

DVR Serie LH

User's installation and operation Manual

Important Safeguards and Warding

Do not place heavy objects on the DVR.

Do not let any solid or liquid fall into or infiltrate the DVR

Please brush printed circuit boards, connectors, fans, machine box and so on regularly. Before the dust

cleaning please switch off the power and unplug it.

Do not disassemble or repair the DVR by yourself.Do not replace the components by yourself.

Environment

Please place and use the DVR between 0°C and 40°C. Avoid direct sunlight Stay away from heat source.

Do not install the DVR in the damp environment.

Do not use the DVR in smoky or dusty environment.

Avoid collision or strong fall.

Please insure the DVR level installation in a stable workplace.

Please install in ventilated place.Keep the vent clean.

Use within the rating input and output scope.



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1 Production Introduction

1.1 Product overview

The series DVR is designed specially for security and defence field which is an outstanding digital surveillance product. It introduces embedded LINUX operating system which is more stable. It introduces standard H.264mp video compressed format and G.711A audio compressed format which insures the high quality image, low error coding ratio and single frame playing. It introduces TCP/IP network technology which achieves the strong network communication ability and telecommunication ability.

The series DVR can be used individually or online applied as a part of a safety surveillance network. With the professional network video surveillance software it achieves the strong network communication ability and telecommunication ability.

The series DVR can be applied in the bank, telecom, electric power system, judicial system, transportation, intelligent housing, factory, storehouse, water conservancy and so on.

1.2 Main functions

Real-time surveillance

·spot interface、analog interface、VGA interface and HDMI interface, surveillance function through monitor or display.

Storage

non-working hard disk dormancy processing which is convenient to radiate heat, reduce power and extend the life-span

·special storage format which insures the data safety

Compression

real-time compression by individual hard disk which insures the audio and video signal stable synchronization

Backup

·through SATA interface and USB interface such as USB equipment, removable hard disk and so on

·through net download the files in the hard disk

Playback

4

·individual real-time video recording as well as searching, playback, network surveillance, recording check, downloading and so on

·multi-playback mode

·zoom at arbitrary region

Net operating

·through net tele-surveillance in the real time

·tele-PTZ control

·tele-recording check and real-time playback

Alarm linkage

·Alarm activated video record,tour ,message,buzzer,e-mail,ftp

Communication interface

·RS485 interface which fulfills the alarm input and PTZ control

·RS232 interface which can extend keyboard connection to realize master, as well as with computer

serial port connection for system maintenance and upgrade, and matrix control and so on.

·standard ethernet network interface which fulfills the telecommuting function

Intelligent operating

·mouse action function

fast copy and paste operating for the same setting

2 Basic operation

Note: The button in gray display indicates nonsupport.

2.1 Turn on

Plug the power supply and turn on the power supply switch. Power supply indicator light shining indicates turning on the video recorder. After the startup you will hear a beep. The default setting of video output is multiple-window output mode. If the startup time is within the video setting time, the timing video recording function will start up automatically. Then the video indicator light of corresponding channel is shining and the DVR is working normally.

Note:1. Make sure that the input voltage corresponds with the switch of the DVR power supply.

2. Power supply demands: 220V±10% /50Hz.

Suggest using the UPS to protect the power supply under allowable conditions.

2.1 Turn off

There are two methods to turn off the DVR. Entering [main menu] and choosing [turn off] in the [turn off the system] option is called soft switch. Pressing the power supply switch is called hard switch. Illumination:

1、Auto resume after power failure

If the DVR is shut down abnormally, it can automatically backup video and resume previous working status after power failure.

2、Replace the hard disk

Before replacing the hard disk, the power supply switch in the real panel must be turned off.

3、Replace the battery

Before replacing the battery, the setting information must be saved and the power supply switch in the real panel must be turned off. The DVR uses button battery. The system time must be checked regularly. If the time is not correct you must replace the battery, we recommend replacing the battery every year and using the same battery type.

Note: The setting information must be saved before replacing the battery otherwise information will lose.

2.3 System Login

When the DVR boots up, the user must login and the system provides the corresponding functions with the user purview. There are three user settings. The names are **admin**, **guest** and **default** and these names have no password. **Admin** is the super user purview; guest and **default**'s permissions are preview and video playback. User **admin** and **guest**'s password can be revised, while their permissions can't be revised; user **default** is the default login user whose permission can be revised but not its password.

SYSTEM LOGIN
User Name admin 🔽 Password
Please Login
OK Cancel

Picture 3.1 System Login

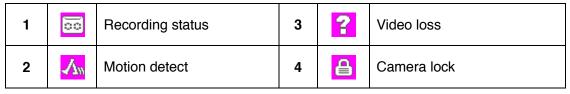
Password protection: If the password is continuous wrong three times, the alarm will start. If the password is continuous wrong five times, the account will be locked. (Through reboot or after half an hour, the account will be unlocked automatically).

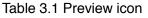
For your system security, please modify your password after first login.

2.4 Preview

You can right click mouse to choose the switch between the windows.

The system date, time and channel name are shown in each viewing window. The surveillance video and the alarm status are shown in each window.





2.5 Desktop shortcut menu

In preview mode you can right click mouse to get a desktop shortcut menu,as the picture 3.2 shows. The menu includes: main menu, record mode, playback, PTZ control, High Speed PTZ, Alarm Output, color Setting, Output adjust, Logout, view mode shift ,spot.

*Only partial model of 6000 series support Spot

 Main Menu Record Mode PlayBack PTZ Control HighSpeedPTZ Alarm Output Color Setting Output Adjust 	Main Menu Record Mode Record Mode PlayBack PTZ Control HighSpeedPTZ Alarm Output Color Setting Output Adjust Logout
Logout	■View 1 →
■ View 1	
III View 9	Spot +

Shortcut menu in full analog(DVR)/Hybrid(HVR) mode

Main Menu Record Mode PlayBack PTZ Control HighSpeedPTZ Alarm Output Output Adjust	Main Menu Record Mode Record
Cogout	□View 1
■ View 1 →	□View 4
■ View 4	Spot

Shortcut menu in full digital(NVR) mode

Picture 3.2 Shortcut Menu

*compare to analog/hybrid mode's shortcut menu,the full digital mode do not have color setting

function.

2.5.1 Main menu

When you login, the system main menu is shown as below.



Picture3.3 Main Menu

2.5.2 Playback

- 1. There are two methods for you to play the video files in the hard disk.
- 2. In the desktop shortcut menu.
- 3、 Main menu>Record->Playback

Note: The hard disk that saves the video files must be set as read-write or read-only state.(4.5.1).



Picture 3.4 video playback

- 1. Playback control 2. Operation hint 3. file searching
- 4. listed files 5. file information

[Listed files] Look up the listed files that accord with the searching criteria.

[File information] Look up the found file information.

[Playback control] See detail in below chart

Кеу	Function	Кеу	Function
) / ()	Play/Pause		Backward play
	Slow forward		Fast forward
L)	Previous frame	I	Next frame
ĸ	Previous file		Next file
60	Round play	8	Full screen
0	Stop		

Picture 3.5 Playback control key

Note: play under frame by frame, the playback status should be paused firstly.

[Operation tips] show function of the key that cursor placed.

Special functions:

Accurate playback: Input time (h/m/s) in the time column and then click play button. The system can operate accurate playback according to the searching time.

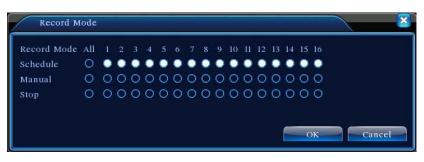
Local zoom: When the system is in single-window full-screen playback mode, you can drag your mouse in the screen to select a section and then left click mouse to realize local zoom. You can right click mouse to exit.

Note: When current resolution of the channel is over Max resolution, to playback this channel, will show a Red "X".

2.5.3 Record Control

Please check current channel status: "o" means it is not in recording status, "•" means it is in recording status.

You can use desktop shortcut menu or click [main menu]> [recording function]> [recording set] to enter the recording control interface.



Picture 3.8 Record Mode

[Schedule] Record according to the configuration.

[Manual] Click the all button and the according channel is recording no matter the channel in any state.

[Stop] Click the stop button and the according channel stops recording no matter the channel in any state.

2.5.4 Alarm output

Please check current channel status: "○" means it is not in alarming status, "●" means it is in alarming status.

You can use desktop shortcut menu or click [main menu]> [alarm function]> [alarm output] to enter the alarm output interface.

*T series no alarm output



Picture 3.9 alarm output

[Configuration] Alarm is on according to the configuration.

[Manual] Click the all button and the according channel is alarming no matter the channel in any state.

[Stop] Click the stop button and the according channel stops alarming no matter the channel in any state.

2.5.5 PTZ control

***T series no PTZ function**

*PTZ control is a little different between hybrid mode & full digital mode:

Digital channel – the digital channel need link PTZ, the remote device should connect with PTZ and with protocol correctly set also.

Analog channel – Only when the device is connect with PTZ and configure protocol correctly is ok.

Operation interface is as followed. The functions include: PTZ direction control, step, zoom, focus,

iris, setup operation, patrol between spots, trail patrol, boundary scan, assistant switch, light switch,

level rotation and so on.

Note1. Decoder A(B)line connects with DVR A(B)line. The connection is right.

2. Click [main menu] >[system configuration] >[PTZ setup] to set the PTZ parameters.

3. The PTZ functions are decided by the PTZ protocols.



Picture 3.10 PTZ setup

[Speed] Set the PTZ rotation range. Default range: $1 \sim 8$.

【Zoom】Click 2 / 🛨 button to adjust the zoom multiple of the camera.

[Focus] Click / I button to adjust the focus of the camera.

[Iris] Click / I button to adjust the iris of the camera.

[Hide] Current interface will be temporarily hidden after click it.

[Direction control] Control the PTZ rotation. 8 directions control is supportive.(4 directions in Front panel is supportive)

[High speed PTZ] Full-screen show channel image. Left press mouse and control PTZ to rotate orientation. Left press mouse and then rotate the mouse to adjust the zoom multiple of the camera.

[Set] Enter the function operation menu.

[Page switch] Switch between different pages.

Special functions:

1、Preset

Set a location for the preset, calls the preset points, PTZ automatically turns to the setting position

1) Preset option

Set a location for the preset, procedure is as follows:

Step1: in Picture 3.10, click the Direction button will turn into preset position, click the Settings button

to enter Picture 3.11.

Step 2: click the Preset button , then write the preset points in the input blank,

Step 3: click Settings button, return the Picture 3.10 Complete setup, that is the preset points and preset position corresponds.

Clear Preset: Input preset points, click Remove button, remove the preset.

	PTZ Co	onfig	X
Preset button	Function Preset Tour Pattern Border	Preset 1 Interval 3 Patrol No.1 Set Del Preset	Preset point input blank

Picture 3.11 Preset Settings

2) Preset Point Calls

In Picture 3.10, click Page Shift button, enter PTZ control interface as shown in Picture 3.12. In the input blank, write the preset points, then click Preset button, PTZ turn to the corresponding preset point.

