Hard Disk Video Recorder Installation Manual

Statement:

Thanks for purchasing from us.Please feel free to contact our service whenever you need help.

This manual is applicable for NVR products. Features and functions vary with different products, please refer to our physical commodity and the fast manual.

This manual is your reference for operations and encodings. Related functions, specific orders, detailed menu-tree as well as fast manual are included. Please read it before installation or use.

This manual might contain some technical or print errors. Any enhancement in product features shall be added into the manual consistently without further notice.

Safety Instruction

This manual is intended to ensure that user can use the product properly without danger or any property loss.Please read it carefully and take care of it for further reference.

Precaution measures are divided into "warnings" and "cautions", as below:

Warnings:Neglecting any of the warnings may cause death or serious injury.

Cautions:Neglecting any of the cautions may cause injury or equipment damage.



Warnings

1. Electrical safety regulations of the nation and the region must be strictly followed during installation or use.

2.Please use the matched power adapter from standard company.

3.Do not connect multiple DVRs with one single power adapter(Overload for adapter may lead to over-heat or fire hazard.

4.Shut down the power while connecting or dismounting the speed dome.Do not operate with power on.

5.Shut down the power and unplug the power cable immediately when there is smoke,odor or noise rising from the DVR.Then contact the dealer or service center.

6. Chease contact the local dealer or latest service center when DVR works abnormally. Do not problems caused by unauthorized repair or maintenance.

Cautions

1.Do not drop anything onto the dome, avoid it from physical strike. Keep it away from high electromagnetism radiation surroundings. Do not install it at vibration surface or places subjecting to

strike.(Ignorance can cause equipment damage)

2.Keep it away from rain and moisture

3.Avoid exposing to direct sunlight,poor-ventilation or heat source such as heater,radiator.(Ignorance can cause fire hazard)

4.To avoid physical damage, extreme environment such as lampblack, water vapour, too hot or dusty are not allowed.

5. Please use soft and dry choth to clean the shell.Use neutral cleaner instead of alkaline when the dirt is difficult to get rid of.

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1 Product Introduction

1.1 Product overview

The series NVR 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 unique space-time filtering algorithm 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 NVR 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

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 (including telephone) 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, cell phone to report

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 Open-package check and cable connections

2.1 Out of box audit

When you receive the product,

Materials used for the package of the NVR can protect most accidental clashes during transportation. Then, please open the box and get rid off the plastic protective materials. Check whether there is any visible damage to the NVR appearance.

At last, please open the machine crust and check the data wire in the front panel, power wire, the connection between the fan power and the main board.

1.Front panel and rear panel

- The key function specification in the front panel and the interface specification in the real panel are in the specification.
- Please check the product type in the front panel whether is accordant with the product type you order.

The label in the real panel is very important for the after service. Please protect it carefully. When you contact us for after service, please provide the product type and serial number in the label. 2.Check

After open the cover, you should check if it has obvious damage trace, also please check the front panel data cable, power cord and motherboard's connection are loose or not.

2.2 Hard disk installation

For the first use, please install the hard disk, this machine box can install two hard disk(no limited capacity).



①disassemble the screw



④fix the screw of hard disk



⑦cover the machine

2.3 Shelf installation



2 disassemble the cover



⑤connect the data wire



③fix the screw of hard disk



6 connect the power wire



8 fix the cover

This product chassis specification for the standard 1u,so it can be installed in the standard shelf. Installation steps and attention items:

1. Make sure the temperature in the room lower than 35° C (95°f).

- 2. Keep the equipment have 15cm(6 inches)space around in order to air's circulation.
- 3、From bottom to shelf installation.

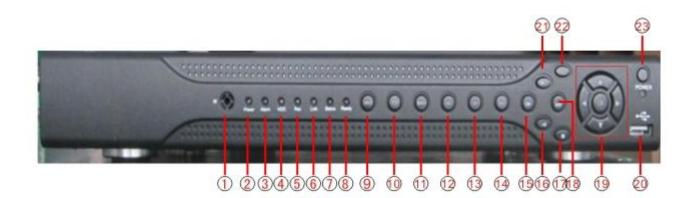
4. When multiple components install in the frame, please take preventive measures to avoid power socket overload.

2.4 Front panel

The front panel of economical equipment

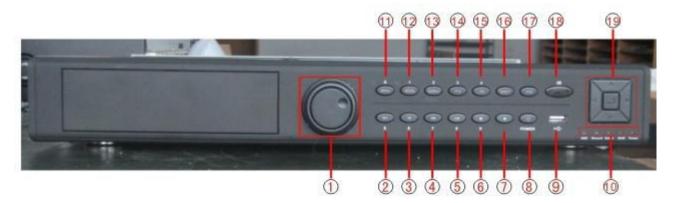
·····		0
	Ç	Power Rec Alarm MENU
		 1 2 3 4 5 6
(1) Dewen indicator light	(2) Deserved in disease without	(2) Alexes indicator light
(1) Power indicator light	(2) Record indicator light	(3)Alarm indicator light
(4) ESC	(5) Menu	(6)Direction &Enter

The front panel of standard equipment

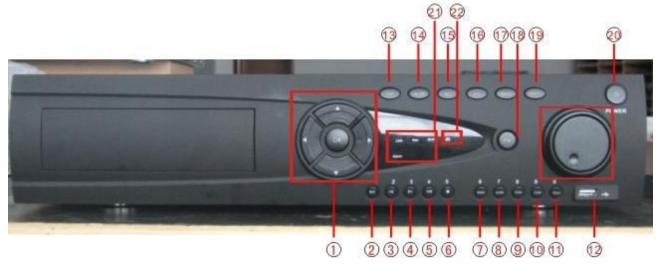


(1)	IR remote	(2)	Power indicator	(3)	Alarm indicator	(4)	Keyboard
	receiver		light		light		indicator light
(5)	Record indicator	(6)	Network indicator	(7)	Status indicator	(8)	Previous File
	light		light		light		
(9)	Return main	(10)	PTZ	(11)	Playback	(12)	Previous File
	menu						
(13)	Next file	(14)	Record	(15)	Slow Play	(16)	Playback pause
(17)	Fast Play	(18)	Play back Stop	(19)	Direction&Enter	(20)	USB
(21)	Stop Play	(22)	ESC	(23)	Power Switch		

The front panel of enhanced equipment



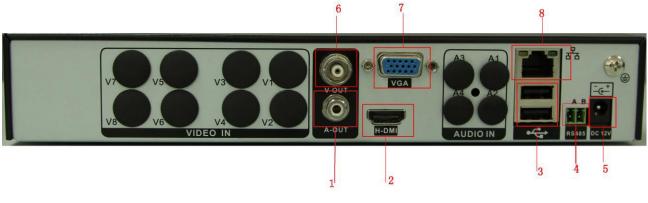
(1) Shuttle (2) Play Pause (3) Slow Play (4) Fast Play (5) Backwards Pause (6) Play back Stop (7) Record (8) Power switch (9)USB mouse (10) Indicator light (11)Main menu (12)Scene switch (13)Record check (14) PTZ (15)Assist (16) Shift (17)ESC (18) IR remote receiver (19)Direction **The front panel of high-end equipment**



