Professional NVR & Decoder Manual

JF TECH

Version 1.1.0 JF TECH(Co.,Ltd)

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Note:

Do not place heavy objects on the device regards; Do not let any solid or liquid to penetrate inside the device; Please regularly with a brush on the circuit board, connectors, chassis fans, chassis, dust, etc., turn off the power and unplug the power supply before clean; Do not attempt to disassemble this equipment, repair, or replacement parts.

Environment:

Please place and use this product, avoid direct sunlight or near a heat source at a temperature of $0 \ ^{\circ}C \ ^{\circ}A0 \ ^{\circ}C$;

Do not install this equipment in a wet environment;

Do not expose this apparatus in smoky, dusty environments;

Avoid strong collision; do not drop the machine;

Please keep this product installed horizontally mounted in a stable place, pay attention to prevent falling product;

Please install in a well-ventilated place, do not block the vents of the product; Only used within the rated input and output range.

1.Introduction

1.1 Product Brief

The series NVR is designed especially for security and defense 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 which insures the high quality image, low coding ratio and single frame playing. It introduces TCP/IP network technology which achieves the strong network communication ability and telecommunication ability.

This device can be used individually, but also form a powerful security monitoring network, with professional network video surveillance platform software, which fully reflects its strong networking and remote monitoring capabilities.

The series NVR are widely used in power systems, telecommunications sector, banking security, industrial enterprises, intelligent buildings, intelligent community, urban roads, airports, railway stations and other surveillance applications.

1.2 Main Functions

Real-time surveillance

Spot interface, analog output 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

Real-time monitoring can be carried out remotely via the network (including mobile phone) Remote PTZ control

Remote video search and real-time playback

Alarm linkage

Alarm recording, round robin, the screen prompts, beep, mail, FTP

Communication interface

With RS485 interface, alarm input and PTZ control

With RS232 interface, scalable keyboard connection to the master, and connected to the computer serial port for system maintenance and upgrades, and matrix control With standard Ethernet interfaces, network remote access feature

Intelligent operating

Mouse action function

Fast copy and paste operating for the same setting



2. Unpacking and cable connection

2.1 Unpacking

When you receive the product:

First, check whether the packaging equipment has obvious damage. Selection of protective packaging materials during transport can cope with most of the unexpected hit; Then, remove the device, remove the plastic protective film NVR, check whether there is any

visible damage to the outside;

Finally, open the case, check the front panel data cable, power cable, power supply and motherboard fan connector is loose.

Front panel and rear panel

Various interfaces on the front panel and the rear panel of the various key functions are described in detail in the specification;

Please check carefully whether the product model on the front panel with foil products you ordered the same model;

Label affixed to the rear panel, has a very important significance for our service work, please protect. In the company's after-sales service when you contact us, you will need to provide the model and serial number to order the label.

Check

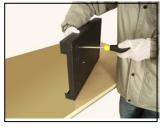
In addition to checking for any obvious signs of damage, but please pay attention to check the front panel data cable, power cable and the motherboard connection is loose.

2.2 Hard disk installation

When you use, first install the hard drive, the machine can install two hard drives inside (capacity no limit).



①disassemble the screw



④ fix the screw of hard disk



(2) disassemble the cover



(5) connect the data wire



(3) fix the screw of hard disk



6 connect the power wire





⑦cover the machine

⑧fix the cover

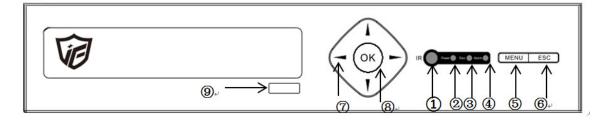
2.3 Shelf Installation

This product chassis specification is 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 then 35° C (95°f).
- 2. Keep the equipment has 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.

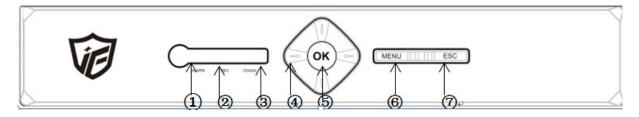
2.4 Front Panel

2.4.1 B series



NO.	Function	NO.	Function	NO.	Function
1	IR	2	Power	3	Record
4	Alarm	5	Menu	6	ESC
7	Direction	8	ОК	9	CD-ROM

2.4.2 T Series



NO. Function	NO.	Function	NO.	Function
--------------	-----	----------	-----	----------

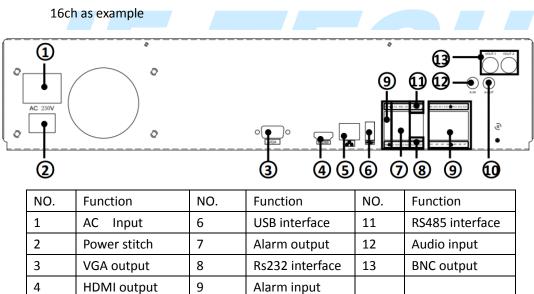
1	Alarm Indicator	2	Record Indicator	3	Power Indicator
4	Direction	5	ОК	6	Menu
7	ESC				

2.4.3 K Series/F Series

	Ŵ							
NO.	Function		NO.	23 Function	NO.	2) (H) (E Function	§ 16 NO.	I 18 19+ Function
1	Exit		2	HDD	3	Mode	4	Record indicator
				indicator				
5	Rec		6	Alarm	7	PTZ Control	8	Shift indicator
				indicator				
9	Menu		10	Power	11	IR Receiver	12	Shift
				indicator				
13	Power Swi	tch	14	Next file	15	Play	16	Fast Play
17	Last file		18	Stop	19	USB	20	Null
						interface		
21	Jog wheel		22	Direction	23	CD-ROM	24	ОК
						switch		

2.5 Rear panel

2.5.1 rear panel interface diagram



Network port

5

2.6 Audio & Video input and output connections

10

2.6.1 video input

NVR video input port to the BNC input signal requirements: PAL / NTSC BNC (1.0VP-P, 75 Ω).

Video signal should comply with national standards, a higher signal to noise ratio, low distortion, low interference; image must be clear, invisible change, real and natural color, brightness is appropriate.

Ensure stable and reliable camera signal:

Cameras should be installed in a suitable location, to avoid backlighting, low light conditions, or the use of good results backlight compensation cameras, low-light cameras.

Camera and NVR power supply should be common ground, and reliable, in order to ensure the normal operation of the camera.

Ensure stable and reliable transmission line:

Using high-quality, shielded coaxial good video, and based on the transmission distance to choose the right model. If the distance is too far, should be based on the specific circumstances, the use of twisted pair, add video compensation equipment, fiber optic transmission and other ways to ensure signal quality.

Video signal line should avoid strong electromagnetic interference to other equipment and lines, especially should avoid high-voltage current string into.

Lugs ensure good contact:

Signal and shield lines should be firm, well-connected, avoid Weld, lap welding, to avoid oxidation.

2.6.2 Select and connect the video output device

Video output is divided into PAL / NTSC BNC (1.0VP-P, 75Ω) output and VGA output (VGA is optional)

Choose to use computer to replace the monitor should pay attention to the following questions:

1. Do not keep long boot state to extend the life of the equipment;

- 2. regular degaussing, which will help maintain the normal operation of the display;
- 3. Away from strong electromagnetic interference devices.

Use TV as a video output device is an unreliable alternative. It also requires minimizing the use of time and strictly controls the interference power caused by neighboring devices. Inferior TV leakage risks may cause damage to other equipment.

2.6.3 SDI video output

Some models support coding for 1080P (720P) SDI video.

2.6.4 Audio input

BNC connector (only one to support intercom function)

Audio input impedance is high, and therefore must be used active pickups.

Similar to the video input audio transmission requires line to avoid interference, avoid

Weld, poor contact, and special attention to prevent a string of high-voltage current into.

2.6.5 Audio output

Audio output signal parameters is generally greater than 200mv $1K\Omega$ (BNC), you can directly connect the low impedance headphones, powered speakers or other sound through power amplifier output devices. In the case of external speakers and microphone cannot be achieved spatial isolation, it is easy to produce output howling phenomenon. At this point the measures to be taken are:

- 1. The use of directional better pickups;
- 2. Adjust speaker volume, making it lower than the threshold to produce the whistle;

3. Multi-use environment using sound-absorbing materials decoration, reduce the reflection of the sound, improve the acoustic environment;

4. Adjust the layout of pickups and speakers, but also can reduce the occurrence of howling situations.

2.7 Alarm input and output connections

Before connecting the device, please note the following:

* Note: Some Series devices without alarm input and output functions.

2.7.1 Alarm Input

Alarm input is grounding alarm input;

Alarm input requirements for ground voltage signal;

When the alarm is connected to two NVRs or simultaneously access the NVR or NVR and other devices, need to be isolated by relay.

2.7.2 Alarm Output

NVR alarm output cannot be connected power load (no more than 1A), should constitute the output loop current is too large to prevent damage to the relay. Require the use of high-power load contactors isolation.

2.7.3 PTZ decoder connected

A. must do PTZ decoder and NVR common ground, otherwise there may be common-mode voltage will lead to control PTZ. Recommended to use shielded twisted pair with shielding for common ground connection;

B. prevent high voltage in series, rational layout, good lightning protection measures

C. to be incorporated into the 120 ohm resistor in the remote reduced reflection, to ensure signal quality;

D. NVR 485 AB line cannot be connected with other 485 output;

E. AB line voltage between the decoder requires less than 5V.

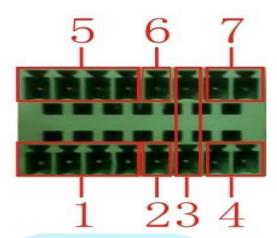
2.7.4 Front-end device requires grounding

Poor grounding may cause the chip to burn.

2.7.5 Any type of alarm input

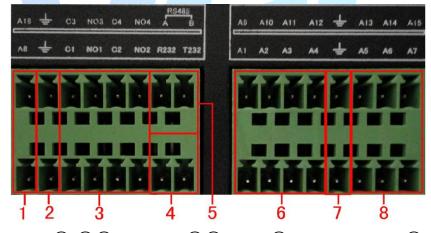
The alarm output unit interface is a normally open type.

8 external alarm interface schematic:



- (1) Alarm input 1,2,3,4
- (2) Ground
- (3) RS232 serial interface to send and receive
- (4) RS485 interface
- (5) alarm inputs 5,6,7,8
- (6) Ground
- (7) alarm output

16 External alarm interface schematic:



(1) (6)(8)) alarm inpu	t (2)(7) grou	nd (3) alarm	output RS48	5(4)F	RS232

Parameters	Meaning			
G	GND			
R _v T	Send and receive serial interface			
A _N B	485 communication interface			

2.7.6 Alarm Input Port Description

8/16 channel alarm input, input type limitation (can be normally open or normally closed);

Alarm detector ground terminal (GND) and com-side parallel (alarm detectors by external power supply);

Ground terminal and the ground terminal NVR alarm detector and then;

NC end alarm detector is connected to NVR alarm input terminal (ALARM);

When using an external power supply required for alarm equipment and NVR common ground.