Value input blank	PTZ Control	<u> </u>
	No. O	Preset
	Pattern	Tour
	AutoScan	AutoPan
	Flip	Reset
	Page Switch	Cancel

Picture 3.12 PTZ Control

2、Cruise between Points

Multiple preset points connected cruise lines, call cruise between points, the PTZ run around on

the line

1) Cruise Between Points Settings

Cruise lines is connected by multiple preset points, setting procedure is as follows:

Step1: In Picture 3.10, the Direction key will turn PTZ to designated location , click Settings button to enter Picture 3.13,

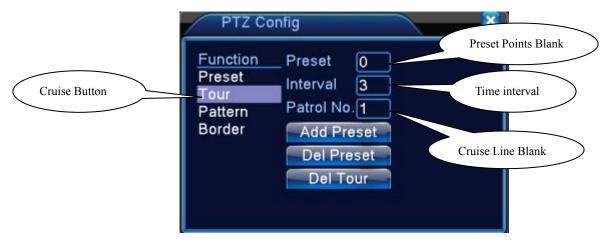
Step 2: click Cruise buttons, the write proper value into the Cruise Line and Preset Points blank,

then click Add Preset Points button, complete setting (also can add and delete cruise line which has been set up)

Step 3: repeat step1 and step2, until set out all the preset designated cruise lines.

Remove Preset: Please input preset value in the blank, click Remove Preset button, then remove the preset points.

Remove Cruise Line: Input the number of cruise line, click Remove Cruise Lines button, then remove the cruise lines set.



Picture 3.13 Cruise Between Points Settings

2) The Calls of Cruise between Points

In Picture 3.10, click Page Shift button, enter PTZ control menu as shown in Picture 3.12. Please input the number of cruise in the value blank, then click Cruise between Points button, PTZ begins to work on the cruise line. Click Stop button to stop cruise.

3、Scan

PTZ also can work on the preset scan line repeatedly.

1) Scan setup

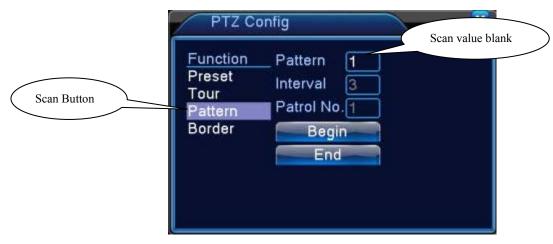
Setting steps:

Step1: In Picture 3.10, click Setup button , enter Picture 3.14;

Step2: Click Scan button, the input proper value in the scan value blank;

Step3: Click Start button, enter Picture3.10, here you can set the following items: Zoom,Focus,Aperture,Direction and so on. Click Setup button to go back Picture 3.14

Step4: Click End button to complete setup. Click the right button of the mouse to exit.



Picture 3.14 Scan Setup

2) Scan Calls

In Picture 3.10, click Page Shift button, then enter PTZ control menu as shown in Picture 3.12. Please input the number of scan in the value blank , then click Scan button, PTZ begins to work on the scan line . Click Stop button to stop.

4、Boundary Scan

In a horizontal line, set up a line, call scan, PZT repeat operation according to the route

1) Boundary Scan setup

Set a period of horizontal curve for PTZ search path, the steps are as follows:

Step1: In Picture 3.10, click Direction button to turn the PTZ to preset direction, then click Setup button enter Picture 3.15, select the left boundary, return to Picture 3.10;

Step2: Please click direction arrows to adjust PTZ direction, click Setup button enter Picture3.15, then select the right boundary ,return to Picture 3.10;

Step3: Complete setup, that is the position of left and right boundary

Note:when the left and right scan in one horizontal, the PTZ will cycle rotate from left scan along the reverse direction to the right scan.

When the left and right scan not in the same horizontal, the PTZ will regard the end of horizontal line which connect to left scan as right scan, cycle rotate from left scan along the reverse direction to the right scan.



Picture 3.15 Boundary Scan Setup

2) Boundary Scan Calls

In Picture 3.10, click Page Shift button, then enter PTZ control menu as shown in Picture 3.12. Please input the number of scan in the value blank , then click Scan button, PTZ begins to work on the scan line . Click Stop button to stop.

5、Horizontal Rotating

Click Horizontally Rotating button, PTZ begins to rotate horizontally (relative to the original position of the camera). Click the Stop button to stop.

6、Rotate

Click on horizontal Rotating button, PTZ turn around.

7、Reset

PTZ restart, all the data clears to 0.

8、Page Shift

In Picture 3.12, click Page Shift button into Picture 3.16, setting auxiliary function. Auxiliary

number corresponding to auxiliary switch on the decoder.

PTZ Control:03	5	<u> </u>
Direct Aux Ope		
Light 💌	Open	Close
Aux Num Ope		
1	Open	Close
Page Switch		Cancel

Picture 3.16 Auxiliary Function Control

[Intuitive Auxiliary Operation] choose auxiliary equipment, select Open or Close button, switch control;

[Auxiliary Number] The operation of corresponding auxiliary switch according to PTZ agreement;

[Page Shift] In Picture 3.16, click Page Shift button enter the Picture 3.17 PTZ Main Menu, the menu itself can be control by the menu control buttons

2.5.6 Color setting

*color setting only apply for Hybrid(HVR)/full analog(DVR) mode,and only analog channel can setting.

Set the selective image parameters (current channel for single window display and cursor place for multi-window display). You can use the desktop shortcut menu and enter the interface. The image

parameters include: tonality, brightness, contrast, saturation. You can set different parameters at different time sections.

Color Setti	ng:05	× × ×
Period	00:00 - 24:00 🗌 19	:00 - 07:00
Brightness	5 0	0 50
Contrast	50	 50
Saturation	5 0	 50
Hue	5 0	 50
Gain	• • •	0
Horizon Sharp	ness — 8	8
Vertical Sharp	ness — 8	8
	Advanced	OK Cancel

Picture 3.18 Color Setting

2.5.7 Output Adjust

*Hybrid mode is with black margin vertical & horizontal, while full digital mode without.

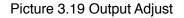
Adjust TV output area parameters. You can use the desktop shortcut menu or enter [main menu]>

[management tools]> [Output adjust].

Output Adjust		Output Adjust	×
Top Deflate Bottom Deflate Bottom Deflate Bight Deflate Black vertical Black horizontal Content of the second seco	= 0 Bo = 0 Le = 0 Ri = 50	op Deflate	0
ок	ancel	OK	ancel

Hybrid(HVR) Mode

full digital(NVR) mode



Note: The black margin vertical & horizontal at output adjust of hybrid mode is only effect to analog channel.

2.5.8 Logout

Logout, shut down the system or reboot up. You can use the desktop shortcut menu or enter [main

menu].



Picture 3.20 Logout/Shutdown/Reboot the system

[logout] Quit the menu. Offer password next entrance.

[shut down] Quit the system. Turn off the power supply.

When press the shut down button, there is schedule hint. After three seconds, the system is shut down. Cancel midway is of no effect.

[reboot] Quit the system. Reboot up the system.

*Note: T series have no shutdown function.



T series logout

2.5.9 Window switch

Preview in single window/four windows/eight windows/nine windows/sixteen windows according to your choice.

Note: different video input number have different switchable preview picture.

2.6.0 Spot

Only part products of 6000 series support this function.the first BNC interface regard as Spot interface,the user can switch to Spot output image segmentation mode through shortcut menu.After

connect to this BNC interface, no matter what operation in VGA, the TV only output the device's preview screen, no GUI interface.

Preview in single window/four windows/sixteen windows according to your choice.

Note: Different video input number have different preview screen.

3 Main menu

3.1 Main menu navigation

Main menu	Sub menu	Function
	Config	Set the recording configuration, recording type, recording time section
	playback	Set recording search, recording play, video file storage
Record	Storage	Set screen capture period, type ,etc.
	Otorage	Note: T series and 6000 series have no this function
	backup	Detect backup device, format device, back the selective files
	Motion detection	Set motion detect alarm channel, sensitivity, area, linkage parameters: defending time section, alarm output, screen hint, recording, screen shot, PTZ, patrol, buzz, email and FTP upload
	Video blind Video loss	Set camera mask alarm channel, sensitivity, linkage parameters: defending time section, alarm output, screen hint, recording, screen shot , PTZ, patrol, buzz, email and FTP upload
Alarm		Set video loss alarm channel, linkage parameters: defending time section, alarm output, screen hint, recording, screen shot , PTZ, patrol, buzz, email and FTP upload
		Set alarm input channel, equipment type, linkage parameters:
	Alarm	defending time section, alarm output, screen hint, recording, screen
	input	shot , PTZ, patrol, buzz, email and FTP upload
		Note: T series have no this function
		Set alarm mode: configuration, manual, shut down
	Alarm output	Note: T series have no this function
	Exception	No HDD, HDD error, HDD capacity not enough, network cut, IP
	handling	Conflict, linkage parameters, screen hint or buzz.

]					
		Set algorithm rule: trajectory display $\$ sensitivity $\$ minimum pixel $\$ alert					
	Intelligent	mode, and setting linkage parameters:period <code>sharm</code> output, the screen					
	analysis	prompt、record、PTZ、tour、buzzer、EMAIL、FTP upload.					
		Note: 6000 series support this function					
	General	Set system time, data format, language, hard disk full time operation,					
	configuration	machine number, video format, output mode, summertime, stay time					
		Set main (extra) coding parameter: code mode, resolving ability, frame					
	Freedo	rate, code stream control, image quality type, code stream value, frame					
	Encode	between value, video/audio enable,					
	configuration	Note: only Hybrid mode and full analog mode have encode					
		configuration.					
	Network	Set basic network parameters, DHCP and DNS parameters, network					
	configuration	high speed download					
	NetService	PPPOE、NTP、Email、IP purview、DDNS parameter					
		Set channel title, preview hint icon state, transparency, cover area,					
	GUI display	time title, channel title fold.					
System		Note : only analog channel can set channel name,region					
configuration		cover ,time title,channel title fold.					
		Set channel, PTZ protocol, address, baud rate, date bit, stop bit, check					
	PTZ	Note: Hybrid mode shows PTZ configuration,T series have no this					
	configuration	function.					
	RS485	Set serial port function, baud rate, date bit, stop bit, check					
	Device	Note: Full digital mode shows : RS485 Device					
	Serial port						
	Configuration	Set serial port function, baud rate, date bit, stop bit, check					
	(RS232)	Note: T series have no this function					
	Tour	Set patrol mode and interval time					
		Set Spot tour mode and time interval					
	Spot	Note: only partial products of 6000 series support.					
		Note: only partial products of 6000 series support.					