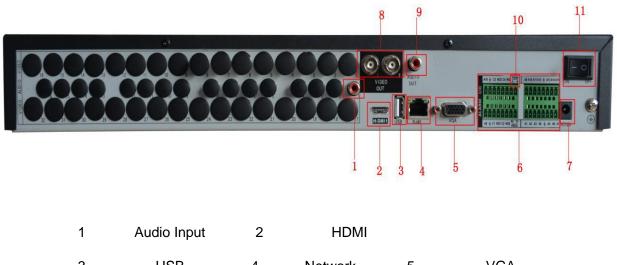
(1) Direction (2) Play Pause (3) Previous File (4) Next File (5) Backwards Pause (6) Play back
 Stop (7) Record check (8)Alarm output (9)Camera narrow (10) Camera zoom (11) Preset point set (12)USB (13)ESC (14) Scene switch (15)Record (16) PTZ (17)Menu (18)Assist (19)Shift (20) Power switch (21) Indicator light (22) IR remote receiver

2.5 Rear panel

The rear panel of economic and standard equipment

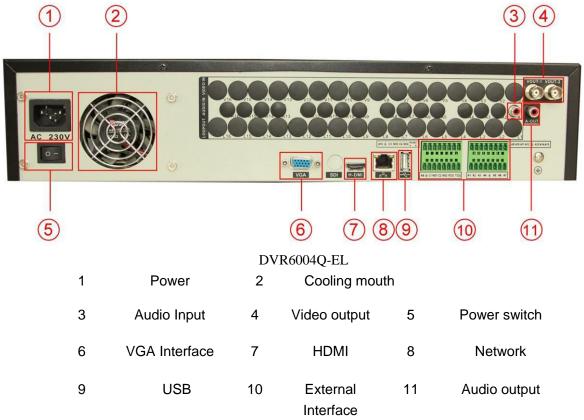


(1) Audio output (2)HDMI (3)USB (4)RS485 (5)Power (6)BNC (7)VGA (8)Network **The rear panel of enhanced equipment**



USB	4	Network	5	VGA
External	7	Power	8	BNC
Interface		Supply		
Audio Input	10	RS485	11	Power switch
	External Interface	External 7 Interface	External 7 Power Interface Supply	External 7 Power 8 Interface Supply

The rear panel of high-end equipment



2.6 Audio and video input and output connections

2.6.1 Video input connections

There is no video input connection.

Insure the vidicon signal stable and credible

The vidicon should be installed in the appropriate location where is away from backlighting and low illumination or adopts the better backlighting and low illumination compensation.

The ground and power supply of the vidicon and the DVR should be shared and stable.

2.6.2 Video output connections and options

The video output is divided into PAL/NTSC BNC($1.0V_{P-P}$,75 Ω) and VGA output(selective configuration).

When replace the monitor by the computer display, there are some issues to notice

- 1. Do not stay in the turn-on state for a long time.
- 2. Keep the computer display normal working by demagnetizing regularly.
- 3、Stay away from the electro magnetic Interference.

TV is not a credible replacement as a video output. It demands reducing the use time and control the power supply and the interference introduced by the nearby equipments strictly. The creepage of low quality TV can lead to the damage of other equipments.

2.6.3Audio signal input

Audio port is BNC connection.

The input impedance is high so the tone arm must be active.

The audio signal line should be firm and away from the electro magnetic Interference and connected credible which avoid false and joint welding and oxidation. The high voltage current should be avoided especially.

2.6.4Audio signal output

Commonly the output parameter of DVR audio signal is greater than 200mv 1K Ω (BNC) which can connect the low impedance earphone and active sound box or other audio output equipments through

power amplifier. If the sound box and the tone arm can not be isolated, howling phenomena is often existed. There are some methods to deal with the above phenomena.

- 1. Adopt better directional tone arm.
- 2. Adjust the sound box volume to be under the threshold that produces the howling phenomena.
- 3. Use fitment materials that absorb the sound to reduce reflection of the sound.
- 4. Adjust the layout of the sound box and the tone arm.

2.7 Alarm input and output connections

Before connecting the device, please pay attention to follow situations: *note: Some products have no alarm input/output functions.

1 .Alarm input

- A. Alarm input is grounding alarm input.
- B. Alarm input demand is the grounding voltage signal.
- C. When the alarm is connected with two DVRs or connected with DVR and other equipments, it should be isolated by relay.

2.Alarm output

Alarm output can not be connected with high-power load(no more than 1A). When forming the output loop it must prevent the big current from relay damage. Use the contact isolator when there is a high-power load

3.PTZ decoder connections

A. The grounding of the PTZ decoder and DVR must be shared otherwise the common-mode voltage will lead to the PTZ control failure. The shielded twisted pair is recommended.

B. Avoid the entrance of high voltage. Make the layout reasonably. Take precaution from the thunder.

C. In the outlying end connect 120Ω resistance paralleled to reduce the inflection and insure the signal quality.

D. The 485 AB lines of DVR can not connected with other 485 output equipments paralleled.

E. The voltage between the AB lines of the decoder must be less than 5V.

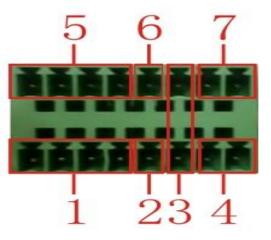
4. Front equipment grounding note

Bad grounding can lead to the burnout of the chip.

5.Alarm input type unlimited

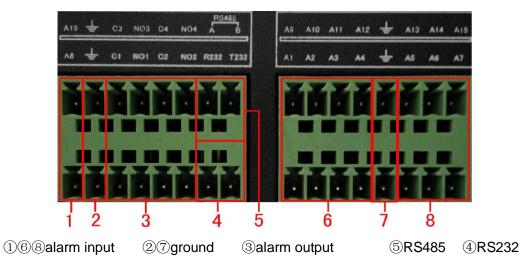
The NVR alarm output port is constant opening type.

eight external alarm interface



(1) alarm input 1,2,3,4
(2) ground
(3) RS232
(4) RS485
(5) alarm input 5,6,7,8
(6) ground
(7) alarm output

sixteen external alarm interface



Parameter	meaning				
G	grounding				
R,T	RS232 port				
А,В	485communciate interface which is connected with the recording control equipments such as the decoder				

2.7.1 Alarm input port specification

8 channels alarm input. Alarm input type unlimited.

The grounding and the com port of the alarm sensor are parallel (The alarm sensor is external power supply).

The grounding of the alarm and the DVR should be shared.

The NC port of the alarm sensor must be connected with the DVR alarm input port.

The grounding of the power supply and the alarm sensor must be shared when used in external power supply.

2.7.2 Alarm output port specification

2 channels alarm output. There is external power supply when using the external alarm equipment.

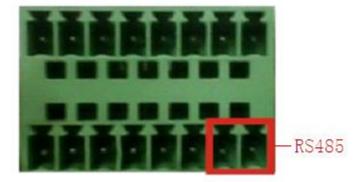
Please refer to the relay relevant parameters to avoid the overload that damages main machine.