2.7.7 Alarm Output Port Description

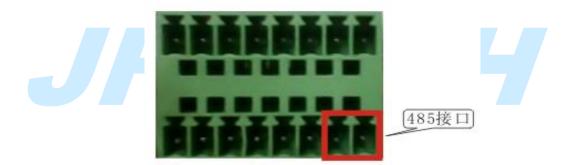
2 channels alarm output (normally open contact), the need for external alarm device power supply;

To avoid overload and damage the host, please refer to the relay relevant parameters when connecting relay relevant parameters Annex.

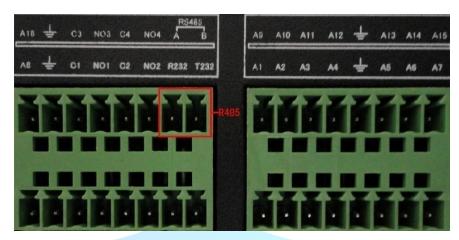
Model: JRC-27F						
Shock material	Silver					
	Rated switching cap	acity	30VDC 2A, 125VAC 1A			
Ratings	Maximum switching	gpower	125VA 160W			
(Resistive load)	Maximum switching	, voltage	250VAC, 220VDC			
	Maximum switching	g current	1A			
	between the same p	oolarity Contacts	1000VAC 1 minute			
Insulation	between different p	olarity Contacts	1000VAC 1 minute			
	Between coil and co	ontacts	1000VAC 1 minute			
Surge voltage	between the same p	oolarity Contacts	1500VAC (10×160us)			
Opening time	3ms max	3ms max				
Turn-off time	3ms max	3ms max				
	Machinery	50×106 MIN (3H	lz)			
Lifetime	Electrical	200×103 MIN (0.5	5Hz)			
Work environment	-40∼+70 ℃					

2.7.8 Alarm output Relay terminal parameters

2.8 Connect Line 485



8 external alarm 485 Schematic



16 external alarm 485 Schematic



3.Basic Operations

Note: The button is grayed means did not support.

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 NVR is working normally.

Note:

1. Make sure that the input voltage corresponds with the switch of the NVR power supply. 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 NVR. Right click mouse to get a desktop shortcut menu, then choose Logout option is called soft switch. Pressing the power supply switch is called hard switch.

Illumination:

1、 Auto resume after power failure

If the NVR 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 NVR 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 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.

Figure 3.1 Login

Password protection: If the password is continuous wrong three times, the alarm will start. If the password is continuous wrong five times, the account will be locked. (Through reboot or after half an hour, the account will be unlocked automatically). For your system security, please modify your password after first login.

3.4 Desktop shortcut menu

In preview mode you can right click mouse to get a desktop shortcut menu, as the picture 3.3 shows. The menu includes: main menu, Guide, Quick Set, Record Mode, playback, PTZ control, Coaxial Control, TVI&AHD, High Speed PTZ, color Setting, Output adjust, Logout, View.

🚹 Main Menu		
⊟ Guide		
OQuick set		
Record Mode		
PlayBack		
PTZ Control		
Coaxial Control		
CTVI&AHD		
HighSpeedPTZ		
O Color Setting		
Output Adjust		
(ULogout		
 □View 1	_	
I⊞View 4		
🔲 View 8	- ▶	
⊞View 9	•	
₩View 16		
		-

Figure 3.2 shortcut menu

3.4.1 Main menu

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

JF TECH	Reco		Event		System	Advanced	Info
 O Record Conf. I Backup O PlayBack 	Channel Length Mode Week Period 1 Period 2 Period 3 Period 4	1 ▼ 60 Schei All 00 : 00 00 : 00 00 : 00 00 : 00	 24 24 24 24 		indancy	Sec. Detect	Alarm
			Advar	iced	OK	Cancel	Apply

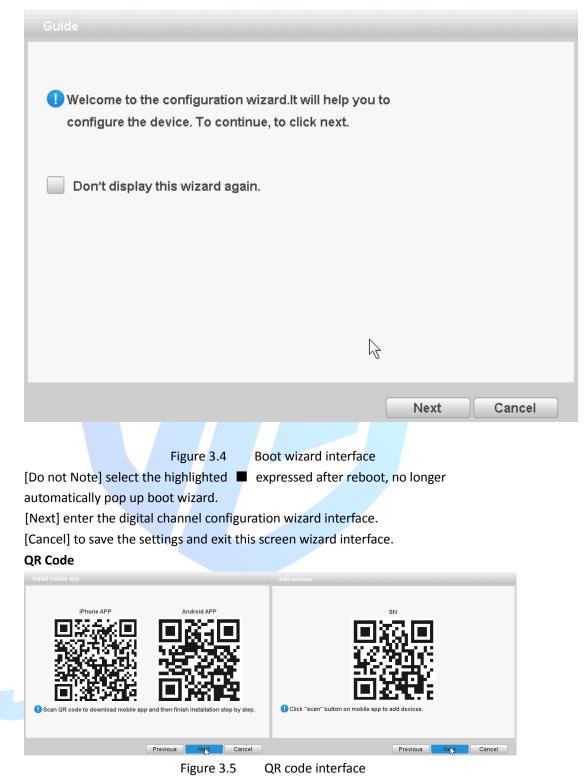
Figure 3.3 main menu

3.4.2 Boot wizard

Provide fast setup to wizard configuration parameters. Including boot wizard, two-dimensional code and digital channel configuration wizard, click "Next" to enter the digital channel configuration wizard.

Boot wizard:





Mode selection:

Mode selection
Please select auto-connected mode or manual mode.
Quick set(recommend)
Auto-connected mode
🔵 Manual mode
Message Automatically search and add front-end ip device, to the front-end device may automatically assign IP addresses
Previous Next Cancel
Figure 3.6 mode selection Click "Next" on the figure 3.4, will pop up APP and SN QR code, and then click next to pop up mode selection. Select the manual mode to enter the digital channel configuration wizard which as shown in Figure 3.7, you can set shortcuts for digital

configuration wizard which as shown in Figure 3.7, you can set shortcuts for digital channels; select ad hoc network mode, the device will automatically modify the LAN IP address of the front-end equipment, digital channels and front-end devices connect automatically.

NOTE: If you have the front-end cannot be modified under the networking mode is recommended since set up a separate LAN.

Digital Channel Configuration Wizard:

NOTE: After using this function, the parameters in the configuration of all digital channels will be updated, please caution.

	nnel config	g wizard						_		
0	Device	Name	Device Info.	IP	Address	Po	rt 1 🗯	All		
							2.		Search	
							3.		Add	
							(4)+ ^j _	-	Network	
				6.			(5+) _		Quick set	;
				1						
16	Device	туре	IP Address C	Connection S	tatus IP	Channel	0.		Delete	
8	- IP			- NoConfig		-	8-		Clear	
10		-		NoConfig	·	1	9. ,		Encode	
11				NoConfig	-	1				_
12		с	~	NoConfig	1	1		1	Copy to	
13		-	(12)₊≀	NoConfig	1	1	104			V
14		-		NoConfig		1	L			
15			I	NoConfig		1				
Device	туре	IPC		Protocol	NETIP	•				
IP Cha	nnel	1		Stream	Main Str	ream 🛛 🔻				
Device	address									
Port		34567					-	13	ب (
User N	lame	admin		Password]	1 5⊬	16 +	J
				(14)+-'		Previous	Nex		Exit	

Figure 3.7 Digital Channel Configuration Wizards

Label meanings:

1. Search protocol selection

Includes three search methods, respectively NETIP, ONVIF, ALL

2. Search

Search device

3. Add

Add device

4. Network Settings

The device can be set remotely channel, user name, password; click the Network Settings button, you can set the network of the device, including IP, subnet mask, default gateway (ONVIF protocol devices cannot make network settings).

IP channel co	nfig wizard > Network	
IP Address	192 · 168 · 19 · 15]
Subnet Mask	255 · 255 · 255 · 0]
Gateway	192 · 168 · 19 · 1]
User Name	admin	
Password		
	Auto assigned OK	Cancel

Figure 3.8 network settings

5. Hotkey settings

Configure all channels by one key.

6. Equipment list display area

This area displays the discovered devices.

7. Delete

Select the device has been configured, click Delete, you can delete the device

8. Clear

Clear all configured channels

9. encoding settings

You can set the front end configured coding

10. Copy to

Some information of selected channels can be copied to other channels, such as user

name, password, and other device information, as shown below:

IP channel config wizard > Copy to

All User Name Password Device address Protocol Port IP Channel Device Type Stream	Ş
All 9 10 11 12 13 14 15 16	
ОК	Exit

Figure 3.9 Copy to

11. Up and down keys

Click the device in the list, click up and down buttons to move the device up and down.

12. Configuration Status

Configuration status of each channel, including not configured, connected, not online

13. configuration front-end information

The information of the front-end configured, user name, password can be set in this area.

14. Back

Return to the previous screen and that is the boot wizard interface.

15. completed

Add the selected device to the appropriate digital channels, and then enable the

channel; the remaining non-selected digital channel is not enabled.

16. Exit

Return to the preview screen.

3.4.3 Playback

There are two methods for you to play the video files in the hard disk. Through shortcut menu or form Main menu>Record->Playback.

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

9.	Read/Write V
8.	≤ Sep ▼ 2016 ≥ Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
	7 1 2 3 4 6 6 7 8 9 10 11 12 13 14 16 16 All Q
	6 🔾
Sync Mode 3 All Regular Alarm Manual 4	24hr 2hr 1hr 30mi J

Figure 3.10 Playback

1. Playback control	2. Time display	3. Synchronous	
4. Video type	5.Time schedule options	6.search by time/switch mode	
7.Channel Selection	8.Date selection	9. Storage device selection	

【Playback control 】 See detail in below chart

Button	Function	Button	Function
	Play/Pause		Backward play
A	Slow play	8	Fast Rewind
H	Previous frame	1Þ.	Next frame
.ee	Previous file	BH	Next file
69	Loop	Ð	Full screen
	Edit	×	Start / End Clip
	Clip video backup		

Table 3.2 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:

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".

3.4.4 Record controls

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

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

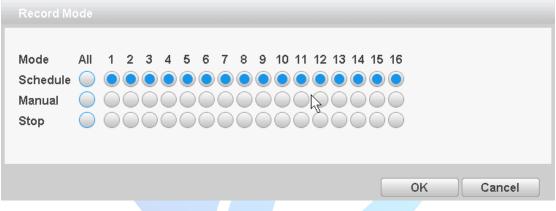


Figure 3.11 record control

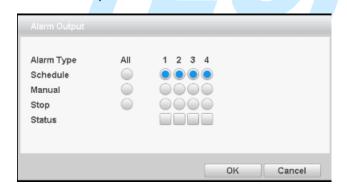
[Schedule] Record according to the configuration.

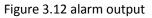
[Manual] Click the all button and the according channel is recording no matter the channel in any state.

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

3.4.5 Alarm output

Control each channel alarm output state, means that the channel has alarm output. You can use desktop shortcut menu or click [main menu]> [alarm function]> [alarm output] to enter the alarm output interface.





[Configuration] according to the configuration information, and outputs an alarm

signal;

[Manual] no matter what state, select "Manual" button, the corresponding channel output alarm signal;

[Close] regardless of what state, select "Close" button, the channel will not output an alarm signal

3.4.6 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.