		Set channel mode, check channel status and configure the digital				
	Digital					
	Digital	channel, etc.				
		Note: only HVR and 6000 series support				
	Hard disk	Set appointed hard disk as read-write disc, read-only disc or redundant				
	management	disc, clear data, resume date and so on				
	User	Modify user, team or password. Add user or team. Delete user or team.				
	management					
	Online week	Break the connection with the already login user. Lock the account				
	Online user	after break until booting up again.				
		Adjust upside, downside, nearside, starboard distance, black margin				
	Output adjust	vertical & horizontal				
		Note: only analog channel have black margin vertical & horizontal				
Management	Automatic	Sat automatic repeat system and automatic delating files				
tools	maintenance	Set automatic reboot system and automatic deleting files.				
		Resume setup state: common setup, code setup, recording setup,				
	Restore	alarm setup, network setup, network service, preview playback, serial				
		port setup, user management				
	Upgrade	upgrade with external device(like USB)				
	Device Info	device hardware configuration and message				
		Export the device's log or configuration to external device(like USB				
	Import/Export	flash disk);Input the configuration with external device(like USB flash				
		disk).				
	Hard disk					
	information	Display hard disk capability and recording time				
System	BPS	Display code stream information				
information	Log	Clear all log information according to the log video, and time				
momatori	information	Clear all log information according to the log video and time				
	Edition					
	information	Display edition information				
		1				

Shut down	Logout, shut down or reboot	Note: T series have no shut down	
Shut down	function		

3.2 Record

Operations related to record, including: Record, Playback, Backup, Screen shot(only Hybrid mode and full analog have)

3.2.1 Record Configuration

Set the recording parameters in the surveillance channel. The system is set 24 hours consecutive recording in the first startup. You can enter [main menu]> [recording function]> [recording setup] to set. **Note:**There is at least one read-write hard disk. (refer to chapter 4.5.1)

🗟 Main Mer	nu->Record->	Record Conf	ig		<u> </u>
Channel Length Record Mode Week Period 1 Period 2 Period 3	 Schedule Thu ▼ 00 : 00 - 00 : 00 - 	Redundand in PreRecord O Manual 24 : 00 24 : 00 24 : 00	1 5	Sec. Detect	Alarm 🔽
Period 4	00:00 -	24 : 00 Advanc	ed a con		Cancel

Picture 4.1 Record Configuration

[Channel] Choose the corresponding channel number to set the channel. Choose the all option to set the entire channels.

[Redundancy]Choose the redundancy function option to implement the file double backup function. Double backup is writing the video files in two hard disks. When you do the double backup, make sure that there are two hard disks installed. One is read-write disk and the other is redundant disk. (refer to 4.5.1)

[Length] Set the time length of each video file. 60minutes is default value.

[Pre-Record] Record 1-30 seconds before the action. (time length is decided by the code stream)

[Record mode] Set video state: schedule, manual or stop.

Schedule:Record according to the set video type (common, detection and alarm)and time

section.

Manual:Click the button and the according channel is recording no matter the channel in any state.

Stop:Click the stop button and the according channel stops recording no matter the channel in any state.

[Period] Set the time section of common recording, The recording will start only in the set range.

[Record type] Set recording type: regular, detection or alarm.

Regular:Perform the regular recording in the set time section. The video file type is "R".

- **Detect:**Trigger the "motion detect", "camera mask" or "video loss" signal. When above alarm is set as opening recording, the "detection recording" state is on. The video file type is "M".
- Alarm: Trigger the external alarm signal in the set time section. When above alarm is set as opening recording, the "detection recording" state is on. The video file type is "A".

Note: Refer to chapter 4.3 to set corresponding alarm function.

3.2.2 Playback

Refer to chapter 3.5.2.

3.2.3 Backup

You can backup the video files to external storage through setup.

Note: The storage must be installed before the file backup. If the backup is terminated, the already backup can playback individually.



Picture 4.2 Backup

[Detect] Detect the storage connected with the DVR such as hard disk or universal disk.

[Backup] Click backup button and the dialog box is popped up. You can choose the backup file according to the type, channel and time.

Backup	×
Type All Read/Write Channel 1 • Start Time 2001 - 01 - 11 00: 00: 00 End Time 2001 - 01 - 11 22: 51: 45	Remove Add
3 Channel File Name 1 Ø 01 2001-01-11/22.10.57-22.14.02	Length
1 ☑ 01 2001-01-11/22.10.57-22.14.02 2 ☑ 01 2001-01-11/22.16.19-22.17.17 3 ☑ 01 2001-01-11/22.17.55-22.51.40	7[R] 288.00 KB
Required/Remaining:8.22 MB/528.06 MB	
Backup format H264 🔽	Start Cancel

Picture 4.3 Backup

Remove: Clear the file information.

Add: Show the file information satisfying the set file attributes.



Backup format: configurate the backup file format, according to require, can choose

Start/pause: Click the play button to start the backup and click the pause button to stop the backup.

Note: During backup you can exit the page layout to carry out other functions.

[Burning] the file will be burned synchronously after click it.

[Erase] Choose the file to delete and click erasure to delete the file.

[Stop] Stop the backup.

3.2.4 Snapshot Storage

*Note: part products have this function.

Setup snapshot parameters for different channels.At first time it's set for 24hours snapshot continuously, please go to Main Menu--Record--Snapshot Storage for appropriate setting.

Note:If normal snapshot storage,please setup snap at Main Mend--advanced--snapshot(please

refer to chapter 4.5.1 HDD Manager)

Channel PreSnap Mode Week Period 1 Period 2 Period 3 Period 4	2 O Sche Fri 00:00 00:00	Pictures dule ○ Mar	nual 🔾	Stop Regula	ar Detect	Alarm
			Adva	nced	ОК	Cancel

Picture 4.2 snapshot storage

[Channel] Select the related channel to set, click"all"to set all channels.

[Presnap] Setup presnap picture quantity before recording, default is 5 pieces

[Record] Set record status."Schedule","Manual"and"Stop".

Schedule: Realise snapshot according to record type(regular,detect and alarm)and period

Manual: No matter what the present channel is in a state,once choose"manual"button,it will have snapshot at related channels.

Stop: No matter what the present channel is in a state,once choose "stop"button,it will stop snapshot at related channels.

[Period] Set normal record period, it only startup Snapshot Storage at set period.

【Type】Three types:regular,detect and alarm.

Regular: snapshot at set period.

Detect: snapshot at set period when motion detect,video blind and video loss which are preset for snapshot enable.

Alarm: snapshot at set period when alarm in which is preset for snapshot enable.

Note: for related alarm function, please refer to chapter 4.3.

3.3 Alarm Function

Alarm functions include: motion detect, video blind, video loss, alarm input and alarm output,

abnormality、intelligent analysis.

3.3.1 Motion Detect

When system detects the motion signal that reaches the set sensitivity, the motion detect alarm is on

and the linkage function is turned on.

Note: "Advanced" button is the same as right click.

*Motion detect function is different between Hybrid mode & Full digital mode:

Digital channel: not only to enable motion detect function at local side, but also to enable the remote device that was connected. when remote device detect motion movement, local side will start alarm recording, otherwise this function is not enable.

Hybrid mode: only need to enable motion detect function at local side.

👫 Main Menu->	Alarm->Motic	on Detect	2
Channel	1	Enable	
Sensitivity	Middle -	Region 📒	Set
Period	Set	Interval	1 Sec.
Alarm Output	1	Delay	10 Sec.
Record Channel	12345	678910	
Tour	12345	67890	
PTZ Activation	Set	Delay	10 Sec.
Show Message	0	Send Email	
Buzzer	0	FTP upload	0
		Advanced	I OK Cancel

Video detect in Hybrid mode

😤 Main Menu->	>Alarm->Motio	n Detect	8
Channel	1	Enable	
Period	Set	Interval	1 Sec.
Alarm Output	1	Delay	10 Sec.
Record Channel	12345	678910	
Tour	12345	67890	
PTZ Activation	Set	Delay	10 Sec.
Show Message	0	Send Email	Ō
Buzzer	0	FTP upload	O
		Advanced	OK Cancel

Video detect in full digital(NVR) mode

Pic 4.4

[Channel] Choose the set motion detect channel.

【Enable】 ■ means that the motion detect function is on.

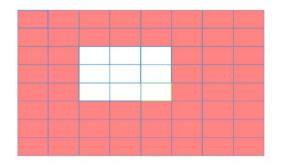


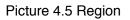
[Sensitivity] Choose in the six options according to the sensitivity. Highest

Note: Only the motion detect under hybrid mode/ full analog mode have this function of setting sensitivity, and also only the analog channel can set region.

[Region] Click [set] to enter the set area. The area is divided into PAL22X18. Red block means the motion detect defensive area. White block means the unfenced area. You can set the area as followed, Drag the mouse and draw the area. Default: all selected blocks are detection area.

Note: Only the motion detect under hybrid mode/full analog mode have this function of setting region, and also only the analog channel can set region.





[Period] Trigger the motion detect signal in the set time section. You can set according to week or set uniformly. Each day is divided into four time sections.■ means the set valid.

Saturda	ay									
2 00:00	- 2	4:00		C		0:0) -	24	00	
00:00	- 2	4:00		C		0:0) - C	24:	00	
	0	3	6	э -	12	15	18	21	24	
Sun										
Mon										
Fue										
Wed										
Thu										
Fri										
Sat										

Picture 4.6 set the time section

[Interval] Only one alarm signal is turned on even there are several motion detect signals in the set interval.

[Alarm output] Start the external equipment of corresponding linkage alarm when the motion detect alarm is turned on.

[Delay] Delay a few moments and stop when the alarm state is turned off. The range is 10~300 seconds.

[Record channel] Choose the recording channel (multiple option supportive). Trigger the video signal when the alarm is turned on.

Note:Set in the [recording setup] and perform the linkage recording. Start detecting video files in the corresponding time section.

【Tour】 ■ means that the selective channel is single window alternate patrol preview. The interval is set in the [Main Menu]>[System] > [Tour].

[PTZ Activation] Set the PTZ activation when the alarm is turned on.

*Hybrid mode, PTZ link to the related PTZ information of analog channel, While digital channel model, the PTZ is link to the related PTZ information on the remote device connected.

Note: to link PTZ, need go [Shortcut menu]->[PTZ control] to set preset point, cruise between points & interval time, etc.

PTZ Activation	<u> </u>
CAM 1 None 🔻 0 CAM 2 None CAM 3 None 🔽 0 CAM 4 None	▼ 0 ▼ 0
	K Cancel

Picture 4.7 PTZ Activation under hybrid mode

[Delay] When alarm is over, recording will last some seconds (10~300sec), then stop.

[Show message] Pop the alarm information dialog box in the local host computer screen.

【Send EMAIL】 ■ means sending an email to user when the alarm is turned on.

Note:Set in the [NetService] and send email.

(FTP upload **)** to tick it, the video & picture of related record channel & snapshot channel will be uploaded to assigned position.

Note: FTP upload need be set at [Netservice]

[Buzz] When alarm happens, device will come out with buzz.

3.3.2 Video Blind

When the video image is influenced by the environment such as bad brightness or reaching the set

sensitivity parameter, the camera mask function is turned on and the linkage function is turned on.

*Same as motion detect function, video blind is different between Hybrid mode & Full digital mode:

Digital channel: not only to enable video blind function at local side, but also to enable the remote device that was connected. when remote device with video blind, local side will start alarm recording, otherwise this function is not enable.

Hybrid mode: only need to enable video loss function at local side.

Note: "Advanced" button is the same as right click.

Channel Sensitivity	1 Middle	 Enable 	V	
Period	Set			
Alarm Output	1	Delay	10 Sec.	
Record Channel	1234	56789	Information and Information an	
Tour	1234	156789		
PTZ Activation	Set	Delay	10 Sec.	
Show Message		Send Em	ail 🗍	
Buzzer		FTP uplo	ad 🔲	
		Advanc	ed OK Canc	el

Video Blind in Hybrid mode

⊘Main Menu->	Alarm->Video	Blind	×
Channel	1	Enable	
Period	Set		
Alarm Output	1	Delay	10 Sec.
Record Channel	12345	678910	
Tour	12345	678910	
PTZ Activation	Set	Delay	10 Sec.
Show Message	0	Send Email	0
Buzzer	0	FTP upload	
		Advanced	OK Cancel

Video blind in full digital(NVR) mode

Pic 4.8 Video blind

Set method: refer to chapter 4.3.1. Motion detect

3.3.3 Video Loss

When the equipment can not obtain the channel video signal, the video loss alarm is turned on and

the linkage function is turned on.