2.7.3 Alarm output port relay parameters

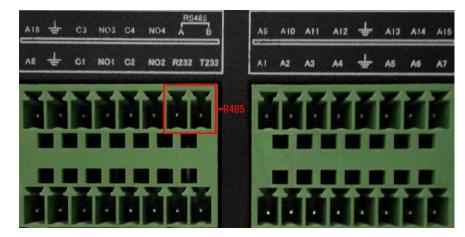
Type: JRC-27F				
Interface material	silver			
rating	Rating switch capacity	30VDC 2A, 125VAC 1A		
(resistance load)	maximal switch power	125VA 160W		
	maximal switch voltage	250VAC, 220VDC		
	maximal switch current	1A		
isolation	Homo-polarity interface	1000VAC 1minute		
	Inhomo-polarity	1000VAC 1 minute		
	Interface and winding	1000VAC 1 minute		
Surge voltage	Homo-polarity interface	1500VAC (10×160us)		
Turn-on time	3ms	max		
Turn-off time	3ms max			
longevity	mechanical	50×106 MIN (3Hz)		
	electric	200×103 MIN (0.5Hz)		
Environment	-40∼+70 °C			

2.8 Device attachment

1.Connect the 485 lines of the speed dome with the DVR 485 interface.



the 485 interface of eight external alarm



the 485 interface of sixteen external alarm

- 2.Connect the video line with the DVR video input.
- 3. Electrify the speed dome

3 Basic operation

Note: The button in gray display indicates nonsupport.

3.1 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.

3.2 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.

3.3 System Login

When the NVR boots up, the user must login and the system provides the corresponding functions with the user purview. There are two user settings. The names are **admin**, and **default** and these names have no password. **Admin** is the super user purview; **default**'s permissions are preview and video playback. User **admin**'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 five 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.

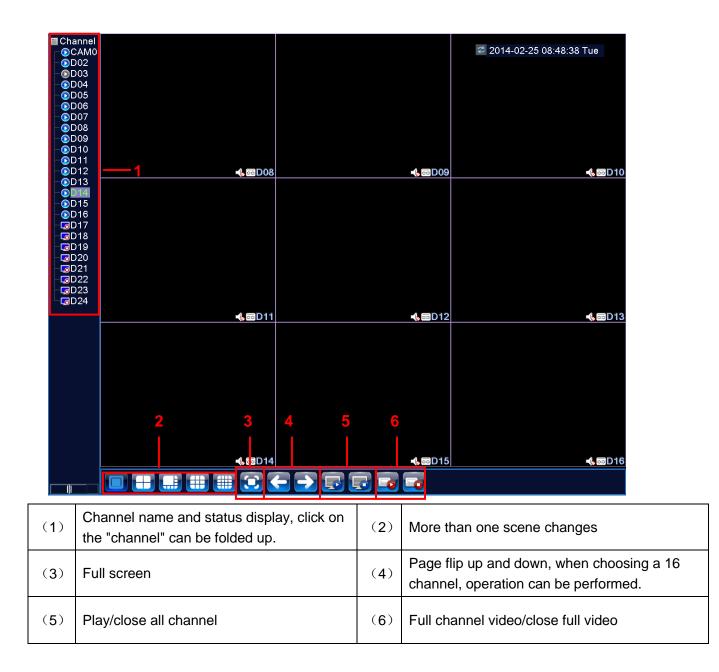
3.4 Preview

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.

1	00	Recording status	3	?	Video loss
2	<mark>∿</mark> "	Motion detect	4	₽	Camera lock

Table 3.1 Preview icon



3.5 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





3.5.1 Main menu

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

🖬 Main Menu		× × × × × × × × × × × × × × × × × × ×
Record	Alarm	System
Advanced	Info	Logout
System Config.		Cancel

Picture3.4 Main Menu

3.5.2 Boot wizard

For configuring the parameters provides quick setup wizard as shown in figure 3.5. It includes boot wizard and digital channel configuration wizard, click next to enter the digital channel configuration wizard.

Boot wizard:



Picture3.5 Boot wizard

【Cloud services enable】: reverse display **■**choose, means enabling cloud services.

【No longer prompt】: reverse display ■choose, means after reboot, no longer automatically pop up on the wizard.

[Next] : Enter into the digital channel configuration wizard interface.

[Cancel] : Save the Settings and exit the wizard interface.

Digital channel configuration wizard:

Click on the next step in figure 3.5, the pop-up digital channel configuration wizard, as shown in figure 3.6 can be set up in fast digital channel.

Note: use this feature, all configuration parameters in digital channel will be updated, please be careful to the configuration which are not for the first time digital channels.

P	' channel config	wizard		
137	Device Name	Device Info.	. IP Address	Fort
132	ONVIE	IPC	10.10.32.21	9 8080
133	ONVIE	HIKVISION	10.10.32.73	3 89
134	ONVIE	Dahua	10.10.48.24	1 80
135	ONVIE		10.10.48.13	35 8989
136	ONVIE	TS4001	10.10.48.23	3 80
137	ONVIE	T S4 001	10.10.48.22	7 8001
		l I		
Proto	col All	• Sear <mark>3</mark> h	Add Quick	set
24	🗌 Configur. nar	ne Device Type	IP Address IP C	hannel Con
	chConfig02	IPC	10.10.48.233	1
	🔲 chConfig02	IPC	10.10.48.2	1
3	🔲 chConfig01	IPC	10.10.48.240	1 1
4	🔲 chConfig01	IPC	10.10.48.22	1
5	🔲 chConfig02	PC IPC	10.10.48.2	1
6	🔲 chConfig01	IPC	10.10.48.240	1
Del	lete Clear	Set	2 —	
	4 —	Application Pro	ovious OK	Exit

Piture3.6 Digital channel configuration wizard 21/91

Label meaning:

(1) The list of equipment area

The area displays the search equipment. Click on the selected box, the show of said the equipment is selected, and then double-click the device, the pop-up channel Settings interface, as shown in figure 3.7 for the devices for remote access Settings, user name and password; Click the network Settings button, the selected equipment for network Settings, including IP, subnet mask, default gateway.

nel config wizar	d->Channel	1:01
10.10.48.233		
	Protocol	ONVIF -
admin	Password	••••
	Network	OK Cancel
	10.10.48.233 1	1 Protocol admin Password

Picture3. 7 Channel Settings interface

②Equipment list

Optional equipment list, which include three kinds of display mode, respectively are showing the selected, the display for the selected, and showing of all.

③ Rest not selected channel number display area

The remaining not choose channel number is shown here.

④ The position of device button

Click on the equipment list, click on the up and down button, can move the equipment up and down.

3.5.2 Record Control

Please check current channel status: "●" 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.

Recor	d M	ode)																											×
	All																													
Schedule	0	•	۰	۰	•	\bullet	•	•	•	•	•	•	•	۰	۰	۰	۰	0	\bullet	•	0	۰	0	۰	۰					
Manual	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Stop	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
																								1		OK		Са	nce	

Picture 3.6 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.

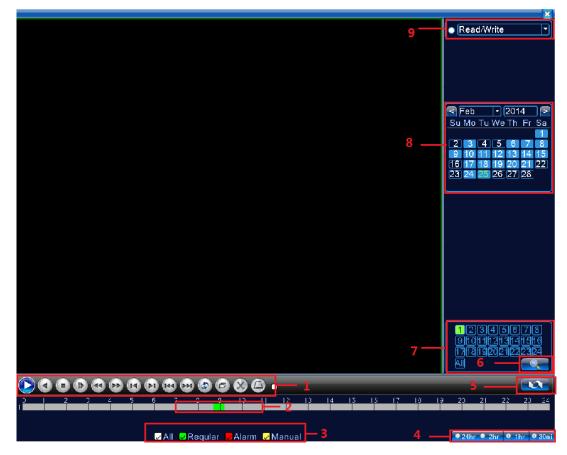
[Stop] Click the stop button and the according channel stops recording no matter the channel in any state.