The functions include: PTZ direction control, step, zoom, focus, iris, and setup operation, patrol between spots, trail patrol, boundary scan, assistant switch, light switch, level rotation and so on.

Note:

- 1. Decoder A (B) line connects with NVR A (B) line. The connection is right.
- 2. [main menu] >> [system] > [PTZ Config] to set the PTZ parameters.
- 3. The PTZ functions are decided by the PTZ protocols.

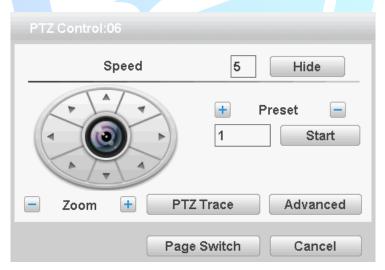


Figure 3.13 PTZ settings

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

【Zoom】Click 二 / 1 butto

button to adjust the zoom multiple of the camera.

[Preset] Click / / button calls the preset points, PTZ automatically turns to

the setting position.

[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)

【Advanced】 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.

[Page switch] Switch between different pages.

Preset

1.Increase the preset point								
By the arrow keys to adjust the good Yuntai location, Enter a number in 1,								
then click on the button, you can add a preset point. 2.Deleting preset								
Enter a number in, Then click on the delete preset.								
3.Preset								
Enter a number in, Then click on the, head will rotate to the								
preset position.								
click on the Advanced Enter a new operation page as shown below								
PTZ Confie The cruise Tour Tour Tour Tour Tour Tour Tour Tour Tour Tour Tour Tour Tour Tour Start Pattern Add navigation, Remove navigation, Remove navigation, Remove navigation, Remove navigation, Remove navigation, Remove navigation, AutoScan Reset								

Figure 3.14 Advanced function

【Point between the cruise】

1.Increase the cruise line

Enter a number in, Click the key point between the cruise enter the settings page increase cruise line .

Can preset point in the input box, enter preset point in this page, click the

Start ,Select preset tilt will jump to the preset position

[interval] set point between the cruise when entered the number of seconds after moving to the preset point.

[Set the cruise route steps]

Input the preset point number ,then click the [add preset point], the increase of the preset point will be displayed in the preset point has been added, a position that is in the cruise line.

If you want to delete preset point in the input box] [preset input preset, and then click the [clear preset point]

2.Remove the cruise line

In Figure 3.14 input point between the cruise number , then click the point between

the cruise, complete the deletion

3. The point of the call between the cruise line

In Figure 3.14 points in the input box cruise input point between the cruise, and then click the [start] between cruise key.

[Navigation]

1.Increase the navigation route
Enter a number in _____, Click the button _____ to enter the increase cruising settings page
In the page using the direction keys,[zoom], [Focus], [Iris] the various operations of the aperture and click [complete] to return to the previous page, complete navigation settings
2.Remove navigation route
No delete navigation function

4. The point of the call between the cruise line

Input navigation number in the input box in Figure 3.14, and then click between the [start] key cruise.

[Page Switch]

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

PTZ Control:06
Direct Aux Ope
Aux Num Ope 1 Open Close
Page Switch Cancel

Figure 3.15 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 Switch】 In Picture 3.16, click Page Shift button enter the Picture 3.12- PTZ Main Menu, the menu itself can be control by the menu control buttons

[Page Switch]

In Picture 3.13 click Page Shift button into Picture 3.19, setting auxiliary function.

PTZ Control:06		
Direct Aux Ope		
Light 🛛 🔻	Open	Close
Aux Num Ope		
1	Open	Close
	Dogo Quuitab	Canaal
	Page Switch	Cancel

Figure 3.16 Auxiliary Function Control

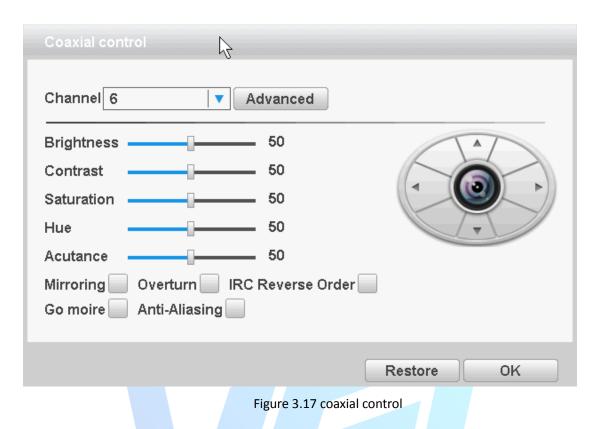
【Intuitive Auxiliary Operation】 choose auxiliary equipment, select Open or Close button, switch control;

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

【Page Switch】 In Picture 3.19, click Page Shift button enter the Picture 3.13- PTZ Main Menu, the menu itself can be control by the menu control buttons

3.4.7 coaxial control

The coaxial control function enables the video recorder to transmit the control signal to the front end camera through the coaxial cable. The NVR can control the front camera's PTZ ,menu and other function through the control signals. Coaxial control function requires the front camera also supports coaxial control function



3.4.8 Image Color

*Image color on ONVIF device connection is invalid.

Set selected channel image parameters (when single-screen preview of the current channel, multi-screen cursor to where the channel), you can use the desktop shortcut menu, enter the interface. Image parameters include: brightness, contrast, saturation, hue, gain, horizontal sharpness, vertical sharpness. And according to the needs of different image parameters set in two different time periods.

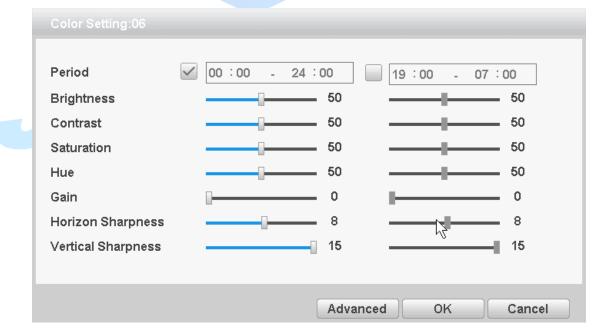


Figure 3.18 Image color

3.4.9 Output Adjust

Adjust TV output area parameters. You can use the desktop shortcut menu to choose "Output Adjust".

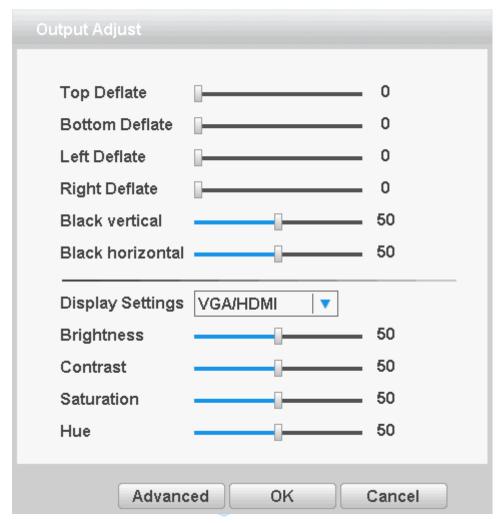


Figure 3.19Output Adjust

3.4.10 Logout

Logout shut down the system or reboot up. You can use the desktop shortcut menu

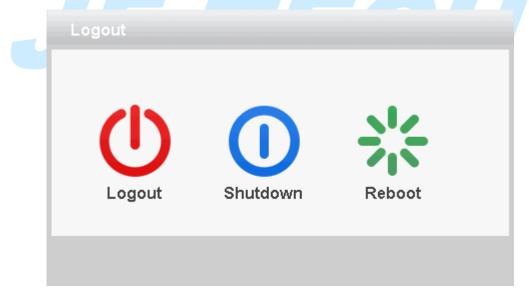


Figure 3.20 Logout/Shutdown/Reboot the system

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

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

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

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

3.4.11 Window switch

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

3.4.12 SPOT

This feature is only supported by some models, a BNC connector for Spot interface, the user can switch SPOT output split screen mode via the context menu. After receiving the BNC interface, regardless of what to do at the end VGA, TV-side output device only a preview screen will not display the GUI interface of the device.

It can be selected according to the needs of different screens, can be single picture, four pictures, sixteen screen preview.

Note: The total number of different video input device, which can switch the preview screen is different.

4. Main menu

Main menu	Sub menu	Function					
	Record Config	Recording configuration, recording type, recording time, etc.					
Record function	Backup	Detect backup devices, formatting backup device, backup device, backup devices, formatting backup device, backu					
	Playback	Video search, video player, video file					
	Motion Detection						
	Video blind	Set channel, device type, and set the linkage parameters: Arming time, alarm output, screen prompts, video, PTZ, round robin,					
Event	Video loss	beep, EMAIL, FTP upload					
function	Alarm input						
	Abnormality	No hard drive, hard disk error, lack of disk space, off network events occurred after the IP conflict time, setting the linkage parameters: screen prompts or buzzer					
	Intelligent	Determination algorithm rules: perimeter guard, care items, video diagnostics. Set rules: show trail, sensitivity, minimum travel distance, alert mode, and set the linkage parameters: Arming time, alarm output, the screen prompts, recording, PTZ, round robin, beep, EMAIL, FTP upload, phone reporting					
	General	Set the system time, date format, time format, language, hard disk full operation, the machine ID, video format, output mode, standby time, daylight saving time					
System settings	Encode	Set each channel coding and combinations coding main parameters: encoding mode, resolution, frame rate, stream control, quality type, code stream value, I frame interval parameters, video / audio enabled; Note: Mixed mode and full simulation mode only encoding settings.					
	Network	Set basic network parameters, and set DHCP, DNS parameters, network speed download					
	Network Services	PPPOE, NTP, Email, IP permissions, DDNS parameters					
	Display	Set the preview hint icon state, transparency, resolution, VGA (HDMI) priority					

4.1 Main menu navigation

	1					
	RS485	Set protocol, address, baud rate, data bits, stop bits, parity				
	RS232	Set the serial port function, baud rate, data bits, stop bits, parity				
	Tour	Set touring mode and interval				
	Storage	Set the specified hard disk drive to read and write, to read-only disc, set to redundant disk, clear the data, data recovery and other operations				
	Account	Modify users, modify group, change passwords, add users, increasing the group, delete users, delete groups				
	Online user	May have been forcibly logged off the network users, after disconnecting the account will freeze to recover when the next boot				
	Import/Export	Import or export the NVR's conifguration				
	Upgrade	Upgrading using external devices (such as USB)				
Advanced	Auto Maintenance	Set automatic reboot the system automatically delete the file time				
	Restore	Restore settings Status: Normal settings, video settings, alarm settings, network settings, network services, output mode, the serial port settings, user management				
	Device information	Configure some device hardware information				
	Import/ export	Exporting logs or configure the device to an external device (such as U disk); connect an external device (such as U disk) configuration import equipment				
	Digital	Set channel mode, view the channel status, and set the parameters of digital channels, etc.				
	HDD Info	Display hard disk capacity, recording time				
	BPS	Display stream information				
Info	Log	Query log, and clear all log information				
	Version	Display version information				

4.2 Record function

Video-related operations, including: record settings, video playback, video backup.

