

NVR Series Quick Start Guide

V4.0.0

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Welcome

Thank you for purchasing our NVR!

This quick start guide is designed to be a reference tool for the installation and operation of your system.

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

Please keep it for future reference!

Important Safeguards and Warnings

1 . Electrical safety

All installation and operation here should conform to your local electrical safety codes.

The product must be grounded to reduce the risk of electric shock.

We assume no liability or responsibility for all the fires or electrical shock caused by improper handling or installation.

2 . Transportation security

Heavy stress, violent vibration or water splash are not allowed during transportation, storage and installation.

3 . Installation

Keep upwards. Handle with care.

Do not apply power to the NVR before completing installation.

Do not place objects on the NVR.

4 . Qualified engineers needed

All the examination and repair work should be done by the qualified service engineers.

We are not liable for any problems caused by unauthorized modifications or attempted repair.

5 . Environment

The NVR should be installed in a cool, dry place away from direct sunlight, inflammable, explosive substances and etc.

This series product shall be transported, storage and used in the specified environments.

6. Lithium battery

Improper battery use may result in fire, explosion, or personal injury!

When replace the battery, please make sure you are using the same model!

7. Accessories

Be sure to use all the accessories recommended by manufacturer.

Before installation, please open the package and check all the components are included.

Contact your local retailer ASAP if something is broken in your package.

1 Installation and Connections

Note: All the installation and operations here should conform to your local electric safety rules.

1.1 Check Unpacked NVR

When you receive the NVR from the forwarding agent, please check whether there is any visible damage. The protective materials used for the package of the NVR can protect most accidental clashes during transportation. Then you can open the box to check the accessories. Please check the items in accordance with the list. Finally you can remove the protective film of the NVR.

1.2 Front Panel

1.2.1 NVR 6000/6064 Series

For the product of LCD, the front panel is shown as below. See Figure 1-1.

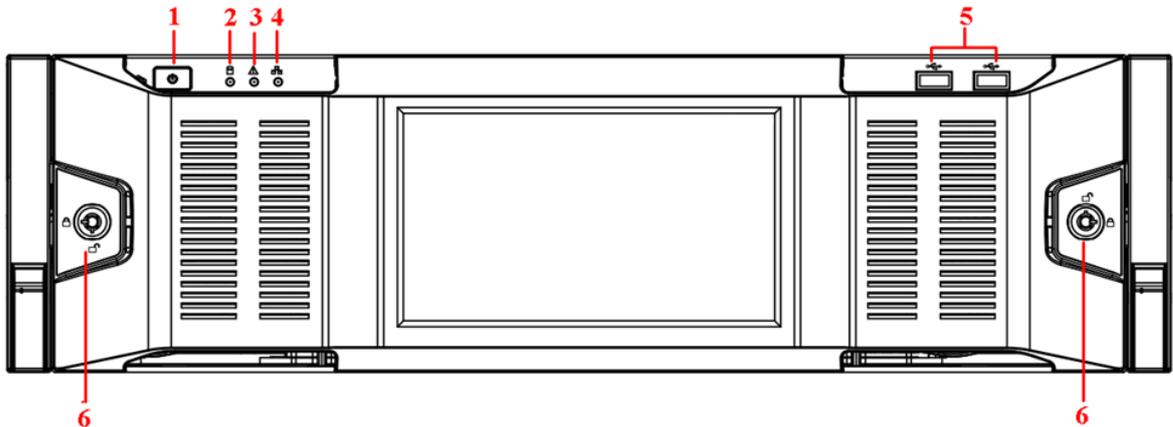


Figure 1-1

Please refer to the following sheet for front panel button information.

SN	Name	Function
1	Power button	Press it once to turn on the device. Press it for a long time to turn off the device. (Usually we do not recommend) . Press power button for a long time or pull out the power cable may result in device auto restart.
2	System HDD Indicator light	The blue light flashes when system is reading or writing the system HDD. In the system HDD, there are device important configuration file, factory default configuration file, and device initial boot up data.
3	Alarm indicator light	The alarm indicator light becomes on once an alarm occurred. It becomes on via the software detection. The alarm includes local alarm, no disk and etc.
4	Network	The network indicator light is blue and it flashes when you connect the

	indicator light	device to the network.
5	USB port	/
6	Front panel lock	/

Another front panel, it is shown as in Figure 1-2.

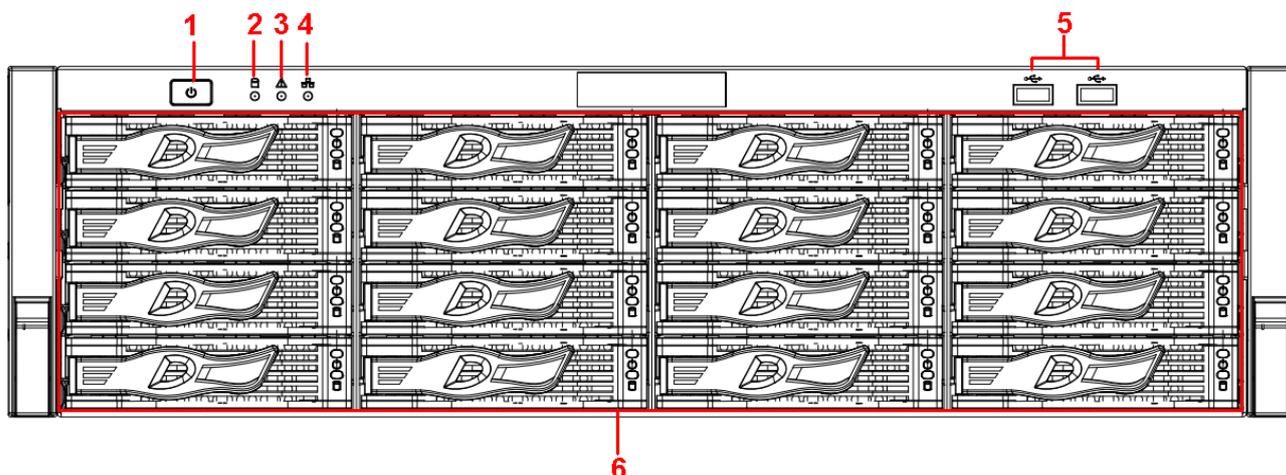


Figure 1-2

Please refer to the following sheet for detailed information.

SN	Name	Function
1	Power button	Press it once to turn on the device. Press it for a long time to turn off the device (Usually we do not recommend). Press power button for a long time or pull out the power cable may result in device auto restart.
2	System HDD Indicator light	The blue light flashes when system is reading or writing the system HDD. In the system HDD, there are device important configuration file, factory default configuration file, device initial boot up data.
3	Alarm indicator light	The alarm indicator light becomes on once an alarm occurred. It becomes on via the software detection. The alarm includes local alarm, no disk and etc.
4	Network indicator light	The network indicator light is blue and it flashes when you connect the device to the network.
5	USB port	/
6	16 HDD slot	/

After you remove the front panel, you can see there are 16 HDDs. From the left to the right and from the top to the bottom, it ranges from 1~4, 5~8, 6~12, 13~16. See Figure 1-3.

You can see there are two indicator lights on the HDD bracket.

- The power indicator light is at the top. The light is yellow after you connected the device to the power.
- The read-write indicator light is at the bottom. The blue light flashes when system is reading or writing the data.

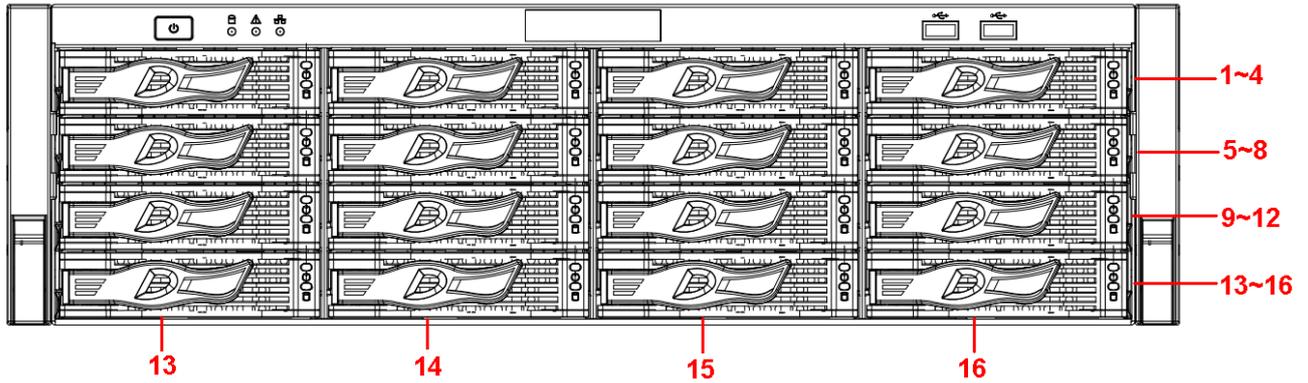


Figure 1-3

1.2.2 NVR 600 Series

The front panel is shown as in Figure 1-4.

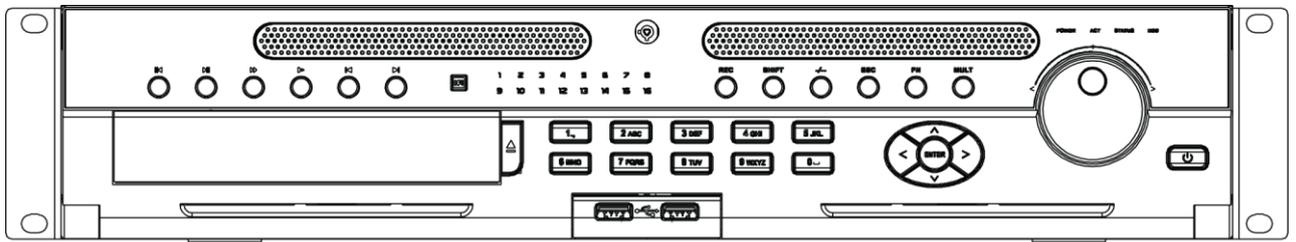


Figure 1-4

Please refer to the following sheet for detailed information.

Name	Icon	Function
Power button		Power button, press this button for three seconds to boot up or shut down NVR.
Number button	0-9 and etc	Input Arabic number Switch channel
Record	REC	Manually stop/start recording, working with direction keys or numeral keys to select the recording channel.
Input number more than 10	-/-	If you want to input a number more than 10, please click this button and then input.
ESC	ESC	Go to previous menu, or cancel current operation.
		When playback, click it to restore real-time monitor mode.
Assistant	Fn	One-window monitor mode, click this button to display assistant function: PTZ control and image color.
		Backspace function: in numeral control or text control, press it for 1.5seconds to delete the previous character before the cursor.