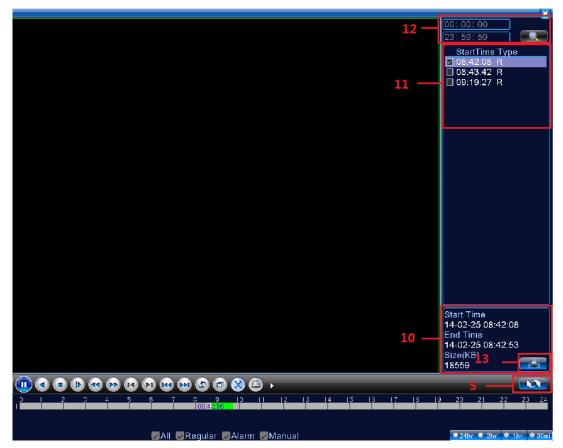
3.5.3 Playback

There are two methods for you to play the video files in the hard disk.

- 1. In the desktop shortcut menu.
- 2、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. Diouthack control	2 Time display		4. Time schedule	
1. Playback control	2. Time display	3. Video type	options	
5. Switch by	6.File search	7.Selected by	8.Selected by time	
time/file/mode	U.I lie Search	channel		
9. search by storage	10. Files information	11. Listed files	12 accreb by time	
location	TO.T lies information	TT. LISTED MES	12.search by time	
13.File backup				

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

[File Attributes] Look up the found file information.

[Playback control] See detail in below chart

Button	Function	Button	Function
	D/ U Play/Pause		Backward play
٩	Slow play		Fast Forward

	Previous frame	K	Next frame
3	Round play	Ð	Full screen
0	Stop	8	Begin/end to edit
۵	backup		

Picture 3.2Table 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".

3.5.5 Alarm output

Please check current channel status: "o" 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.



Picture 3.10 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.

3.5.6 PTZ control

*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 3.8 PTZ setup

[Speed] Set the PTZ rotation range. Default range: 1 ~ 8.

[Zoom] Click / + button to adjust the zoom multiple of the camera.

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

[Iris] Click / + 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.

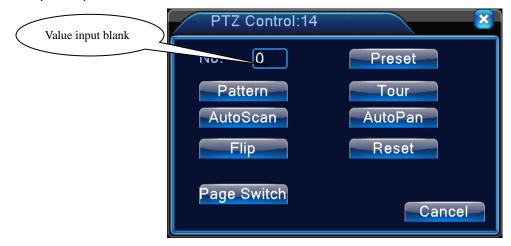
Clear Preset: Input preset points, click Remove button, remove the preset.

	PTZ Co	nfig	×
Preset button	Function Preset Tour Pattern Border	Preset 0 Interval 3 Patrol No.0 Set Del Preset	Preset point input blank

Picture 3.12 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.



Picture 3.13 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,

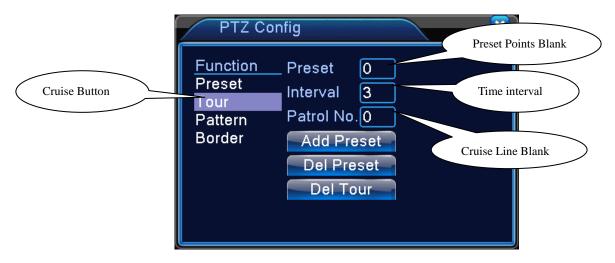
then click Add Preset Points button, complete setting (also can add and delete cruise line which has

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 3.14 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:

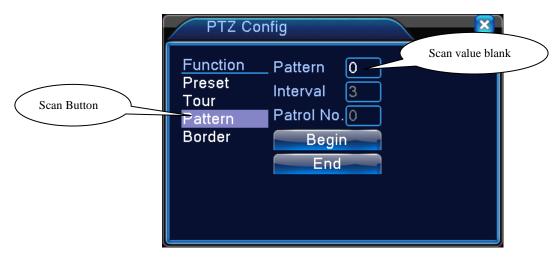
Step1: In Picture 3.10, click Setup button , enter Picture 3.14;

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 3.15 Scan Setup 29 / 91

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.

	PTZ Co	nfig		
Line scan button border	Function Preset Tour Pattern Border	Pattern Interval Patrol No Lefi Righ	Left/Right scan setting button	>

Picture 3.16 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.

X

Picture 3.17 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

3.5.7 Color setting

*Color config:analog channel can config its own color,digital channel can config front-end image(only NETIP-conformed device is supported,ONVIF-conformed device is not supported)

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 Setting:0	1	
Period 🔍	00:00 - 24:00	□ [19:00 - 07:00]
Brightness	50	5 0
Contrast	 50	_ 50
Saturation	50	_ 50
Hue	 50	_ 50
Gain	 0	0
Horizon Sharpness	8 8	8
Vertical Sharpness	 15	0 15
	Advanc	ed OK Cancel

Picture 3.18 Color Setting

3.5.8 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	8
Top Deflate	•
Bottom Deflate	 0
Left Deflate	0
Right Deflate	0
Display Settings	VGA/HDMI 🔽
Brightness	44
Contrast	43
Saturation	50
Hue	5 0
Advanced	OK Cancel

Picture 3.15Output Adjust

3.5.9 Logout

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



Picture 3.16Logout/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.

3.5.10Full screen(exit full screen)

Can choose full screen and not full screen according to demand

4 Main menu

4.1 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	backup	Detect backup device, format device, back the selective files
	Motion	Set motion detect alarm channel, sensitivity, area, linkage parameters:
	detection	defending time section, alarm output, screen hint, recording, screen
		shot, PTZ, patrol, buzz, email , PMS and FTP upload