*Same as motion detect function, video loss is different between Hybrid mode & Full digital mode:

Digital channel: not only to enable video loss function at local side, but also to enable the remote device that was connected. when remote device with video loss, local side will start alarm recording, otherwise this function is not enable.

Hybrid mode: only need to enable video loss function at local side.

Note: "Advanced" button is the same as right click.

Main Menu->	Alarm->Video) Loss	× × × × ×
Channel	1	Enable	
Period	Set		
Alarm Output	1	Delay	10 Sec.
Record Channel Tour	12345		
PTZ Activation	Set	Delay	10 Sec.
Show Message		Send Email	
Buzzer	Ō	FTP upload	Ō
		Advanced	OK Cancel

Video loss in Hybrid(HVR) mode

Main Menu->	>Alarm->Video	Loss		×
Channel	1	Enable		
Period	Set			
Alarm Output	1	Delay	10 Sec.	
Record Channel	12345	678910		
Tour	12345	678910		
PTZ Activation	Set	Delay	10 Sec.	
Show Message	0	Send Email	0	
Buzzer	0	FTP upload	0	
		Advanced	OK Cancel	

Video loss in full digital(NVR) mode

Pic 4.9 Video loss

Set method: refer to chapter 4.3.1. Motion detect

3.3.4 Alarm input

When the equipment obtains the external alarm signal, the alarm function is turned on.

*Alarm input is the same between hybrid mode & full digital mode, function enable, when it was set normal, only need to connect alarm sensor at alarm input port on local side, the alarm information is occurring, and will link to related setting functions at the same time

>Alarm->Alarn		
1 • Normal O _I •	Enable	
Set	Interval Delay	1 Sec. 10 Sec.
12345	678910 678910	11213141316 11213141316 11213141316 110 Sec.
	Send Email FTP upload	0
	Advanced	OK Cancel
	Normal O _I -	Normal OI Set Interval Delay 12345678910 12345678910 Set Delay Set Send Email

Note: "Advanced" button is the same as right click.

Alarm input in Hybrid(HVR) mode

Aain Menu->	Alarm->Alarm	ı İnput		×
Alarm In Type	1 • Normal Oj •	Enable		
Period Alarm Output	Set	Interval Delay	1 Sec. 10 Sec.	
Record Channel Tour PTZ Activation		678910 678910 Delay	10 Sec.	
Show Message Buzzer	0	Send Email FTP upload	<u> </u>	
		Advanced	OK Cance	

Alarm input in NVR mode

Pic 4.10 Alarm input

Set method: refer to chapter 4.3.1. Motion detect

3.3.5 Alarm output

Refer to chapter 3.5.4.

3.3.6 Abnormal

Analysing and inspecting current software and hardware of the device: When some abnormal events happen, the device will make a relative answer such as show message and buzzer.

Main Menu-	>Alarm->Abnormality		
Event Type Enable	No Disk		
Show Message Buzzer			
	1	OK Ca	incel

Picture 4.11 Abnormal

	No Disk Disk Error			
	Disk No Space Net Disconnection			
【Event Type】	selecting abnormity you want to inspect IP Conflict			

[Enable] Select it to make sure abnormal function workable

- [Show message] Automatically alarm cue dialog box come out of the main screen
- [Buzzer] Device will have one long nosie "di" while alarm is happening

3.3.7 Intelligent analysis

*Note: only part of product support this function at present.

To analyze the video image, when system detect object that meet pre-set algorithm rules and fit set flexibility and minimum image distance, will trigger video analysis alarm, and enable the linkage function.

*only the 1st channel of full analog mode and hybrid mode can support this function, and if

thic	function	is enabled,	thon	vidoo	blind	ie	invalid	
แทร	Tunction	is enableu,	uien	viueo	Dilliu	15	IIIvaliu	-

Channel Algor	1 • Perimeter •	Enable Rule 🥅	Set
Period	Set	Interval	1 Sec.
Alarm Output	(1)	Delay	10 Sec.
Record Channel	নাহারারারা	เกาเอเอเตเ	rananananana
Tour	12345	678910	manananana
PTZ Activation	Set	Delay	10 Sec.
Show Message		Send Email	
Buzzer		FTP upload	0
		Advanced	OK Cancel

Pic 4.12 Intelligent analysis setting page

【Channel No.】 only shows by "1", at present, only the 1st channel with maximum resolution of 1080P in the full analog(DVR) mode and hybrid(HVR) mode

[Enable] tick it to enable the video analysis function, then can go for further setting,

Perimeter alert	J
Items care	
Video Diagnosis	

[Algorithm rule] at drop-down box Video Diagnosis to choose the algorithm rule of detection,

High Middle

[Rule] choose different algorithm rules, the related setting page is different.

Cordon:

- > Show traces tick it to enable, when alarm triggers, there will be red box around moving objects.;
- Sensitivity , base on different requirement, there are 3 options in the drop-down box
- > Minimum image distance range between 0~30 %, the more flexible the less image distance.;
- > Alert way there are 2 kinds: cordon and warning area.
- Cordon: Can set 3 prohibited directions: bidirectional prohibited, from top to bottom (from left to right), from bottom to top (from right to left), when the setting cordon is too slope, show with from left to right / from right to left, otherwise will be from top to bottom / from bottom to top, when the moving object meet preset cordon rules, the alarm will be triggered; Warning area: can set 3 kinds of

prohibited directions: bidirectional prohibited, enter and leave, when the moving object meet preset warning area rules, alarm will be triggered.

Rules click setting, enter rule setting page, right click mouse, choose add, use mouse to fix two or more point, and then connect them to form a line or a irregular region, after that a box of prohibited direction options will come out, choose one of them, right click mouse, click Yes, return to previous page, click Yes, alarm rules setting is finished.

Perimeter alert		8
Show Traces Sensitivity Minimum image distance Alert way	High • 5 %	
O Cordon Rule	• Warning Area	
	ОК	Cancel

Pic 4.13 rules setting - cordon

Items care:

Show traces tick it to enable, when this function is triggered, there will be read box shows around the moving object

Middle

- Sensitivity, base on different requirement, there are 3 options in the drop-down box
- > Minimum image distance range between 0~30 %, the more flexible the less image distance.
- Alert way: three modes: Items stranded, Items stolen, Illegal parking.Items stranded:object appears within warning area, and the size of object meet the rules of minimum image distance, alarm will be triggered. Items stolen:object disappears within warning area, and the size of object meet the rules of minimum image distance, alarm will be triggered; Illegal parking:this way is similar with Items stranded.
- > Rules click setting, enter the setting page of rule, right click mouse, choose add, use mouse to fix

several points and then connect them to form a irregular region, right click mouse, click Yes, return to previous page, click Yes, alarm rule setting if finished.

Items care	8
Show Traces Sensitivity Minimum image distance Alert way	High • 1 %
● Items stranded Rule	O Items stolen shift O Illegal parking Set
	OK Cancel

Pic 4.14 rule setting - items care

High Middle

Video diagnosis:

- Sensitivity, base on different requirement, there are 3 options in the drop-down box
- Detection type: there are 8 kinds of detection type: Brightness anomaly detection. Sharpness detection. Noise detection. Color cast detection. Screen freezes detection. Scene change detection. Anthropogenic interference and PTZ runway detection. Can choose one or more types if necessary, when video detect selected type, the alarm will be triggered.

Video Diagnosis			×
Sensitivity High			
 Brightness anomaly detection Noise detection Screen freezes detection Anthropogenic interference detection 	Sharpness detection Color cast detection Scene change detection PTZ runaway detection	OK Cance	

Pic 4.15 rule setting page of video diagnosis

The setting way of set / withdraw garrison time period and linkage parameter, please refer to

chapter"4.3.1 motion detection"

For example: enable video analysis function, algorithm rules is **PEA**, the alert way in the rule is **Cordon**, prohibited direction is bidirectional, when a moving object across this warning line, alarm is triggered, see below pic4.16



Pic 4.16 the alarm image regarding one of the video analysis

Video Teaching

http://v.youku.com/v_show/id_XNDY5Mjc0OTcy.html	,cordon
http://v.youku.com/v_show/id_XNDY5Mjc3MjAw.html	,warning area
http://v.youku.com/v_show/id_XNDY5Mjc4ODg4.html	,items stranded
http://v.youku.com/v_show/id_XNDY5Mjc4MDA0.html	,items stolen shift

3.4 System setup

Set the system parameters such as General, Encode(under Hybrid/full analog mode), Network, Net service, GUI display, PTZ configure/RS485 device, RS232, Tour setup, Spot and digital.

3.4.1 General

X Main Menu->	-System->General
System Time	2001 - 01 - 12 20: 21: 50
Date Format	
Date Separator	
Time Format	24-HOUR T
Language	ENGLISH
HDD Full	Overwrite 💌
DVR No.	0
Video Standard	PAL •
Auto Logout	0 min
Machine Name	LocalHost
	OK Cancel

Picture 4.17 General setup

[System time] Set the system data and time.

[Date format] Choose the data format: YMD, MDY, DMY.

[Date Separator] Choose list separator of the data format.

[Time Format] Choose time format: 24-hour or 12-hour.

[Language] support 29 language at

present: Arabic, Czech, English, Finnish, Greek, Indonesian, Italian, , Japanese, Portuguese, Russian, Thai, T-Chin ese, S-Chinese, Turkish, Brazilian, Bulgarian, Farsi, French, German, Hebrew, Hungarian, Polish, Romanian, Spani sh, Swedish, Vietnamese

[HDD full] Choose stop record: Stop recording when the hard disk is full.

Choose overwrite: Cover the earliest recording files and continue recording when the

hard disk is full.

[DVR No.] Only when the address button in the remote controller and the corresponding DVR number is matched, the remote operation is valid.

[Video Standard] PAL or NTSC.

[Auto Logout] Set the latency time in 0-60. 0 means no latency time.

[Machine Name] Can setting the device's name.

[DST] Choose the summer time option and pop the dialog box as followed.

En		look	0.0	ata.				
Start:	ay of W Jan		1st	ate T	Mon 🔻	01:0	01	
End:	Jan	P	1st	•	Mon 🔻	01:0	01	

Picture 4.18 DST (week)

DS	Т					×
<table-cell> Ena</table-cell>		eek 💿 Dati	8	5,		
Start:	20	001 - 01 - 01	01:01			
End:	20	001 - 01 - 01	01:01			
				ОК	Car	ncel

Picture 4.19 DST (date)

3.4.2 Encode setup

*only 6000 series and HVR (other products only have analog channel) under Hybrid mode/full analog mode ,it has encode setup function, encode settings is for analog channel only.

Set the video/audio code parameter: video file, remote monitoring and so on. Set every main stream parameter in the left part, and set the extra stream parameter in the right part.

Note: extra stream introduces video compression technique which was applying for multi-channel playback simultaneously, Dial-up multi-channel real-time monitor under poor bandwidth, or mobile monitor and so on.