		In motion detection setup, working with Fn and direction keys to realize setup.
		In text mode, click it to switch between numeral, English character(small/capitalized) and etc.
		In HDD management interface, you can click it to switch HDD record information and other information (Menu prompt)
		Realize other special functions.
Window switch	Mult	Click it to switch one-window/multiple-window.
Shift	↑	In textbox, click this button to switch between numeral, English(Small/Capitalized),donation and etc.
		Enable or disable tour.
Up/ Down	▲ ▼	Activate current control, modify setup, and then move up and down.
		Increase/decrease numeral.
		Assistant function such as PTZ menu.
Left/ Right	◀ ▶	Shift current activated control, and then move left and right.
		When playback, click these buttons to control playback bar.
Slow play	▶	Multiple slow play speeds or normal playback.
Fast play	▶▶	Various fast speeds and normal playback.
Play previous	◀	In playback mode, playback the previous video.
Reverse/Pause	 ◀	In normal playback or pause mode, click this button to reverse playback In reverse playback, click this button to pause playback.
Play Next	▶	In playback mode, playback the next video
Play/Pause	▶ 	In normal playback click this button to pause playback. In pause mode, click this button to resume playback. In backward playback or pause mode, click this button to resume normal playback. In real-time monitor mode, click this button to go to the search menu.
Enter	ENTER	Confirm current operation
		Go to default button

		Go to menu
Shuttle(outer ring)		In real-time monitor mode it works as left/right direction key. Playback mode, counter clockwise to forward and clock wise to backward.
Jog(inner dial)		Up/down direction key. Playback mode, turn the inner dial to realized frame by frame playback. (Only applies to some special versions.)
USB port		To connect USB storage device, USB mouse and etc.
Channel indicator light	1-16	It becomes on when system is recording.
IR Receiver	IR	It is to receive the signal from the remote control.
Power indicator light	POWER	Power indicator light.
Remote control indicator light	ACT	Remote control indicator light.
Status indicator light	STATUS	If there is Fn indicator light, current status indicator light is null.
HDD abnormal indicator light	HDD	The indicator light is on when there is no HDD, HDD error occurred or HDD capacity is below specified threshold value.

1.2.3 NVR 724 Series

The front panel is shown as in Figure 1-5.

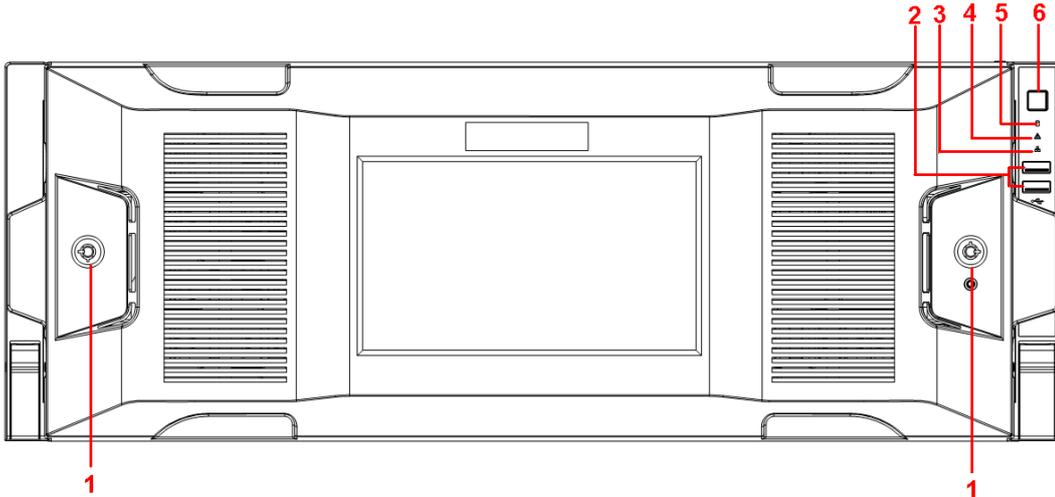


Figure 1-5

SN	Icon	Name	Function
1		Front panel lock	/
2		USB port	/
3		Network indicator light	The network indicator light is blue and it flashes when you connect the device to the network.
4		Alarm indicator light	The alarm indicator light becomes on once an alarm occurred. It becomes on via the software detection. The alarm includes local alarm, no disk and etc.
5		System HDD Indicator light	The blue light flashes when system is reading or writing the system HDD. In the system HDD, there are device important configuration file, factory default configuration file, device initial boot up data.
6		Power button	Press it once to turn on the device. Press it for a long time to turn off the device (Usually we do not recommend). Press power button for a long time or pull out the power cable may result in device auto restart.

After you remove the front panel, you can see there are 24 HDDs. From the left to the right and from the top to the bottom, it ranges from 1~4, 5~8, 9~12, 13~16, 17~20, 21~24. See Figure 1-6.

You can see there are two indicator lights on the HDD bracket.

- : The power indicator light is at the top. The light is yellow after you connected the device to the power.
- : The read-write indicator light is at the bottom. The blue light flashes when system is reading or writing the data.

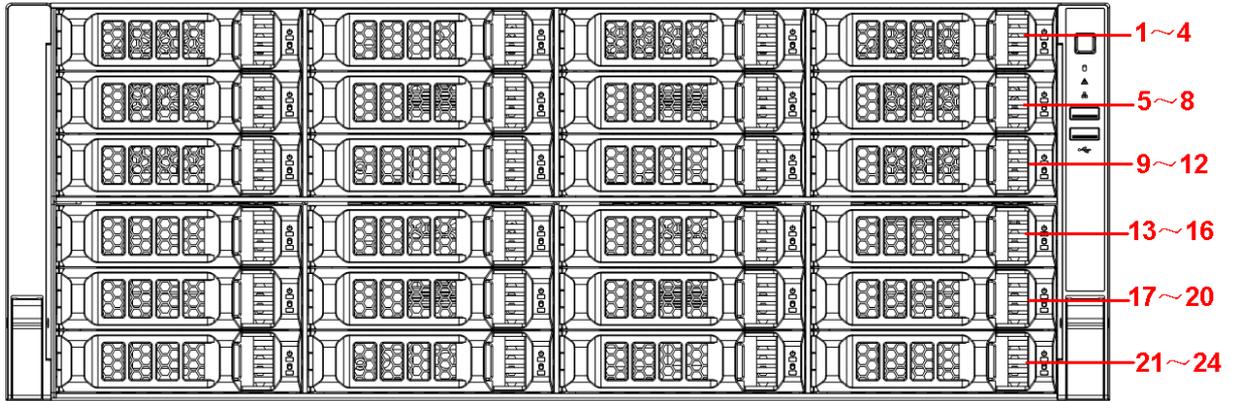


Figure 1-6

1.3 Rear Panel

1.3.1 NVR 6000/6064 Series

The general series rear panel is shown as in Figure 1-7.

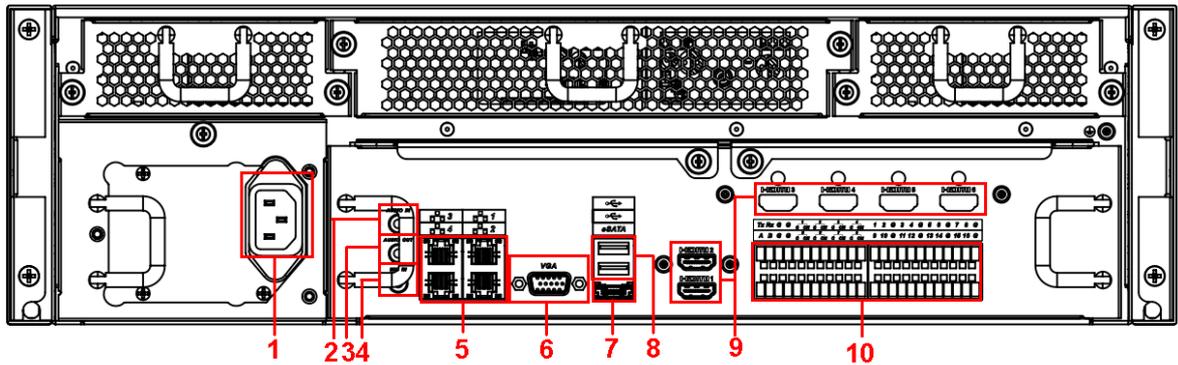


Figure 1-7

The redundant power series rear panel is shown as in Figure 1-8.

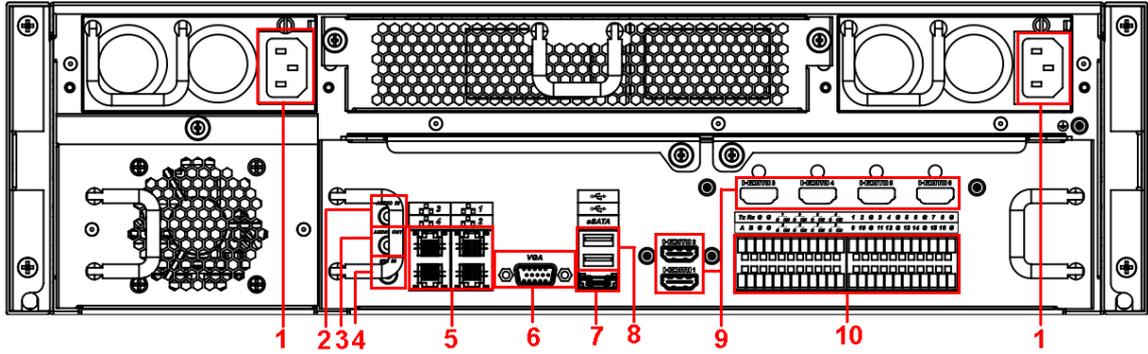


Figure 1-8

Please refer to the following sheet for rear detailed information.

SN	Function	SN	Function
1	Power socket	6	Video VGA output
2	Audio Input	7	eSATA port
3	Audio output	8	USB port
4	Bidirectional talk input	9	HDMI port
5	Network port	10	Alarm input, alarm output, RS485 port.

Important

Right now, system does not support audio input port. System supports HDMI1/HDMI2 port by default. You need to purchase HDMI interface board if you want to use HDMI3-HDMI6 port.

1.3.2 NVR 600 Series

The NVR608 general series rear panel is shown as in Figure 1-9.

