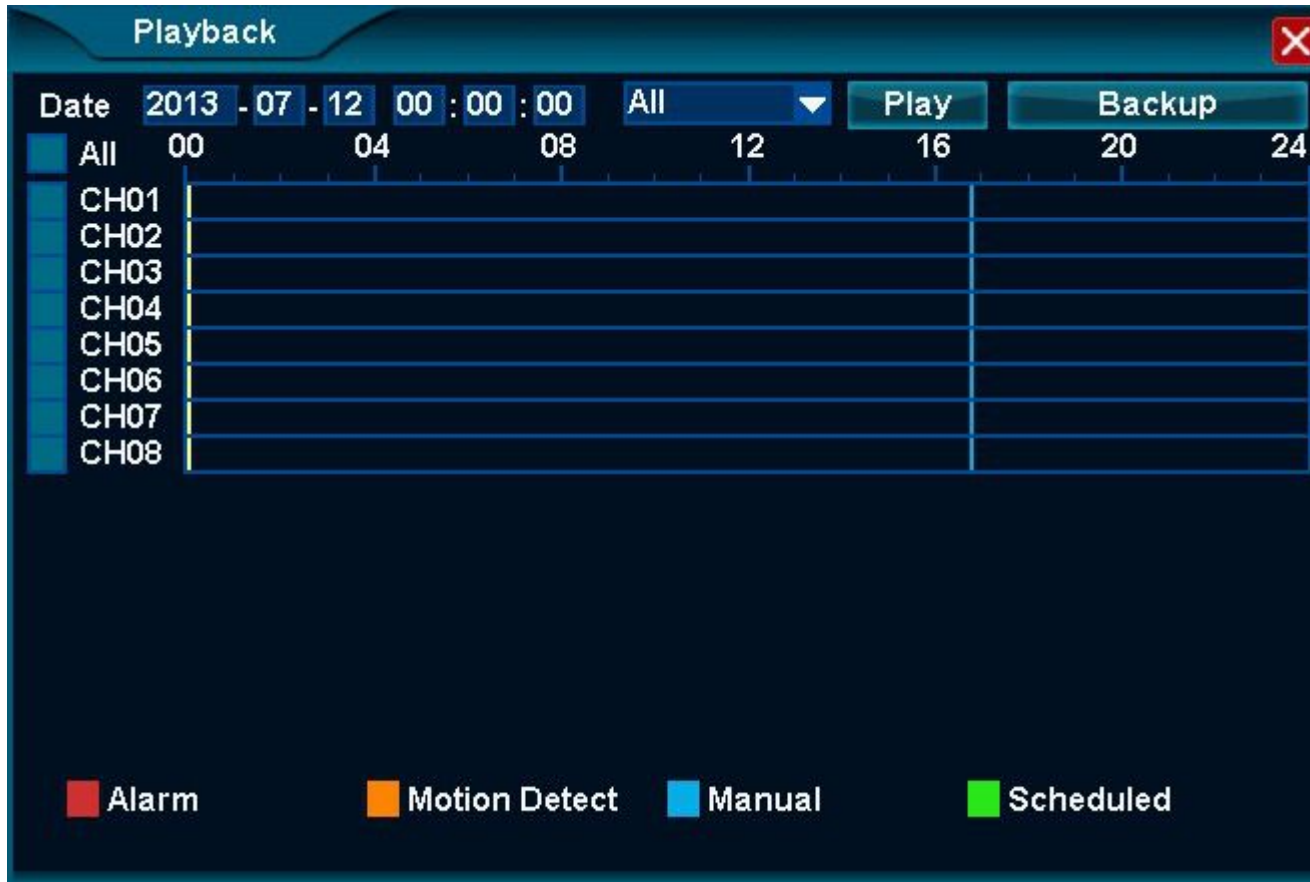
Main Menu:



Function Summary:

1. It can query, playback record file of any channel;
2. It can backup file into U disk.

3.2.7.4.1 Query Playback

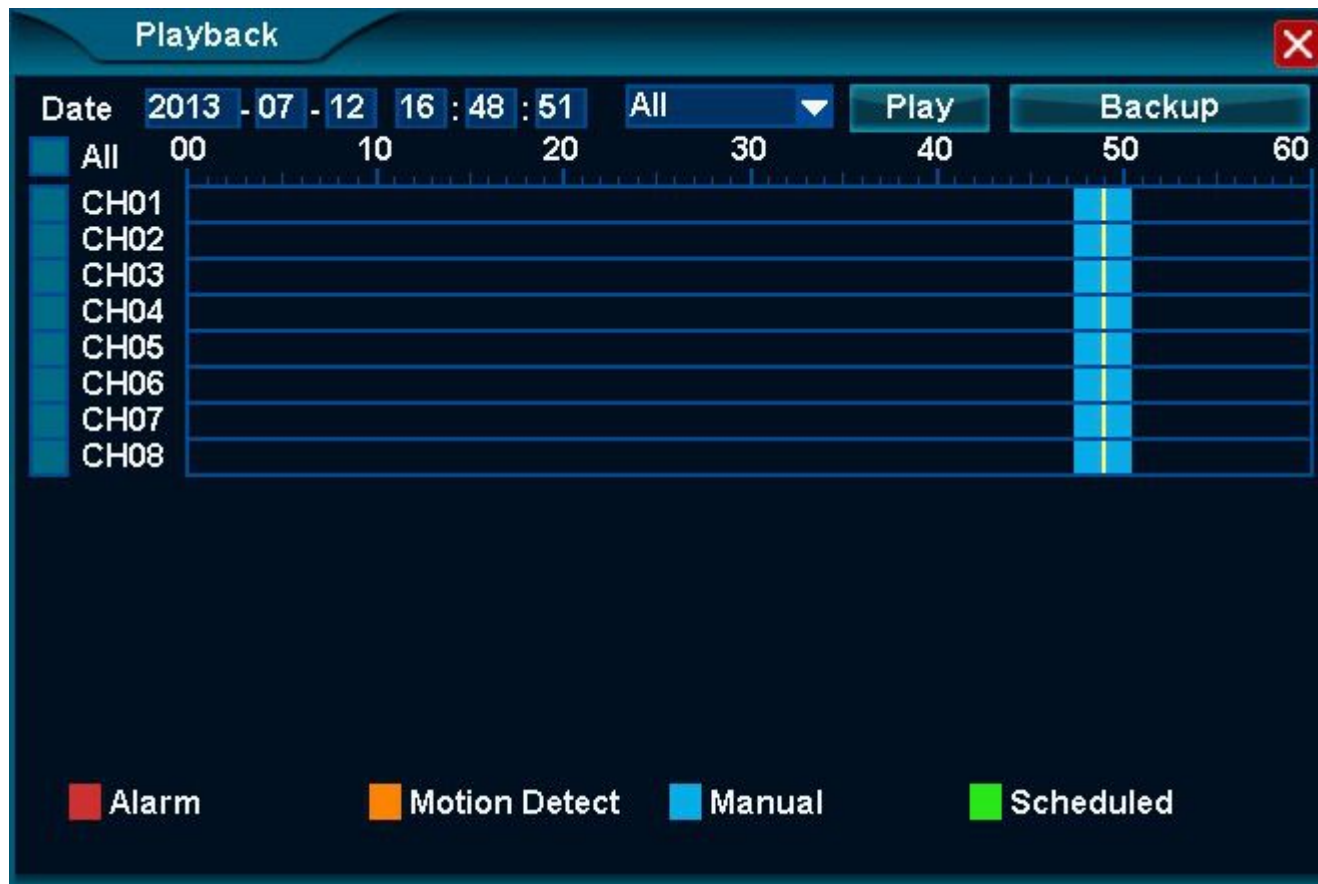


Operation Steps:

1. Right Click Menu or Main Menu[Playback] ;
2. Modify playback starting date and time

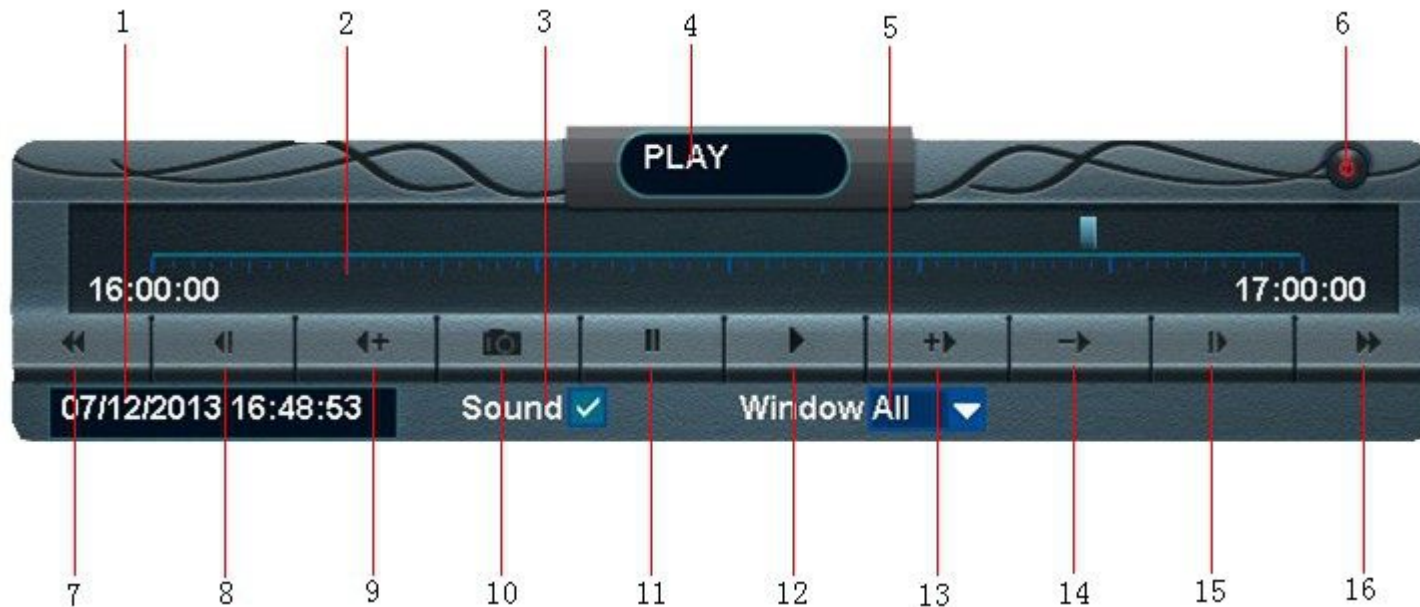
Remark: Also can click to choose playback position, double click open minute view as follows, double click again back to hour view.

3. Choose video type: Scheduled/ Manual/ Alarm/ Motion Detection ;
4. Choose playback channel , can multi-select or all select;
5. Single click [Play] button, can display the video.



3.2.7.4.2 Playback Adjusting

When playback, users can adjust the speed and progress.