4.2.1 record settings

Set video parameters monitored channel. When you first start, the system is set to 24

hours of continuous recording. [Main menu]> [record]> [record config]. Note: The normal recording equipment, installation of a hard disk with at least one set to read-write disk (detailed operation, please refer to section 4.5.1)

JF TECH	Reco		Event		System	Advanced	Info
🗒 Backup	Channel Length Mode	1 1 60	min			Sec.	
C) Hayback	Week Period 1 Period 2 Period 3 Period 4	All 00 : 00 00 : 00 00 : 00 00 : 00	- 24 - 24 - 24	i : 00 i : 00 i : 00 i : 00	Regular	Detect	Alarm

[Channel] to select the appropriate channel number for the channel set, selectable settings for all channels unified whole;

[Redundancy] choose redundancy capabilities that enable video file double backup function, a forthcoming video channels simultaneously recorded onto two hard drives. There are two devices need to install the hard drive, where a hard disk read-write disk, a redundant disk (detailed operation, please refer to section 4.5.1);

[Length] to set the length of time for each video file, the default is 60 minutes; [Mode] setting the video, there are three states: configuration, manual on and off;

Configuration: video recording in accordance with (general, detection and alarm) recording type and recording time period set;

Manual: No matter what state the current channel, select "Manual" button, the corresponding channel all for normal video;

Off: No matter what state the current channel, select the "off" button, the corresponding channel to stop recording.

[week] setting common recording time period within the time set will start recording; [Type] set record type, there are three types: normal, detection and alarm.

Regular: In the time period set for normal video, video file type is "R"; **Detection:** In the time period set trigger "motion detection", "video block", "video loss", "Exception Handling" alarm signal, and the corresponding alarm function is set to open the Video function, start detection recording, video files type "M". **Alarm:** In the time period set trigger external alarm signal, and the "Alarm Input" function is set to open the video function, start detection recording, video file type is "A".

Figure 4.1 video settings

View chapter "3.5.3 video playback."

4.2.3 video backup

By setting the backup device video file to an external storage device.

Note: Before backup files, you need to install the files stored to accommodate storage devices. Backup is terminated; it has been copied to a storage device files can be played back independently.

Backup middle is terminated, has been copied to a storage device files can be played back independently.

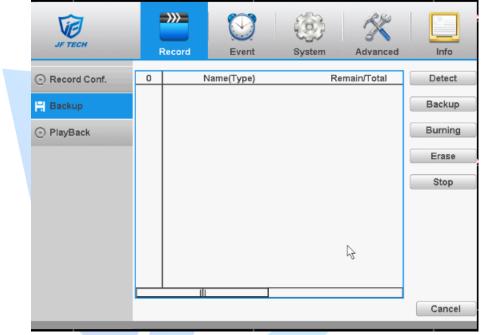


Figure 4.2 record backup

Detect: Detecting storage devices connected to the device, which can be U disk, hard disk and other equipment;

Backup: Click Backup, Backup dialog box pops up, you can select the backup video files based on type, channel, time and other attributes.

When you click "backup", then you'll enter next page:

Clear: Clear the displayed file information;

Added: Display file information to meet the set file attributes;

Backup Format: The format of the configuration backup file, according to the needs, the optional H264 or AVI.

Start / Stop: After select the file and backup format, click to start the backup, and then click Stop to stop the backup.

Note: When you back up, you can exit the page perform other functions.

Burning: Click Burn, burn video will sync selected channel;

Erase: Select the file to delete and click erasure to delete the device files; Stop: Stop the backup;

4.3 Event function

Alarm functions include: motion detection, video blind alarm, and video loss alarm,

alarm input alarm, intelligent analysis and abnormality.

4.3.1 motion detection

By analyzing the video image, when the system detects a mobile signal, motion detection alarm is initiated, and the linkage functions.

Note: The front-end equipment and this equipment need to enable this feature. Advanced button same to the right mouse button.

Motion detection function of mixed mode / full analog and digital channels are different: motion detection alarm digital channels only to turn its function at the local end, the corresponding remote device connected to the end of the channel will have motion detection feature is turned on, when the remote device side corresponding channel has motion detection scene occurs, the local side will be able to achieve its alarm function, otherwise the motion detection function cannot be achieved, while the analog channels open as long as the local end manufacturing mobile phenomenon on the line.

JF TECH	Record	Event	System Advanced Info
Motion Detect Video Blind Video Loss Alarm Input Abnormality Intelligent	Channel Sensitivity Period Record Channel Tour PTZ Activation Show Message Buzzer FTP upload	1 ▼ Middle ▼ Set 1 2 3 4 5 1 2 3 4 5 Set	Enable Region Set MD Interval 2 Sec. 6 7 8 9 10 11 12 13 14 15 16 6 7 8 9 10 11 12 13 14 15 16 PostRec 10 Sec. Send Email Write Log
		Advanced	OK Cancel Apply

Figure 4.3 motion detection

[Channel]: Select the number of channels to be set, the default one channel to the network camera.

[Enable]: motion detection alarm enable.

[Sensitivity] according to the sensitivity level of the lowest, low, medium, high, very high, the highest six-speed optional;

Note: where only in motion detection settings and only analog channels can set its sensitivity of mixed mode / full analog mode.

[Region] Click Settings, enter the settings area is divided into PAL22X18, red area for motion detection fortified area; the white area is undefended, as shown in Figure 4.5 Settings area. Hold down the left mouse button, draw settings area. (By default the entire area selected for monitoring area) Note: Mixed mode / full motion detection in analog mode only regional settings, and only analog channels to set their area.

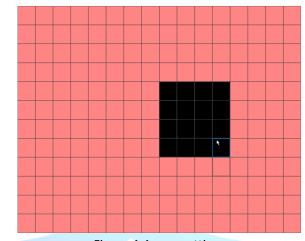


Figure 4.4 area settings

[Period]: You can also set the alarm time from Monday to Sunday every day 4 time periods, other time will not trigger motion detection alarm information. As shown in FIG.

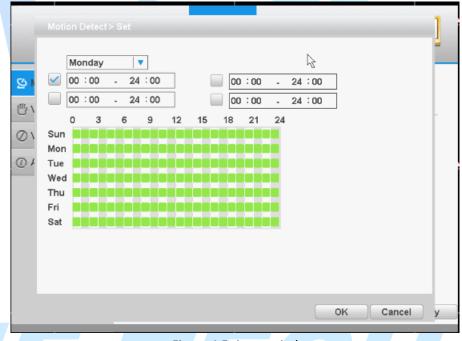


Figure 4.5 time period

[MD Interval]: between two alarms generate alarm information shortest time interval can be set between 0 and 600S.

[Record channel]: When an alarm is triggered, the NVR starts recording, you need to open detection recording.

[Tour]: The NVR does not support this feature.

[PTZ Activation]: When alarming, it will turn off the PTZ preset point linkage or linkage between points or cruising.

* Under Mixed mode, PTZ is linkage to analog channel corresponding PTZ settings, under full digital channels; PTZ is linkage to PTZ information corresponding to the remote device settings.

Note: PTZ Activation, you need [shortcut menu]> [PTZ], set the preset point, cruise between points, intervals and other parameters

JF TEO	7			\odot	(i))	×	
JF TEO	CH .	Record		Event	System	Advanced	Info
😒 Motic							
旧 Videa	Channel1	None	▼ 0	Channel	2 None	▼ 0	
-	Channel3	None	▼ 0	Channel	None	▼ 0	
⊘ Vide∢	Channel5	None	▼ 0	Channel	None	▼ 0	6
(i) Abno	Channel7	None	▼ 0	Channel	None	▼ 0	6
	Channel9	None	▼ 0	Channel	0 None	▼ 0	
	Channel11	None	▼ 0	Channel	2 None	▼ 0	
	Channel13	None	▼ 0	Channel	4 None	▼ 0	
	Channel15	None	▼ 0	Channel	6 None	▼ 0	
					Oł	Cancel	
				Advanced	ок	Cancel	Apply
			Figure	4.6PTZ L	nkage		

[MD interval]: After the alarm ends, the length of time to continue the local recording can be set between 10 and 300S.

[Show message] on the local host screen, pop-up dialog box prompts warning information;

[Send Email]: When an alarm is triggered, sends an alarm message to the specified mailbox, mailbox settings.

[FTP Upload] ■means enable, Expressed alarm occurs if the selected channel or video capture channel, the video file or image upload up to a specified location.

Note: Upload FTP, need to be set accordingly in the [Network Services].

[Buzzer]: when an alarm occurs, the device sends a "tick" sound long ring.

[Write Log]; when an alarm occurs, the device write a log which you can check on the [Info]>[Log].

4.3.2 Video blind

When the device captured video images by outside influence, low light, to set the sensitivity parameter, start the video occlusion alarm, and the linkage function. Note: Advanced button is same to the right click button.

* Same with motion detection, the Mixed-mode / full analog and digital channels of

video blind function differently.

Enable
6 7 8 9 10 11 12 13 14 15 16
6 7 8 9 10 11 12 13 14 15 16 PostRec 10 Sec.
Send Email
Vrite Log
OK Cancel Apply

Digital channels cannot be used to set the sensitivity. Which is a mixed-mode or full simulation mode can set the sensitivity. Sensitivity level is divided into six kinds, namely: minimum, low, medium, high, very high, the highest.

Setting method: refer to chapter "4.3.1."

4.3.3 video loss

When the device cannot get channel video signal, the video loss alarm, and the linkage function.

Note: Advanced button is same to the right click.

* Same with motion detection, the Mixed-mode / full analog and digital channels of video loss function differently.

JF TECH	Record	Event	System	Advanced	Info
🖄 Motion Detect	Channel	1	Enable	\checkmark	
반 Video Blind		<u>}</u>			
🖉 Video Loss	Period Record Channel	Set	56789	10 11 12 13 14	15 16
と Alarm Input	Tour	1234	56789	10 11 12 13 14	
Abnormality	PTZ Activation Show Message	Set	PostRec Send Email	10 Sec.	
Intelligent	Buzzer FTP upload		Write Log		
		Advance	d OK	Cancel	Apply

Figure 4.8 video blind

Video loss alarm configuration, please refer to 4.3.1 motion detection section.

4.3.4 Alarm input

When the device gets an external alarm device alarm signal, it will start alarm function. * Alarm input, mixed-mode / full analog channel mode and use the same digital channel mode, the function is turned on, if set to normally open, you only need to plug the alarm terminal on the local end of the alarm inputs, alarm information will be generated , but also the corresponding linkage setting function. Note: Advanced button is same to the right click.

JF TECH	Record	Event	System A	dvanced Info
🖄 Motion Detect	Туре	IPC Alarm	🖃	
∰ Video Blind	Alarmin	All	Enable 🗹	Ν
🖉 Video Loss	Period	Set	MD Interval 1	Sec.
🛃 Alarm Input	Record Channel	12345		1 12 13 14 15 16
 Abnormality 	Tour PTZ Activation	1 2 3 4 5 Set	6 7 8 9 10 1 PostRec 10	1 12 13 14 15 16 Sec.
📮 Intelligent	Show Message Buzzer ETR uplead		Send Email 📃 Write Log	-
	FTP upload			
		Advanced	н ок	Cancel Apply

Figure 4.9 Alarm input

Setting method: refer to chapter "4.3.1."