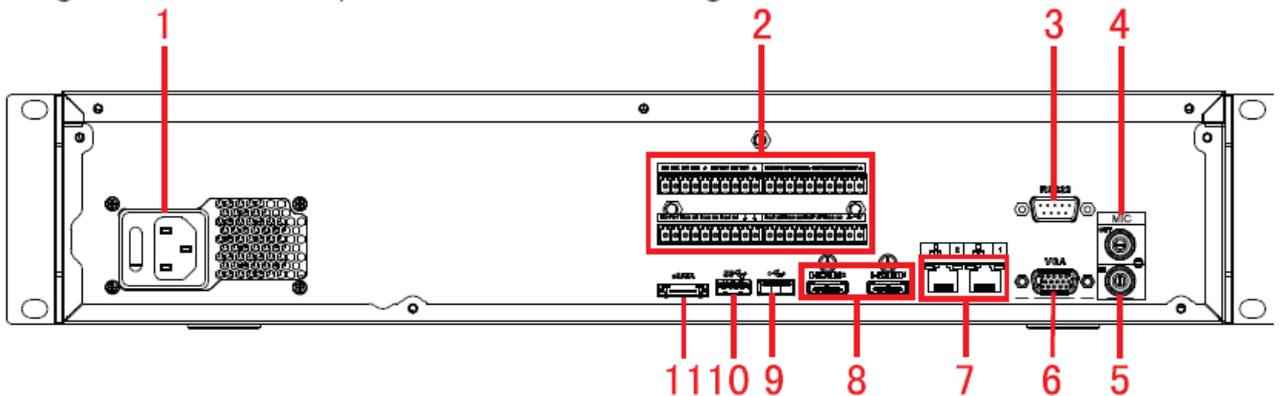


Figure 1-9

The NVR608 redundant power series rear panel is shown as in Figure 1-10.

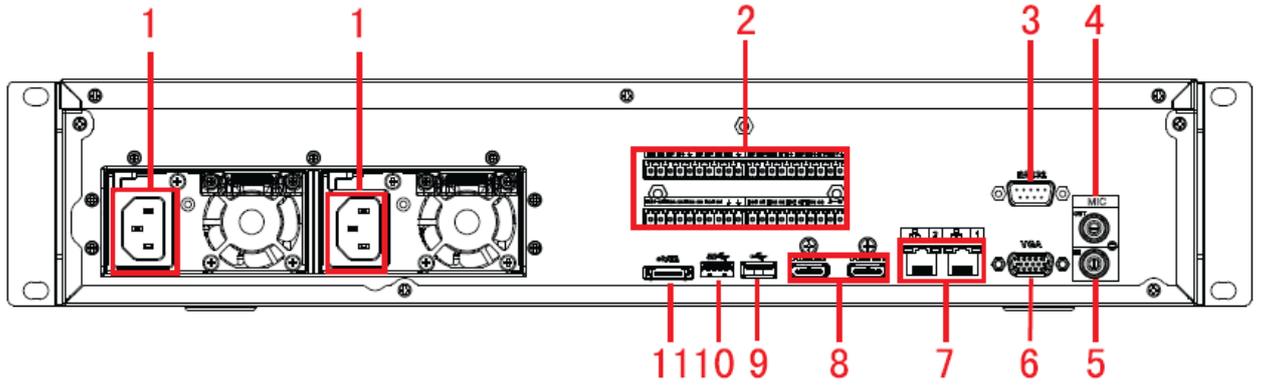


Figure 1-10

Please refer to the following sheet for detailed information.

SN	Function	SN	Function
1	Power socket	7	Ethernet port
2	Alarm input, alarm output, RS485 port.	8	HDMI port
3	RS232 port	9	USB 2.0 port
4	Audio output	10	USB 3.0 port
5	Audio input	11	eSATA port
6	VGA port		

1.3.3 NVR 724 Series

The general rear panel is shown as in Figure 1-11.

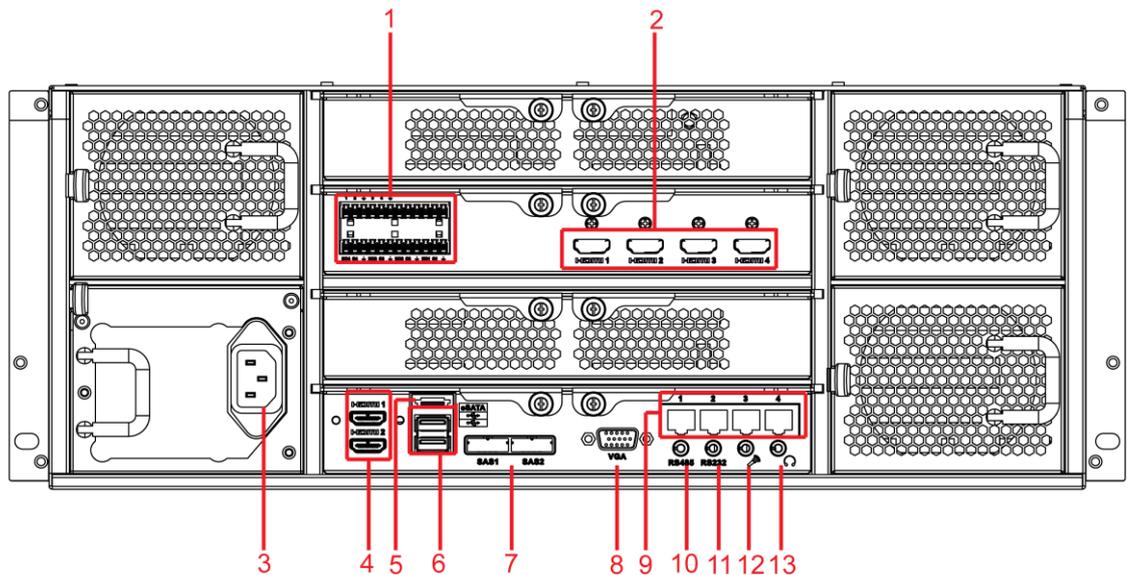


Figure 1-11

The redundant power series rear panel is shown as in Figure 1-12.

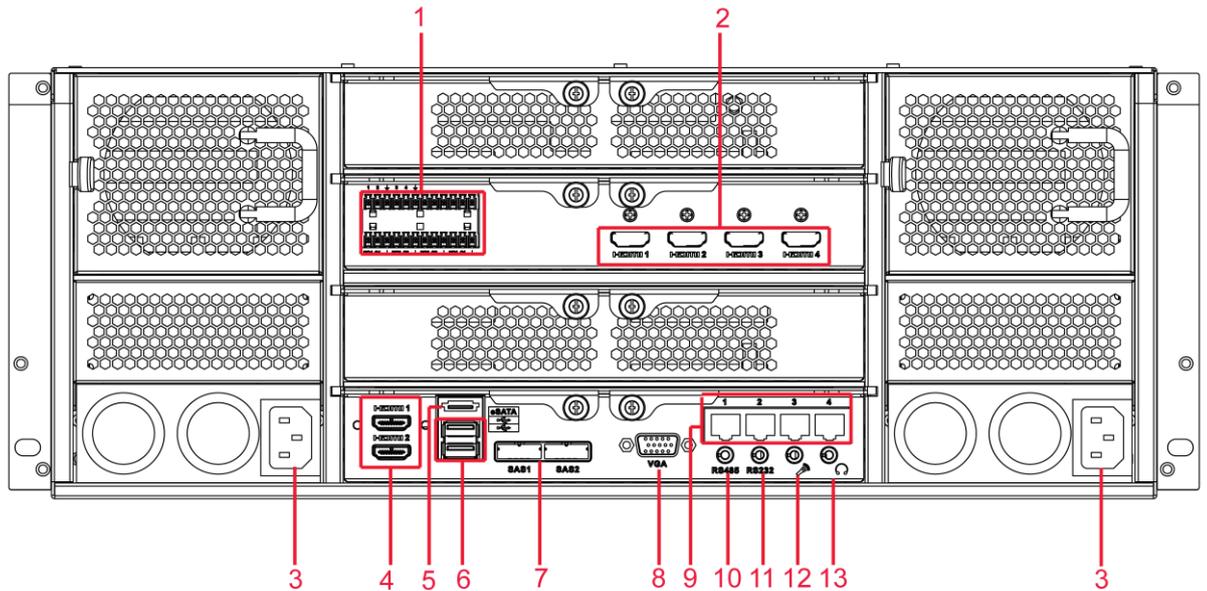


Figure 1-12

Please refer to the following sheet for detailed information.

SN	Name	SN	Name
1	Alarm input/alarm output	2	HDMI port (Reserved port. Right now system does not support HD decode card.)
3	Power port	4	HDMI port
5	eSATA port	6	USB port
7	SAS port	8	Video VGA output
9	Network port	10	RS485 port
11	RS232 (RS422) port	12	Audio input port
13	Audio output port		

1.4 Alarm Input and Output Connection

Please refer to the following sheet for alarm input and output connection.

There are two alarm input types for you to select: normal open (NO) and normal close (NC).

1. Alarm input

- a. Please make sure alarm input mode is grounding alarm input.
- b. Grounding signal is needed for alarm input.

- c. Alarm input needs the low level voltage signal.
- d. Alarm input mode can be either NC (normal Open) or NO (Normal Close)
- e. When you are connecting two NVRs or you are connecting one NVR and one other device, please use a relay to separate them.

2. Alarm output

The alarm output port should not be connected to high power load directly (It shall be less than 1A) to avoid high current which may result in relay damage. Please use the co contactor to realize the connection between the alarm output port and the load.

3. Please make sure the front-end device has soundly earthed.

Improper grounding may result in chip damage.

1.4.1 Alarm Input and Output Details

1.4.1.1 NVR 6000/6064 Series

You can refer to the following sheet for alarm input and output information. See Figure 1-13.

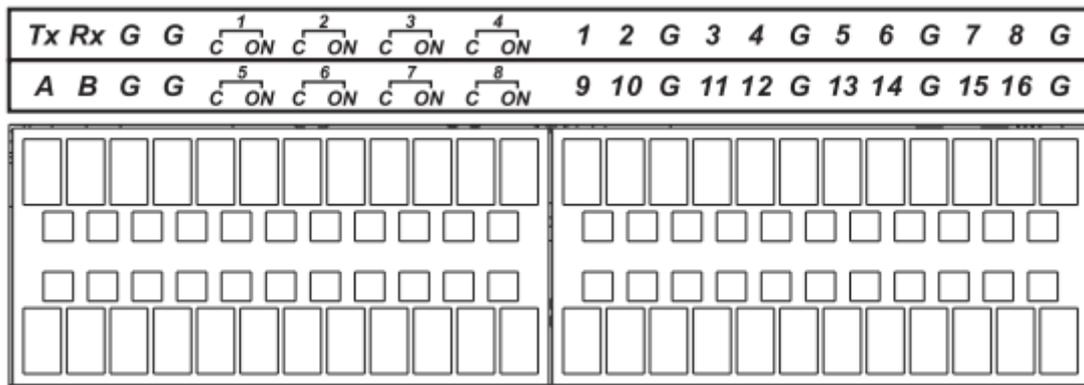


Figure 1-13

Icon	Note
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	ALARM 1 to ALARM 16. The alarm becomes active in low voltage.
1-ON C, 2-ON C, 3-ON C, 4-ON C, 5-ON C, 6-ON C, 7-ON C, 8-ON C	Eight groups of normal open activation output (on/off button)
G	GND cable.
A/B	The A/B cable to control the RS485 devices. It is to connect to control decoder such as the recorder.
Tx and Rx	RS232 port. Tx is the data output cable and the Rx is the data input cable.