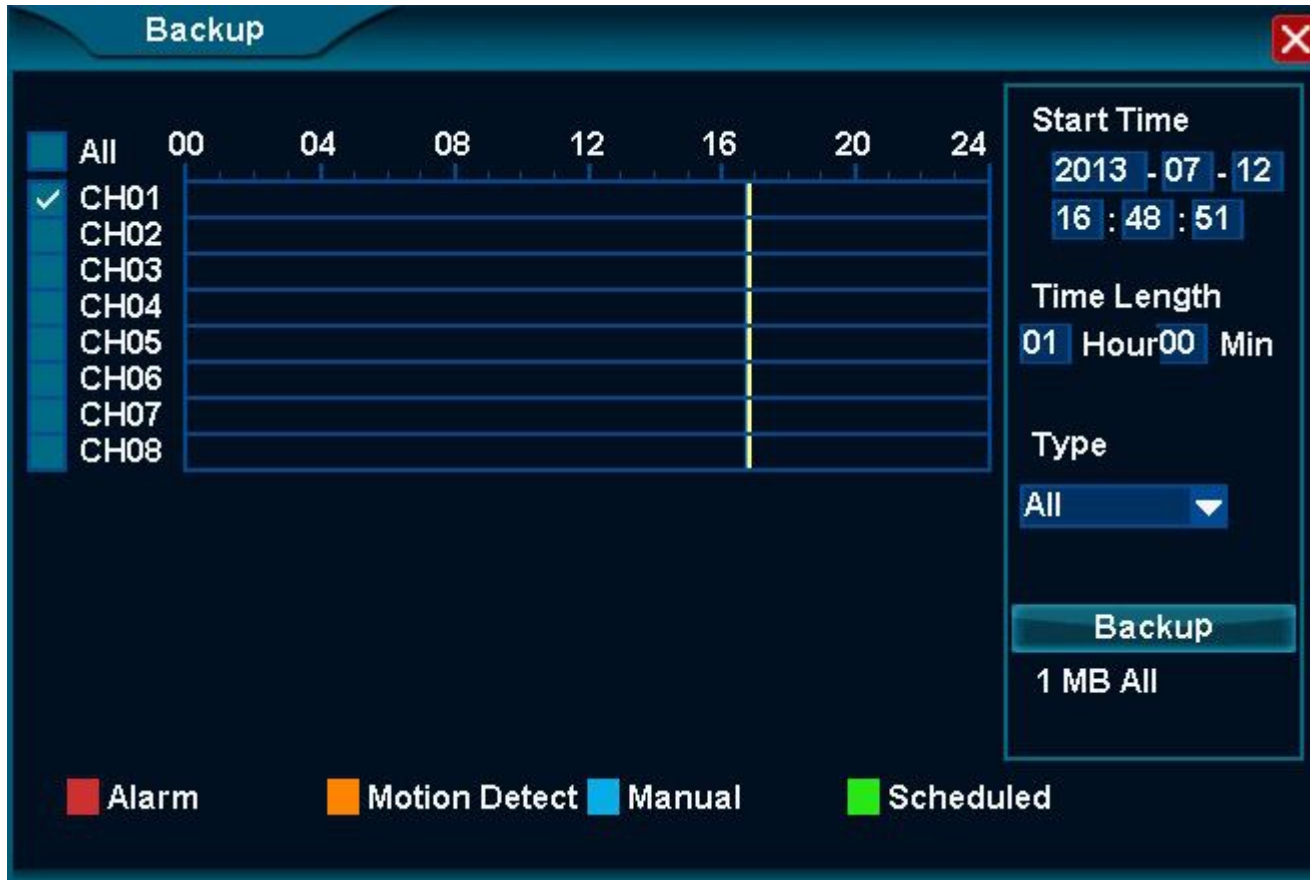
Serial No.	Name	Description	Serial No.	Name	Description
1	Playback time	Current playback time	9	Fast Backward	Fast backward display, single click to switch X8/X16

User Manual for DVR

2	Progress Bar	Progress of the current playback file in 1 hour	10	Snapshot	Snapshot for object screen
3	Sound	Open/close sound playback	11	Pause	Pause display
4	Condition	Playback Condition	12	Display	Display the video
5	Window	Choose the operation window	13	Fast Display	Accelerate display , single click to switch X2/X4/X8/X16
6	Shutdown	Exit the playback	14	Slow Display	Decelerate display, single click to switch X1/2 X1/4 X1/8 X1/16
7	A Hour Ago	Choose the window and playback the video a hour ago	15	Single Frame	Each single click can go ahead 1frame
8	Backward	Each single click chosen widow ,it will back up 2S	16	Next a Hour	Choose the window and display the video next hour

3.2.7.5 Backup

It can backup the record file into U disk.



Operation Steps:

1. Single click [Backup] , open the backup interface;
2. Modify the backup start time;

3. Modify the backup time range;
4. Choose Record Type, Scheduled/ Manual/Alarm/ Motion detection record;
5. Choose backup channel;
6. Single click [Backup] to backup the file selected into U disk;
7. Install the display plug-in, then can use Media Player to display the backup file.

3.2.8 Clear Alarm



Function Location: Right Click Menu:

Function Summary: can clear some channel or all channel Alarm effect.

Operation Steps:

1. Right click alarming channel, choose [Clear Alarm/ Current] can clear alarming of current channel;
2. Right click all channels, choose [Clear Alarm/ Clear All] can clear alarming of all channels.

3.2.9 Shutdown



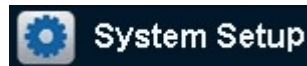
Function Location: Main Menu:

Function Summary: can Logout, Shutdown and Restart.



4 System Setup

Function Location: Right Click Menu:



4.1 Functional Structure

Category	Group	Function Point
General	General	Language, NTSC/PAL, Transparency, VGA Resolution, Wizard, Speedy Function
	Time	Date, Time, Auto Synchronize Time, Time zone Setting

User Manual for DVR

	User	Local user, Network User, Automatic Logout
Channel	Preview	Ch Name, OSD Position, Hide Video, Privacy Mask
	Stream	Main Stream, Minor Stream
	Audio	Audio Compress, Audio Monitoring, Bind with Video
Network	Setting	Dialing Setting, IP Setting
	Service	WebCC, Bi-directional Talk
Alarm	Motion Detection	Motion Detection Alarm Setup, Alarm Output
	No Video	Video Loss Alarm Setup, Alarm Output
	Alarm Device	Alarm Device Alarm Input Setup, Alarm Output
	Alarm Task	Motion Detection, No Video, Alarm Device, Start Time/ End Time Setting of Alarm input
	E-mail	Alarming E-mail Server, Sender Setting, Receiver Setting
System	Log	Log Query, Backup
	Maintenance	Reboot Setup, Update, Reset Factory, Import Setting, Export Setting
	Information	Product Model, Serial Number, Software Version, Hardware Version Software Release Time
Device	Storage	Storage device condition, Format
	PTZ	PTZ Setting, Preset, Patrol
	Other Device	Width of Monitor, Height of Monitor, Device ID, Main Display Device

4.2 General

Functions:

General: for example: Language, NTSC/PAL, Transparency, VGA Resolution, Display Device ID, Wizard, etc.;

Time: for example date format, Set Date/Set Time, Auto Synchronize Time, Time zone setting;

User: Local User, Network User Add/Delete/ Edit.

4.2.1.1 NTSC/PAL

Function Location: General—General—NTSC/PAL

Function Summary: change the current video standard, supports standard **PAL/NTSC**.

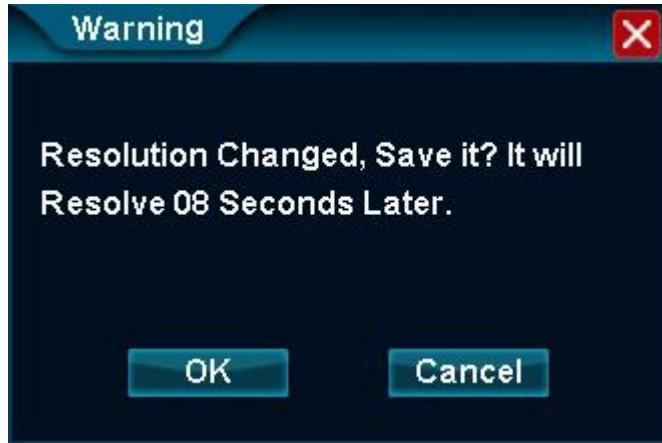
Remark: It takes effect after restarting.



4.2.1.2 VGA Resolution

Function Location: General/General/VGA Resolution

Function Summary: Modify resolution of the DVR output to display.



Remarks: After modifying the resolution, if not confirm in 10 seconds, it will automatically cancel in order to avoid problem of display doesn't support large resolution

4.2.1.3 Wizard

Function Location: General/General/Wizard

Function Summary: choose this function, while starting the DVR, it will display as startup

Remarks: click Wizard button can enter wizard screen at any time.

4.2.1.4 Function Demo

Function Location: General/General/Function Demo

Function Summary: display as a demo, guide the user to make speedy setup

4.2.2 Time

Function Location: General/Time

Function Summary: Setup system time, for example Set date, Set Time, Timezone Setting, Auto Synchronize Time, etc.



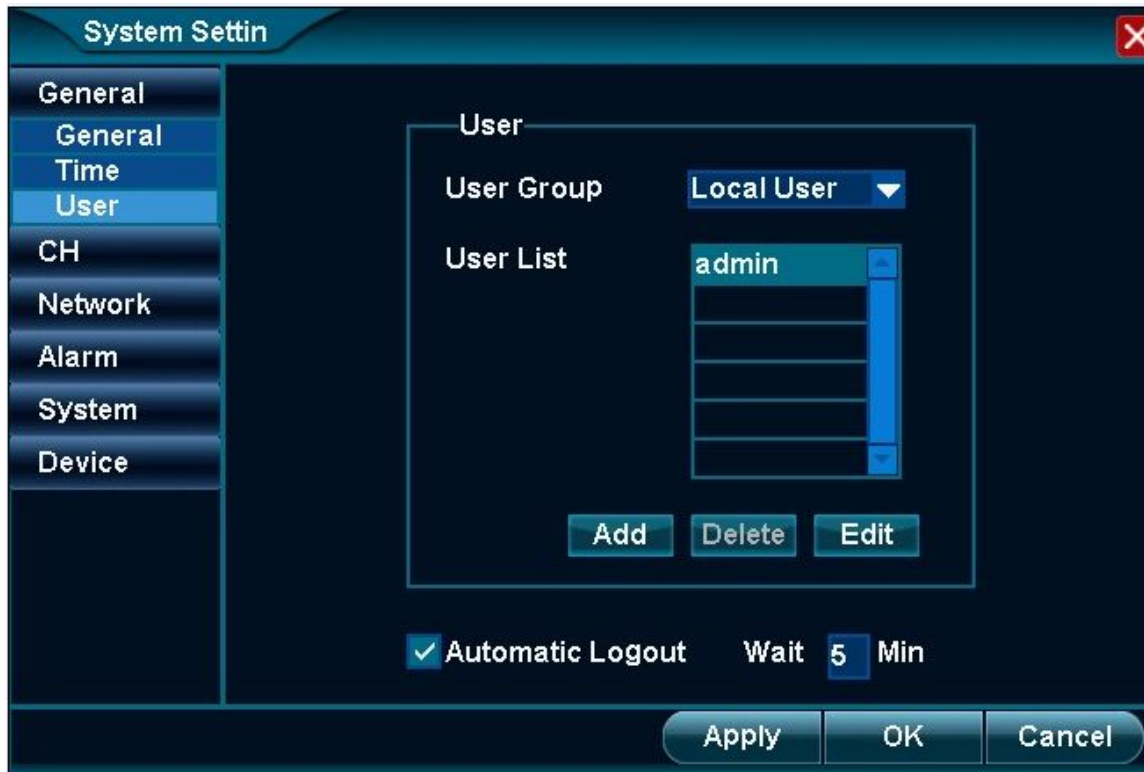
4.2.3 User

4.2.3.1 Local User

Function Location: General/ User/ Local User

Function Summary:

1. It allows local users login the DVR and make allowed operation;
2. It allows add/edit/delete local users.





The image shows a 'Local User' dialog box with a dark blue background and a teal header. The header contains the title 'Local User' and a red close button. Below the header, there are two input fields: 'User Name' and 'Password'. Underneath these fields, there are eight checkboxes arranged in two columns. The left column contains 'Record Management', 'Clients', 'PTZ', and 'Quit'. The right column contains 'Snap Management', 'System Setup', 'Video Adjust', and 'User Management'. At the bottom of the dialog, there are four buttons: 'All', 'None', 'OK', and 'Cancel'.