🛱 Main Menu->	System->Enco	de		
Channel	1	T		
Compression	H.264		Extra Streaml	
Resolution	CIF(352x288)		QCIF(176x144)	
Frame Rate(FPS)	25		25	
Bit Rate Type	VBR		VBR	
Quality	Good		General	
Bit Rate(Kb/S)	512		192	
I Frame Interval	2		2	
Video/Audio	Image: Construction of the second		0 0	-12
		Advanc	ord OK	Cancel

Picture 4.20 Encode setup

Independent channel code setting

[Channel] Choose the channel number.

【Compression】 Standard H.264 main profile.

[Resolution] Resolution type:1080P/720P/960H/D1/ HD1/CIF / QCIF.

[Frame Rate] P:1 frame/s~25 frame/s; N: 1 frame/s~30 frame/s

[Bit Rate Type] You can choose limited code stream or variable code stream. When you choose the variable code stream there are six image quality options.under the limited code stream, you can choose the code stream manually;

[Bit Rate] Set the code stream value to modify the image quality. The larger code stream value the better image quality.

```
1080P(1024~8192kbsp) 720P(1024~4096kbps) 960H(869~4096kbps) D1 (512~2560kbps) HD1
(384~2048kbps) CIF (64~1024kbps), QCIF(64~512kbps)
```

[Frame Interval] can choose the range 2~12s

[Video/Audio] When the icons are all in reverse displayed, the video file is video and audio multiplex stream.

Extra stream Settings

[Extra stream] is used for client side monitoring & mobile monitoring.

【Channel title】 select channel title and then to choose whether need enable video & audio. The resolution, frame rate, bit rate type settings is the same as main stream.

3.4.3 Network setup

G Main Menu->	>System->Network
Net Card	Wire Netcar(
IP Address	192 . 168 . 1 . 10
Subnet Mask	255 . 255 . 255 . 0
Gateway	192 . 168 . 1 . 1
Primary DNS	192 . 168 . 1 . 1
Secondary DNS	8 . 8 . 8 . 8
Media Port	34567
HTTP Port	80
HS Download	0
Transfer Policy	Quality Prefe -
	OK

Picture4.21 Network

[Net Card] You can choose cable network card or wireless network card.

[DHCP Enable] Obtain IP address automatically(not suggested)

Note: DHCP server is preinstalled.

[IP address] Set the IP address. Default: 192.168.1.10.

[Subnet mask] Set the subnet mask code. Default: 255.255.255.0.

[Gateway] Set the default gateway. Default: 192.168.1.1.

【DNS setup】 Domain Name Server. It translates the domain name into IP address. The IP address is offered by network provider. The address must be set and reboot then it works.

[Media port] Default: 34567.

[HTTP port] Default: 80.

[HS Download]

[Transfer Policy] There are three strategies: self-adaption, image quality precedence and fluency precedence. The code stream will adjust according to the setup. Self-adaption is the tradeoff between the image quality precedence and fluency precedence. Fluency precedence and self-adaption are valid only when the assistant code stream is turned on. Otherwise image quality precedence is valid.

3.4.4 NetService

Choose the network service option and click the set button to configure the advanced network functions or double click the service button to configure the parameters.

Net Server	Net Server Info	
PPPoE	0:	
NTP	0: NTP:10	
EMAIL	0: Your SMTP Server:25	
IP FILTER	0: :0 :0	
DDNS	DDNS Set Invalid	
FTP	0: FTP	
ARSP	1: xmsecu.com:15000	
AlarmServer	1: 192.168.0.101	
Wireless Config	Not enabled	
Mobile Monitor	0: 34599	
UPNP	0	
Wifi	Not enabled	
RTSP	1: 554	
Cloud	Enable	

Picture 4.22 NetService

Enable	<u>p</u>			_,				
User Name								
Password								
IP Address	0	 0	10	0	12	0		

【PPPoE setup】

Picture4.23 PPPOE

Enable: Reverse means choose, setting can become effective.

Input the user name and password that ISP (Internet service provider) provides. After saving it reboot up your system. Then the DVR will build a network connection based on PPPoE. The IP address will change into dynamic IP address after above operation is well done.

Operation: After PPPoE dialing successfully look up the IP address in the [IP address] and obtain the current IP address. Then use this IP address to visit the DVR through user port.

[NTP setup]

u->System->NetSer	vice->NTP
0	
NTP	
123	
GMT+08:00	
10	min
	OK Cancel
	123 GMT+08:00

Picture 4.24 NTP

The NTP server must be installed in the PC.

Enable: Reverse∎mean choose, setting can become effective.

Host computer IP: Input the IP address installed NTP server.

Port:Default: 123. You can set the port according to NTP server.

Time zone:London GMT+0 Berlin GMT +1 Cairo GMT +2 Moscow GMT +3 New Delhi GMT +5 Bangkok GMT +7 Hongkong Beijing GMT +8 Tokyo GMT +9 Sydney GMT +10 Hawaii GMT-10 Alaska GMT-9 Pacific time GMT-8 American mountain time GMT-7 American mid time GMT-6 American eastern time GMT-5 Atlantic time GMT-4 Brazil GMT-3 Atlantic mid time GMT-2.

Update Period: The same with the NTP server check interval. Default: 10minutes.

[EMAIL setup]

If the alarm is turned on or the alarm linkage photos are taken, send an email about the alarm information and the photos to appointed address.

Main Me	nu->System->NetService->EMAIL
Enable	
SMTP Server	Your SMTP Server
Port	25
Need SSL	
User Name	
Password	
Sender	
Receiver	
Title	Alarm Message
	OK Cancel

Picture 4.25 EMAIL

SMTP server:Email server address. It could be an IP address or domain name. Domain name can be translated only it is the correct DNS configuration.

Port:Email server port number.

SSL:Decide whether using Secure Socket Layer protocol to login.

User Name: Apply the email server user name.

Password: Input the password corresponding to the user.

Sender:Set the email sender address.

Receiver:Send the email to appointed receivers when the alarm is turned on. You can set three receivers at most.

Title: You can set as you wish.

【IP Filter setup】

When choosing the white list, only the listed IP address can connect the DVR. The 64 IP addressed are supportive in the list.

When choosing the black list, the listed IP address can not connect the DVR. The 64 IP addressed are supportive in the list.

You can delete the set IP address by $\sqrt{}$ in the options.

Note: When the same IP address is in the white and black list at the same time, the black list precedence is higher.

М	ain Menu->System->NetService->IP FIL TER
Enable Restri	e O cted Type Blacklist
0	. 0 . 0 . 0 Add
0	Banned IP
	Delete OK Cancel

Picture 4.26 IP FILTER

[DDNS]

Main Men	1->System->NetService->DDNS
DDNS Type	CN99
Enable	
Domain Name	your.3322.org
User Name	
Password	
	OK Cancel
	Cancer

Picture 4.27 DDNS setup

It is the abbreviation of dynamic domain name server.

Local domain name: Provide the domain name registered by DDNS.

User name: Provide the account registered by DDNS.

Password: Provide the password registered by DDNS.

When the DDNS is successfully configured and start, you can connect the domain name in the IE address column to visit.

Note: The DNS setup must be configured correctly in the network setup.

【FTP setup】

FTP is available only when alarm happens, or alarm activates record and snapshot, it will upload related record and snapshot pictures to FTP server.

Main Me	nu->System->NetService->FTP
Enable C Server IP F) TP
Port 2	1
User Name	
Password	
Max File Len	gth 128 M
DirName	
	OK Cancel

Picture 4.28 FTP setup

[Enable] Click Enable, then all settings will be available

[Server IP] IP address for FTP server

[Port] Domain Port of FTP, default 21

[User Name] User name of FTP

[Password] Password of user

[Anonymous]: enable anonymous, no need setting user name and password

[Max File Length] Max length for upload files at every packed, default 128M

[Dir Name]: The directory of upload file.

Note: The user should be with authority to upload files.

[ARSP]

Startup DDNS server to add devices and manage it in the DDNS server

ARSP		X
Туре	DNS 🔽	
Enable	~	,
Server IP	192.168.1.112	:
Port	15000)
User Name	test)
Password	•••••)
Update Period	1	min
		,
		OK Cancel

Picture 4.29 ARSP

[Type] choose "DNS"

[Enable]:
means it is chosen

[Sever IP]: IP address of DDNS server

[Port]: Port No. of device, related DDNS server listen port

[User name] the user name that device can log in DDNS server

[Password] the password related to the user name.

[Refresh cycle]: Time interval between device and DDNS when chynchronously.

Note: Please set up server before using DDNS.

[Alarm center]

When alarm occurring, report alarm information to alarm server.

AlarmServ	er 😵
Protocol Type Enable	
Server Name Port	AlarmServer
Alarm report	
Log report	
	OK Cancel

Pic: 4.30 alarm server setting

[Protocol type] GENERAL

[Enable] To tick it means enable.

[Server IP] IP address of Alarm Server

[Port] Device Port No.

[Alarm Report] Tick it means to report alarm information to server.

[Log Report] Tick it, means to report log to server.

[Wireless Config]

ADSL through 3G net card, use CMS to visit and config the device

Main Me	nu->System->Ne	etService->Wireless Config 🛛 🕹
Enable	\checkmark	
Туре	AUTO	
Wireless AP	AccessPoint	
Dial Number	#777	
User Name	ctnet@mycdma	1.0
Password		
IP Address	0.0.	0 . 0
		OK Cancel

Picture 4.31 Wireless Config

[Enable] Choose Enable to make all settings available

【Type】 Dial type,default AUTO

[Wireless AP] 3G access point

[Dial Number] 3G Dial Number

[User Name] User name of 3G

[Password] Password of dial user

【IP Address】 IP address,got from dial

Note: parts of A series and T series don't support this function.

[Mobile Monitor Setup]

To visit the device by mobile, please make a router mapping of this port and use CMS to monitor and operate it by protocol.

Mai	in Menu->System->NetService->Mobil 🞽
Enable	34599
Port	OK Cancel

Picture 4.32 Mobile Monitor Setup

[Enable] Select it to make sure abnormal function workable

[Port] It's a port of mobile monitoring which you need to make a router mapping of if want to visit

it by mobile

[UPNP]

UPNP protocol is to realize auto port forwarding on router, precondition of using this function is to make sure the UPNP function of router is enabled.

Main Menu->System->NetService->UPNP
EnableHTTP Port0TCP Port0MobilePort0
Make sure UPNP is running on router, before using this
OK Cancel

Picture 4.33 UPNP

[Enable] Choose Enable to make sure all UPNP settings available

[HTTP] Route will automatically distribute HTTP port for the device, when IE viewing, it need this

port

[TCP] Router will automatically distribute TCP port for the device, when monitoring via CMS, it need this port.

[Mobile Port] Router will automatically distribute Mobile Port for the device, when mobile monitor, it need this port.

【WIFI】

DVR connect to wireless router via WIFI module, then to visit it through IP address, the precondition of using this function is to make sure the DVR have connected with WIFI modern.

Wifi	
SSID dd-wrt <i>DVRSE</i> -tplink	Authentication Signal OPEN Very Low OPEN Excellent
	Search
Enable	0
SSID	AP350
Password	
IP Address	192 . 168 . 1 . 10
Subnet Mask	24 . 255 . 255 . 0
Gateway	192 . 168 . 1 . 1
	OK Cancel

Pic 4.34 WIFI configure

[Search]: click [search] to search all the available wireless device in current range.

[enable]: tick it to enable firstly, then go for further setting.