1.4.1.2 NVR 608 Series

You can refer to the following sheet for alarm input and output information. See Figure 1-14.

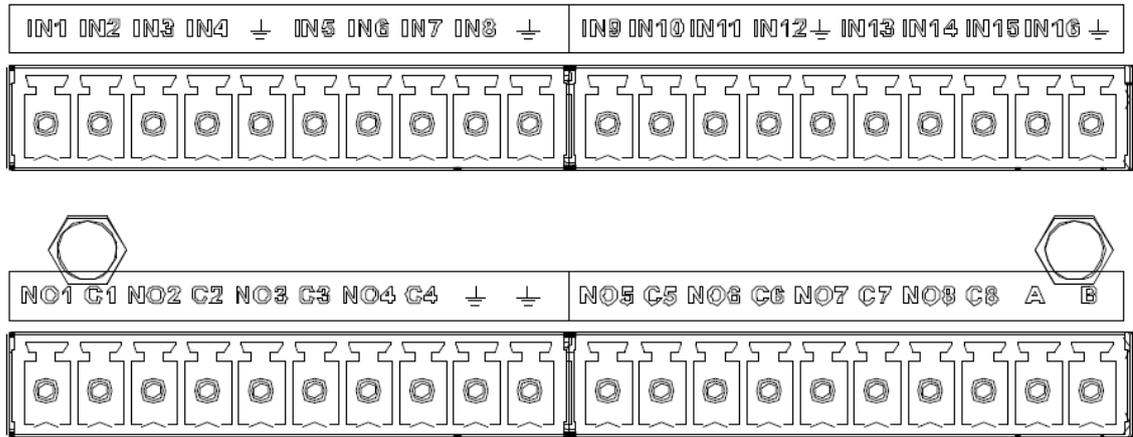


Figure 1-14

Icon	Note
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	ALARM 1 to ALARM 16. The alarm becomes active in low voltage.
1-ON C, 2-ON C, 3-ON C, 4-ON C, 5-ON C, 6-ON C, 7-ON C, 8-ON C	Eight groups of normal open activation output (on/off button)
⊥	GND cable.
A/B	The A/B cable to control the RS485 devices. It is to connect to control decoder such as the recorder.

1.4.1.3 NVR 724 Series

You can refer to the following sheet for alarm input and output information. See Figure 1-15.

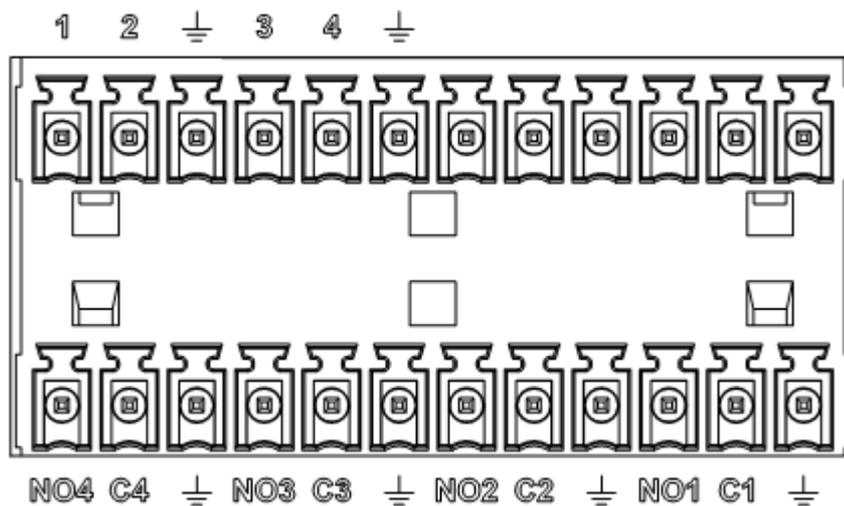


Figure 1-15

Icon	Note
1~4	ALARM 1 to ALARM 4. The alarm becomes active in low voltage.
NO1 C1, NO2 C2, NO3 C3, NO4 C4	Four groups of normal open activation output (on/off button)
	GND

1.4.2 Alarm Input Port

Please refer to the following sheet for more information.

- Grounding alarm inputs. Normal open or Normal close type)
- Please parallel connect COM end and GND end of the alarm detector (Provide external power to the alarm detector).
- Please parallel connect the Ground of the NVR and the ground of the alarm detector.
- Please connect the NC port of the alarm sensor to the NVR alarm input(ALARM)
- Use the same ground with that of NVR if you use external power to the alarm device.

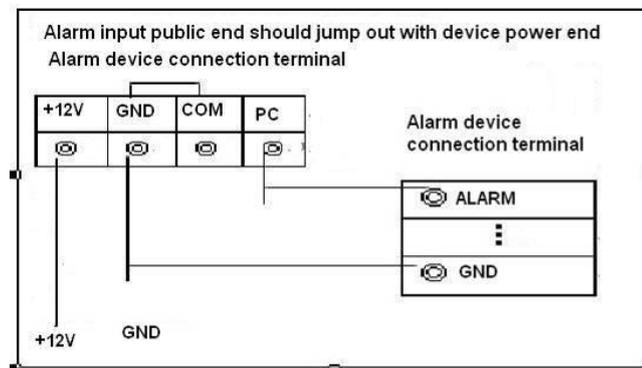


Figure 1-16

1.4.3 Alarm Output Port

- Provide power to peripheral alarm device.
- To avoid overloading, please read the following relay parameters sheet carefully.
- RS485 A/B cable is for the A/B cable of the PTZ decoder.

Relay Specification

Model:		JRC-27F
Material of the touch	Silver	
Rating (Resistant Load)	Rated switch capacity	30VDC 2A, 125VAC 1A
	Maximum switch power	125VA 160W
	Maximum switch voltage	250VAC, 220VDC
	Maximum switch current	1A
Insulation	Between touches with same polarity	1000VAC 1minute

	Between touches with different polarity	1000VAC 1minute
	Between touch and winding	1000VAC 1minute
Surge voltage	Between touches with same polarity	1500V (10×160us)
Length of open time	3ms max	
Length of close time	3ms max	
Longevity	Mechanical	50×10 ⁶ times (3Hz)
	Electrical	200×10 ³ times (0.5Hz)
Temperature	-40°C ~+70°C	

2 Overview of Navigation and Controls

2.1 Boot up



Before operation, please make sure:

- You have properly installed HDD and all the cable connections.
- The provided input power and the device power are matched.
- Always use the stable current, if necessary UPS is a best alternative measure.

Please follow the steps listed below to boot up the device.

- Connect the device to the monitor and then connect a mouse.
- Connect power cable.
- Click the power button at the front or rear panel and then boot up the device. After device booted up, the system is in multiple-channel display mode by default.

2.2 Login

After system booted up, system pops up the startup wizard interface. See Figure 2-1.

Please refer to the user's manual for detailed startup wizard operation information.

Tips

Check the box Startup button here, system goes to startup wizard again when it boots up the next time.

Cancel the Startup button, system goes to the login interface directly when it boots up the next time.



Figure 2-1

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

System consists of four accounts:

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

You can use USB mouse, front panel, remote control (not included in the accessory bag) or keyboard to input. About input method: Click  to switch between numeral, English character (small/capitalized) and denotation.

Note:

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

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

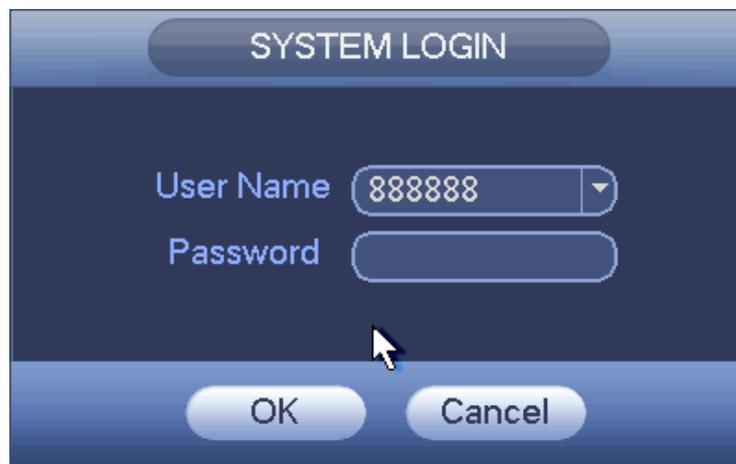


Figure 2-2

2.3 Preview

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

1		Current channel pops up this icon when it is recording.	3		Current channel pops up this icon when video loss alarm occurs.
2		Current channel pops up this icon when motion detect alarm occurs.	4		Current channel pops up this icon when it is in monitor lock status.
5		System exceeds decoded channel amount.			

Tips

- Preview drag: If you want to change position of channel 1 and channel 4 when you are previewing, you can left click mouse in the channel 1 and then drag to channel 4, release mouse you can switch channel 1 and channel 4 positions.
- Use mouse middle button to control window split: You can use mouse middle button to switch window split amount.

Preview control interface

Move your mouse to the top centre of the video of current channel, you can see system pop up the preview control interface. See Figure 2-3. If your mouse stays in this area for more than 6 seconds and has no operation, the control bar automatically hides.

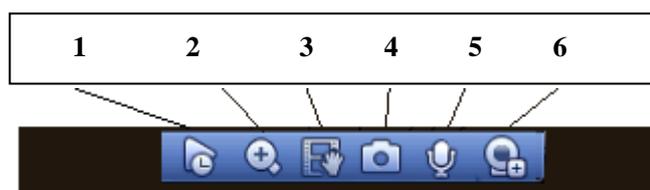


Figure 2-3

You can refer to the following sheet for detailed information.