Local User

User Name

Password

<input type="checkbox"/> Record Management	<input type="checkbox"/> Snap Management
<input type="checkbox"/> Clients	<input type="checkbox"/> System Setup
<input type="checkbox"/> PTZ	<input type="checkbox"/> Video Adjust
<input type="checkbox"/> Quit	<input type="checkbox"/> User Management

4.2.3.1.1 Automatic Logout

Function Location: General/ User/ Automatic Logout

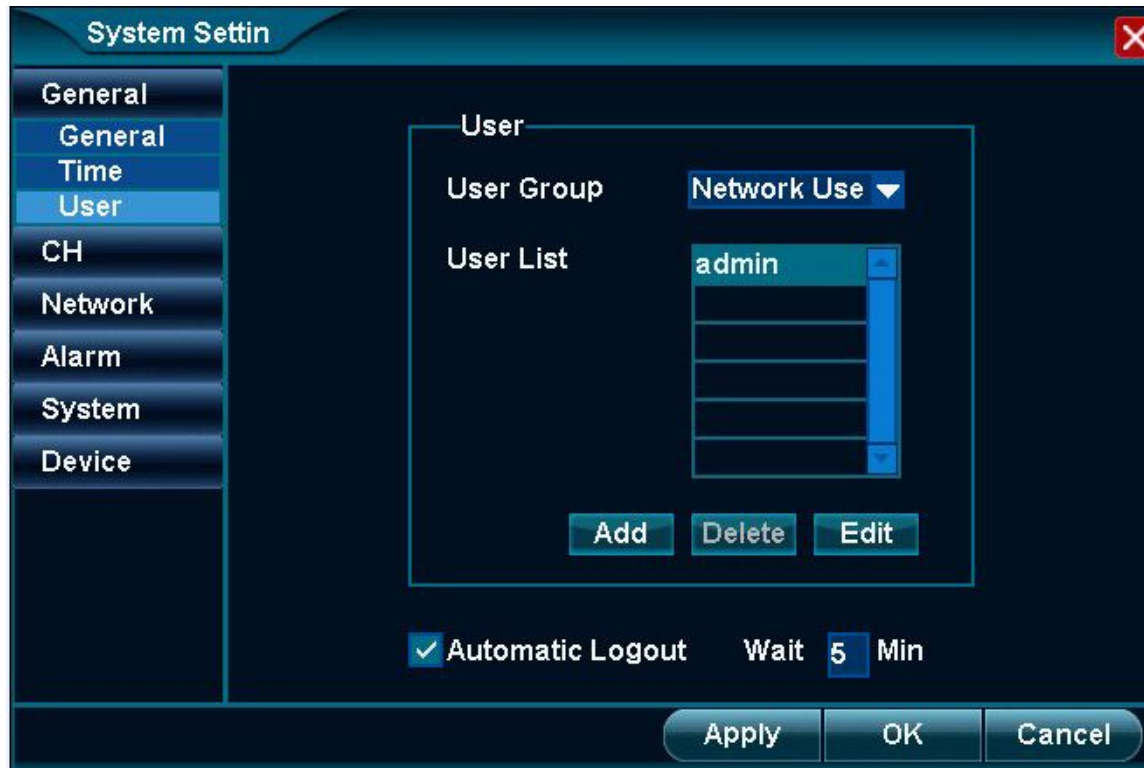
Function Summary:

1. As User operation upto the duration set, it will automatically logout (1-99 mins);
2. Users need to login again to continue the operation t, this function in order to improve the safety.

4.2.3.2 Network User

Function Location: General/ User/ Network User

Function Summary: while remote monitoring, this setting will be as the user name and password in client-end.



Network User

User Name

Password

PTZ

System Setup

CH01

CH05

Playback

Other

CH03

CH07

CH04

CH08

All

None

OK

Cancel

4.3 Channel

Function: 1.**Preview setting**: Channel name, OSD position, Hide video, Privacy mark;
2.**Code stream setting**: Main code stream image size and code rate; minor code stream image size, kbps, fluency
3.**Audio setting**: Audio compression, Audio monitoring

4.3.1 Preview setting

4.3.1.1 Preview adjustment

Function position: Channel| Preview setting

Function introduction: 1.Modify channel name;
2. Modify OSD position
3. Hide video



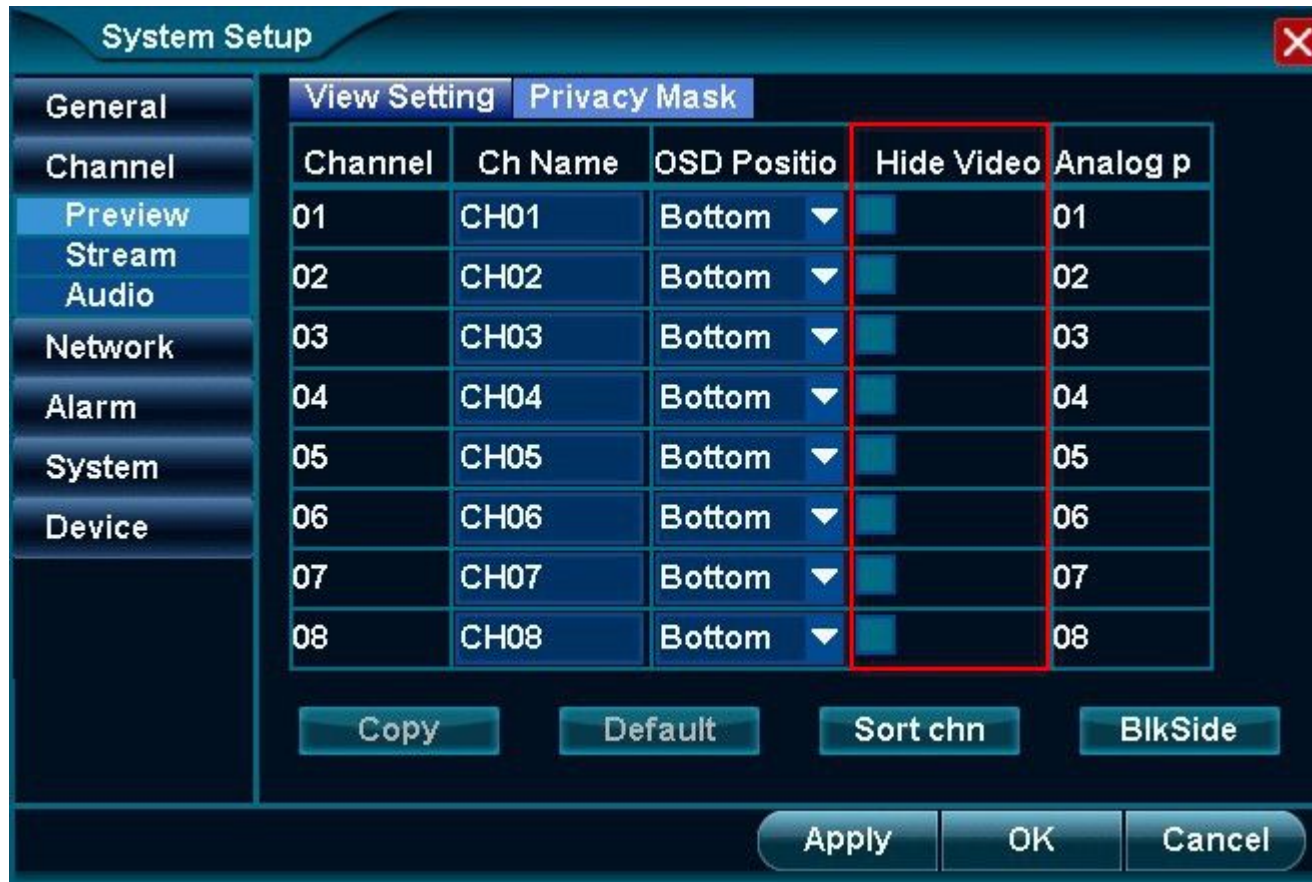
4.3.1.1.1 Modify channel name



4.3.1.1.2 Modify OSD position



4.3.1.1.3 Hide video



Steps:

1. Left lick the box after “Hide Video”

Click **【Apply】** or **【ok】** ,then preview the selected channel, that has been hided。

4.3.1.1.4 Analog Port

System Setup ✕

General
Channel
Preview
Stream
Audio
Network
Alarm
System
Device

View Setting **Privacy Mask**

Channel	Ch Name	OSD Positio	Hide Video	Analog p
01	CH01	Bottom ▼	<input type="checkbox"/>	01
02	CH02	Bottom ▼	<input type="checkbox"/>	02
03	CH03	Bottom ▼	<input type="checkbox"/>	03
04	CH04	Bottom ▼	<input type="checkbox"/>	04
05	CH05	Bottom ▼	<input type="checkbox"/>	05
06	CH06	Bottom ▼	<input type="checkbox"/>	06
07	CH07	Bottom ▼	<input type="checkbox"/>	07
08	CH08	Bottom ▼	<input type="checkbox"/>	08

Copy **Default** **Sort chn** **BlkSide**

Apply **OK** **Cancel**

Steps:

1. Left click the box after“Analog port”;

Click 【Sort chn】 Preview the channel 1,that show “Sort chn 1”,then drag the channel to sort