Video blind Set camera mask alarm channel, sensitivity, linkage parameters: defending time section, alarm output, screen hint, recording, screen shot, PTZ, patrol, buzz, email , PMS and FTP upload Video loss Set video loss alarm channel, linkage parameters: defending time section, alarm output, screen hint, recording, screen shot , PTZ, patrol, buzz, email , PMS and FTP upload Alarm Set alarm input channel, equipment type, linkage parameters: defending time section, alarm output, screen hint, recording, screen shot, PTZ, patrol, buzz, email - PMS and FTP upload Alarm Set alarm input channel, equipment type, linkage parameters: defending time section, alarm output, screen hint, recording, screen shot, PTZ, patrol, buzz, email - PMS and FTP upload Alarm Set alarm mode: configuration, manual, shut down Note: T series have no this function Alarm output Set alarm mode: configuration, manual, shut down 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 mode. and setting linkage parameters.period. alarm output, the screen prompt. record. PTZ. tour. buzzer. EMAIL, FTP upload. Note: 6000 series support this function General configuration Set system time, data format, language, hard disk full time operation, configuration Network Set basic network parameters, DHCP and DNS parameters, network configuration <tr< th=""><th>Г</th><th>Γ</th><th>1</th></tr<>	Г	Γ	1				
Video section, alarm output, screen hint, recording, screen shot, PTZ, patrol, buzz, email , PMS and FTP upload Alarm Set alarm input channel, equipment type, linkage parameters: defending time section, alarm output, screen hint, recording, screen shot, PTZ, patrol, buzz, email , PMS and FTP upload Alarm Set alarm input channel, equipment type, linkage parameters: defending time section, alarm output, screen hint, recording, screen shot, PTZ, patrol, buzz, email , PMS and FTP upload Alarm Note: T series have no this function Alarm output 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 mode. and setting linkage parameters:period, alarm output, the screen intelligent set set algorithm rule: trajectory display. sensitivity. minimum pixel, alert mode. and setting linkage parameters:period, alarm output, the screen 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 Ketwork Set basic network parameters, DHCP and DNS parameters, network configuration			defending time section, alarm output, screen hint, recording, screen				
Alarm defending time section, alarm output, screen hint, recording, screen shot, PTZ, patrol, buzz, email , PMS and FTP upload Note: T series have no this function Alarm Alarm output Set alarm mode: configuration, manual, shut down 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 mode, and setting linkage parameters:period, alarm output, the screen 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 Network Set basic network parameters, DHCP and DNS parameters, network configuration Network Set basic network parameters, preview icon of the status, transparency, and VGA (HDMI) resolution is preferred PPPOE, NTP, Email, IP purview, DDNS parameter, PMS Output mode Set serial port function, baud rate, date bit, stop bit, check Note: Full digital mode shows : RS485 Device Serial port Configuration Set serial port function, baud rate, date bit, stop bit, check Note; T series have no this function			section, alarm output, screen hint, recording, screen shot, PTZ, patrol,				
Alarm Set alarm mode: configuration, manual, shut down Alarm output Set alarm mode: configuration, manual, shut down Note: T series have no this function 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. Intelligent Set algorithm rule: trajectory display, sensitivity, minimum pixel, alert Intelligent mode, and setting linkage parameters:period, alarm output, the screen 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 Network Set basic network parameters, DHCP and DNS parameters, network configuration high speed download Net Service PPPOE, NTP, Email, IP purview, DDNS parameter, PMS Output mode Set the channel names, preview icon of the status, transparency, and VGA (HDMI) resolution is preferred System Set serial port function, baud rate, date bit, stop bit, check Device Note: Full digital mode shows : RS485 Device Serial port <td< td=""><td></td><td>defending time section, alarm output, screen hint, recording, screen</td></td<>			defending time section, alarm output, screen hint, recording, screen				
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Serial port Set serial port function, baud rate, date bit, stop bit, check Configuration Note: T series have no this function	configuration	RS485	Set serial port function, baud rate, date bit, stop bit, check				
Set serial port function, baud rate, date bit, stop bit, checkConfigurationNote: T series have no this function		Device	Note: Full digital mode shows : RS485 Device				
Configuration Note: T series have no this function		Serial port	Set serial port function, haud rate, date hit, stop hit, check				
		Configuration					
		(RS232)					

	Tour	Set patrol mode and interval time				
	Channel	Set the channel mode, check channel status, and set the parameter of digital channels				
	management	digital channels				
	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	Madifusion toom or recovered. Add soor or toom. Delete soor or toom				
	management	Modify user, team or password. Add user or team. Delete user or tear				
		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					
tools	maintenance	Set automatic reboot system and automatic deleting files.				
	maintenance					
		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				
	BPS	Display code stream information				
System	Log					
information	information	Clear all log information according to the log video and time				
	Edition					
	information	Display edition information				
		25 / 01				

4.2 Record

Operations related to record, including: Record, Playback, Backup, Screen shot(only Hybrid

mode and full analog have)

4.2.1 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)
--	--------------------------

Reco	rd->Record Conf.				
Channel 1 - Redundancy C Length 60 min					
Mode Schedule O Manual O Stop					
Week	Tue -	Regular	Detect	Alarm	
Period 1	00:00 - 24:00	Image: Second	\checkmark		
Period 2	00:00 - 24:00	0	0	0	
Period 3	00:00 - 24:00	0	0	0	
Period 4	00:00 - 24:00	0	0	0	
	Ad	vanced	OK	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".

Detection: 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.

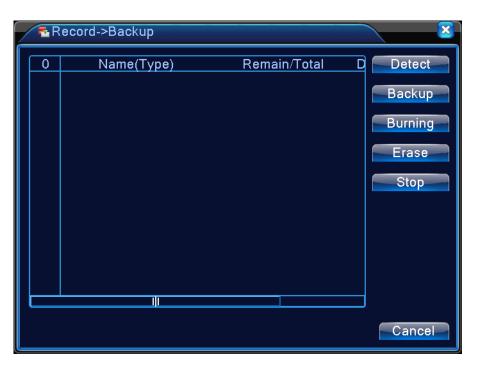
4.2.1Playback

Refer to chapter 3.5.2.

4.2.2 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 Channel	All Read/Write		
Start Time	🧕 2014 - 02- 25 00: 00: 00	Remove	
End Time	國 2012-02-25 11:02:09	Add	
0 Chanı	nel File Name	Length	
	11		
Required/Remaining:0.00 KB/3.72 GB			
	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.

4.3 Alarm Function

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

abnormality, intelligent analysis.

4.3.1 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.

🐔 Alarm->Motic	on Detect
Channel	1 🔹 Enable
Period	Set Interval 1 Sec.
Alarm Output	1 Delay 10 Sec.
Record Channel	1234567891011213141314
	08922222
Tour	
	1718192021222324
PTZ Activation	Set Record delay 10 Sec.
Show Message	U Send Email U
Buzzer	U FTP upload U
Mobile reported	U
	Advanced OK Cancel

Pic 4.4 Motion Detect

[Channel] Choose the set motion detect channel.

[Enable] means that the motion detect function is on.

[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.

Set
Tuesday \checkmark $00:00 - 24:00$ $00:00 - 24:00$ $00:00 - 24:00$ $00:00 - 24:00$ $0 - 3 - 6 - 9 - 12 - 15 - 18 - 21 - 24$ Sun Sun Mon Mon Tue Mon Sat Mon
OK Cancel

Picture 4.5 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 Act	ivation				
Channel1 Channel3		- 0 - 0	Channel2 Channel4	None None	
Channel5 Channel7	None	- 0 - 0	Channel6 Channel8	None None	
Channel9	None	• 0	Channel10	None	
Channel11 Channel13		• 0 • 0	Channel12 Channel14		▼ 0 ▼ 0
Channel15 Channel17		• 0 • 0	Channel16 Channel18		▼ 0 ▼ 0
Channel19 Channel21		- 0 - 0	Channel20 Channel22		
Channel23		- 0	Channel24		
				OK	Cancel

Picture 4.6 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.

4.3.2 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.

⊘Alarm->Video	b Blind
Channel	1 Enable 🗸
Period	Set
Alarm Output	1 Delay 10 Sec.
Record Channel	123456789f0f1f2f3f4f8f8 f7f8f92021222324
Tour	123456789000000000000000000000000000000000000
PTZ Activation	Set Record delay 10 Sec.
Show Message	Send Email
Buzzer	FTP upload
Mobile reported	0
	Advanced OK Cancel

Pic 4.7 Video blind

Set method: refer to chapter 4.3.1. Motion detect

4.3.3 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.

I Alarm->Video	o Loss
Channel	1 Enable 🗸
Period	Set
Alarm Output	1 Delay 10 Sec.
Record Channel	1234567891011213141316
	1718192021222324
Tour	1234567890000000000
	1718192021222324
PTZ Activation	Set Record delay 10 Sec.
Show Message	Send Email
Buzzer	FTP upload
Mobile reported	U
	Advanced OK Cancel

Pic 4.8 Video loss

Set method: refer to chapter 4.3.1. Motion detect

4.3.4 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

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

Alarm->Alarm	i Input
Alarm In	1 Tenable 🔽
Туре	Normal Oŗ ▼
Period	Set Interval 1 Sec.
Alarm Output	1 Delay 10 Sec.
Record Channel	1234567891011213141314
	17181922122224
Tour	
PTZ Activation	Set Record delay 10 Sec.
Show Message	Send Email
Buzzer	FTP upload
Mobile reported	0
	Advanced OK Cancel

Pic 4.9Alarm input

Set method: refer to chapter 4.3.1. Motion detect

4.3.5 Alarm output

Refer to chapter 3.5.4.