SN	Name
1	Realtime playback
2	Digital zoom
3	Instant backup function
4	Snapshot
5	Bidirectional talk
6	Remote device

2.4 Search & Playback

Click search button in the main menu, or right click mouse and then select Search button when you are previewing, search interface is shown as below. See Figure 2-4.

Usually there are three file types:

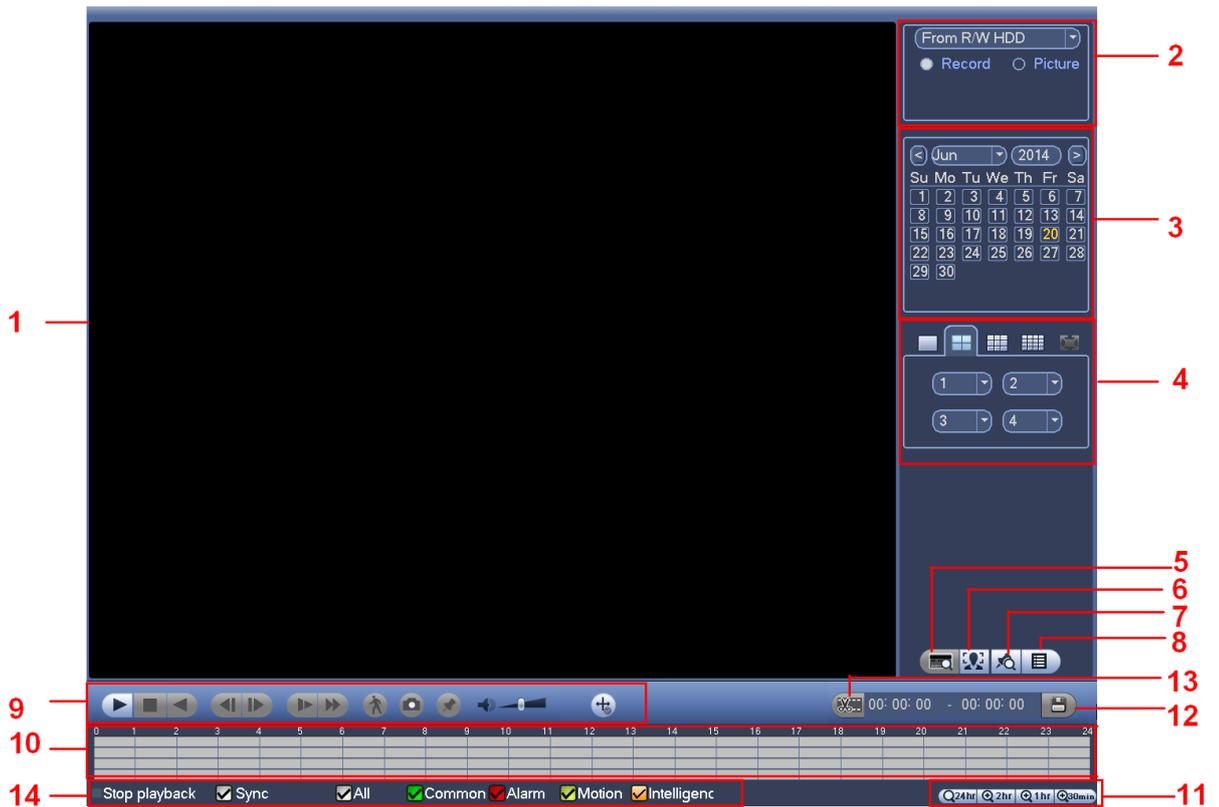
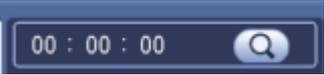


Figure 2-4

Please refer to the following sheet for more information.

SN	Name	Function
1	Display window	<ul style="list-style-type: none"> ●Here is to display the searched picture or file. ●Support 1/4/9/16-window playback.
2	Search type	<ul style="list-style-type: none"> ●Here you can select to search the picture or the recorded file. ●You can select to play from the read-write HDD, from peripheral device or from redundancy HDD. ●Before you select to play from the peripheral device, please connect the corresponding peripheral device. You can view all record files of the root directory of the peripheral device. Click the Browse button; you can select the file you want to play. <p>Important</p> <ul style="list-style-type: none"> ●Redundancy HDD does not support picture backup function, but it supports picture playback function. You can select to play from redundancy HDD if there are pictures on the redundancy HDD.
3	Calendar	<ul style="list-style-type: none"> ●The blue highlighted date means there is picture or file. Otherwise, there is no picture or file. ●In any play mode, click the date you want to see, you can see the corresponding record file trace in the time bar.
4	Playback mode	<ul style="list-style-type: none"> ●Playback mode: 1/4/9/16. (It may vary due to different series.) ◇ In 1-window playback mode: you can select 1-16 channels.

	and channel selection pane.	<ul style="list-style-type: none"> ✧ In 4-window playback mode: you can select 4 channels according to your requirement. ✧ In 9-window playback mode, you can switch between 1-8 and 9-16 channels. ✧ In 16-window playback mode, you can switch between 1-16 and 17-32 channels. <p>●The time bar will change once you modify the playback mode or the channel option.</p>
5	Card number search	<p>The card number search interface is shown as below. Here you can view card number/field setup bar. You can implement advanced search.</p> <p>Current series product does not support this function.</p>
6	Face list	It is for 1-channel mode only. Click it, system can filter all human faces and create a file list. Double click the file to playback the corresponding record or image.
7	Mark file list button	Click it to go to mark file list interface. You can view all mark information of current channel by time. You can refer to user's manual for detailed information. Please note only the product of this icon supports mark function.
8	File list switch button	<ul style="list-style-type: none"> ●Double click it, you can view the picture/record file list of current day. ●The file list is to display the first channel of the record file. ●The system can display max 128 files in one time. Use the ◀ and ▶ or the mouse to view the file. Select one item, and then double click the mouse or click the ENTER button to playback. ●You can input the period in the following interface to begin accurate search. ●File type: R—regular record; A—external alarm record; M—Motion detect record.  <ul style="list-style-type: none"> ●Lock file. Click the file you want to lock and click the button  to lock. The file you locked will not be overwritten. ●Search locked file: Click the button  to view the locked file. ●Return: Click button , system goes back to the calendar and channel setup
9	Playback control pane.	 / <p>Play/Pause There are three ways for you to begin playback.</p> <ul style="list-style-type: none"> ● The play button ● Double click the valid period of the time bar. ● Double click the item in the file list. <p>In slow play mode, click it to switch between play/pause.</p>
		 <p>Stop</p>
		 <p>Backward play In normal play mode, left click the button, the file begins backward play. Click it again to pause current play.</p>

			In backward play mode, click ►/ to restore normal play.
			In playback mode, click it to play the next or the previous section. You can click continuously when you are watching the files from the same channel. In normal play mode, when you pause current play, you can click ◀ and ▶ to begin frame by frame playback. In frame by frame playback mode, click ►/ to restore normal playback.
			Slow play In playback mode, click it to realize various slow play modes such as slow play 1, slow play 2, and etc.
			Fast forward In playback mode, click to realize various fast play modes such as fast play 1, fast play 2 and etc.
			Note: The actual play speed has relationship with the software version.
			Smart search
			The volume of the playback
			Click the snapshot button in the full-screen mode, the system can snapshot 1 picture. System supports custom snap picture saved path. Please connect the peripheral device first, click snap button on the full-screen mode, you can select or create path. Click Start button, the snapshot picture can be saved to the specified path.
			Mark button. Please note this function is for some series product only. Please make sure there is a mark button in the playback control pane. You can refer to user's manual for detailed information.
10	Time bar		<ul style="list-style-type: none"> ●It is to display the record type and its period in current search criteria. ●In 4-window playback mode, there are corresponding four time bars. In other playback mode, there is only one time bar. ●Use the mouse to click one point of the color zone in the time bar, system begins playback. ●The time bar is beginning with 0 o'clock when you are setting the configuration. The time bar zooms in the period of the current playback time when you are playing the file. ●The green color stands for the regular record file. The red color stands for the external alarm record file. The yellow stands for the motion detect record file.
11	Time bar unit		<ul style="list-style-type: none"> ●The option includes: 24H, 12H, 1H and 30M. The smaller the unit, the larger the zoom rate. You can accurately set the time in the time bar to playback the record. ●The time bar is beginning with 0 o'clock when you are setting the configuration. The time bar zooms in the period of the current playback time when you are playing the file.
12	Backup		<ul style="list-style-type: none"> ● Select the file(s) you want to backup from the file list. You can check from the

		<p>list. Then click the backup button, now you can see the backup menu. System supports customized path setup. After select or create new folder, click the Start button to begin the backup operation. The record file(s) will be saved in the specified folder.</p> <ul style="list-style-type: none"> ● Check the file again you can cancel current selection. System max supports to display 32 files from one channel. ● After you clip on record file, click Backup button you can save it. ● For one device, if there is a backup in process, you can not start a new backup operation.
13	Clip	<ul style="list-style-type: none"> ● It is to edit the file. ● Please play the file you want to edit and then click this button when you want to edit. You can see the corresponding slide bars in the time bar of the corresponding channel. You can adjust the slide bar or input the accurate time to set the file end time. ● After you set, you can click Clip button again to edit the second period. You can see the slide bar restore its previous position. ● Click Backup button after clip, you can save current contents in a new file. ● You can clip for one channel or multiple-channel. The multiple-channel click operation is similar with the one-channel operation. <p>Please note:</p> <ul style="list-style-type: none"> ● System max supports 1024 files backup at the same time. ● You can not operate clip operation if there is any file has been checked in the file list.
14	Record type	<p>In any play mode, the time bar will change once you modify the search type. There are four record modes: Common/alarm/motion/intelligent</p>
Other Functions		
15	Smart search	<ul style="list-style-type: none"> ● When system is playing, you can select a zone in the window to begin smart search. Click the motion detect button to begin play. ● Once the motion detect play has begun, click button again will terminate current motion detect file play. ● There is no motion detect zone by default. ● If you select to play other file in the file list, system switches to motion detect play of other file. ● During the motion detect play process, you can not implement operations such as change time bar, begin backward playback or frame by frame playback. ● Please refer to user's manual for detailed operation.
16	Other channel synchronization switch to play when	<p>When playing the file, click the number button, system can switch to the same period of the corresponding channel to play.</p>

	playback	
17	Digital zoom	When the system is in full-screen playback mode, left click the mouse in the screen. Drag your mouse in the screen to select a section and then left click mouse to realize digital zoom. You can right click mouse to exit.
18	Manually switch channel when playback	During the file playback process, you can switch to other channel via the dropdown list or rolling the mouse. This function is null if there is no record file or system is in smart search process.

Note:

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

2.5 Network

Here is for you to input network information.