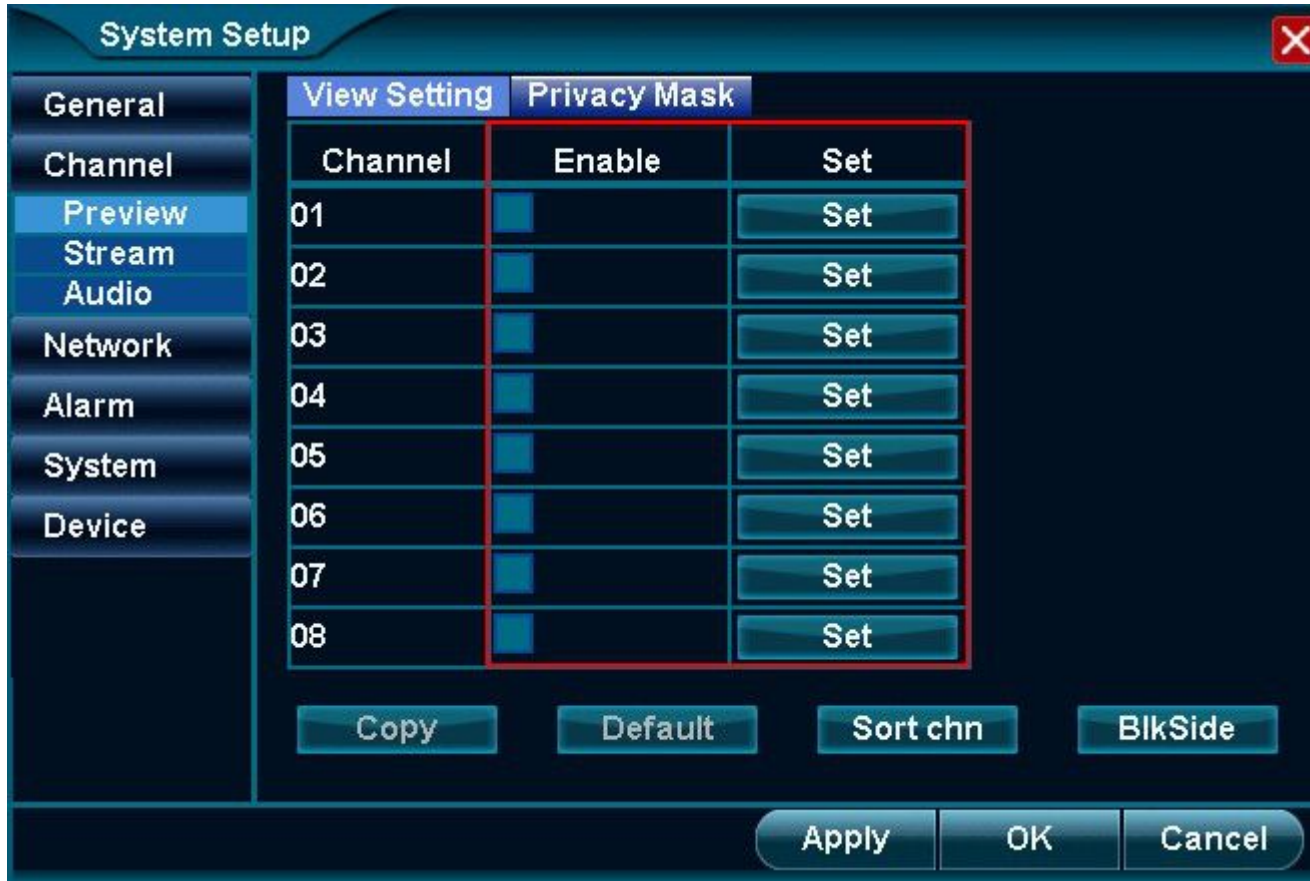
4.3.1.2 Privacy mask

Function position: Channel| Preview setting| Privacy mark

Function introduction: Hide the part of channel, max 4 privacy mark.



Step 1: Open privacy market, and start this function

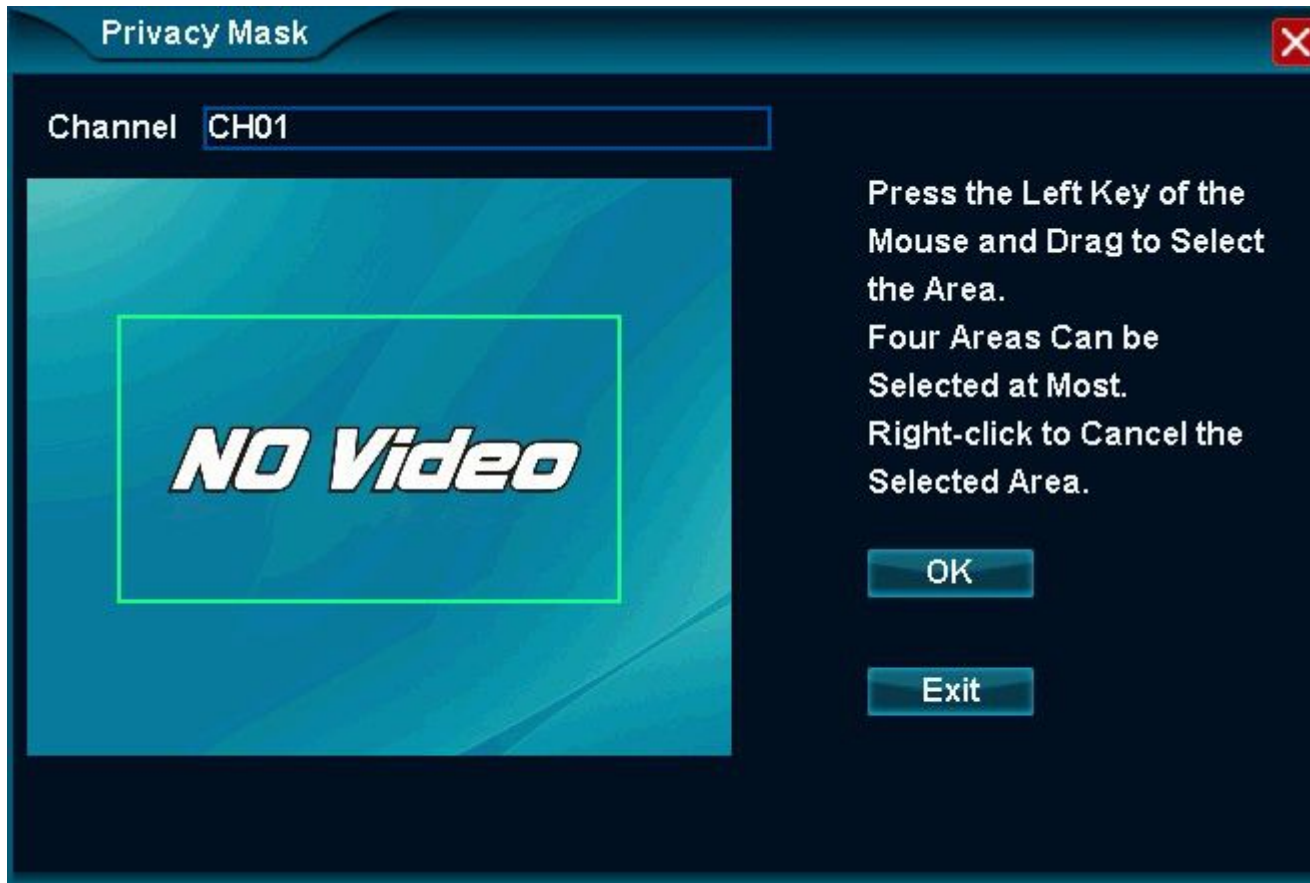


1. Click **【Privacy mark】**;
2. Choose "Enable";

Note: **【Copy】**, other channels can have same setting.

3. Click 【setting】

Step 2: Setting part of privacy mask



Step 3: Ok; Apply

1. Click **【ok】**, then **【Apply】** or **【ok】**.



4.3.2 Stream setting

Function position: Channel| Stream setting

Function introduction: 1.Main stream setting—stream for local record;
2. Minor stream setting—stream for network transmission

System Setup ✕

General

Channel

Preview

Stream

Audio

Network

Alarm

System

Device

Channel	Main		Minor		
	Resolution	kbps	Resolution	kbps	Fluency
01	D1 ▼	600	CIF ▼	200	12 ▼
02	D1 ▼	600	CIF ▼	200	12 ▼
03	D1 ▼	600	CIF ▼	200	12 ▼
04	D1 ▼	600	CIF ▼	200	12 ▼
05	D1 ▼	600	CIF ▼	200	12 ▼
06	D1 ▼	600	CIF ▼	200	12 ▼
07	D1 ▼	600	CIF ▼	200	12 ▼
08	D1 ▼	600	CIF ▼	200	12 ▼

Copy

Default

Apply

OK

Cancel

4.3.2.1 Main stream

Function position: Channel| stream| Main stream

Function: Main stream: stream for local record; Resolution can choose No/D1/CIF,kbps can be adjusted.

System Setup

General

Channel

Preview

Stream

Audio

Network

Alarm

System

Device

Channel	Main		Minor		
	Resolution	kbps	Resolution	kbps	Fluency
01	D1 ▼	600	CIF ▼	200	12 ▼
02	D1 ▼	600	CIF ▼	200	12 ▼
03	D1 ▼	600	CIF ▼	200	12 ▼
04	D1 ▼	600	CIF ▼	200	12 ▼
05	D1 ▼	600	CIF ▼	200	12 ▼
06	D1 ▼	600	CIF ▼	200	12 ▼
07	D1 ▼	600	CIF ▼	200	12 ▼
08	D1 ▼	600	CIF ▼	200	12 ▼

Copy

Default

Apply

OK

Cancel

Name	Choice	Introduction
Resolution	D1/CIF	D1: PAL video standard—image resolution 704*576; NTSC video standard, image resolution 640*480。 CIF: PAL video standard—image resolution 352*288; NTSC video standard, image resolution 320*240。
kbps	D1(600kbps) CIF(400kbps)	The more the number, the higher the image quality, the larger HDD it will take

Steps:

1. Modify" Resolution": NO/CIF/D1;
2. Modify"Kbps";

Note: **【Copy】** ,other channels can have same setting

3. Click **【Apply】** or **【ok】**

Note: Please take compression frame rate in parameter form for reference to setting local
Compression frame rate

4.3.2.2 Minor stream

Function position: Channel| stream| Minor stream

Function introduction: Minor stream: stream for network transmission; resolution choice **No/QCIF/CIF**, kbps can be adjusted, fluency choice **High/Middle/low**

System Setup ✖

Channel	Main		Minor		
	Resolution	kbps	Resolution	kbps	Fluency
01	D1 ▼	600	CIF ▼	200	12 ▼
02	D1 ▼	600	CIF ▼	200	12 ▼
03	D1 ▼	600	CIF ▼	200	12 ▼
04	D1 ▼	600	CIF ▼	200	12 ▼
05	D1 ▼	600	CIF ▼	200	12 ▼
06	D1 ▼	600	CIF ▼	200	12 ▼
07	D1 ▼	600	CIF ▼	200	12 ▼
08	D1 ▼	600	CIF ▼	200	12 ▼

Copy
Default

Apply
OK
Cancel

Name	Choice	Instruction
------	--------	-------------

Resolution	No/QCIF/CIF	No: Close minor code stream, and make net work transmission by main stream QCIF: PAL video standard—image resolution 176*144; NTSC video standard, image resolution 160*120。 CIF: PAL video standard—image resolution 352*288; NTSC video standard, image resolution 320*240。
(kbps)	Close QCIF(200kbps) CIF(200kbps)	The more kbps, the higher image quality, the more network source that will be took up
Fluency	High/Middle/low	The more fluency, the higher image quality, the more network source that will be took up Please take compression frame rate in parameter form for reference