[auto obtain IP address]: tick it to enable, device will auto obtain a WIFI IP.

[SSID]: wireless LAN name, auto match to the wireless device u connected.

[Password]: wireless network password of router;

[IP address] : to set the IP address of device, default is 192.168.1.12

[subnet mask] :set subnet mask of device, default is 255.255.255.0

[gateway]: set gateway of device, default is 192.168.1.1

[RTSP]

To do surveillance via cross-browser (Safari, Firefox, Google chrome) and VLC software. This

function only for monitor but can not control the device.

RT	SP		× 🛛
Enable	V		
Port	554		
		OK	Cancel

Pic 4.35 RTSP setting

【Enable】: ■ means enable, tick it firstly before setting.

[Port]: the default port is 554

3.4.5 GUI Display

Configure the video output parameters including the front output mode and encode output mode.

Front output: In the local preview mode include: channel title, time display, channel display, record status, alarm status, transparency and region cover.

Encode output: In the network surveillance and video file mode include: channel title, time display, channel display, record status, alarm status, transparency and region cover.

*Remark:Only 6000 series product support preview resolution - 1920*1280(1080P)

🗖 Main Menu	i->System->GUI Display 🛛 🛛 🛛
Channel Title Time Display Record Status Deflick Transparency Resolution	☑ Alarm Status ☑
Channel Region Cover	
Time Display	🖌 Channel Title 🖌 🧫 Set
	OK Cancel

The GUI display page under hybrid(HVR) mode and all analog(DVR) mode

⊂ Main Menu->System->GUI Display		×
Time Display Record Status Deflick Transparency Resolution 1280*1024 VGA priority		
	OK Can	cel

The GUI display page under full digital(NVR) channel

Pic 4.36 output mode

[Channel Title] Click the channel name modify button and enter the channel name menu. Modify the channel name. The 16 Chinese characters and 25 letters are supportive.

【Time Display】 means the selective state. Display the system data and time in the surveillance window.

【 Channel display 】 means the selective state. Display the system channel number in the surveillance window.

[Record Status] means the selective state. Display the system recording status in the surveillance window.

[Alarm Status] means the selective state. Display the system alarm status in the surveillance window.

[Transparency] Choose the background image transparency. The range is 128~255.

[Resolution] set display resolution.

[Channel] Choose the set code output channel number.

[Region Cover] means the selective state. Click the cover area button and enter the corresponding channel window. You can cover the arbitrary using mouse. (Black region is for output)

[Time display] and [Channel display] set the display position of channel title and time title.

*the channel no., region cover, time title and channel title setting function exist at output mode only when the device is under hybrid(HVR) mode or full analog(DVR) mode.

3.4.6 PTZ device /RS485 device

* when under hybrid mode/full digital mode, it shows with PTZ device and RS485 device,

PTZ Devi	ce		RS485 De	vice	
Channel	1	•			
Protocol	PELCOD	•	NONE		
Address	1		1		
Baudrate	9600	•	9600		
Data Bits	8		8	-	
Stop Bits	1	•	1		
Parity	None	-	None	-	R

Pic 4.37 PTZ configure

[Channel] Choose the dome camera input channel.

[Protocol] Choose the corresponding dome protocol. (PELCOD as an example)

[Address] Set as the corresponding dome address. Default: 1. (Note: The address must be consistent with the dome address.)

[Baudrate]Choose the corresponding dome baud rate length. You can control the PTZ and vidicion.

Default: 115200.

[Data bits] Include 5-8 options. Default: 8.

[Stop bits] Include 2 options. Default: 1.

[Parity] Include odd check, even check, sign check, blank check. Default: void.

*When under full digital mode, it will show RS485 device.

Main I	Menu->Sy	stem->RS485 Device	×
Protocol	NONE	•	
Address	1		
Baudrate	9600		
Data Bits	8		
Stop Bits	1		
Parity	None		
			*
			OK Cancel

4.38 RS485 device

[Protocol] choose related protocol of brand model(for example: DaHua);

[Address] set with corresponding address, default is 1;

[Baud rate] choose bard rate that related device use, default is 115200;

[Data bits] including 5-8 options, default is 8;

[Stop bits] including 2 options, default is 1;

[Parity] Include odd check, even check, sign check, blank check. Default: void.

Remark: when analog channel existing, there will be PTZ and RS485 at PTZ setting, if device

is all digital(NVR) mode, it will show RS485 only.

3.4.7 RS232

*T series do NOT support this function.

😤 Main	Menu->System-	->RS232			
Function Baudrate Data Bits Stop Bits Parity	Console				
Baudrate	115200				
Data Bits	8				
Stop Bits	1				
Parity	None				
			ОК	Cancel	

Pic 4.39 serial port setting

[Serial Port Function] Common serial port is used to debug and update program or set up specific

serial port.

[Baud rate] Choose the corresponding baud rate length.

【Data bits】 Include 5-8 options.

[Stop bits] Include 2 options.

[Parity] Include odd, even, mark, space, default is none.

3.4.8 Tour

Set the patrol display. means that the tour mode is enable. You can choose the single-view, four-view, six-view of single mode tour or hybrid mode tour.

 Main Menu-> 	System->Tour	_	
Enable Tour	V		
Interval	5	Sec.	
View 1	1234		
View 4	1		
Alarm Tour Type			
Interval	5	Sec.	
Return after finis	hed 📈		
		50	11 J
		OK	Cancel

Pic 4.40 tour configure

[interval] Set the patrol switch interval. The set range is 5-120 seconds.

[alarm tour] set the interval to shift alarm tour, range is 5-120 seconds, choose return when alarm ends, when alarm link to tour, system will auto shift to six-view after alarm finished.

Remark: at preview mode, click upper right icon O / O can turn on / off tour (O mean turn on, O mean turn off).

3.4.9 Spot configure

*Remark: only part of 6000 series product can support this function

To set TV tour display with sport port, means enable mode tour, you can choose single-view, four-view, nine-view for single mode tour or hybrid mode tour. When tour enables, no matter what u operate on VGA side, there is only the spot tour image output on TV side, no GUI displayed,

Main Me	nu->System->Spot Set	
TV channel	1	
Enable Tour Interval View 1 View 4 View 16	✓ 5 1234567890112314131 1234 1	
	ОК	Cancel

Pic 4.41 Spot configure

[interval] Set the patrol switch interval. The set range is 5-120 seconds.

3.5.0 Channel manage

*Remark: only HVR and 6000 series product support this function.

Digital manage including digital channel, channel status, and channel mode (Remark: there is only analog mode if device is under full analog mode):



Channel manage page under all analog(DVR) mode



Channel manage page under Hybrid(HVR) mode / full digital(NVR) mode Pic 4.42 channel manage interface

Digital channel:

Digital channels			
Time synchronization Connection mode Network Configuration		Enable 🔽	
2 Configur. name 1	Device Type IPC IPC	IP Address 10.6.10.9 10.6.5.54	Remote acce 1 5
Add Delete	Adva	nced OK	Cancel

Single link page of digital channel

 Digital channels 	
Channel	3 🔽 Enable 🔽
Time synchronization	
Connection mode	Multi-link 🔻 Polling time 10 Sec.
Network Configuration	n list
0 Configur. name	e Device Type IP Address Remote acce
Add Delete	
	Advanced OK Cancel

Multi-linkage page of Digital channel

Pic 4.43 digital channel interface

[Channel] select channel title

[Enable] Open digital channel, tick enable, then can do related settings

[Time Synchronization] Tick it means the time of this channel and device is the same.

[Connection Mode] can be singe connect or multi-ink, multi-link modes can connect to several

devices, device will be tour displayed one by one, tour interval can be set, no less then 10s;

[Delete] If the user want to change device, select the existing device, click delete will be ok.

[Add] click add will come out below page to add new device

R	emote acce	ess configuratio	n		\mathbf{x}	
Devid Rem Devid Port	igur. name ce Type ote access ce address name	chConfig01 IPC ◄ 1 10.6.5.54 34567 admin) Protocol Stream Password	TCP ▼ Main Stream ▼		
0	DeviceNa	ame M	AC	IP Address	Port	
	Search OK Cancel					

Pic 4.44 remote channel configure page

[Configure Name] device is with default configure title, user can revise it if necessary;

[Device Type] 3 types: IPC、DVR、HVR, user can choose as what you like, default is IPC;

[Protocol] Default is TCP

[Remote channel] User can input remote channel title from the device that you want to connect

remotely

[Stream] Default is main stream, do not support extra-stream at present;

[Device address] IP address of device.

[Port] Default is 34567

【User name】 Default is admin

Remark: click [search] will show all the devices that searched out, user can choose any of the device that you like.

Confi	gur. name	chCo	nfig02			
		IPC -		Protocol	TCP	
		1		Stream	Main Stream -	
Device address 10.			.47.49			
Port		3456	7			
Username		admi	n	Password		
55	Device N	ame	N	1AC	IP Address	Po
	LocalH	ost	00:0b:3	f:89:45:52	10.2.47.49	345
2	LocalH	ost	00:44:2	2:55:66:22	10.2.7.134	345
3	LocalH	ost	00:10:0	0:01:75:7f	10.2.20.119	345
4	LocalH	ost	00:44:2	2:22:44:22	10.2.4.16	345
5	LocalH	ost	00:10:0	0:02:1c:b3	10.2.29.49	345
6	LocalH	ost	00:ee:0	0:ed:00:01	10.2.17.119	345

Pic 4.45 the device list searched under remote channel setting

Channel Status:

channel status is to show the status of all the digital channel When there is what existing, status including Max Resolution, This Resolution, Connection Status.

Channel status
Channel Max. resolution This Resolution Connection Status
D05 D1 CIF Connected
D06 D1 D1 Connected
Cancel

For example: The channel status for 4+2 mode is as below:

When a channel is added with device but it is not enable, you will see as below:

Char	nnel status			×
Channel D05	Max. resolution D1	This Resolution Unknown	Connection Status Not configured	
D06	D1	D1	Connected	
			Cance	»I

Channel status interface under full digital(NVR) mode (One of the channel without device)

Chan	nel status		×
Channel	Max. resolution	This Resolution	Connection Status
D01	D1	704×576	Connected
D02	D1	704×576	Connected
D03	D1	704×576	Connected
D04	D1	VGA	Connected
D05	D1	720P	Connected
D06	D1	928×576	Connected
			Cancel

Remark: when the current resolution is over the max resolution that the channel supported, then a red "X" will be shown on the preview image, for example: Under full digital channel mode, Max resolution of channel 3 is D1, if it was connected to a device with resolution over D1 (such as 960H), you will see below pic:



/	≌ Cha	nnelT	уре										×
		Ana	log ch	ann	els				Digital	char	nnels		
1	080P	720P	960H	D1	HD1	CIF	1080P	720P	960H	D1	HD1	CIF	Г
	0	0	0	16	0	0	0	0	0	0	0	0	1
	0	0	0	8	0	0	0	0	0	16	0	0	L
	0	0	0	8	0	0	0	8	0	0	0	0	L
	0	0	0	8	0	0	2	2	0	0	0	0	L
	0	0	0	4	0	0	1	7	0	0	0	0	L
	0	0	0	4	0	0	1	1	10	0	0	0	F
	0	0	0	4	0	0	0	0	0	20	0	0	
	0	0	0	4	0	0	2	0	0	10	0	0	
	0	0	0	0	0	0	0	0	0	24	0	0	1
	0	0	0	0	0	0	0	0	20	0	0	0	L
	0	0	0	0	0	0	4	0	0	0	0	0	L
	0	0	0	0	0	0	1	8	0	0	0	0	\mathbf{F}
		<u> </u>	0	0	0	0	<u> </u>	1		•	0	0	L
								_	014		-		
									OK		Car	ncel	

Channel mode:

Remark: this series of product with full analog channel mode, hybrid mode and full digital mode, and different model with different channel mode, user can shift the mode freely if necessary.