From main menu->Setting->Network->TCP/IP, the network interface is shown as in Figure 2-5.

- MTU: It is to set MTU value of the network adapter. The value ranges from 1280-7200 bytes. The default setup is 1500 bytes. Please note MTU modification may result in network adapter reboot and network becomes off. That is to say, MTU modification can affect current network service. System may pop up dialog box for you to confirm setup when you want to change MTU setup. Click OK button to confirm current reboot, or you can click Cancel button to terminate current modification. Before the modification, you can check the MTU of the gateway; the MTU of the DVR shall be the same as or is lower than the MTU of the gateway. In this way, you can reduce packets and enhance network transmission efficiency. Right now, the value here is for read-only.

The following MTU value is for reference only.

- ◇ 1500: Ethernet information packet max value and it is also the default value. It is the typical setup when there is no PPPoE or VPN. It is the default setup of some router, switch or the network adapter.
- ◇ 1492: Recommend value for PPPoE.
- ◇ 1468: Recommend value for DHCP.
- LAN download: System can process the downloaded data first if you enable this function. The download speed is 1.5X or 2.0X of the normal speed.

Important

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

- Network adapters mode:
 - ◇ Multiple-address mode: eth1/eth2/ eth3/eth4 operate separately. You can use the services such as HTTP, RTP service via eth1/eth2/ eth3/eth4. Usually you need to set one default card(default setup is eth1) to request the auto network service from the

device-end such as DHCP, email ,FTP and etc. In multiple-address mode, system network status is shown as offline once one card is offline.

- ✧ Network fault-tolerance: In this mode, device uses bond0 to communicate with the external devices. You can focus on one host IP address. At the same time, you need to set one master card. Usually there is only one running card (master card).System can enable alternate card when the master card is malfunction. The system is shown as offline once these two cards are both offline. Please note these two cards shall be in the same LAN.
- ✧ Load balance: In this mode, device uses bond0 to communicate with the external device. The eth1/eth2/ eth3/eth4 are working now and bearing the network load. Their network load are general the same. The system is shown as offline once all cards are offline. Please note these cards shall be in the same LAN.
- IP Version: There are two options: IPv4 and IPv6. Right now, system supports these two IP address format and you can access via them.
- MAC address: The host in the LAN can get a unique MAC address. It is for you to access in the LAN. It is read-only.
- IP address: Here you can use up/down button (▲▼) or input the corresponding number to input IP address. Then you can set the corresponding subnet mask the default gateway.
- Default gateway: Here you can input the default gateway. Please note system needs to check the validity of all IPv6 addresses. The IP address and the default gateway shall be in the same IP section. That is to say, the specified length of the subnet prefix shall have the same string.
- DHCP: It is to auto search IP. When enable DHCP function, you can not modify IP/Subnet mask /Gateway. These values are from DHCP function. If you have not enabled DHCP function, IP/Subnet mask/Gateway display as zero. You need to disable DHCP function to view current IP information. Besides, when PPPoE is operating, you can not modify IP/Subnet mask /Gateway.
- Preferred DNS server: DNS server IP address.
- Alternate DNS server: DNS server alternate address.

After completing all the setups please click save button.



Figure 2-5

2.6 Remote Device

From Main menu->Setting->Camera->Remote->Remote or right click mouse on the preview interface and then select remote item, you can see the following interface. See Figure 2-6.



Figure 2-6

Tips

In the preview interface, for the channel of no IPC connection, you can click the icon “+” in the centre of the interface to quickly go to the Remote Device interface. See Figure 2-7.

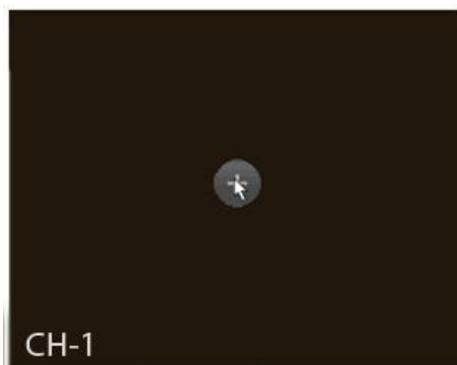


Figure 2-7

Click Device Search button, you can view the searched IP addresses at the top pane of the interface.

Double click an IP address or check one IP address and then click Add button, you can add current device to the bottom pane of the interface. System supports batch add function.

Click Manual Add button, you can add a device directly. See Figure 2-8.

Important

Please note the manual add function is for Dahua, Panasonic, Sony, Dynacolor, Samsung, AXIS, Arecont, ONVIF and custom. When the type is the custom, you can just input URL address, user name and password connect to the network camera without considering network camera manufacture. Please contact your network camera manufacturer for the URL address.

A 'Manual Add' dialog box with a dark blue background and light blue text. The title bar at the top says 'Manual Add'. The form contains the following fields:

- Manufacturer: A dropdown menu with 'Private' selected.
- IP Address: A text input field containing '192.168.0.0'.
- TCP Port: A text input field containing '37777'.
- User Name: A text input field containing 'admin'.
- Password: A text input field with five dots representing masked characters.
- Connect: A button.
- Channel No.: A text input field containing '1', followed by a 'Set' button.
- Remote Channel No.: A dropdown menu with '1' selected.
- Channel: A dropdown menu with '7' selected.
- Decode Buffer: A text input field containing '280', followed by 'ms'.

At the bottom of the dialog, there are 'OK' and 'Cancel' buttons.

Figure 2-8

2.7 Manual Record

Note:

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

There are three ways for you to go to manual record menu.

- Right click mouse and then select Manual->Record.
- In the main menu, from Setting->Storage->Record.
- In live viewing mode, click record button in the front panel or record button in the remote control.

From main menu->Setting->Storage->Manual Record, manual record menu is shown as in Figure 2-9.

2.7.1 Record Operation

System supports main stream and sub stream. There are three statuses: schedule/manual/stop. Please highlight icon “○” to select corresponding channel.

- Manual: The highest priority. After manual setup, all selected channels will begin ordinary recording.
- Schedule: Channel records as you have set in recording setup (Main Menu->Setting->System->>Schedule)
- Stop: Current channel stops recording.
- All: Check All button after the corresponding status to enable/disable all-channel schedule/manual record or enable/disable all channels to stop record.

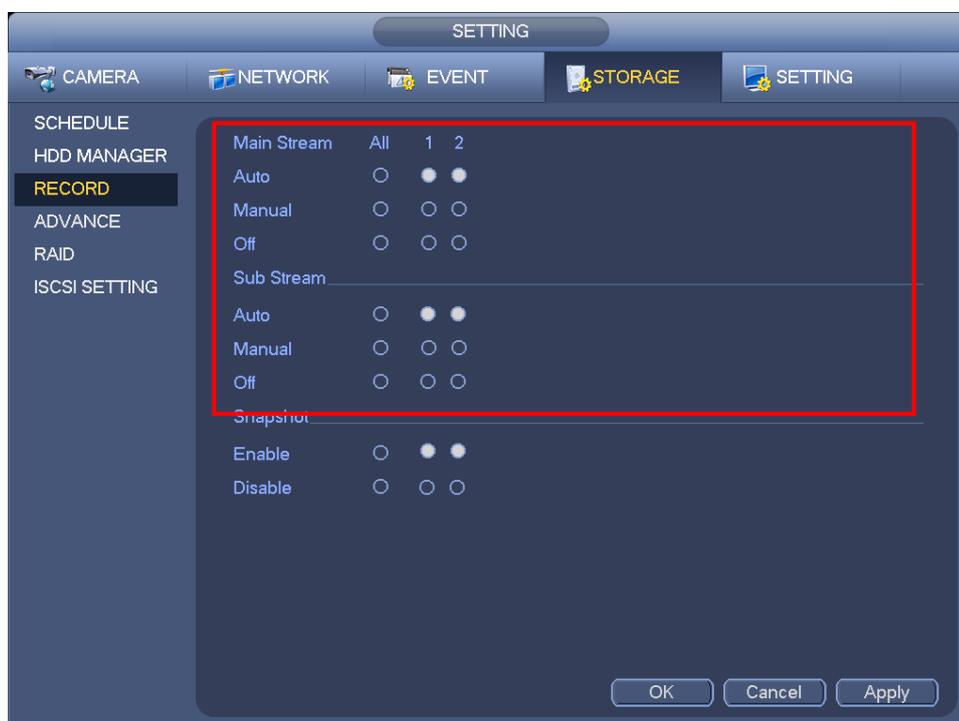


Figure 2-9

2.7.2 Snapshot Operation

Check the corresponding box to enable/disable schedule snapshot function. See Figure

2-10.

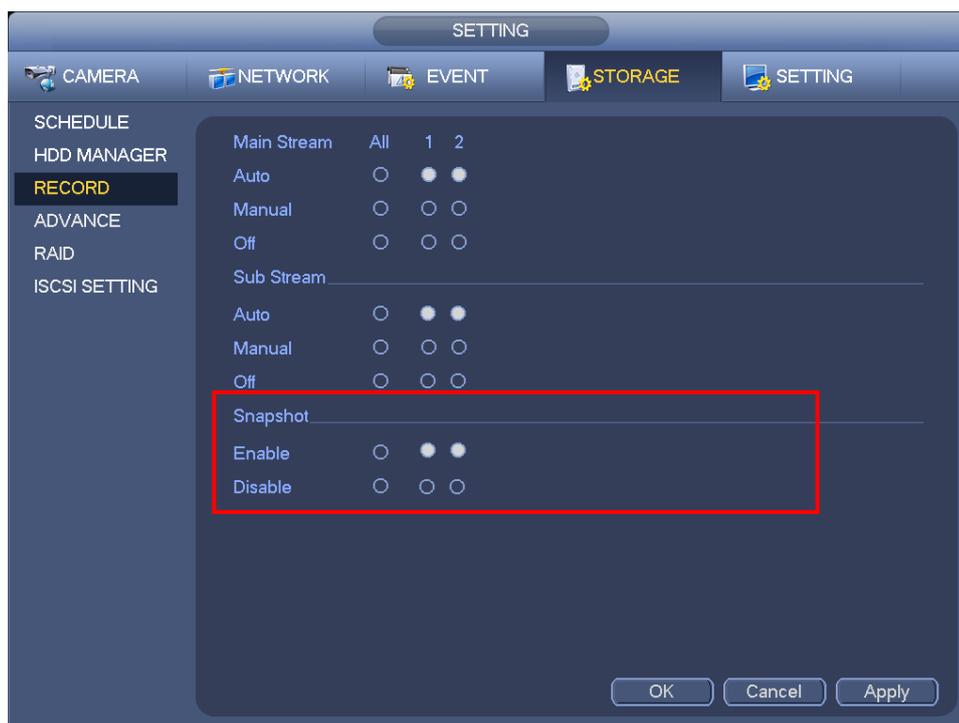


Figure 2-10

Tips

You can check All button after the corresponding status to enable/disable all-channel snapshot function.