4.3.5 Abnomality

Some current hardware and software analysis and detection equipment, and when there is an abnormal event is detected, the device responds accordingly, for example, the screen tips, buzzer, etc.

JF TECH	Record	event	System	Advanced	Info
⊠ Motion Detect ^Ш Video Blind	Event Type Enable	No Storage			
⊘ Video Loss 业 Alarm Input	Show Message Buzzer Send Email				
Abnormality Intelligent					
			ОК	Cancel	Apply

Figure 4.10exception handling

[Event Type] in the drop-down box to select the detection of abnormal

[Enable] Means open the exception handling feature.

[Show Message] screen on the local host screen, pop-up warning message prompt dialog box;

[Buzzer] when an alarm occurs, the device sends a "tick" sound long ring. [Send Email]: When an alarm is triggered, sends an alarm message to the specified mailbox, mailbox settings.

4.3.6 Intelligent

* Note: only part of the series of products with the features.

By analyzing video images, when the system detects an object reaches a preset algorithm rules, and when consistent with sensitivity and minimum image distance parameter settings that trigger an alarm video analysis, and enable linkage function.

* Only under fully analog channel mode / mixed-mode channel 1 supports this feature, and enable the alarm, the channel's video blind invalid.

JF TECH	Record	Event	System	Advanced	Info
🖄 Motion Detect	Channel	15 🔻	Enable		
반 Video Blind	Algorithm		Rule Get		
⊘ Video Loss	Period Record Channel	Set	MD Interval 1	Sec.	16
业 Alarm Input	Tour	12345	6 7 8 9 10	11 12 13 14 15	
Abnormality	PTZ Activation Show Message	Set	PostRec 10 Send Email	Sec.	
Intelligent	Buzzer FTP upload		Write Log		
		_			
		Advanced	ок	Cancel	Apply

Figure 4.11 Intelligent analysis

[Channel] show only "1", only a maximum resolution of D1 full analog channel mode / mixed-mode channel 1 support;

[Enable] ■ means, open intelligent analysis, select Enable, only the appropriate settings;

[Algorithms] in the drop-down box algorithm perimeter guard, care items, video diagnostics are three rules of selection to be tested;

[Rule] Choose a different algorithm rules, set interface its rules are also different; **Perimeter alert:**

Show traces of anti ■ means to enable the display tracks, that is, when this function is triggered, a red box will display a moving object boundary;

Sensitivity according to different needs, and its drop-down box, there are three optional parameters: high, medium, low;

The minimum movement distance can select from 0 to 30%, the minimum moving distance is smaller the more sensitive the alarm;

There are two kinds of ways alert mode: cordon and warning area. Cordon: it can be set up bi-ban, from top to bottom (left to right), from bottom to top (right to left) three kinds of prohibition direction (when cordon set inclination larger display is left to right / right to left, top to bottom, and vice versa for / from bottom to top), when the moving objects in line with the rules set by the cordon, an alarm will be generated; the warning area: it can be set up bi-ban, to enter, leaving three kinds of prohibited direction when moving objects set in line with the rules of the warning area, the alarm will be generated;

Rules Click Settings, enter the rule setting interface, right-click, click Add, use the mouse to determine two or more points in a straight line or after constitute an irregular area will pop prohibit direction option box, choose one direction later, right-click the mouse, click OK to return to the layer interface, click OK, alarm rules can be set; **Object care:**

[Show traces] anti ■ means to enable the display tracks, that is, when this function is triggered, a red box will display a moving object boundary;

Sensitivity according to different needs, and its drop-down box, there are three optional parameters: high, medium, low;

The minimum target size can vary from 0 to 30% by choice, the smaller the size of the target the more sensitive the alarm;

The maximum target size can choose from 1% to 100%, the greater the alarm target size more slow;

There are three kinds of ways alert mode: Item retention, move items stolen, illegal parking. Items retention: in the warning area, there appeared an object from scratch, and that meet the minimum size of the object image distance and other rules, there will be alarm occurs; articles Pirates shift: in the warning area, from there to the object, that is, the object disappears, and the minimum size of the object image distance and other rules, there will be alarm occurs; illegal parking: the alarm trigger similar items retention;

Rules Click Settings, enter the rule setting interface, right click the mouse, click Add, use the mouse to define a plurality of points constitute an irregular area, right-click the mouse, click OK to return to the layer interface, click OK, rules can be set alarm ;

Video Diagnosis:

[Sensitivity] according to different needs, there are three optional parameters: high, medium, and low;

[Detection Type] There are nine kinds of detection Type: anomaly detection brightness, sharpness detection, noise detection, and color cast detection, screen freeze detection, signal loss detection, scene change detection, human interference detection and PTZ runaway detection. According to the needs, select one or more types of video detection when the selected type of alarm will occur.

Arm and disarm period and linkage parameter settings: refer to chapter "4.3.1." Example: Enable video analysis algorithms for perimeter alert rules, rules for cordon alert mode, choose the direction of the bidirectional ban, when an object passes through the cordon, the alarm is triggered, specifically shown in Figure 4.16.

4.4 System settings

Including General, encoding, network, network services, Display, PTZ Config, Tour.

4.4.1 general settings

Click "" will pop up [general settings] dialog box, as shown in figure 5.12.

JE TECH		\odot	0	×	
JF TECH	Record	Event	System	Advanced	Info
🗇 General	Time Zone	[UTC+08:00]Beiji	ng,Urumqi,Taij	pei,Sir 🔻	
LZ Encode	System Time Date Format	2016 - 09 - 19			
	Date Format Date Separator	YYYY MM DD		51	
NetService	Time Format	24-HOUR			
	Language Storage Full	ENGLISH Verwrite			
_	DVR No.	0			
	Video Standard	PAL	•		
	Auto Logout	0	min		
🔾 Tour	Machine Name	LocalHost			
			ОК	Cancel	Apply

Figure 4.12 general settings

[Time Zone]: The default is CMT +8

[System time]: set the system time manually.

[Date Format]: provide Year Month Day/ Month Day Year/ Day Month Year three formats.

[Date separator]: Set the preview screen displays the date when the delimited format, provide a "-""." "/" three formats.

[Time Formate]: Select the time format of 12 or 24-hour two kinds, default is 24. [Language]: Set the system language, Simplified Chinese, Traditional Chinese, English and other 20 languages.

[Storage Full]: the hard disk is full, the measures taken by the camera.

Overwrite: TF card file overwrites the oldest video or capture full time to continue recording and capture.

Stop: TF card when you stop recording and capture video or capture full. [Video Standard]: Select the video format supports both PAL and NTSC formats. [NVR No.] for this machine with a remote control remote control multiple NVR occasions, only address key is pressed on the remote control and enter the remote locations and the local number corresponding NVR remote control to operate the same address.

[Auto Logout] can be set menu is not set standby time 0-60, 0 standby time; [Machine Name] can be set to the name of the device.

Start:	I>DST of Week Date May ▼ 1st ▼ Mon ▼ 01 : 01 Oct ▼ 1st ▼ Mon ▼ 01 : 01	
	OK Cancel	
	Figure 4.13 Daylight Saving Time (weeks) setting	
Genera		
Day Start: End:	y of Week Date	
	OK Cancel	
	Figure 4.14Daylight Saving Time (days) setting.	

4.4.2 Encoding settings

* When the product is set to mixed mode / full analog channel mode, the system will be set up in the encoding setting function, encoding settings can only function in an analog channel encoding settings.

Set the video / audio encoding parameters including video files, remote monitoring and other image parameters. The left part of each individual channel set encoding parameters, the parameters set on the right part of the secondary stream, dual-stream uses 1080P / 720P / 960H / D1 / HD1 / CIF / QCIF encoding rate of the stream all the way to high definition for local storage, support all the way to low bit rate stream (QCIF coding) for network transmission, taking into account local storage and remote network transmission. Dual-stream network bottlenecks in the existing balance between image quality and transmission quality, can break through the bottleneck of the network, the flexibility to select the format according to the network bandwidth stream, to local HD storage, while the rear end of the transmission of low stream networks. Note: The main application of the secondary stream is for multi-channel real-time monitoring, mobile monitoring under poor network.

JF TECH	Record	Event	System	Advanced	
General	Channel	1	•		
Z Encode	Compression	H.264	•	Extra Stream1	•
Elicode	Resolution	1080P	•	CIF	•
@ Network	Frame Rate(FPS)	12	•	12	•
NetService	Bit Rate Type	VBR	•	VBR	•
Herselvice	Quality	high	•	low	T
	Bit Rate(Kb/S)	2290	Ŧ	214	v
- RS232	I Frame Interval	2	•	2	T
	Video/Audio	\checkmark		~	
PTZ Config					
🕑 Tour	Coding mode	High Profile	•		
		Advanced	ОК	Cancel	Apply

Figure 4.15 encoding settings

[Channel] to select the channel number; display the corresponding channel information;

[Compression] coding standard H.264MP

[Resolution] as obtained from the front-end device connected to the encoded information;

[Frame Rate] can be adjusted, according to the acquisition front-end coding prevail, NVR, and front-end equipment will take effect after adjustment;

[Bit Rate Type] including Limited stream and variable stream;

[Quality] set the stream value to change the quality. In facilities allow, the bigger stream, the better the quality;

[Bit Rate] According to the code stream flow control and quality varied selection

[I frame Interval] selectable frame interval range 2-12s

[Video / Audio] icon when all of the highlighted video file to audio and video composite stream; auxiliary stream setting auxiliary stream mainly used for client monitoring, cell phone monitoring.

The resolution, frame rate, stream control, stream parameters is same with the independent channel parameter settings.

4.4.3 Network

Configure IP address, gateway, DDNS of NVR.

JF TECH	Record	Event	System	Advanced	Inf
General	Net Card	Wire Netcard	T DHCP Er	nable	
2 Encode	IP Address	192 · 168 ·	1 . 10]	
_	Subnet Mask		255 0		
O Network	Gateway Primary DNS	192 · 168 ·	1 · 1 6 · 6		
NetService	Secondary DNS	8 . 8 .	8 . 8		
	TCP Port	34567			
RS232	HTTP Port	80			
PTZ Config	HS Download Transfer Policy	Quality Preferre	• N		
🕞 Tour					
			OK	Cancel	App

Figure 4.16 network settings

[DHCP Enable]: The NVR is connected to the router which DHCP is open; then NVR will automatically obtain an IP address.

[IP Address]: The IP address of the NVR is used to login network, the default is: 192.168.1.10.

[Subnet Mask]: Set the NVR's subnet mask, to be consistent with the login computer, default is 255.255.255.0.

[Gateway]: Set the default gateway of the NVR to be consistent with the login computer, the default is 192.168.1.10.

[Primary DNS]: Set the NVR's DNS , to be consistent with the login computer, DNS incorrectly can cause XM Cloud function does not work properly.

[TCP port]: Set the NVR's TCP port, the default port is: 34567.

[HTTP port]: Set the NVR's HTTP port, the default port is: 80.

[HS download] Network speed downloads.

[Transfer Policy]: Set the network transmission strategies, adaptive / quality priority / smooth priority / network transmission priority four kinds of policy options.

Adaptive: when network bandwidth is small, the preview screen automatically jump to sub-stream, to ensure smooth preview.

Quality Priority: Whether the network bandwidth is large enough, the preview screen is always displayed in the main stream, when the bandwidth is not enough screen will delay.