4.3.6 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.

🖪 Alarm->Abr	ormality 🛛 😵
Event Type Enable	No Storage ▼ ✓
Show Message Buzzer	
	OK Cancel

Picture 4.10 Abnormal



selecting abnormity you want to inspect, No Storage, Storage

Error, Storage No Space, Net Disconnection and 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

4.4 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。

X System->General			
Time Zone	[UTC+08:00]Beijing,Urumqi,Si		
System Time	2014 - 02 - 25 09: 43: 27		
Date Format			
Date Separator			
Time Format	24-HOUR 🔽		
Language			
Storage Full	Overwrite 🔽		
DVR No.	0		
Video Standard	PAL		
Auto Logout	0 min		
Machine Name	LocalHost		
	OK Cancel		

Picture 4.11 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-Chinese, S-Chinese, Turkish, Brazilian, Bulgarian, Farsi, French, German, Hebrew, Hungarian, Polish, Roman ian, Spanish, 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.

DST	X
✓ Enable	
Day of Week O Date	
Start: Jan 🔻 1st 🔻 Mon 🔻 01	: 01
End: Jan 🔻 1st 🔽 Mon 🔻 01	: 01
	OK Cancel

Picture 4.12 DST (week)

DS	Т	3
🔽 Ena	ble	
O Day	/ of Week 🌑 Date	
Start:	2014 - 01- 01 01: 01	
End:	2014 - 01- 01 01: 01	
	OKCancel	

Picture 4.13 DST (date)

4.4.2 Network setup

System->Network			
Net Card	Wire Netcar(-) DHCP Enable		
IP Address	10 . 10 . 48 . 167		
Subnet Mask	255 . 255 . 240 . 0		
Gateway	10 . 10 . 48 . 1		
Primary DNS	192 . 168 . 1 . 1		
Secondary DNS	8 . 8 . 8 . 8		
Media Port	34567		
HTTP Port	80		
HS Download	<u>0</u>		
Transfer Policy	Quality Prefe		
	OK Cancel		

Picture4.14 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.

4.4.3 Net Service

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.

System->NetSer	vice
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: www.dnsdvr.cn:15000
AlarmServer	0:
Wireless Config	Not enabled
Mobile Monitor	1: 34599
UPNP	0
Wifi	Not enabled
RTSP	1: 554
Cloud	Probing DNS
PMS	0: push.umeye.cn: 80
Net Server PPPoE NTP EMAIL IP FILTER DDNS FTP ARSP AlarmServer Wireless Config Mobile Monitor UPNP Wifi RTSP Cloud PMS	Set OK Cancel

Picture 4.15 NetService

[PPPoE setup]

PPPoE	
Enable	✓
User Name	name
Password	•••••
IP Address	0.0.0.0
	OK Cancel

Picture4.16 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	
--------------	-------	--

NTP	
Enable	✓
Server IP	NTP
Port	123
Update Period	10 min
	OKCancel

Picture 4.17 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 timeGMT-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.

EMAIL	×
Enable	✓
SMTP Server	Your SMTP Server
Port	25
Need SSL	
User Name	name
Password	••••••
Sender	xxx@XXX.com
Receiver	xxx@XXX.com;
Title	Alarm Message
Δ	Aail Testing OK Cancel

Picture 4.18 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.

IP FILTER
Enable Restricted Type Blacklist 🔽
0 . 0 . 0 . 0 Add
0 Banned IP
Delete OK Cancel

Picture 4.19 IP FILTER

[DDNS]

DDNS		×
DDNS Type	CN99 -	
Enable	0	
Domain Name	your.3322.org	
User Name		
Password		
	OKCancel	

Picture 4.20 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.

FTP			
Enable	✓		
Server IP	FTP)
Port	21)	
User Name	admin)	
Password	•••••	🗍 🗖 Anonymou	s
Max File Le	ngth 128	MB	
DirName)
		ОК	Cancel

Picture 4.21 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		× ×
Туре	DNS 🔻)
Enable	Image: A start of the start	
Server IP	www.dnsdvr.cr	ו
Port	15000)
User Name	None)
Password)
Update Period	1	min
		OK Cancel

Picture 4.22 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.

AlarmServe	er 🛛 🔀
Protocol Type	GENERAL 🔽
Enable	0
Server Name	AlarmServer
Port	15002
Alarm report	
Log report	0
	OK Cancel

Pic: 4.23 alarm server setting

[Protocol type] GENERAL

[Enable] To tick it means enable.

[Server Name] 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

Wireless	Config
Enable Type	
Wireless AP	ChinaNet
Dial Number	#777
User Name	ctnet@mycdm
Password	
IP Address	0.0.0.0
	OKCancel

Picture 4.24 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.

[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.

UPNP
Enable HTTP Port 0 TCP Port 0 Mobile Port 0 Make sure UPNP is running on router ,before using this
OK Cancel

Picture 4.26 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	8
SSID	Authentication Signal
	Search
Enable 🔽 DF	ICP Enable
SSID	AP350
Password	
IP Address	192 . 168 . 1 . 12
Subnet Mask	255 . 255 . 255 . 0
Gateway	192 . 168 . 1 . 1
	OK Cancel

Pic 4.27 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.

RTSP	×
Enable Port 554	
	OK Cancel

Pic 4.28RTSP setting

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

[Port]: the default port is 554

[CLOUD]

Check the cloud services, male cloud service is enabled, the user can visit http://www.xmeye.net

Cloud
Enable MTU 1280 Byte OK Cancel
OK Cancel

[Enable] Select it to make sure abnormal function workable

[PMS]

Enable this function, at the same time open the function in the mobile end, exit the application, when the alarm occurs, check the cell phone to report, will send information to cell phones.

PMS	8
Enable	
Server Name	push.umeye.cn
Port	80
BoxID	
Maximum sub	scriptions 500, 0 has been used Remove
	OK

[Enable] Select it to make sure abnormal function workable

[Server Name] default: push.umeye.cn

[Port] Equipment set the default port is 80

4.4.4 Output mode

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)

System->G	UI Display 🛛 🔀
Channel Title Time Display	Set Channel Title V Alarm Status V V
	OK Cancel

Pic 4.31 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.

4.4.5 Serial port settings

System	m->RS232	<u> </u>
Function	NONE	7
Baudrate	115200	
Data Bits	8	-
Stop Bits	1	•
Parity	None	-
		OK Cancel
		OK

Pic 4.33 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.

4.4.6 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.

System->Tour	
Enable Tour	
Interval	5Sec.
View 1	1 2 3 4 5 6 7 8 9 10111213141516
	1718192021222324
View 4	1 2 3 4 5 6
View 8	1 2 3 4 5 6 7 8 9 10111213141516
	1718192021222324
View 9	123
View 16	12
Alarm Tour Type	
Interval	5 Sec.
Return after finished	
	OK Cancel

Pic 4.34 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 🖾 / 🖾 can turn on / off tour (🖾 mean turn on,

mean turn off.