2.8 RAID Manager

Important

Usually we recommend enterprise-level HDD for RAID management function.

RAID function is for some series product only. Right now RAID supports Raid0, Raid1, Raid5, Raid6, Raid10, Raid50, and Raid60.

In this interface, you can manage RAID HDDs, view RAID name, type, free space, total space, status and add/delete RAID HDD.

2.8.1.1.1 RAID Config

From main menu->Setting->Storage->RAID->RAID config, the RAID configuration interface is shown as in Figure 2-11. In this interface, you can set RAID type and settings.

- Create manually: Check HDD manually to crate RAID.
- Create RAID: Click it to automatically create RAID.

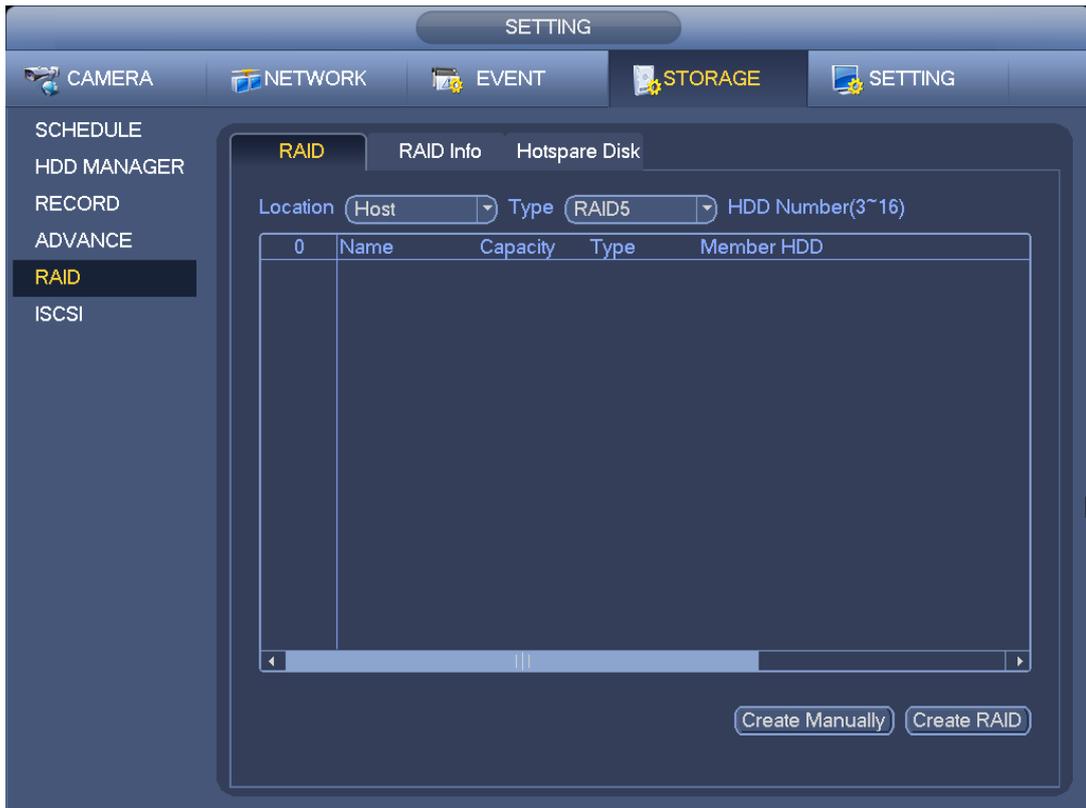


Figure 2-11

2.8.1.1.2 RAID Info

From Main menu->Setting->Storage->RAID->RAID info, it is to display RAID name, space, type, member HDD, hotspare HDD, status and etc. Here you can delete RAID. See Figure 2-12.

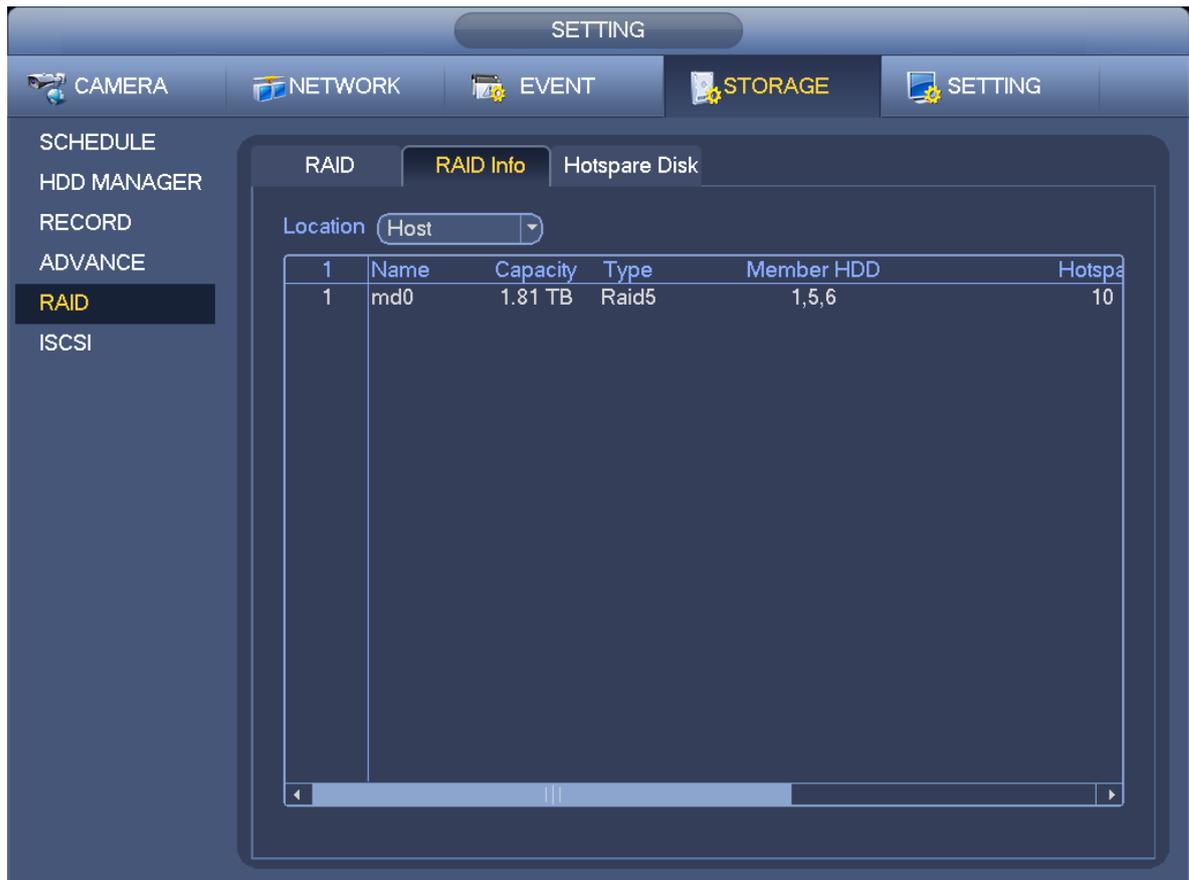


Figure 2-12

2.8.1.1.3 Hotspare Disk

From Main menu->Setting->Storage->RAID->Hotspare HDD, in this interface you can add/delete hotspare HDD. See Figure 2-13.

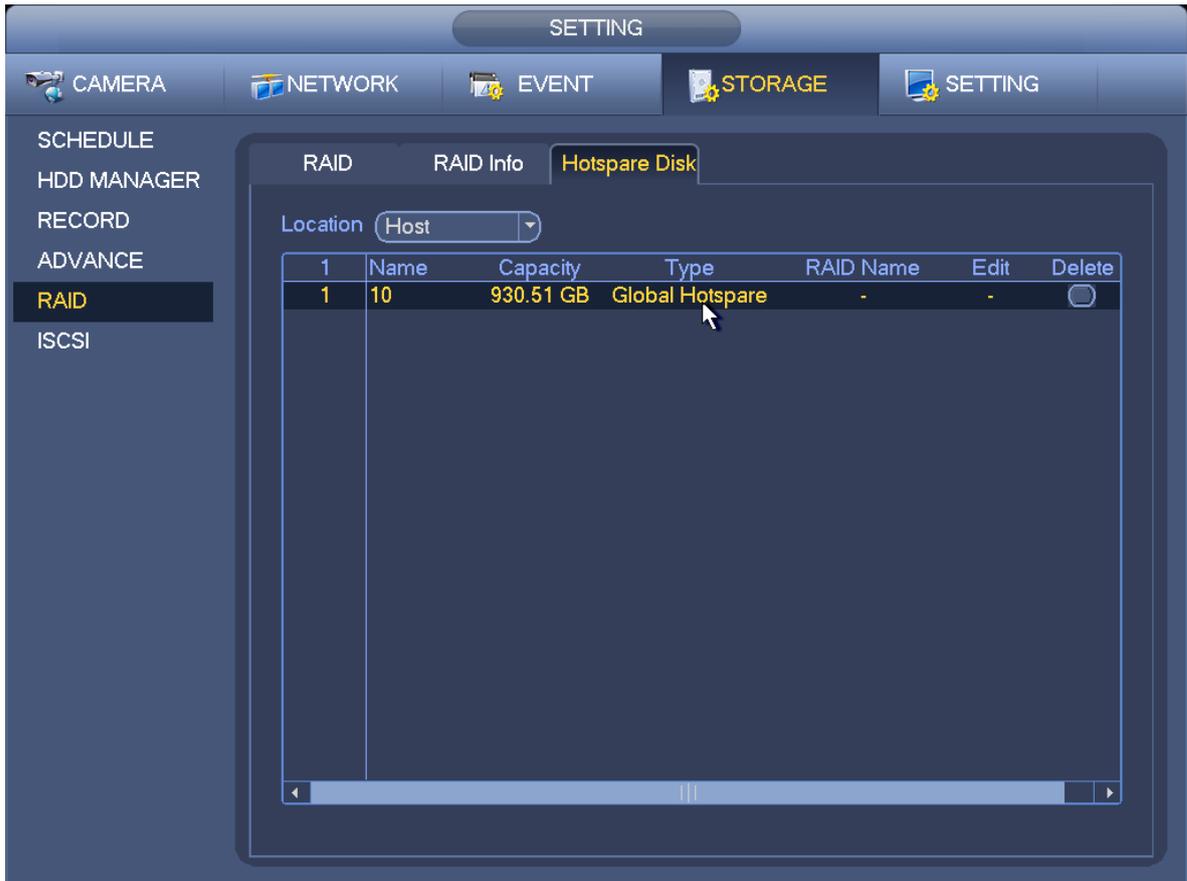


Figure 2-13

Click the corresponding edit icon , you can see the following interface. See Figure 2-14.