Smooth priority: Under no circumstances reduce the frame rate, encoder settings change, reducing the size of the stream, to ensure smooth screen.

4.4.4 Network Services

Configure PPPoE and other functions of the NVR.

	VE	
	JF TECH	Record Event System Advanced Info
	General General	NetService Net Server Info
		PPPoE D:
	Z Encode	NTP 0: NTP:60 EMAIL 0: Your SMTP Server:25
	@ Network	IP FILTER 0: :0 :0 DDNS DDNS Set Invalid
	NetService	DDNS DDNS Set Invalid FTP 0: FTP
		ARSP AlarmServer 0:
	—	Wireless Config Not enabled
	RS232	UPNP 0 Wifi Not enabled
	PTZ Config	RTSP 1:554
	O Tour	Cloud Probing DNS
		OK Cancel Apply
		Figure 4.17 network services
PPOE s	ettings]:	
	NetServic	e > PPPoE
	Freehle	
	Enable	
	User Nam	le name
	Password	abc
	IP Addres	s 0 · 0 1 · 0 · 0
		OK Cancel
		Figure 4.18 PPPoE
	ble: Anti 🔳 mea	
		et Service Provider) to provide the PPPoE username and
•	-	e system after saving. After starting the NVR will automatically
		connection to the PPPoE mode, after the success, IP [IP
	-	pmatically modify the dynamic WAN IP address obtained.
		OE dialing successfully, view IP [IP address] on, get the current
IP a	ddress, and then	uses this IP address to access the device via the client.

[NTP]:

NetService > N	ſP		
Enable	\checkmark		
🔵 🔘 Custom 🥥	auto		
Server IP	NTP 😼]	
Port	123]	
Update Period	60	min	
		ок 🛛	Cancel
	Figure 4.19NTP set	ttings	
It required install the NTI		J	
Enable: Anti 🔳 means,	select Enable, set to take	effect.	
Server IP: Enter installed	NTP server PC IP;		
Port: The default NTP po	rt 123, the port settings ca	an be based on ac	tual NTP server;
Update Period: the same	NTP server check interva	l, the default is 10) minutes.
[Email]:			
Set the e-mail addresses	for NVR sent and received	d alarm informatio	on.

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	

- ♦ [SMTP server]: Log mailbox to query entry method SMTP server in mailbox settings.
- ♦ [Port]: The mail server port number;
- ♦ [Need SSL]: consistent with the mailbox configuration, you can log in to view the mailbox into the mailbox settings.
- ♦ [User Name]: Only fill in email address before the @.
- ♦ [Password]: Password for the user name of the application.
- ♦ [Sender]: Set the message sender EMAIL address.
- [Receiver]: You can set up to three e-mail address, separated by a semicolon, can outbox the same e-mail address.
- ✤ [Title]: subject of the message, you can set your own.

[IPFilter]

When choosing the white list, the list represents only the IP to connect this NVR. A list of supported 64 IP settings;

When selecting the blacklist, represents a list of the IP network cannot be landed this NVR. A list of supported 64 IP settings;

You can tick check, delete the set IP.

Note: When the black and white list, have the same IP address blacklist authority higher priority.

	NetService > IP FILTER
	Enable Restricted Type Blacklist 0 0 0 Add
[DDNS]	Delete OK Cancel Figure 4.21IP rights settings
	NetService > DDNS
	DDNS Type CN99 Enable Domain Name your.3322.org abc User Name
	Password
	OK Cancel

Figure 4.22 DDNS settings

It is the abbreviation of dynamic domain name server.

- ♦ [Domain name]: Provide the domain name registered by DDNS.
- \diamond [User name]: Provide the account registered by DDNS.
- \diamond [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 settings]

FTP is used when there is an alarm generated, or the alarm linkage video, capture pictures, you can upload to a specified FTP server specific video and capture pictures.

NetService > FTF			
Enable			
Server IP	FTP		
Port	21		
User Name	admin]	
Password	•••••	Anonymous	
Max File Length	128	МВ	
DirName			
	N		
	4		
	Test	ок	Cancel
	Figure 4 22ETD cot	tings	

Figure 4.23FTP settings

[Enable]: Anti 🔳 means, select Enable, set to take effect;

[Server IP]: IP address of the FTP server;

[Port]: FTP port number field when built, the default port 21;

[User name]: have permission to log onto the FTP user name;

[Password]: The user's password;

[Anonymous]: Anti
means, chose to be anonymous, you do not need to set the user name and password;

[Max File Length]: Each package upload files maximum length, default is 128M;

[DirName]: file directory to upload files.

Note: The username is entitled to upload files to the server.

[ARSP]

By setting, you can start DDNS Sever add the device to the DDNS server for device management

NetService > AF	RSP
Туре	DNS
Enable	
Server IP	abc
Port	15000
User Name	None
Password	
Update Period	5 min
	OK Cancel
	Figure 4.24ARSP
[Type]: Select the DNS	
[Enable]: Anti 🔳 means	s, select Enable, set to take effect;
[Server Ip]: IP address of	
	er corresponding DDNS server "service listening port";
	ame of the device login DDNS server;

[Password]: The password corresponding to the user name; [Update Period]: Equipment and DDNS synchronization interval

Note: before using the need to build DDNS Server

[Alarm Server]

After an alarm, it report alarm information to alarm server.

NetService > Al	larmServer	
Protocol Type	GENERAL	
Enable	\checkmark	
Server Name	AlarmServer	
Port	15002	
Alarm report	✓	
Log report		
	OK Can	cel
	Figure 4.25 alarm center	
[Protocol type] GENERAL		
[Enable] Means sele [Server Name] IP addres	ected, select Enable, set to take effect;	
[Port] port number of th		
	anti means, reported to the police information to th	ie
server;		
	eans, reported to the server log information.	

[3G settings]

Dial-up Internet access through 3G card, implement client access device, configure the device

Enable Type	EVDO		
Wireless AP Dial Number User Name Password	ChinaNet #777 ctnet@mycdma.ci	Ŀ\$	
IP Address	0 · 0 · 0 · 0		

Figure 4.26 3G settings

[Enable]: Anti ■ means, select Enable, set to take effect;
[Type]: Dial type, default automatic
[Wireless AP]: 3G access point, the default can
[Dial number]: 3G dial number, the default can
[User name]: Dial 3G username
[Password]: dial the user's password
[IP address]: The IP address of the dial-up number to get

[UPNP]

UPNP protocol can forward automatically on the router.

NetService >	UPNP			
Enable HTTP Port TCP Port Mobile Port	 ✓ 0 0 0 			
Make sure U	PNP is	running on	router,befo	ore using this
			ок	Cancel

Figure 4.27 UPNP settings

[Enable] ■ means, open the UPNP feature, select the Enable, set to take effect; [HTTP Port]: router for the device is automatically assigned port numbers, IE browser, the need to add the port number to access;

[TCP Port]: When the router is automatically assigned port for the device, client software monitoring required by the port number;

[Mobile port]: router for the device is automatically assigned port numbers, mobile phone monitoring needs through the port number;

[WIFI]

Connect to the wireless router via the wireless module. To access the device via IP, provided the use of this feature is that the NVR has access to WIFI module.

SSID	Authentication	n Signal
	Search	
Enable 🗹 D SSID	AP350	
Password		
IP Address	192 · 168 · 1 · 12	2
Subnet Mask	255 · 255 · 255 · 0)
Gateway	192 • 168 • 1 • 1	1
		OK Cancel

Figure 4.28 WIFI settings

[Search]: Click [Search] button to search out available within the current range of the wireless device;

[Enable]: Anti 🔳 means to select the Enable before setting;

[DHCP Enable]: Anti <a>means, select Enable, the device will automatically get WIFI in the IP;

[SSID]: Wireless LAN name; automatically match your connected wireless devices; [Password]: Wi-Fi router's password;

[IP address]: Set the device's IP address, default: 192.168.1 9

[Subnet Mask]: Set the device subnet mask, default: 255.255.255.0

[Default Gateway]: Set the device's default gateway, default: 192.168.1.1

[RTSP]

∻

Monitoring via cross-browser (Safari, Firefox, Google chrome), and VLC software. These functions only for monitor but cannot control the device.

	NetService > RTSP	
	Enable 🖌 Port 554	
		OK Cancel
-	Figure 4.29 RTSP	

- [Enable]: means enable, tick it firstly before setting.
- \diamond **(**Port **)**: the default port is 554

[CLOUD]

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

	NetServi	ce > Clou	d					
	Enable MTU	✓ 1280		Byte				
					оĸ	С	ancel	
♦	able 】 Select		-	e 4.30 Cloud				

4.4.5 GUI Display

Configure the video output parameters including time display, record status, transparency, resolution etc.

JF TECH	Record Event System	nfo
C Contra	Channel Title Set Time Display Channel Title	
@ Network	Record Status 🧹 Alarm Status 🖌 Deflick 🖌 Transparency 175	
NetService	Resolution 1280°1024 V	
DISPLAY RS232	Channel 1 T	
⊖ PTZ Config	Time Display 🧹 Channel Title 🖌 Set	
🕞 Tour		
	OK Cancel A	pply

Figure 4.31 GUI display

- 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.

- ☆ 【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.

4.4.6 RS485

JF TECH	Record	Event		System	Advanced	Info
 ♂ General [2] Encode 	Channel	PTZ Device	▼	RS485 Devi	ce	
@ Network	control method Protocol Address	all PELCOD	•	NONE	▼	
NetService DISPLAY	Baudrate Data Bits	9600	▼ ▼	9600	v	
	Stop Bits Parity	1 None	• •	1 None	· · · · · · · · · · · · · · · · · · ·	
PTZ Config Tour						
				ОК	Cancel	Apply

Figure 4.32 RS485

- ♦ [Protocols]to select the protocols (e.g.: Dahua);
- ♦ [Address] set to the appropriate address, the default is 1;
- [Baudrate] equipment used to select the appropriate baud rate, the default is 115200;
- ♦ [Data bits], including 5-8 option, the default is 8;
- ♦ [Stop bits] there are two options 1 and 2, the default is 1;
- [Parity] points odd parity, even parity, mark parity, space parity, the default is none.

4.4.7 port settings

* Some products do not support this feature

JF TECH	Reco		Event	System	Advanced	Info
General	Function	NONE	▼			
Z Encode	Baudrate Data Bits	11 5200 8	▼ ▼			
@ Network	Stop Bits	1				
NetService	Parity	None	▼			
	R					
📼 RS232						
⊖ PTZ Config						
🕞 Tour						
				ОК	Cancel	Apply

Figure 4.33 port settings

- ☆ 【Function】 Common serial port is used to debug and update program or set up specific serial port.
- ♦ 【Baudrate】 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.

4.4.8 Tour

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

JF TECH	Record	Event	System	Advanced	Info
⊘ General	Enable Tour	~			
Z Encode	MD Interval View 1	5	Sec.	9 10 11 12 13	14 15 16
@ Network	View 4 View 8	123		9 10 11 12 13	14 15 16
NetService	View 9 View 16	12			
	Alarm Tour Type				
RS232	MD Interval Return after finished	5	Sec.		
⊖ PTZ Config					
O Tour					
			ок	Cancel	Apply

Figure 4.34 touring settings

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

☆ 【Alarm Tour Type】 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) .