3.5 Advanced

Manage tools menu including: HDD manage, account manage, online user, output adjust, auto maintain, upgrade.

3.5.1 HDD Manage

Configure and manage the hard disk. The menu displays current hard disk information: hard disk number, input port, type, status and overall capability. The operation include: setup the write-read disk, read-only disk, redundant disk, hard disk format, resume default. Choose the hard disk and click the right function button to execute.

Note: Read/Write Disk: The equipment can write or read data.

Read-only Disk: The equipment can read data but can not write data.

Redundant Disk: Double backup the video files in the write-read disk.

	Main Menu->.	Advanced->HDD	Manage	
9	HDD No.	Туре	Status	Read/Write
1	1-1	Read/Write	Normal	
2	1-2	Read/Write	Normal	Snapshot
3	2-1	Read/Write	Normal	Read only
4	3-1	Read/Write	Normal	
5	4-1	Read/Write	Normal	Redundant
6	5-1	Read/Write	Normal	
7	6-1	Read/Write	Normal	Format Disk
8	7-1	Read/Write	Normal	Recover
9	8-1	Read/Write	Normal	
				Partition
				Cancel

Pic 4.46 HDD manage

3.5.2 Account

Manage the user purview.

Note: 1. The character length is 8 bytes at most for the following user and user team name. The blank ahead or behind the character string is invalid. The middle blank in the character string is valid. Legal characters include: letter, number, underline, subtraction sign, dot.

- 2. There is no limit in the user and user group. You can add or delete the user group according to user definition. The factory setup include: user\admin. You can set the team as you wish. The user can appoint the purview in the group.
- 3. The user management include: group/ user. The group and user name can not be the same. Each user only belongs to one group.

2	1 - N	lain Menu->A	dvanced->A	ccount	
	3 1 2 3	User Name	Group admin user user	Status GUI Normal Default Use:	Modify User Modify Group Modify Password Add User Add Group Delete User Delete Group
		<u> </u>			Cancel

Pic 4.47 account management

[Modify User] Modify the existed user attribute.

[Modify Group] Modify the existed team attribute.

[Modify Password] Modify the user password. You can set 1-6 bit password. The blank ahead or behind the char string is invalid. The middle blank in the char string is valid.

Note: The user who possess the user control purview can modify his/her own or other users password

Main Ma	enu->Advanced->Account->Modify Pass 🔀
User Name	admin 🔽
Old (
New	
Confirm	
	OK Cancel

Pic 4.48 modify password

[Add user] Add a user in the group and set the user purview. Enter the menu interface and input the user name and password. Choose the team and choose whether cover using the user. Cover using means that the account can be used by multiple users at the same time.

Once choose the team the user purview is the subclass of the team.

We recommend that the common user's purview is lower than the advanced user.

Main Menu->Advanced->Account->Add User
User Name Keuseable Password Confirm Memo GROUP admin 53 Authority 1 Shutdown the device 2 Channel Title 3 Schedule 4 Backup 5 HDD Management 6 PTZ Control
OK Cancel

Pic 4.49 Add User

[Add Group] Add a user group and set the purview. There are 33 different purviews: shut down the

equipment, real time surveillance, playback, record setting, video backup and so on.

M	Iain Menu->Advanced->Account->Add Group
Name	
Memo	
53	Authority
1	Shutdown the device
2	🗹 Channel Title
3	Schedule
4	🗹 Backup
5	HDD Management
6	PTZ Control
7	Account
8	🗹 Query System Info
9	🖉 Query Log Info
10	Clear Log
	OK Cancel

Pic 4.50 add group

[Delete User] Delete the current user. Choose the user and click delete user button.

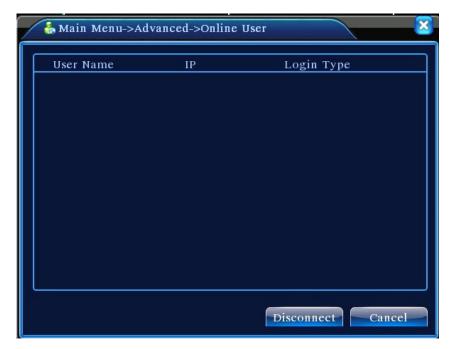
[Delete Group] Delete the current group. Choose the group and click delete group button.

Mai	in Menu->Advanced->Account->Delete Group
GROUP	user
Name	admin
Memo	administrator group
	Delete Cancel

Pic 4.51 Delete Group

3.5.3 Online user

To check the information of network user that connected with local device, also can tick the selected user to break up connection, (make $\sqrt{}$ at the box), then the user will be frozen after connection stopped, and will not log in until device reboot.



Pic 4.52 online user

3.5.4 TV adjust

Refer to chapter 3.5.7.

3.5.5 Auto Maintain

The user can set the time to auto reboot and auto delete file.

Main Menu->Advance	ed->AutoMaintain
Auto-Reboot System Every Thursday 🗸 at Auto-Delete Old Files	01:00
Never	OK Cancel

Picture 4.39 Auto maintain

3.5.6 Restore

The system restore to the default . You can choose the items according to the menu.

G Main Menu->Advanced->Restore
Please select setting entries that you want to default. Select all General Encode Record Config Alarm Set NetWork NetService GUI Display RS232 Account Image: Content of the second content of the s
 The Configuration of Channel Encoding/Channel title/Time title Regional Coverage/Video Color OK Cancel

Pic 4.54 restore to default

3.5.7 Upgrade

📤 Main Menu->.	Advanced->Upgrade		3
Upgrade Position	USB DISK	-	
Upgrade file	bootfont.bin		
	1	Upgrade Cancel	

Pic 4.55 Upgrade

[Upgrade] choose USB interface.

【Upgrade file】 choose the upgrade file.

3.5.8 Device Info

Provide device interface info like audio in, alarm in/out to be conveniently used for user.

Alarm In Channels 8 Alarm Out Channels 1 GUI Theme General • Remote control type General • Maximum Playback large 4 Default playback large	
GUI Theme General Remote control type General Maximum Playback large 4 Default playback large	8
Remote control type General Maximum Playback large 4 Default playback large	1
Maximum Playback large 4	General 🔻
Default playback large	General 🔻
	4
	0
Enable RS232 😼 Enable PTZ 😺	PTZ 🔽
Enable RS232 🔽 Enable	

Pic 4.56 device info

3.5.9 Import / Export

Users can export the log info and the configure file from device to connected flash stick, and also can import related configure file from flash stick to settings, which greatly bring convenience to the customers.

I Main Men	u->Advanced->Import/Export		8
Device Name		•	
LOG			
File Name	Log_1102_1857.zip		Export
Set			
File Name	Cfg_MBD6016E-E_1102.cfg		Export
File Name			Import
			Cancel

4.57 Import / Export interface

3.6 Info

Display the hard disk information, including HDD info, code stream statistic, log info, version info

3.6.1 HDD info

Display the hard disk state: hard disk type, overall capability, residual capability, the recording time and so on.

	1 2 3 4 0 0 0 0			
8-1	Туре	Capacity	Left Capacity	Status
All		639.96 GB	549.80 GB	
1-1	Read/Write	58.29 GB	0.00 MB	Normal
1-2	Read/Write	21.69 GB	0.00 MB	Normal
2-1*	Read/Write	79.99 GB	69.83 GB	Normal
3-1	Read/Write	79.99 GB	79.99 GB	Normal
4-1	Read/Write	79.99 GB	79.99 GB	Normal
5-1	Read/Write	79.99 GB	79.99 GB	Normal
6-1	Read/Write	79.99 GB	79.99 GB	Normal
7-1	Read/Write	79.99 GB	79.99 GB	Normal
8-1	Read/Write	79.99 GB	79.99 GB	Normal

Pic 4.58 HDD info

Tips: • means that the hard disk is normal. X means that the hard disk is broken-down.- means that there is no hard disk. If the user need to change the damaged hard disk, you must shut down the DVR and take up all the damaged hard disks, then install a new one.

* behind serial number means the current working disk such as 1*. If the corresponding disk is damaged, the information will show "? ".

3.6.2 BPS

Display the code stream (Kb/S) and hard disk capability (MB/H) in real time. It displays as the wave sketch map.

📢 Main	Menu->Inf	fo->BPS			×
Channel	кb/S	MB/H	Channel	Kb/S	MB/H
1	1054	441	9	1043	440
2	1054	441	10	1043	440
3	1054	442	11	1043	440
4	1043	440	12	1043	440
5	1043	440	13	1043	440
6	1043	440	14	1043	440
7	1043	440	15	1043	440
8	1043	440	16	1043	440
					Cancel
					Cancer

Pic 4.59 BPS

3.6.3 LOG

To search log information base on the set search mode.

Log information include: system operation, configuration operation, data management, alarm affair, recording operation, user management, file management and so on. Set the time section to look up and click the look up button. The log information will display as a list. (one page is 128 items) Press **Page up** or **Page down** button to look up and press **delete** button to clear all the log information.

	ain M	lenu-:	>Info->LOG		
Туре		All	-)	
Start	Time	2010	- 08 - 12	00 : 00 : 00	Search
End 7	lime	2010	- 08 - 13	00 : 00 : 00	Next Page
30	Log	Time		Туре	LOG
1	2010-	08-12	10:31:49	Reboot	2000- 0-00 00:00:(
2	2010-	08-12	10:31:49	Log In	User default Log
3	2010-	08-12	10:31:50	RecoverTime	2010-07-31 11:44:28
4	2010-	08-12	10:32:30	Log Out	User default Log
5	2010-	08-12	10:32:30	Log In	User admin LogI
6	2010-	08-12	10:32:38	Save Configuratio	Location
7	2010-	08-12	10:32:38	Save Configuratio	Regular
8	2010-	08-12	10:32:39	Shut Down	2010- 8-12 10:32:39
				Remo	ve Cancel

Pic: 4.60 Log information

3.6.4 Version

Display the basic information such as hardware information, software version, issue date, serial number, NAT status and so on.

🔍 Main Menu->	Info->Version		×
Record Channel	8		
Extra Channel	0		
Alarm In	8		
Alarm Output	<u>भ</u>		
System	V4.00.R10.00000002.1		
Build Date	2012-10-26 09:00:26		
MAC	260040620002		
SerialNo	28822101bdb62d13		
Status	209		
Nat status	Connecting		
Nat status code	1:202.130.112.247		
		0	K

Pic 4.61 version information

3.7 Shut down system

Refer to chapter 3.5.8.

Chapter 4: Cloud Technology Basic Operation

4.1 Cloud technology monitor

Cloud technology make the device one step on net, greatly bring convenience for customer to monitor via wide area network, this technology is using the serial no to visit device.

*Remark: the device that using cloud technology should be in the WAN(Wide Area

Network)firstly.