4.4.7 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):

🗣 System->Digital		
Digital channels	Channel status	ChannelType
 Set the number 	of channel parameters.	Cancel

Channel manage page under Hybrid(HVR) mode / full digital(NVR) mode Pic 4.35 channel manage interface

Digital channel	1:	
	Digital channels	
	Channel 1 Enable Time Sync Off Decode Order Middle Connection mode Single conne Network Configuration list	
	2 Configur. name Device Type IP Address IP Channel 1 □ chConfig01 IPC 10.10.48.240 1 2 ☑ chConfig02 IPC 10.10.48.233 1	
	Add Delete Advanced OK Cancel	

Single link page of digital channel

 Digital channels 						
Channel	1 ▼ En Dff ▼ De Multi-link ▼ Po on list ne Device Type 11 IPC	C 10.10.48.240 1				
Add Delete						
	Adva	anced OK	Cancel			

Multi-linkage page of Digital channel

Pic 4.36 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

Remote acc	ess configuration
Configur. name	chConfig03
Device Type	IPC Protocol NETIP
IP Channel	1
Device address	192.168.1.20
Port	34567
Username	admin Password
0 Device N	lame Device Info. IP Address Port
Protoc	col All Search OK Cancel

Pic 4.37 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.

R	emote acce	ess cor	nfiguratio	n			
Confi	gur. name	chCor	nfig03				
Devid	- се Туре	IPC		Protocol	NETIP	-	
IP Ch	annel	1		j			
Devic	e address	192.1	68.1.20		Network		
Port		34567	7)			
Userr	name	admin		Password			
145	Device N	000	Davi	ice Info.	IP Addr	000	Pd⊟
1	LocalHo			00:04:6b:fe	10.10.32		34
2	LocalHo	ost	00:77:7	5:08:22:93	192.168.1	1.184	34!
3			00:12:0	00:00:96:ff	10.10.4	8.18	34!
4	LocalHo	ost	00:10:0	0:07:10:dc	10.10.48	5.166	34!
5	LocalHost	2233	22:c5:a	4:bb:21:77	10.10.48	3.139	34:
6	LocalHo	ost	00:12:1	5:01:2c:44	10.10.4	9.90	34!
	Protoc	ol All		 Searc 	h OK	C	ancel

Pic 4.38 the device list searched under remote channel setting

Network		
IP Address Subnet Mask Gateway Auto	10.10.48.18	
Subnet Mask	255.255.240.0	
Gateway	10.10.48.1	
Auto	o assigned OK	Cancel

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.

For example: The channel status for 16+8 mode is as below:

Channe	l status		
Channel	Stream	Mainstream/Sub-Stream	Connection Sta
D01	1080P	720P/VGA	Connected
D02	1080P	1080P/CIF	Connected
D03	1080P	720P/CIF	Connected
D04	1080P	1080P/D1	Connected
D05	1080P	1080P/CIF	Connected 🗮
D06	1080P	720P/CIF	Connected
D07	1080P	D1/D1	Connected
D08	1080P	1080P/D1	Connected
D09	1080P	1080P/CIF	Connected
D10	1080P	720P/VGA	Connected
D11	1080P	D1/D1	Connected
D12	1080P	1080P/D1	Connected
D13	1080P	D1/D1	Connected
D14	1080P	720P/CIF	Connected
D15	1080P	720P/CIF	Connected
		<u> </u>	
			Cancel

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

Channe	l status		<u> </u>
Channel	Stream	Mainstream/Sub-Stream	Connection Sta
D01	1080P	Unknown	Not logged in
D02	1080P	Unknown	Not logged in
D03	1080P	Unknown	Not logged in
D04	1080P	Unknown	Not logged in
D05	1080P	Unknown	Not logged ir 🗏
D06	1080P	Unknown	Not logged in
D07	1080P	Unknown	Not logged in
D08	1080P	Unknown	Not logged in
D09	1080P	Unknown	Not logged in
D10	1080P	Unknown	Not logged in
D11	1080P	Unknown	Not logged in
D12	1080P	Unknown	Not logged in
D13	1080P	Unknown	Not logged in
D14	1080P	Unknown	Not logged in
D15	1080P	Unknown	Not logged in
			Cancel

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

Channe	l status		× ×
Channel	Stream	Mainstream/Sub-Stream	Connection Sta
D01	1080P	Unknown	Not logged ir
D02	1080P	720P/CIF	Connected
D03	1080P	720P/CIF	Connected
D04	1080P	720P/CIF	Connected
D05	1080P	720P/CIF	Connected 🗏
D06	1080P	720P/CIF	Connected
D07	1080P	720P/CIF	Connected
D08	1080P	720P/CIF	Connected
D09	1080P	720P/CIF	Connected
D10	1080P	720P/CIF	Connected 🛏
D11	1080P	720P/CIF	Connected
D12	1080P	720P/CIF	Connected
D13	1080P	720P/CIF	Connected
D14	1080P	720P/CIF	Connected
D15	1080P	720P/CIF	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:



Channel mode:

Chanr	nelT	Гуре										×
Digital			An	alog				IP				
1080P 72	20P	960H	D1	HD1	CIF		960P	720P	960H	D1	ЗM	5M
☑ .						24						
	•							32				•
L .	•					24						•
Playback channel: 1												
Maximum	nu	mber	of pi	reviev	v: 16	3						
								0	K	C	ance	el

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.

4.5 Advanced

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

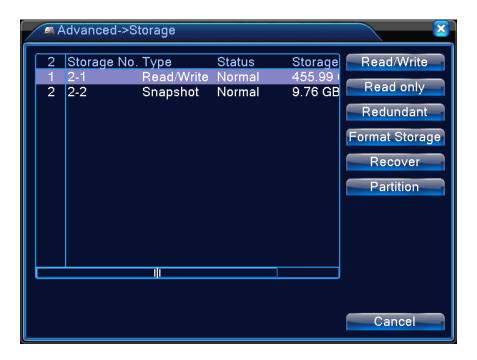
4.5.1 HDD Manage

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.



Pic 4.40 HDD manage

4.5.2 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.



Pic 4.41 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

Modify F	Pwd 🛛 👔
User Name Old New Confirm	admin
	OK Cancel

Pic 4.42 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.

Add User		
User Name Password Confirm Memo GROUP adm	Authority In the device Title e nagement ystem Info og Info	
		OK Cancel

Pic 4.43 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.

A	dd Group
Nam	e
Mem	o
69	Authority
1	Shutdown the device
2	🗹 Channel Title
3	🗹 Schedule
4	🗹 Backup
5	🗹 HDD Management
6	🗹 Account
7	🗹 Query System Info
8	🗹 Query Log Info 🛛 👘 🚺
9	🗹 Clear Log
10	🗹 System Update
11	🗹 Auto Maintain
	🗹 General Config
13	
	OKCancel

Pic 4.44 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.

Delet	te Group
GROUP Name Memo	admin admin administrator group
	Delete Cancel

Pic 4.45 Delete Group

4.5.3 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{a} at the box), then the user will be frozen after connection stopped, and will not log in until device reboot.

& Advanced->Onl	ine User		
User Name	IP 10.10.48.163	Login Type Web	
☐ admin ☐ admin	10.10.48.163 10.10.48.91	Web Web	
		Disconnect	ncel

Pic 4.46 online user

4.5.4 Output adjust

Refer to chapter 3.5.8.