4.5 Advanced

Including Storage, Account, Online User, Import/Export, Upgrade, AutoMaintain, Restore, Digital

4.5.1 Storage

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 cannot write data. Redundant Disk: Double backup the video files in the write-read disk.

VE		>>>	\bigcirc	(K	
JF TECH		Record	Event	System	Advanced	Info
📼 Storage 🛛 🔓	0	Storage No.	Туре	Status	Sto	Read/Write
옷 Account						Read only
,옷, Online User						Redundant
/l⊮ Import/Export						ormat Storage
☆ Upgrade						Recover
☑ AutoMaintain						Partition
C Restore						
Digital		<u> </u>		_		
						Cancel

Figure 4.35 Storage Management

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, and 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 cannot be the same. Each user only belongs to one group.

JF TECH		Record	Event	System	Advance	
		Record	Event	System	Auvan	
🖂 Storage	2	User Name	Group		Status	Modify User
옷 Account	1 2	☐ admin ☐ default	admin user		GUI Default Use	Modify Group
옷 Online User						Modify Pwd
1 Import/Export				2		Add User
						Add Group
1 Upgrade						Delete User
AutoMaintain						Delete Group
C Restore						Update
Digital						
						Cancel

Figure 4.36 Account

[Modify User]: Modify the user name has been added, whether reuse, notes, group, class, and permissions.

[Modify Group]: group name has been added to modify the user group, notes and permissions.

[Modify Password]: modify user login password.

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

JF TECH

Account > Modify Pwd	
User Name admin 🗸	
Old	
New	
Confirm	
OK Canc	el
Figure 4.37 Modify password	
[Add user]: Set new user name, password, notes, owning group, permissions and ot	her
information, can add up to 64 user names.	

	Accol	int > A	dd User					
	User № Passv Confir	Vame vord m			abc seable			
	Memo							
	GROU	IP	admin	▼				
	57				Authority			
	1		nutdown the	device)			
	2		nannel Title					
	3		chedule					
	4		ackup					
4	5		DD Managen	nent				
	6		count					
	7		uery System					
	8		uery Log Info	>				
	9	CI 🗌	ear Log					
						ок	C;	ancel

Figure 4.38 Add user

[Add Group]: Set the group name new user group, notes, permissions and other information.

	Account > /	Add Group
	Name	abc
	Memo	
	57	Authority
		Shutdown the device
		Channel Title
		Backup
		IDD Management
		ccount
	1 1	Query System Info
		Query Log Info Clear Log
		System Update
		uto Maintain
		General Config
	13 🗌 T	our、Spot Config
		OK Cancel
		Figure 4.39 Add group
[Delete L	Jser]: delete th	ne selected user, the user cannot delete the registry.
_	-	re selected user, the user cannot delete the registry.
	iroup]: delete	the selected user group, when the group contains a user group
	iroup]: delete e deleted.	the selected user group, when the group contains a user group
	iroup]: delete e deleted.	
	iroup]: delete e deleted.	the selected user group, when the group contains a user group
	iroup]: delete e deleted.	the selected user group, when the group contains a user group t > Delete Group
	Group]: delete e deleted. Account	the selected user group, when the group contains a user group t > Delete Group
	e deleted. Account	the selected user group, when the group contains a user group t > Delete Group admin admin
	e deleted. Accoum GROUP Name	the selected user group, when the group contains a user group t > Delete Group
	e deleted. Accoum GROUP Name	the selected user group, when the group contains a user group t > Delete Group admin admin
	e deleted. Accoum GROUP Name	the selected user group, when the group contains a user group t > Delete Group admin admin
	e deleted. Accoum GROUP Name	the selected user group, when the group contains a user group t > Delete Group admin admin
	e deleted. Accoum GROUP Name	the selected user group, when the group contains a user group t > Delete Group admin admin
	e deleted. Accoum GROUP Name	the selected user group, when the group contains a user group t > Delete Group admin admin
	e deleted. Accoum GROUP Name	the selected user group, when the group contains a user group t > Delete Group admin admin

Figure 4.40 delete group

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

User Name	IP	Login Type
admin	192.168.19.15	Web
		Disconnect Cancel

Figure 4.41 Online user

4.5.4 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.



JF TECH	Record	Event	System	Advanced	
📼 Storage	Device Name				
은 Account	LOG				
終 Online User		Log_2016091913	32.zip	Exp	ort
1⊮ Import/Export D	े Set				
① Upgrade	File Name	Cfg_D42A5146_2	201609191332.cfg		
🖂 AutoMaintain	File Name			▼ Imp	ort
C Restore					
Digital					
-	Fig	ure 4.42 impo	ort/export		
JF TECH	Fig	ure 4.42 impo	ort/ export		
V	***	Event	I	Advanced	
JF TECH	Record Upgrade from Upgrade Posit	USB	I	V	
JF TECH	Record Upgrade from	USB	I		
Storage	Record Upgrade from Upgrade Posit	USB	I	V	
© Storage ⊗ Account ⊗ Online User 1 Import/Export ∴ Upgrade	Record Upgrade from Upgrade Posit	USB	I	V	
© Storage ⊗ Account ⊗ Online User 1 Import/Export	Record Upgrade from Upgrade Posit	USB	I	V	
Storage Storage Account Conline User I Import/Export Cupgrade	Record Upgrade from Upgrade Posit	USB	I	V	
Storage Account Account Online User Import/Export Upgrade AutoMaintain	Record Upgrade from Upgrade Posit	USB	I	V	

Figure 4.43 Upgrade

【Upgrade】 choose USB interface.

【Upgrade file】 choose the upgrade file.

4.5.6 AutoMaintain

4.5.5

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

JETECH		\bigcirc	()	×	
JFIECH	Record	Event	System	Advanced	Info
🖂 Storage	Auto-Reboot System	m			
옷 Account	Every Tuesday Auto-Delete Old File	▼ at 01:0 es	00 🔽		
옷 Online User	Never	•			
∕l⊮ Import/Export					
① Upgrade					
P AutoMaintain					
C Restore					
Digital					
			ок	Cancel	Apply
	Figure				

4.5.7 Restore

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

Viel			56	A CAR	
JF TECH	Record	Event	Syste	m Advanced	Info
📼 Storage	Please select s	etting entries the	it you want i	o default.	
옷 Account	Select all General	Encode	_		
沢 Online User	Record Conf.	Alarm Set			
1⊮ Import/Export	Network	NetService			
小 Upgrade	R\$232				
🖂 AutoMaintain	0				
C Restore					
Digital					
			_		
			0	OK Cancel	App

Figure 4.45 Restore

4.5.8 Channel manage

Channel management including digital channel, channel status, and channel mode.(note: under full-analog mode, there is only channel mode selection)

	Digital channels Cr	nannel status	ChannelType
Digital channe	Figure 4.4	e/ full-digital mode 6 channel manage]
同 S	Channel 9 Time Sync Time and Time 1 Connection mode Single connect Network Configuration list 0 Configur. name Device Ty	Enable Decode Order Middle Synchronization resolution	hannel
	Add Delete	Advanced	Cancel

Figure 4.47 digital channel

- ♦ 【Channel】 select channel title
- ♦ 【Enable】 Open digital channel, tick enable, then can do related settings
- ♦ 【Time Sync】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;
- \diamond 【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

Configur. name Device Type	chConfig01	Protocol	NETIP]
IP Channel	1	-		1
Device address	192.168.1.20		Network	
Port	34567			
User Name	admin	Password]
0 Devic	e Name D	evice Info.	IP Address	Port

Figure 4.48 Remote access configurations

- Configure Name device is with default configure title, user can revise it if necessary;
- C Device Type 3 types: IPC, NVR, HVR, user can choose as what you like, default is IPC;
- ♦ 【Protocol】 There are two protocols: NTEIP and ONVIF, the default is NETIP;
- 【IP channel】 User can input remote channel title from the device that you want to connect remotely;
- Control Con
- ♦ 【Port】 Default is 34567
- ♦ 【User name】 Default is admin
- [password]] default is blank
 Note:

1. In Figure 4.47, the protocol search drop-down box on the left side, there are three, namely NETIP, ONVIF, the whole, the user can choose according to demand, click search it will search for the corresponding protocol online device.

2. Click the Search button, the following will show the device as shown in the search to 4.48, the user can double-click the device IP connections want according to their needs, and you can add the device. At this point in Figure 4.47 device address and port the appropriate changes, and the user name and password is still the default parameters, the user must be entered manually.

3. Double-click the discovered devices, network setup in Figure 4.47 by graying light, click the button; you can just add the device to the network settings shown in Figure 4.48.

IP channel config wizard > Network

IP Address 192 168 19 15 Subnet Mask 255 255 255 0 Gateway 192 168 19 1 User Name admin
Gateway 192 · 168 · 19 · 1 User Name admin
User Name admin
Password
Auto assigned OK

Figure 4.49 network settings

Channel Status:

Channel status is to show the status of the entire digital channel when there is what existing, status including Max Resolution, This Resolution, and Connection Status. The channel status as 4+2 mode:

Channel	Stream	Mainstream/Sub-Stream	Connection Status
D09	1080P	Unknown	NoConfig
D10	1080P	Unknown	NoConfig
D11	1080P	Unknown	NoConfig
D12	1080P	Unknown	NoConfig
D13	1080P	Unknown	NoConfig
D14	1080P	Unknown	NoConfig
D15	1080P	Unknown	NoConfig
D16	1080P	Unknown	NoConfig
		ß	

Figure 4.50 Channel Status

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).

Channel mode:

Dig				
		IF	, lè	
	1080P	960P	ЗM	5M
V				
		8		
	8	8		
		16		
				4
			4	
	back chan			
Maxi	mum num	ber of preview:	16	
			ок	Cancel
		Figure 4.51	Channel Type	

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.

4.6 System 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.

	ecord	Event		System	Advanced	Info
SATA	12					
	 т	ype (Capacity	Left Capa	icity S	tatus
		2				
				View reco	ording times	Cancel
			SATA 1 2 Type 0	SATA 1 2 Type Capacity	SATA 1 2	SATA 1 2 Type Capacity Left Capacity S

Tips: O 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 needs to change the damaged hard disk, you must shut down the NVR 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.

JF TECH	Record		Event	System	Advanced	Info
[,'] HDD Info	Channel	Kb/S	MB/H	Channel	Kb/S	MB/H
II BPS ☐ LOG ① Version	1 2 3 4 5 6 7 8	31 50 50 50 49 48 49	6 10 10 10 10 10 10	9 10 11 12 13 14 15 16	31 49 48 49 31 31 31 31 31	6 10 10 6 6 6 6

Figure 4.53 BPS

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, and 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.