Note: Default fluency “low”, support 14 D1 playback

Fluency “Close”, support 16 D1 playback

Fluency “High”, support only 12 D1 playback

Steps:

1. Modify“Resolution”No/QCIF/CIF;
2. Modify“kbps”;
3. Modify“ Fluency” **High/Middle/low**

Note: **【Copy】** ,other channels can have same setting

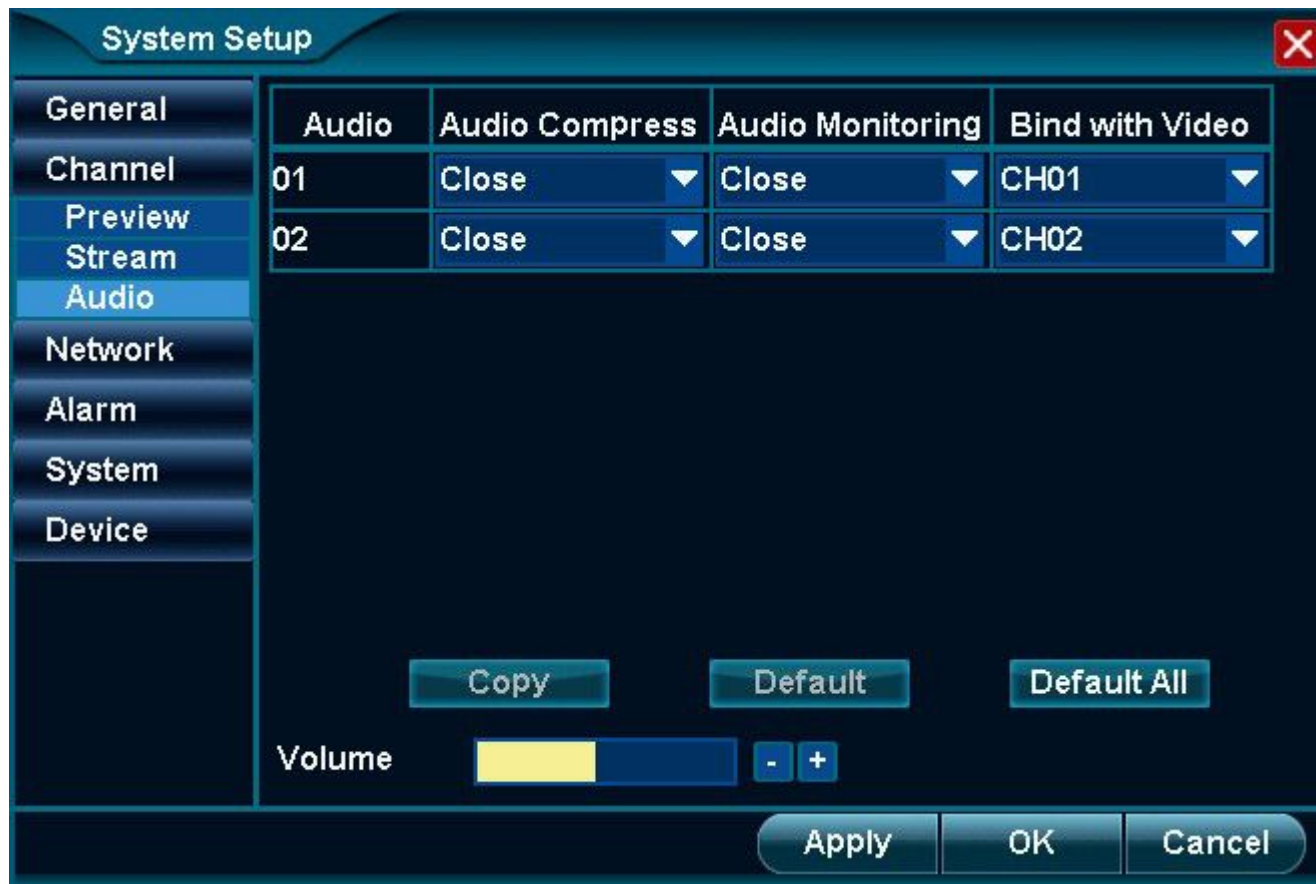
4. Click **【Apply】** or **【ok】**

4.3.3 Audio setting

Function position: Channel| Audio setting

Function introduction: 1.Audio monitoring: Hear channel sound locally

2.Audio compression: Audio/video record, network monitoring. Remote view.



4.3.3.1 Audio compression

Function position: Channel| Audio| Audio compression

Function introduction: 1. Choose "Audio compression", will record both sound and video

2. Choose "Audio compression" Network monitoring and remote record will be audio and video



Step:

1. Choose" Audio compress", "open";
Note: 【Copy】 ,other channels can have same setting
2. Click 【Apply】 or 【ok】
3. local record, network monitoring and remote record will be audio and video

4.3.3.2 Audio monitoring

Function position: Channel| Audio| Audio monitoring

Function introduction: 1.Choose"Audio monitoring", support local audio;
2. Audio volume can be adjusted



Steps:

1. Choose "Audio monitoring", "open";

Note: 【Copy】, other channels can have same setting

2. Click **【Apply】** or **【ok】**, connect audio out, can hear sound
3. Audio volume can be adjusted。

4.3.3.3 Bind with video

Function position: Channel| Audio| Bind with video

Function introduction: 1. Choose “Bind with video”, when see video, can hear the bind audio
2. Audio volume can be adjusted



Steps:

1. Choose "Bind with video", then choose "CH01";

Note: **【Copy】**, other channels can have same setting

Click **【Apply】** or **【ok】** when see channel 1 video, can hear the bind audio accordingly.

4.4 Network

Function: 1.**Network setting**: Choose ADSL dial-up, wireless dial-up, DHCP gets IP automatically in LAN, Manual setting IP in LAN.

2. **Network service**: WebCC, Bi-directional talk function

4.4.1 Network setting

Function: Network| network setting

Function introduction: 1.Dial-up setting;

2. DHCP gets IP automatically, Manual setting IP;

4.4.1.1 Dial-up

ADSL dial-up, or 3G card dial-up。

PPPoE

ADSL Disconnected

Account

Account

Password

Password

Connect

Disconnect

3G Card Disconnected

Number

Number

Account

Account

Password

Password

Connect

Disconnect

4.4.1.2 ADSL dial-up

Function position: Network| Network setting| PPPoE

Function introduction: ADSL dial-up;

Step 1: ADSL dial-up

1. Click **【setting】**
2. Write ADSL dial-up account name and password;
3. Click **【connect】**

[Note: After successful dial-up, it can dial-up automatically after restart DVR or outage.](#)

Step 2: Disconnect ADSL dial-up

1. Click **【disconnect】**

4.4.1.3 3G card dial-up

Function position: Network| Network setting|PPPoE

Function introduction: 3G card dial-up

Step 1: 3G card dial-up

1. Click **【setting】**
2. Write card number/account/password

[Please take 5.2 3G card dial-up for reference for number/account/password setting](#)

4. Click **【connect】**

[Note: After successful dial-up, it can dial-up automatically after restart DVR or outage.](#)

Step 2: Disconnect 3G network card dial-up

1. Click **【disconnected】**.

4.4.1.4 DHCP gets IP automatically

Function position: Network| network setting

Function introduction: DHCP gets IP automatically in LAN

Open DHCP steps:

1. Confirm route to open DHCP, that can be used normally
2. Choose" Automatic IP (DHCP) ";
3. Click **【Apply】** or **【ok】** It can get IP automatically

Note: when using DHCP function, it can not make manual IP etc parameters setting

4.4.1.5 Manual setting IP

Function position: Network| network setting

Function introduction: Manual setting IP in LAN.

Manual setting steps:

1. Cancel" Automatic IP (DHCP) "function;
2. Manual writing IP/ NetMask / Gateway/DNS
3. Click **【Apply】** or **【ok】**

4.4.2 Network service

Function position: Network| network service

Function introduction: 1. Realize web monitoring by WebCC

2. Realize Bi-directional talk between local and remote monitoring

4.4.2.1 WebCC

Function position: Network|Network service|WebCC

Function introduction: Realize web monitoring by WebCC; Connect with DVR by device IP



Step 1: Open WebCC function

1. Choose "WebCC";
If 80 port has been taken up, pls Modify port number.
2. Click 【Apply】 or 【ok】 to save setting

Step 2: Client-end use Webccc to connect with DVR

1. The users open IE browser, and write DVR IP and port number

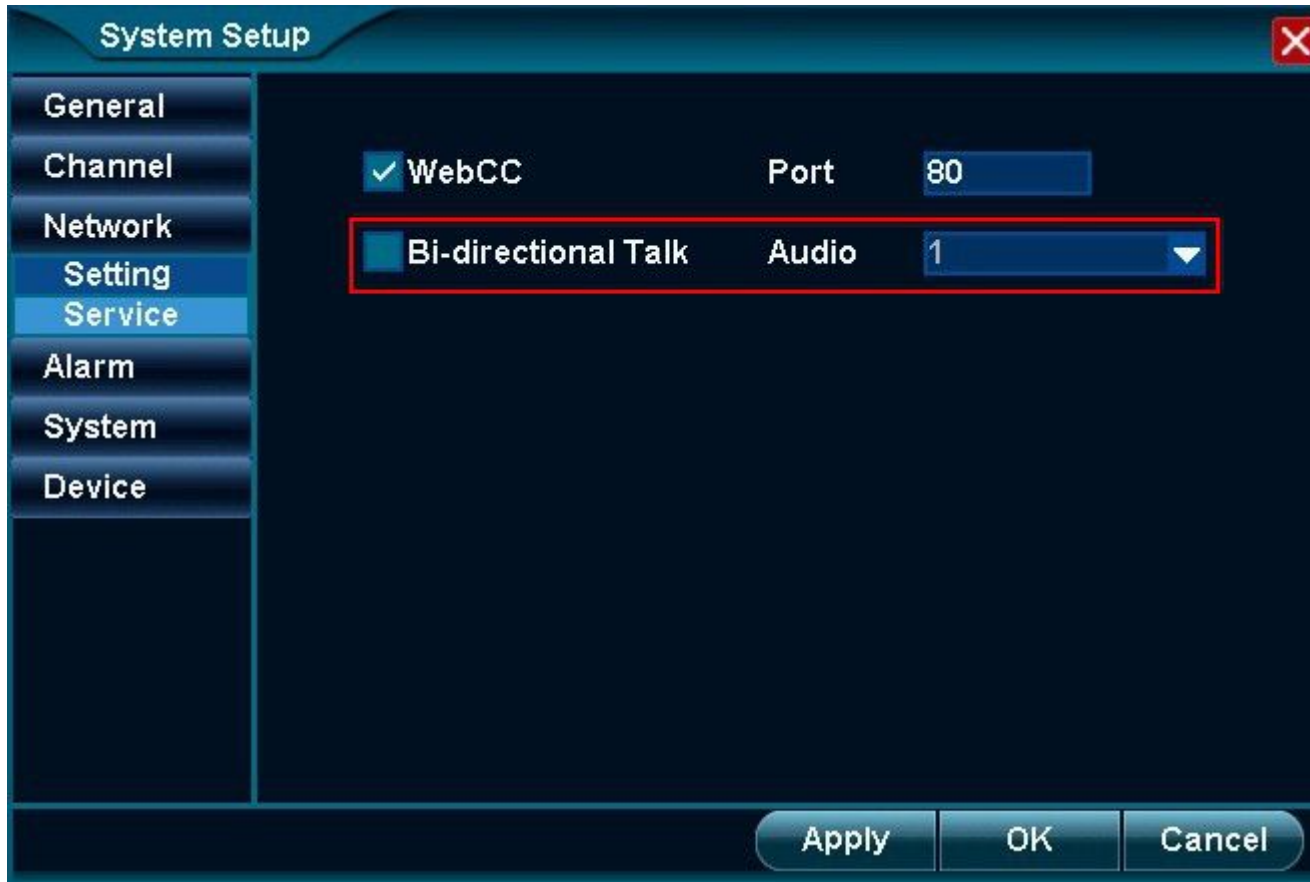


Note: IE setting: Tool/internet choice/Safe/Internet/_customization, open ActiveX plug-in