4.5.5 Auto Maintain

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

Advanced->AutoMaintain
Auto-Reboot System Every Tuesday 🔻 at 01:00 💌 Auto-Delete Old Files
Never
OK Cancel

Picture 4.47 Auto maintain

4.5.6 Restore

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

GAdvanced->Restore	\sim
Please select setting entries that you want to default.	
Select all General Alarm Set Network NetService GUI Display Account RS232	
ALL Configuration	
OK	Cancel

Pic 4.54 restore to default

4.5.7 Upgrade

Advanced->Upgrade	
Upgrade Position	_
Upgrade file	\
	Upgrade Cancel

Pic 4.49grade

[Upgrade] choose USB interface.

【Upgrade file】 choose the upgrade file.

4.5.8 Device Info

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

Ta Advanced->Device Info.		
Audio In Channels	0	
Alarm In Channels	8	
Alarm Out Channels	 [1]	
GUI Theme	General 🔻	
Remote control type	General 🔻	
Maximum Playback large	1	
Default playback large		
Enable RS232 🔽 Enable PTZ 🐱		
	OK Cancel	

Pic 4.50 device info

4.5.9 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.

🚦 Advanced	I->Import/Export
De∨ice Name	
LOG	
File Name	Log_201202251020.zip Export
Set	
File Name	Cfg_V4.02.R11.00000072.122
File Name	Import
	Cancel

4.51Import / Export interface

4.6 Info

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

4.6.1 HDD info

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

🗐 In	ifo->HDD Info				×
SATA	× 1 2				
	- 0				
	Туре	Capacity	Left Capacity	Status	
All		465.75 GB			
2-1*	Read/Write	455.99 GB		Normal	
2-2*	Snapshot	9.76 GB	9.34 GB	Normal	
			View recording	times Ca	ancel

Pic 4.52HDD 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 "? ".

4.6.2 BPS

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

∢ Info->	>BPS					×
Channel 1 2 3 4 5 6 7 8 9 10 11 12	Kb/S	MB/H	Channel	Kb/S	MB/H	
1	0	0	13	1472	504	
2	1472	504	14	1472	504	
3	1472	504	15	1472	504	
4	1472	504	16	1472	504	
5	1472	504	17	1472	504	
6	1472	504	18	1472	504	
7	1472	504	19	1472	504	
8	1472	504	20	1472	504	
9	1472	504	21	1472	504	
10	1472	504	22	1472	504	
11	1472	504	23	1472	504	
12	1472	504	24	1472	504	
					Cancel	

Pic 4.53BPS

4.6.3 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.

Info->LOG	×
Туре АШ 🔽	
Start Time 2014 - 02 - 25 00: 00: 00	Pre Page
End Time 2014 - 02 - 26 00: 00: 00	Next Page
67 Log Time Type	LOG
1 2014-02-25 01:00:05 Shut Down	2014- 2-25 01:00:05
2 2014-02-25 01:00:49 Reboot	2014- 2-25 01:00:05
3 2014-02-25 01:00:49 Log In	User default LogIn b
4 2014-02-25 08:27:34 Log In	User admin LogIn by
5 2014-02-25 08:27:54 Log Out	User admin LogOut
6 2014-02-25 08:42:01 save system state	
7 2014-02-25 08:42:01 Log In	User default LogIn b
8 2014-02-25 08:42:08 Modification time	Time calibration
9 2014-02-25 08:42:10 Log Out	User default LogOut
10 2014-02-25 08:42:10 Log In	User admin LogIn by
Search	Clear

Pic: 4.54 g information

4.6.4 Version

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

SInfo->Version	1	
Record Channel	24	1
System	V4.02.R11.00000072.12201	
Build Date	2014-02-19 18:57:06	
MAC	007744145866	
SerialNo	67fd24f7c1d64c95	
Status	23	
Nat status	Probing DNS	
Nat status code	0:	
	ОК	

Pic 4.55ersion information

4.7 Shut down system

Refer to chapter 3.5.8.

5 Cloud Technology Basic Operation

5.1 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.

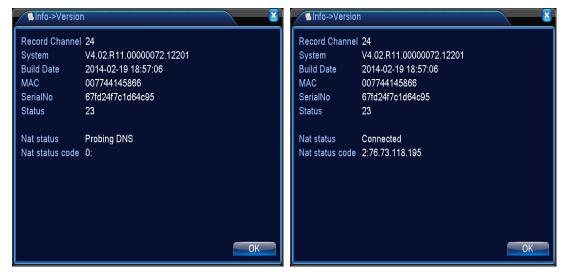
*Remark: the device that using cloud technology should be in the WAN(Wide Area

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

Log in cloud server

Visit http://xmeye.net to see below log in page, it devided into two mode: by user and by device,

user can base on their need to log in freely.

*Remark: to log in "by user", the user need to register at the first time.



> Log in by user

Customer use their registered user name and password to log in, will see below

interface

🏈 My Devices		🚡 • 🗟 - 그 🖶 • 页面만 • 安全 (3) • 工具 (0) • 🚱 • 👌
My Devices Device Man	age User Info Logout	
[Refresh Stat	Click "My Devices" to view config and playback It will download the component automatically to your computer. Please wait a moment as it v time!	i, will take several minitues on your first visiting

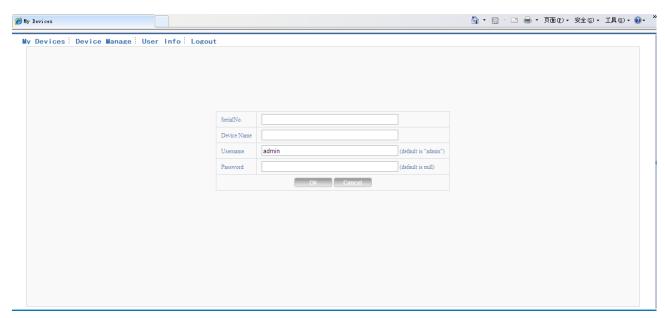
Pic 5.3 cloud technology operation interface

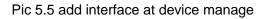
Device manage

Mainly use to add device, click "add"to add the serial number of device to be monitored.

🏉 lly	Devices			🏠 🔹 🗟 🛸 🖃 🖶 🔹 页面 🕑 🗸 安全 🕲	• 工具①• @• *
My	Devices Device Ma	nage User Info Logout			
	Add SerialNo.	Device Name	Username	Operation	

Pic 5.4 device manage interface





*Remark: in pic 5.5, the user name means the user name of monitored device, password means the password of related user.

My Device

Mainly show all the added device here, click the on-line device name, can access to control this device accordingly.



Pic 5.6 monitor page - log in by user

*Remark: the icon of "X" means offline, the device do not connect to server successfully.

> Log in by device



Pic 5.7 interface of log in by device



Input the serial number of device and the verify code to monitor and control the device directly.

Pic: 5.8 monitor page - log in by device

6 FAQ and maintenance

6.1 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.

- 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.

Possible reasons are as followed:

- 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.

- 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.

Possible reasons are as followed:

- 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,

- 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.

Possible reasons are as followed:

- 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.

- 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.

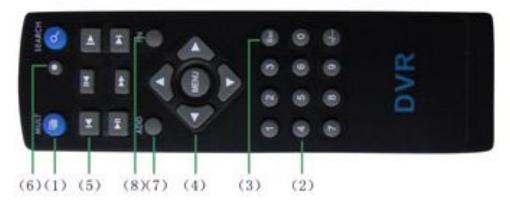
Picture come out from digital channel need few seconds, shift device means to show new picture, so it needs several seconds to buffer.

6.2 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	r l		
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 example

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
Double left click	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