JF TECH	Reco	ord Event	System	Advanced	Info
	_		-		
[,] HDD Info	Туре	All	·		
	Start Time	2016 - 09 - 19	00 : 00 : 00		Pre Pa
II BPS	End Time	2016 - 09 - 20	00 : 00 : 00	Ĩ	Next Pa
🗹 LOG	120 Log	Time	Туре	LOG	
	1 201	6-09-19 08:49:52	save system state	2016-9-18 15:	20:13
☆ Version	2 201	6-09-19 08:49:52	Log In	default <gu⊳< td=""><td></td></gu⊳<>	
	3 201	6-09-19 08:50:53	Log In	Wrong userna	me or pas
	4 201	6-09-19 08:50:59	Log In	Wrong userna	ame or pas
ß	5 201	6-09-19 08:51:06	Log In	Wrong userna	ame or pas
	6 201	6-09-19 08:51:12	Log In	Wrong userna	ame or pas
	7 201	6-09-19 08:51:15	Log In	Account Has I	Been Lock
	8 201	6-09-19 08:53:09	Log In	Account Has I	Been Lock
	9 201	6-09-19 08:54:19	Log In	Account Has I	Been Lock
	10 201	6-09-19 08:56:32	Log In	Account Has I	Been Lock
	<u> </u>		1		

4.6.4 Version

Figure 4.54 LOG

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

Record Event Advanced Info [] HDD Info Record Channel 16 System V4.02.R11.D42A5146.12201.141500.00000 IT BPS Build Date 2016-09-14 17:49:06 MAC 0012156d60e0 C LOG SerialNo 428e4f4892b4c503 Status 1 Version 144 Nat status Probing DNS Nat status code 0:/0 OK

Figure 4.55 version

4.7 Shut down system

Refer to chapter 3.5.8.



5.Remote Cloud Operating Instructions

5.1 Cloud surveillance

Cloud technology allows the device to achieve one step to Internet, which greatly facilitates the customers to monitor the public network. The technology access the device through the serial number.

* Note: Support for cloud technology equipment required to be in the public domain is available within the cloud monitoring.

5.1.1 Check the cloud connection status

After the device is connected to external networks, you can check through [main menu]> [System]> [Version], If the Nat Status is "Connected", then it means the device is connecting to the cloud server successfully.

5.1.2 Log in cloud server

Log http://cloud.jufenginfo.com, Pop up the login screen, which has login by user and log in by the device two ways, the customer can demand their own choices login.

* Note: The first time according to login by user, you need to register.

	Welcome	Install ActiveX 👯 AP	'P Download	
	User login	O Device login		
	Q Username			
	Password			
	Remember	Verify	1672	
-		ogin and Preview		
	0		() Guider	
	Ŵ			
4	Regis	ster Forget Password?		

Figure 5.1 Log in

5.1.3 Log in by user

After the customer entering username and password, the following screen pops up:

Ĺ	FENG	My Devices	User Info	Device Manage	English(English) 👻 xm- 🕒
Re	efresh State				
Test1	\$	1			
Test2	\$				
		32			
		It wil	l download the	Click "My Devices" to view config and playback component automatically to your computer. Please wait a moment as visiting time!	

Figure 5.2 cloud technology interface

Device Management:

Mainly used to add devices to be monitored, click Add, to add serial number of the device.

FENG	My Devices User Info Device Mana	ge	English(En	alish) 🔻 xm- 🗗
Device Ma	nage			+ Add
NO.	SerialNO.	Device Name	Username	Operation
1	d28c19c01a53add6	Test1	admin	面
2	af26f82a0fbf1543	Test2	admin	面
SerialNO. Device Name				
Username	admin		(default is "admi	n")
Password			(default is null)
				Ok Cancel

Figure 5.4Add device

* Note: the user name in Figure 5.5 is the user name of monitoring equipment; device password refers to the appropriate device user's password.

My device:

The main display device name added to the Device Manager, click on the success of the devices connected to the server name, you can access to monitor the device.

	My Devices Us	er Info Device	Manage		Engli	sh(English) 👻	xm-wdd 🗗
Refresh State	Playback	Log	DeviceClg LocalClg	Log Out			
Test2		No. 0 0 <td></td> <td></td> <td></td> <td>Vertical and the second second</td> <td></td>				Vertical and the second	

		Welcome Install ActiveX 🐺 APP Download
		O User login
		SerialNO.
	9	Username
		A Password
		Remember Verify 2647
		Login and Preview
		() Guider
		Register Forget Password?

Figure 5.5 surveillance screen

Enter the serial number of the device to monitor and verify the code after the direct monitoring equipment.

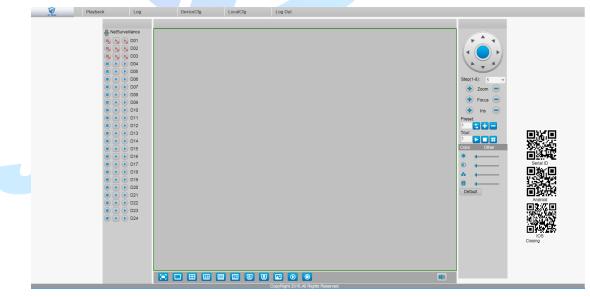


Figure 5.7 surveillance screen

6.FAQ and maintenance

6.1 FAQ

If your problem is not the content of the following, please contact your local customer service staff or call the customer service consulting headquarters, we will be happy to serve you.

Q: When turned on, the NVR does not start properly

A: Possible reasons:

- Input power is not correct
- Switching power line contact is not good
- Switching Power Supply bad
- Program Upgrade Error
- Hard disk is damaged or hard-line issue
- Front panel fault
- NVR bad motherboard

Q: A few minutes after starting the NVR will automatically reboot or frequent crashes A: Possible reasons:

- Input voltage is unstable or too low
- Hard disk has bad sectors or bad hard line
- Switching power supply power is not enough
- Front-end video signal instability
- Adverse heat, too much dust, the machine is too harsh operating environment
- > NVR hardware failure

Q: System cannot detect hard disk.

A: Possible reasons are as followed:

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

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

A: Possible reasons are as followed:

- > The program is not matched. Please update the program.
- > The image brightness is all 0. Please restore the default setup.
- > There is no video input signal or the signal is too weak.
- > The channel protection or the screen protection is set.
- The hardware of the NVR is damaged.

Q: I cannot find the video files in local playback mode.

A: Possible reasons are as followed:

- > The data line of the hard disk is damaged.
- > The hard disk is damaged.

- Update the different program with the origin program files.
- > The video files to look up are covered.
- > The recording is not on.

Q: The local video is not clear.

A: Possible reasons are as followed:

- > The image quality is too bad.
- > The reading program is wrong. Reboot up the NVR.
- > The data line of the hard disk is damaged.
- > The hard disk is damaged.
- > The hardware of the NVR is damaged.

Q: There is no audio signal in the surveillance window.

A: Possible reasons are as followed:

- It is not an active tone arm.
- It is not an active sound box.
- The audio lines are damaged.
- > The hardware of the NVR is damaged.

Q: There is audio signal in the surveillance window but mo audio signal in the playback state.

- A: Possible reasons are as followed:
 - Setting issues: the audio option is not chosen.
 - > The according channel is not connected with the video.

Q: The time is wrong.

- A: Possible reasons are as followed:
 - Setting is wrong..
 - > The battery is in bad connection or the voltage is too low.

The oscillation is damaged.

Q: The NVR cannot control the PTZ.

A: Possible reasons are as followed:

- > There is something wrong with the frontal PTZ.
- > The setting, connection or the installation of the PTZ decoder is not correct.
- The connections are not correct.
- The PTZ setting of the NVR is not correct.
- > The protocols of the PTZ decoder and the NVR are not matched.
- The address of the PTZ decoder and the NVR are not matched.

> 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.

The distance is too far.

Q: the motion detect is not working,

A: Possible reasons are as followed:

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

Q: I cannot login via web or CMS.

A: Possible reasons are as followed:

The system is Windows98 or Winme. We recommend updating to windows 2000sp4 or higher Version or installing the software for low edition.

- ActiveX is hold back.
- > The version is not exceeded dx8.1. Update the display card driver.
- Network connection failure.
- Network setting issues.
- Invalid password or user name.
- > The CMS is not matched the NVR program version.

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

- A: Possible reasons are as followed:
 - Network is not stable.
 - The user machine is resource limited.
 - Choose the play-in-team mode in the network setup of NVR.
 - > The region shelter or channel protection is set.
 - The user has no surveillance purview.
 - > The real-time image of the hard disk recording machine itself is not clear.

Q: Network connection is not stable.

A: Possible reasons are as followed:

- Network is not stable.
- > IP address is conflicted.
- MAC address is conflicted.
- > The net card of the NVR is bad.

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

A: Possible reasons are as followed:

- The rewritable machine and the hard disk are shared the same data lines.
- The data is too much. Please stop recording and backup.
- > The data exceeds the backup storage.
- > The backup equipment is not compatible.
- The backup equipment is damaged.

Q: The keyboard cannot control the NVR.

A: Possible reasons are as followed:

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

Q: Alarm cannot be recessional.

A: Possible reasons are as followed:

- > The setting of the alarm is not correct.
- > The alarm output is turned on manually.
- > The input machine is damaged or the connections are not correct.

> There are some problems for specific program edition, Please update the program.

Q: Alarm is not working.

A: Possible reasons are as followed:

- The setting of the alarm is not correct.
- > The connection of the alarm is not correct.
- The alarm input signal is not correct.
- A alarm is connected with two loops synchronously.

Q: the remote controller is not working,

A: Possible reasons are as followed:

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

Q: The storage time is not enough.

A: Possible reasons are as followed:

➢ Front vision quality is bad. The lens is too dirty. The Videocon is in backlighting installation.

- The hard disk capability is not enough.
- The hard disk is damaged.

Q: The downloading files cannot play.

A: Possible reasons are as followed:

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

Q: I cannot remember the advanced password or network code in the local menu operation.

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

Q: Cannot see the preview picture the digital channel

A: Possible reasons are as followed:

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

Q: Click "search" why not search out any of the device.

- A: Possible reasons are as followed:
 - > There is no other device exist in the Local area network
 - > The subnet masks setting incorrectly on Network settings.

Q: The snapshot at alarm function was enable, why not catch picture

- A: Possible reasons are as followed:
 - > HDD manage without partition for snapshot.
 - Partition for snapshot is 0
 - > The snapshot function is not enabled on record-> storage of related channel.

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

A: Enable the time synchronous function of digital channel.

Q: Cannot see preview picture of analog channel

- A: Possible reasons are as followed:
 - > The camera did not connect to video interface
 - The device did not connect to video source
 - Video source is broken.

Q: Picture will be frozen when multi-connection and shift devices.

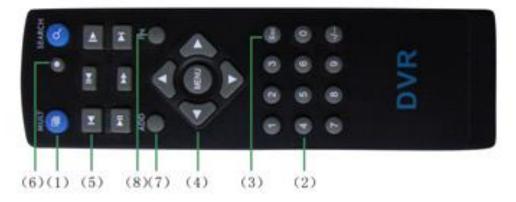
A: Picture come out from digital channel need few seconds, shift device means to show new picture, so it needs several seconds to buffer.

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 NVR 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 NVR. 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 NVR away from heat resource.
- 7. Please keep the NVR ventilated for better heat radiator.
- 8. Please check the system and maintain regularly.



Appendix I Remote controller operation



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

*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 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		
Tright click	Current shortcut menu in the menu		
Press middle	Add or subtract number in the number setting		
button	Switch the items in the combo box		
batton	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 III Hard disk capability calculation

Make sure the hard disk installed to the NVR 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 NVR 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