4.4.2.2 Bi-directional talk

Function position: Network|Network service| Bi-directional talk

Function introduction: Realize Bi-directional talk between local and remote monitoring




Step 1: Open Bi-directional talk

1. Choose "Bi-directional talk";
2. choose "channel", example "CH04";

Step 2: Client-end open bi-directional talk

1. Client-end connect with DVR
2. Right click the linking window, choose Bi-directional talk

Note: Click  in WebCC, and can do Bi-directional talk

4.5 Alarm

Function position: System setup| Alarm

Function introduction:

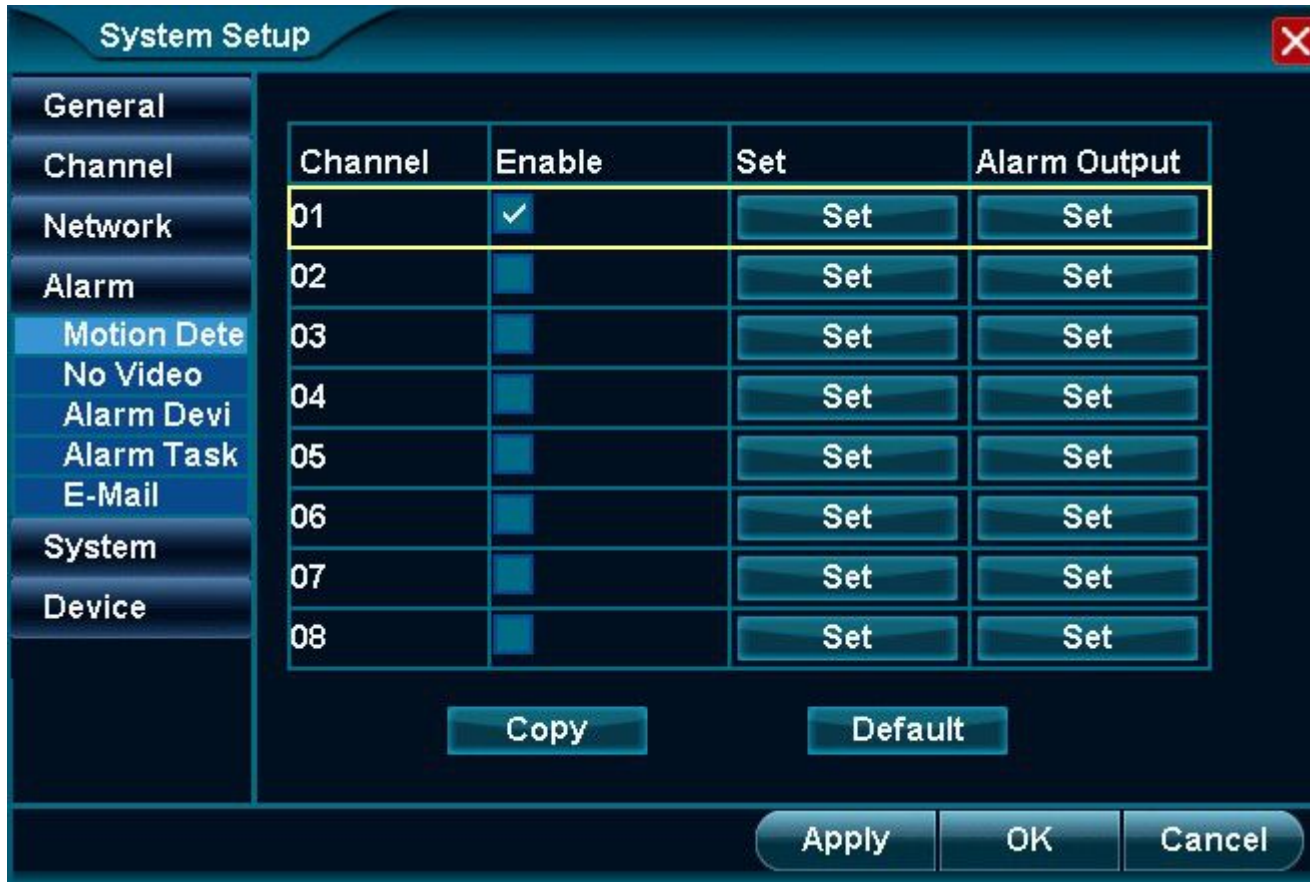
1. Open motion detection alarm, and set alarm out
2. Open No video alarm, and set alarm out
3. Open alarm device, and set alarm out
4. Set Alarm task
5. Set E-mail alert
6. Set Alarm pre-record

4.5.1 Motion detection

Function position: System setup| Alarm| Motion detection

Function introduction: When there is a move object, it can alarm and send alarm-out

Step 1: Choose channel, open motion detection



1. Choose "Enable";
Note: **【Copy】**, other channels can have same setting
2. Click **【setting】**



Step 2: Set motion detection part

1. Left click image as starting
2. Left click and move mouse at the same time to choose motion detection part

3. Release left click to finish setting

Note: It only can make motion detection in selected part.

4. Repeat 1—3, and the Max motion detection parts are 4
5. Click 【ok】 , save setting

Step 3: Adjust sensibility of motion detection

1. Left click can adjust “Sensibility”

Note: The more number, the more sensible, the much easier to detect the move object

Step 4: Choose Alarm out

Alarm Output

Keep Alarm **10** seconds

☐ Turn On The Buzzer

☐ Send To Client

☐ E-Mail Alert

☐ Send Snapshot

☐ Start to Record

☐ Call Preset **0**

☐ Snapshot

☐ Output Module

BR **2400**

Video Ch **CH01**

Video Ch **CH01**

Video Ch **CH01**

Video Ch **CH01**

Video Ch **CH01**

Addr **0**

Channel **0**

Default **OK**

1. Click Alarm output **【setting】**
2. Setting parameters:
 - ◆Keep Alarm:1-999s available

- ◆ Turn on the Buzzer: DVR will send out buzzer alarm
 - ◆ Send to Client: It will send alarm to Client-end
 - ◇ Video channel: the Client-end connect with this channel
 - ◆ E-mail alert: It will send emails to collection box
 - ◇ Send picture in attachment
 - ◆ Start record: It will record the selected channels
 - ◆ Call preset: It will adjust selected preset of PTZ channel
 - ◆ Snapshot: It will snapshot the selected channel and save images.
 - ◆ Output Module: It will open alarm for the relative device (normal close)
3. Click 【ok】 ,save setting

Step 5: Detect alarm setting

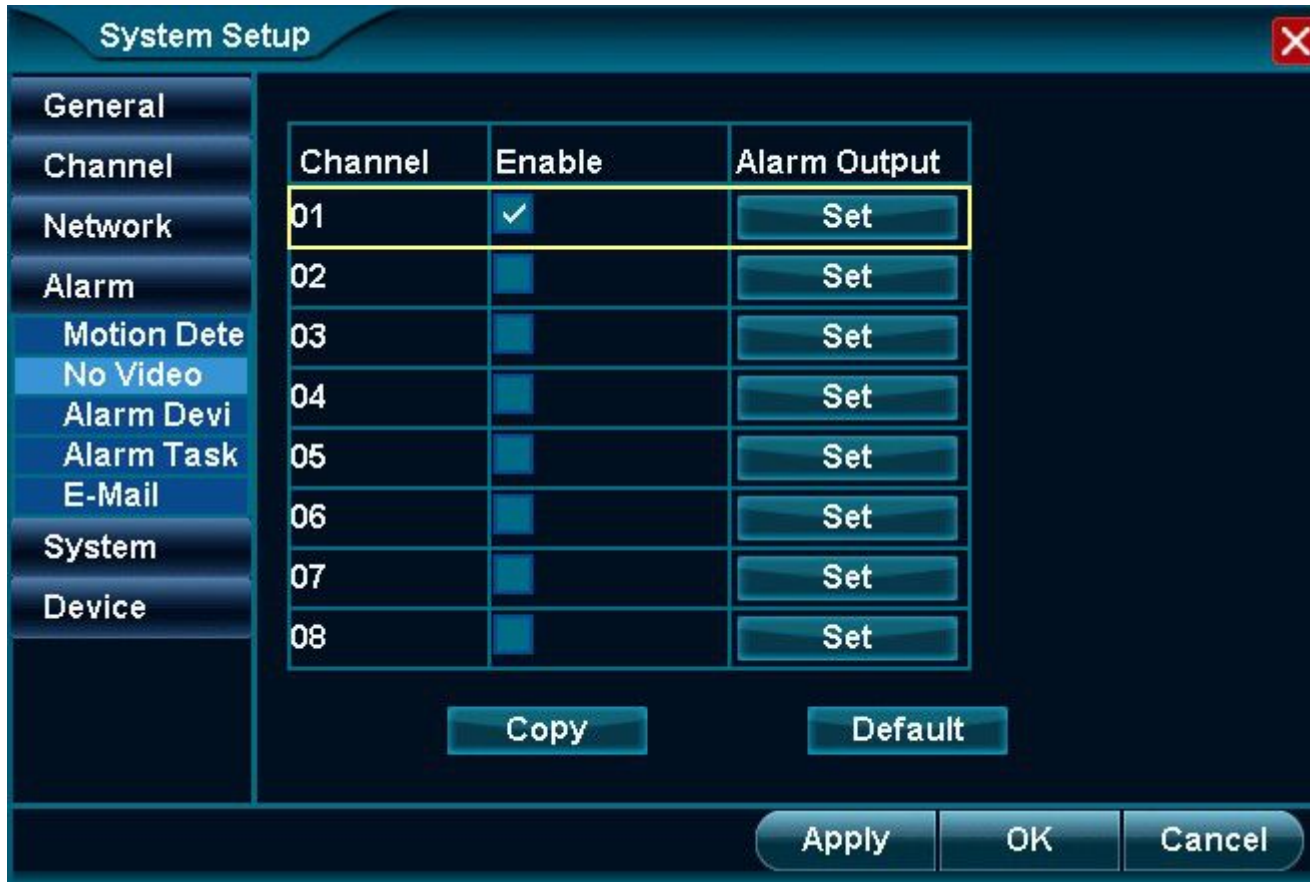
1. Touch selected channel motion detection, and it can send out alarm alert
2. Selected alarm out parameter setting work normally
3. Top menu will popup alarm coin, and record log at same time