> Check the connecting status of cloud technology

Connect device to WAN firstly, then enter [Main menu] > [Info] > [Version] to check whether the device successfully connect to the cloud server or not.



Connect failed interface

successfully connect interface

Pic 5.1 cloud technology server connection status

4 FAQ and maintenance

4.1 FAQ

If the problems are not listed, please contact the local service or call the HQ service. We are willing to offer the service.

1. The DVR can not boot up normally.

Possible reasons are as followed:

- 1 The power supply is not correct.
- 2 Switch power supply line is not in good connection.
- 3 Switch power supply is damaged.
- 4 The program updating is wrong.
- 5 The hard disk is damaged or the hard disk lines are broken.
- 6 The front panel is damaged.
- 7 The main board of the DVR is damaged.

2. The DVR reboots automatically or stops working after boot up a few minutes.

Possible reasons are as followed:

- 1 The input voltage is not stable or too low.
- 2 The hard disk is damaged or the hard disk lines are broken.
- 3 The power of the switch power supply is low.
- 4 Frontal video signal is not stable.
- 5 Bad heat radiator or too much dust or bad running circumstance for the DVR.
- 6 The hardware of the DVR is damaged.

3. System can not detect hard disk.

Possible reasons are as followed:

- 1 The hard disk power supply line is not connected.
- 2 The cables of the hard disk are damaged.
- 3 The hard disk is damaged.
- 4 The SATA port of main board is damaged.

4. There are no video outputs in single channel, multiple channels and all channels.

- 1 The program is not matched. Please update the program.
- 2 The image brightness is all 0. Please restore the default setup.
- 3 There is no video input signal or the signal is too weak.
- 4 The channel protection or the screen protection is set.

5 The hardware of the DVR is damaged.

5. Real-time image problems such as the image color or the brightness distortion.

Possible reasons are as followed:

- 1 When using the BNC output, the option between the N mode or PAL mode is wrong and the image becomes black and white.
- 2 The DVR is not matched the monitor impedance.
- 3 The video transmission distance is too far or the loss of the video transmission line is too large.
- 4 The color and brightness setting of the DVR is wrong.

6. I can not find the video files in local playback mode.

Possible reasons are as followed:

- 1 The data line of the hard disk is damaged.
- 2 The hard disk is damaged.
- 3 Update the different program with the origin program files.
- 4 The video files to look up are covered.
- 5 The recording is not on.

7. The local video is not clear.

Possible reasons are as followed:

- 1 The image quality is too bad.
- 2 The reading program is wrong. Reboot up the DVR.
- 3 The data line of the hard disk is damaged.
- 4 The hard disk is damaged.
- 5 The hardware of the DVR is damaged.

8. There is no audio signal in the surveillance window.

- 1 It is not an active tone arm.
- 2 It is not an active sound box.
- 3 The audio lines are damaged.
- 4 The hardware of the DVR is damaged.
- 9. There is audio signal in the surveillance window but mo audio signal in the playback

state.

Possible reasons are as followed:

- 1 Setting issues: the audio option is not chosen.
- 2 The according channel is not connected with the video.

10. The time is wrong.

Possible reasons are as followed:

- 1 Setting is wrong..
- 2 The battery is in bad connection or the voltage is too low.
- 3 The oscillation is damaged.

11. The DVR can not control the PTZ.

Possible reasons are as followed:

- 1 There is something wrong with the frontal PTZ.
- 2 The setting, connection or the installation of the PTZ decoder is not correct.
- 3 The connections are not correct.
- 4 The PTZ setting of the DVR is not correct.
- 5 The protocols of the PTZ decoder and the DVR are not matched.
- 6 The address of the PTZ decoder and the DVR are not matched.
- 7 When multiple decoders are connected, the far port of the PTZ decoder line A(B) must connect a 120Ω resistance to reduce the reflection otherwise the PTZ control is not stable.
- 8 The distance is too far.

12. The motion detect is not working,

Possible reasons are as followed:

- 1 The time range set is not correct.
- 2 The motion detect area set is not correct.
- 3 The sensitivity is too low.
- 4 Limited by some hardware edition.

13. I can not login via web or CMS.

Possible reasons are as followed:

1 The system is windows 98 or win me. We recommend updating to windows 2000sp4 or

higher Version or installing the software for low edition.

- 2 ActiveX is hold back.
- 3 The version is not exceeded dx8.1. Update the display card driver.
- 4 Network connection failure.
- 5 Network setting issues.
- 6 Invalid password or user name.
- 7 The CMS is not matched the DVR program version.

14. The image is not clear or there is no image in network preview state or video file playback state.

Possible reasons are as followed:

- 1 Network is not stable.
- 2 The user machine is resource limited.
- 3 Choose the play-in-team mode in the network setup of DVR.
- 4 The region shelter or channel protection is set.
- 5 The user has no surveillance purview.
- 6 The real-time image of the hard disk recording machine itself is not clear.

15. Network connection is not stable.

Possible reasons are as followed:

- 1 Network is not stable.
- 2 IP address is conflicted.
- 3 MAC address is conflicted.
- 4 The net card of the DVR is bad.

16. There is something wrong with the USB backup or writing a CD.

- 1 The rewritable machine and the hard disk are shared the same data lines.
- 2 The data is too much. Please stop recording and backup.
- 3 The data exceeds the backup storage.
- 4 The backup equipment is not compatible.
- 5 The backup equipment is damaged.
- 17. The keyboard can not control the DVR.

Possible reasons are as followed:

- 1 The serial port of the DVR is not set correctly.
- 2 The address is not correct.
- 3 When multiple transformers are connected, the power supply is not large enough. Please give each transformer individual power supply.
- 4 The distance is too far.

18. Alarm can not be recessional.

Possible reasons are as followed:

- 1 The setting of the alarm is not correct.
- 2 The alarm output is turned on manually.
- 3 The input machine is damaged or the connections are not correct.
- 4 There are some problems for specific program edition, Please update the program.

19. Alarm is not working.

Possible reasons are as followed:

- 1 The setting of the alarm is not correct.
- 2 The connection of the alarm is not correct.
- 3 The alarm input signal is not correct.
- 4 A alarm is connected with two loops synchronously.

20. The remote controller is not working,

Possible reasons are as followed:

- 1 The remote control address is not correct.
- 2 The remote control distance is too far or the angle is too large.
- 3 The battery is used up.
- 4 The remote controller or the front panel of the recording machine is damaged.

21. The storage time is not enough.

- 1 Front vidicon quality is bad. The lens is too dirty. The vidicon is in backlighting installation.
- 2 The hard disk capability is not enough.
- 3 The hard disk is damaged.
- 22、 The downloading files can not play.

Possible reasons are as followed:

- 1 There is no media player.
- 2 There is no DX8.1 software or higher edition.
- 3 There is no DivX503Bundle.exe file to play AVI video files.
- 4 The DivX503Bundle.exe and ffdshow-2004 1012 .exe files must be installed in the windows xp system.

23. I can not remember the advanced password or network code in the local menu operation.

Please contact the local service or call the HQ service. We will offer the service according the machine type and the program edition.

24. Can not see the preview picture the digital channel

Possible reasons are as followed:

- 1 Did not add device
- 2 The device of related channel was not enable
- 3 The device of related channel was not selected.
- 4 The selected device did not connect to video sources
- 5 The channel title of selected remote device is not exist.
- 6 Stream for remote channel was set by extra stream.
- 7 User name & password not matched
- 8 directly input with IP address or port No. incorrectly when adding device.
- 9. The resolution of added device is too large to display by the monitor.

25. Click "search" why not search out any of the device.

Possible reasons are as followed:

- 1 There is no other device exist in the Local area network
- 2 The subnet mask setting incorrectly on Network settings.

26. The snapshot at alarm function was enable, why not catch picture

Possible reasons are as followed:

- 1 HDD manage without partition for snapshot.
- 2 Partition for snapshot is 0
- 3 The snapshot function is not enable on record-> storage of related channel.

27. The time shows on digital channel is not the same as local side:

Enable the time synchronous function of digital channel.

28、 Can not see preview picture of analog channel

Possible reasons are as followed:

- 1 The camera did not connect to video interface
- 2 The device did not connect to video source
- 3 Video source is broken.

29、Picture will be frozen when multi-connection and shift devices.

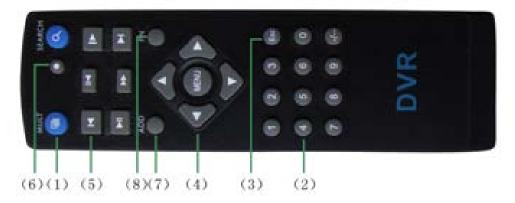
Picture come out from digital channel need few seconds, shift device means to show new picture, so it needs several seconds to buffer.

4.2 Maintenance

- 1 Please brush printed circuit boards, connectors, fans, machine box and so on regularly.
- 2 Please keep the grounding well done to prevent the video or audio signal interfered and the DVR from static or inductive electricity.
- 3 Do not pull out the video signal line or RS-232 port or RS-485 port with the power on.
- 4 Do not use the TV in the local video output port(VOUT) of DVR. It will damage the video output circuit easily.
- 5 Do not turn off the switch directly. Please use the turn-off function in the menu or press the turn-off button in the panel (3 seconds or longer) to protect the hard disk.
- 6 Please keep the DVR away from heat resource.
- 7 Please keep the DVR ventilated for better heat radiator.

Please check the system and maintain regularly.

Appendix 1.Remote controller operation



Serial	Name	Function
number		
1	Multi-window	Same function as Multi-window button in the front
	button	panel
2	Numeric button	Code input/number input/channel switch
3	【Esc】	Same function as 【Esc】 button in the front panel
4	Direction button	Same function as direction button in the front panel
5	Record control	Control the record
6	Record mode	Same function as "Record mode"
7	ADD	Input the number of DVR to control it
8	FN	Assistant function

Appendix 2. Mouse operation

*Take right hand as an exampl

е

The mouse in USB connection is supported.

Operation	Function	
	Double click one item in the file list to playback the	
	video	
Double left click	Double click the playback video to zoom in or out the	
	screen	
	Double click the channel to make it full screen display	
	double click again to resume the multi-window display	
Left click	Choose the according function in the menu	
Right click	Pop desktop shortcut menu in preview state	
	Current shortcut menu in the menu	
Press middle	Add or subtract number in the number setting	
button	Switch the items in the combo box	
	Page up or down in the list	
Move mouse	Choose the widget or move the item in the widget	
	Set the motion detect area	
Drag mouse	Set the cover area	

Appendix 3.Hard disk capability calculation

Make sure the hard disk installed to the DVR for the first time. Pay attention to the IDE hard disk lines connection.

1. Hard disk capability

There is no limit for recording machine. We recommend 120G~250G size to keep better stability.

2. Overall capability option

The hard disk capability formula is:

Overall capability (M) =channel number*time (hour) *capability in an hour (M/hour)

The recording time formula is:

Recording time (hour) = _____ overall capability (M)

Capability in an hour (M/hour) *channel number

The DVR introduces the H.264 compression technology. Its dynamic range is very large so the hard disk capability calculation is based on the estimation values of each channel creating files in an hour.

Example:

For one piece 500G HDD,real time CIF for recording, it will keep recording for about 25 days.HDD spaces per channel is 200M/H,if 4channels real time CIF at 24hours recording uninterrupted, it can last:500G/(200M/H*24H*4ch)=26 days



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