4.5.2 No video

Function position: System setup| Alarm| No video

Function introduction: When detect no video, it will send alarm alert

Step 1: Choose channel, and open no video detection



1. Choose "Enable";
Note: **Copy** ,other channels can have same setting
2. Click **set**

Step 2: Setting parameter

Alarm Output

Keep Alarm **10** seconds

☒ Turn On The Buzzer

☒ Send To Client

☒ E-Mail Alert

☒ Send Snapshot

☒ Start to Record

☒ Call Preset **0**

☒ Snapshot

☒ Output Module

BR **2400**

Video Ch **CH01**

Video Ch **CH01**

Video Ch **CH01**

Video Ch **CH01**

Addr **0**

Channel **0**

Default **OK**

1.Setting parameters:

- ◆Keep Alarm:1-999s available

- ◆ Turn on the Buzzer: DVR will send out buzzer alarm
- ◆ Send to Client: It will send alarm to Client-end
 - ◇ Video channel: the Client-end connect with this channel
- ◆ E-mail alert: It will send emails to collection box
 - ◇ Send picture in attachment
- ◆ Start record: It will record the selected channels
- ◆ Call preset: It will adjust selected preset of PTZ channel
- ◆ Snapshot: It will snapshot the selected channel and save images.
- ◆ Output Module: It will open alarm for the relative device (normal close)

2. Click **【ok】**, save setting

Step 3: Detect Alarm setting

1. Disconnected with the selected channel
2. Selected alarm out parameter setting work normally
3. Top menu will popup alarm coin, and record log at same time

4.5.3 Alarm device

Function position: System setup| Alarm| Alarm device

Function introduction: When touch alarm device, it will send alarm out.

Step 1: Choose “Alarm output”

System Setup

General
Channel
Network
Alarm
Motion Dete
No Video
Alarm Devi
Alarm Task
E-Mail
System
Device

ID	Enable	Addr	BR	Alarm Output
1	<input checked="" type="checkbox"/>	0	2400 ▼	Set
2	<input type="checkbox"/>	1	2400 ▼	Set
3	<input type="checkbox"/>	2	2400 ▼	Set
4	<input type="checkbox"/>	3	2400 ▼	Set

Copy Default

Apply OK Cancel

1. Choose "Addr"

Note: Please choose the relative addr of alarm device

2. Choose "BR" type

Note: Please write the relative BR of alarm device

Step 2: Setting alarm output parameter 1

Alarm Device

ID

1

Channel	Alarm Output
0	Set
1	Set
2	Set
3	Set
4	Set
5	Set
6	Set
7	Set

Choose "addr"

Note: Please choose the relative addr of alarm device

Click **【set】**

Step 3: Setting alarm output parameter 2



The image shows a software window titled "Alarm Output" with a red close button in the top right corner. The window contains several configuration options, each with a checkbox and a label. The "Keep Alarm" option is set to "10 seconds". The "Turn On The Buzzer" option is checked. The "Send To Client" option is checked. The "E-Mail Alert" option is checked. The "Send Snapshot" option is checked. The "Start to Record" option is checked. The "Call Preset" option is set to a dropdown menu. The "Snapshot" option is checked. The "Output Module" option is checked. The "BR" option is set to "2400". The "Video Ch" option is set to "CH01" for five different entries. The "Addr" option is set to "0". The "Channel" option is set to "0". At the bottom of the window, there are two buttons: "Default" and "OK".

Alarm Output

Keep Alarm 10 seconds

☒ Turn On The Buzzer

☒ Send To Client

☒ E-Mail Alert

☒ Send Snapshot

☒ Start to Record

☒ Call Preset

☒ Snapshot

☒ Output Module

BR 2400

Video Ch CH01

Video Ch CH01

Video Ch CH01

Video Ch CH01

Video Ch CH01

Addr 0

Channel 0

Default OK

1. Click **【set】**
2. Setting Alarm output parameters:
 - ◆Keep Alarm:1-999s available

- ◆ Turn on the Buzzer: DVR will send out buzzer alarm
- ◆ Send to Client: It will send alarm to Client-end
 - ◇ Video channel: the Client-end connect with this channel
- ◆ E-mail alert: It will send emails to collection box
 - ◇ Send picture in attachment
- ◆ Start record: It will record the selected channels
- ◆ Call preset: It will adjust selected preset of PTZ channel
- ◆ Snapshot: It will snapshot the selected channel and save images.
- ◆ Output Module: It will open alarm for the relative device (normal close)

2. Click **【ok】**, save setting

Step 4: Detect Alarm device

1. Touch alarm device
2. Selected alarm out parameter setting work normally
3. Top menu will popup alarm coin, and record log at same time

4.5.4 Alarm task

Function position: System setup| Alarm| Alarm task

Function introduction: It only send alarm output in preset time

System Setup ✖

General

Channel

Network

Alarm

Motion Dete

No Video

Alarm Devi

Alarm Task

E-Mail

System

Device

Motion Detect No Video Alarm Device						
Channel	Enable	Start Time		End Time		
		Hour	Min	Hour	Min	
01	<input checked="" type="checkbox"/>	00	00	24	00	
02	<input type="checkbox"/>	00	00	24	00	
03	<input type="checkbox"/>	00	00	24	00	
04	<input type="checkbox"/>	00	00	24	00	
05	<input type="checkbox"/>	00	00	24	00	
06	<input type="checkbox"/>	00	00	24	00	
07	<input type="checkbox"/>	00	00	24	00	
08	<input type="checkbox"/>	00	00	24	00	

Copy
Default

Apply
OK
Cancel

Steps:

1. Choose" Alarm types"; "Motion detect/no video/Alarm Device" are available
2. Choose" Enable"

3. Modify" Start time", " End time";

Note: It only send alarm output in preset time.

4. Click 【Apply】 or 【ok】 ,save setting

4.5.5 E-mail alert

Function position: System setup| Alarm| E-mail

Function introduction: setting email alert parameters: sender setting, receiver setting, Interval etc

System Setup

General
Channel
Network
Alarm
Motion Dete
No Video
Alarm Devi
Alarm Task
E-Mail
System
Device

Sender Setting

SMTP **Custom**

User Name

Password

Interval **1** Min

Receiver Setting

Receiver Site

Modify
Add **Delete**

Mail Testing

Apply **OK** **Cancel**

Step 1: Sender setting

1. Choose "SMTP";

Note: can manual writing or choose exist email server

2. Write user name and password
3. Modify" Interval" (1~99Min);
4. Click **【Apply】** ,save setting

Step 2: Receiver setting

1. Write email address in "Receiver Site"
2. Click **【Add】**, then can add new receiver into list
3. Click **【Apply】** or **【ok】** ,save setting

Step 3: Mail Testing

1. Click **【Mail Testing】**;
2. Detect the emails in collection box

4.6 System

Function position: System setup| System

Function introduction: 1.**Log:** Search, DVR log backup; Log:
2. Maintenance: Reboot setup, software update, import/export setting
3.**Informatoin:** Search DVR hardware/software information

4.6.1 Log:

Function position: System| Log

Function introduction: 1. Search DVR operation log
2. Save the eligible logs into U disk



4.6.1.1 Log query

Step: Query this DVR's log

1. Select log type, eg system operation, login, etc.
2. Change query time

Note: Don't select above "Time", it will query all logs.

3. Click and select log, Single-click "Detail" to read more information.

4.6.1.2 Log backup

Step: Backup log into U-disk.

1. Insert FAT32 format U-Disk
2. Query qualified log.
3. Click "Backup" button to backup the log into U-Disk.

4.6.2 Maintenance

Function:

1. Time reboot: This DVR can be set reboot.
2. Software update: U-Disk, FTP server or website can be selected for update.
3. Import/Export setting: Export this DVR's setting into U-Disk. Import U-Disk' setting into this DVR.

4.6.2.1 Time Reboot

Location: System Setup | Maintenance | Reboot

Function: The reboot function is used to prevent from overmuch file fragments. There will be lots of file fragments at DVR system when it is in long-time running.



Step: Enable Time Reboot function

1. Select reboot date at "Reboot Setup". It takes week as standard.
2. Set reboot time, eg, 23:00.

3. Click“Apply”or “OK”to save setting.

4.6.2.2 Software update

Location: System Setup|Maintenance|Update

Function: The software can be updated through USB, FTP or online update.

Note: When it is updated, the electric power can not be powered off , otherwise it will make the DVR unable to work..

4.6.2.2.1 USB update



Step:

User Manual for DVR

1. Put updated files at FAT32 format U-Disk. These two files should be placed at root directory at U-Disk. Then insert the U-Disk into DVR's USB port.
2. Select USB at "Update type".
3. Click "Update" button to finish this work.

Note: After update is finished, it will automatically reboot the DVR. When the DVR is started, it is the latest version.

4.6.2.2.2 FTP update

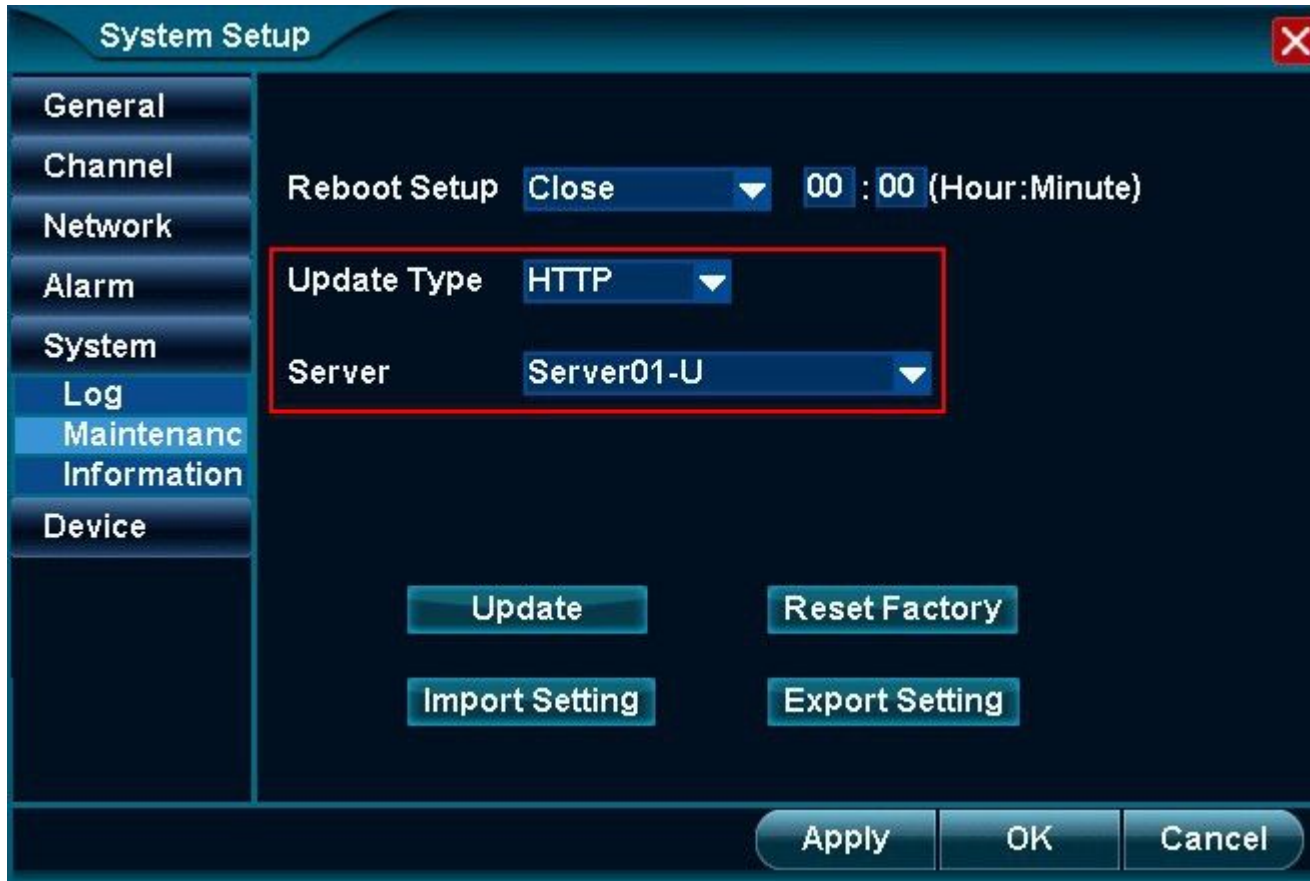


Step:

1. Place updated file at root directory at FTP server.
2. Select FTP at "Update type".
3. Modify "Server" address into FTP server's IP address.
4. Click "Update" button to finish this work.

Note: After update is finished, it will automatically reboot the DVR. When the DVR is started, it shall be the latest version.

4.6.2.2.3 HTTP online update



Step:1. Make sure the DVR is connected with internet.

2. Select "HTTP" at "Update type".
3. Select update server at "Server".
4. Click "Update" button to finish this work

Note: After update is finished, it will automatically reboot the DVR. When the DVR is started, it shall be the latest version.

4.6.2.3 Reset factory

Location: System Setup |Maintenance| Reset factory

Function: All setting at this DVR can be restore factory setting.



- Step: 1. Click “Reset Factory”.
2. Click “Ok” at confirmation interface to reboot the DVR and then all original factory settings are restored.

4.6.2.4 Setting import/export

Location: Location: System Setup| Maintenance| export/import Setting

Function: 1.Export DVR's setting to U-Disk for backup.

2. Import the same setting from U-Disk to this DVR.



Step of Exporting:

1. Insert U-Disk with FAT32 format into DVR
2. .Click export setting

Step of Importing:

1. Insert U-Disk with FAT32 format into DVR and there are the settings of same model DVR at U-Disk.
2. Click" Import setting" button to import the setting from U-Disk to this DVR.

Note: The imported setting will be valid after the DVR is rebooting.

4.6.3 Information:

Location: System Setup|Maintenance|Information

Function: It can be used to query this DVR's serial number, software version's information or hardware version's information.

4.7 Device

4.7.1 Storage

Location: Device|Storage

Function: 1.Query the inserted magnetic disk or hard disk's working mode.

2.Format inserted hard disk or U-Disk.



4.7.1.1 Hard disk(Hdisk is named in interface) working mode



When it is "Hdisk is full", please select "Overlay" or "Stop Recording".

Explanation of Hard disk working model

Working mode	explanation
Overlay	When capacity is not enough, delete earlier video files.
Stop recording	The reserved capacity can be set. When it is not enough, the video recording will be stopped.

4.7.1.2 Format

Step:

1. Click and select magnetic disk in the list.
2. Click "Format".
3. Click "OK" at confirmation interface.
4. The formatted magnetic disk can be used for storage or backup.

4.7.2 PTZ

4.7.2.1 PTZ adjustment

A screenshot of a PTZ configuration window. The window has a dark blue header with the title 'PTZ' and a red close button. The main area is dark blue with white text. It contains several configuration fields: 'Channel' with a text box containing '01', 'Addr' with a text box containing '1', 'Protocol' with a dropdown menu showing 'PELCO-D', and 'BR' with a dropdown menu showing '2400'. Below these are five rows of swap settings, each with a label and a blue square checkbox: 'Left Right Swap', 'Up Down Swap', 'Iris Zoom Swap', 'Focus Zoom Swap', and 'Zoom Swap'. At the bottom left are two buttons: 'Preset' and 'Patrol'. At the bottom right are two buttons: 'Default' and 'OK'.

Channel	01
Addr	1
Protocol	PELCO-D
BR	2400
Left Right Swap	<input type="checkbox"/>
Up Down Swap	<input type="checkbox"/>
Iris Zoom Swap	<input type="checkbox"/>
Focus Zoom Swap	<input type="checkbox"/>
Zoom Swap	<input type="checkbox"/>

Preset Patrol

Default OK

Step 1:

1. Click "Setting" at each channel to open the setting interface.
2. Input PTZ's address, protocol and BP.

3. Click "OK" to save above setting.

Step2: PTZ control interchange



4.7.2.2 Presetting point

Step1:Open presetting interface.



The image shows a software window titled "PTZ" with a red close button in the top right corner. The window contains several configuration fields: "Channel" with a text input containing "01", "Addr" with a text input containing "1", "Protocol" with a dropdown menu showing "PELCO-D", and "BR" with a dropdown menu showing "2400". Below these are five checkboxes, all of which are checked, labeled "Left Right Swap", "Up Down Swap", "Iris Zoom Swap", "Focus Zoom Swap", and "Zoom Swap". At the bottom left, there are two buttons: "Preset" (highlighted with a red border) and "Patrol". At the bottom right, there are two buttons: "Default" and "OK".

Channel	01
Addr	1
Protocol	PELCO-D
BR	2400
Left Right Swap	<input checked="" type="checkbox"/>
Up Down Swap	<input checked="" type="checkbox"/>
Iris Zoom Swap	<input checked="" type="checkbox"/>
Focus Zoom Swap	<input checked="" type="checkbox"/>
Zoom Swap	<input checked="" type="checkbox"/>

Preset **Patrol**

Default **OK**

1. Select PTZ channel.
2. Click "Setting" | "Preset" to open presetting interface.

Step 2: Add presetting point



1. Click PTZ direction button and select visual angle.
2. Input new preset series number at "Preset".
3. Click "Add" to add new preset point into the list.

Note: Click existing preset point in the list. Click "Delete" to delete selected point.

Step 3: Call preset point (Menu function)



1. right-click menu or main menu to open "PTZ control" | "More".
2. Select preset point from preset point list.

3. Click "Goto" to make PZT visual angle turn to this point location.

4.7.2.3 Patrol

Step 1: Open patrol setting interface.

A screenshot of a PTZ (Pan/Tilt/Zoom) configuration window. The window has a dark blue header with the title 'PTZ' and a red close button. The main area is dark blue with white text. It contains several configuration fields: 'Channel' with a text box containing '01', 'Addr' with a text box containing '1', 'Protocol' with a dropdown menu showing 'PELCO-D', and 'BR' with a dropdown menu showing '2400'. Below these are five checkboxes for 'Left Right Swap', 'Up Down Swap', 'Iris Zoom Swap', 'Focus Zoom Swap', and 'Zoom Swap', all of which are currently unchecked. At the bottom left are two buttons: 'Preset' and 'Patrol', with 'Patrol' highlighted by a red rectangle. At the bottom right are two buttons: 'Default' and 'OK'.

PTZ

Channel 01

Addr 1

Protocol PELCO-D

BR 2400

Left Right Swap ☐

Up Down Swap ☐

Iris Zoom Swap ☐

Focus Zoom Swap ☐

Zoom Swap ☐

Preset Patrol

Default OK

1. Select PTZ channel
2. Click "Set" | "Patrol" to open patrol interface.

Step 2: Add preset point into patrol

Preset	Stay Time
1	10
2	10
3	5

Preset Time

1. Select preset point from preset point list.
Adjust detention time at this preset point

2. Click "Add" to add this preset point into patrol.
3. [Note: Click existing preset point in the list. Click "Delete" to delete selected point.](#)
4. Click "Save" to save above setting.

Step 3: Call patrol to cruise



4.7.3 Other devices

4.7.3.1 Monitor's width and height

Location: Other Device | video output

Function: Width or height of output image can be adjusted on monitor



4.7.3.2 Device ID

Location : Device |Other Device|Device ID

Function: This DVR's device ID can be modified at range of 1~255. When the ID is matched with controller, the controller can control this DVR one to one.



Step of match device ID

1. Modify this DVR'S device ID.
2. Match device ID: Press following keys on controller gradually: 【DEV】 + 【5】 + 【OK】 .

Note: At the time, the controller can only be used to control this DVR and it is invalid to others.

- 5 Cancel match ID: Press following keys on controller gradually: DEV】 + 【5】 + 【ESC】 to cancel the matched ID.

5.5.1.1 Main display device

Location: Device|Other Device| Main display device

Function: The DVR can only be adjusted at the selected display device while other device can be used for monitoring.



Step:

1. Select main monitor type:
2. Click "Apply" or "OK" to change output display device.

3. Confirm this operation at new display device in 15 seconds, or it will still use previous device.

Note: Press “F1”button at front panel to change output display device too.

6 Appendices

6.5 Calculate hard disk capacity

Code rate	Video file capacity /hour
Min 113kbps	51MB
Default 600kbps	270MB
Max 1365kbps	614MB

6.5.1 Hard disk capacity convert

capacity convert at this DVR		capacity convert at operational system	
B	1 B = 8 b	B	1 B = 8 b
M	1 MB = 1000 KB	M	1 MB = 1024 KB
G	1 GB = 1000 MB	G	1 GB = 1024 MB

T B	1 TB = 1000 GB	T B	1 TB = 1024 GB
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Note: On capacity convert at this DVR, hard disk manufacturer must be the same one and both adopt 1GB=1000MB mode. It is not 1GB=1024MB mode which is used on operational system.

6.5.2 Required capacity for video recording.

1. The video file for one channel's image at each hour.

$$A = B \div 8 \div 1000 \times 3600$$

2. The video file for N channels' image at each day.

$$A = B \div 8 \div 1000 \times 3600 \times 24 \times N$$

3. Video file for N channels' image for D days

$$A = B \div 8 \div 1000 \times 3600 \times 24 \times D \times N$$

Note: A indicates the required hard disk capacity. N indicates channel's quantity. D indicates days for video recording.

5.2 3G Network card dial-up

	Number	User name	password
Unicom	*99#		
Telecom	#777	card	card

<The End>