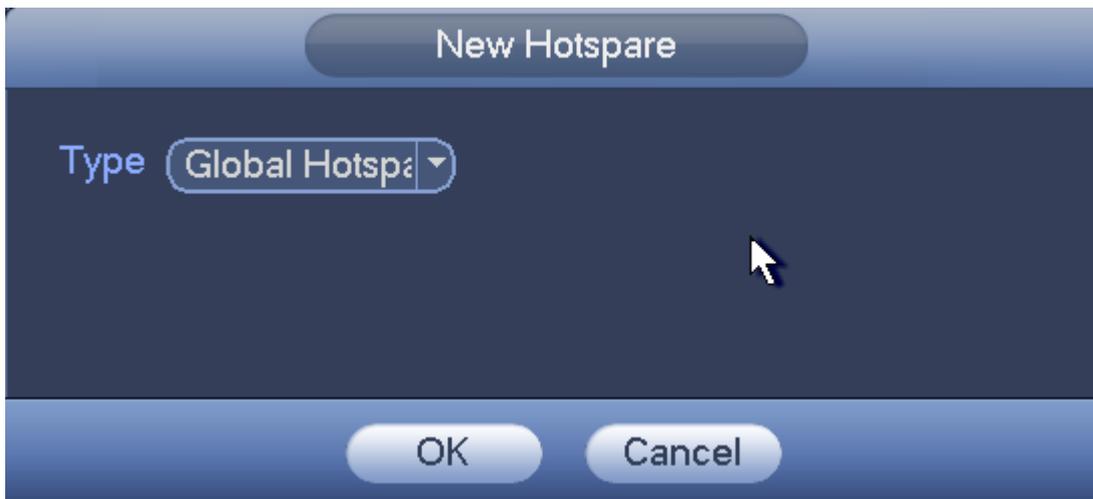


Figure 2-14

Select type and corresponding device.
Click OK button, you have added one hotspare HDD.

2.9 Face Detect

When camera detects human face, system can generate an alarm.

From main menu->Setting->Event->Face detect, the interface is shown as in Figure 2-15.

- Human face ROI: Check the box here, system can enhance the human face display pane.
- Sensitivity: System supports 6 levels. The sixth level has the highest sensitivity.

You can refer to the user's manual to set other parameters.



Figure 2-15

2.10 Audio Detect

System can generate an alarm once it detect the audio input is abnormal or audio volume changes.

From main menu->Setting->Event->Audio detect, you can see an interface shown as in Figure 2-16.

- Input abnormal: Check the box here, system can generate an alarm once the audio input is abnormal.
- Intensity change: Check the box here, system can generate an alarm once the audio volume becomes strong.
- Sensitivity: It refers to the audio recognition sensitivity. The higher the value is, the higher the sensitivity is.
- Threshold: It is to set intensity change threshold. The smaller the value is, the higher the sensitivity is.

You can refer to the user's manual to set other parameters.



Figure 2-16

2.11 Shutdown

From main menu->operation, double click shutdown button, system pops up a dialogue box for you to select. See Figure 2-17.

- Shutdown: System shuts down and turns off power.
- Logout: Log out menu. You need to input password when you login the next time.
- Restart: Reboot device.

If you shut down the device, you can see system begins saving data and then shut down.

Please note, you can view the corresponding dialogue box if you have no right to turn off the device.



Figure 2-17

3 WEB OPERATION

3.1 General Introduction

The device web provides channel monitor menu tree, search, alarm setup, system setup, PTZ control and monitor window.

3.1.1 Preparation

Before log in, please make sure:

- PC and NVR connection is OK.
- You have set PC IP address, NVR IP address, subnet mask and gateway. (Please set the IP address of the same section for the PC and NVR. Please input corresponding gateway and subnet mask if there are routers.) The default setup is eth1:192.168.1.108, eth2: 192.168.1.106, eth3:192.168.1.105 and eth4:192.168.1.104.
- Use order ping *****.***.***.*****(NVR IP address) to check connection is OK or not.

3.2 Login

Open IE and input NVR address in the address column. For example, if your NVR IP is 10.10.3.16, then please input http:// 10.10.3.16 in IE address column.

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

If you can't download the ActiveX file, please modify your IE security setup.

After installation, the interface is shown as below. See Figure 3-1.

Please input your user name and password.

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

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

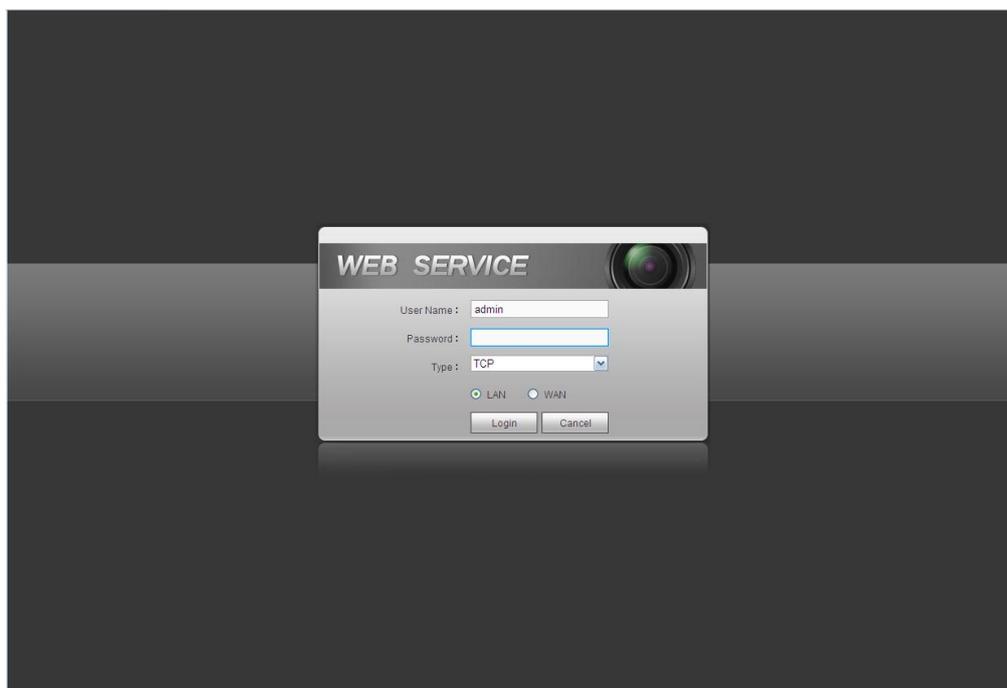


Figure 3-1

3.3 Main Window

3.3.1 LAN Login

For the LAN mode, after you logged in, you can see the main window. See Figure 3-2. Click the channel name on the left side; you can view the real-time video.

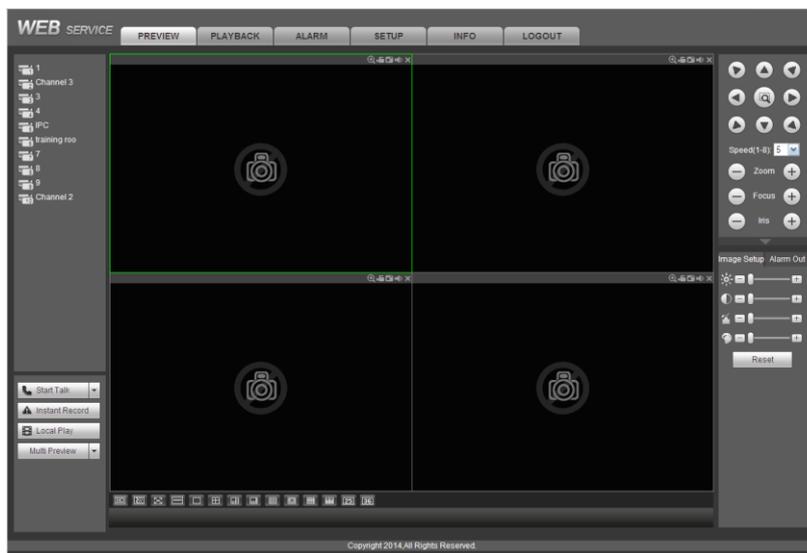


Figure 3-2

3.3.2 WAN Login

In WAN mode, after you logged in, the interface is shown as below. See Figure 3-3.

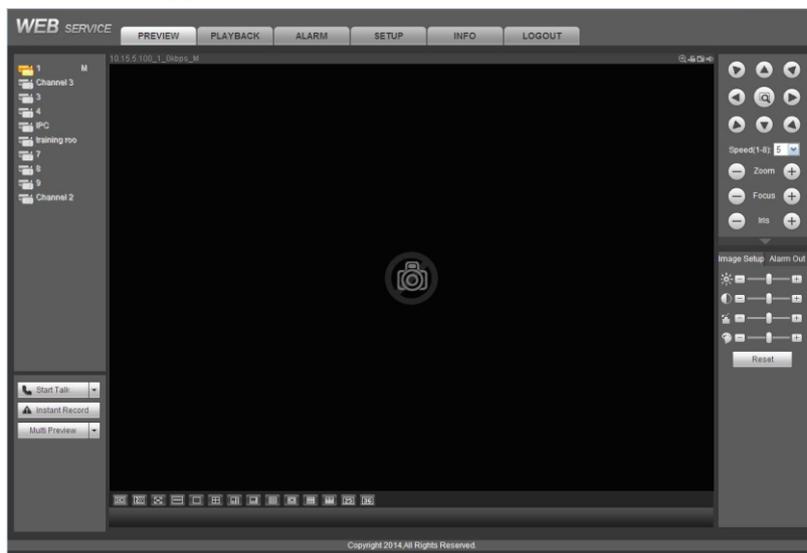


Figure 3-3

For detailed operation instruction, please refer to user's manual included in the resources CD.

Appendix Toxic or Hazardous Materials or Elements

Component Name	Toxic or Hazardous Materials or Elements					
	Pb	Hg	Cd	Cr VI	PBB	PBDE
Sheet Metal(Case)	○	○	○	○	○	○
Plastic Parts (Panel)	○	○	○	○	○	○
Circuit Board	○	○	○	○	○	○
Fastener	○	○	○	○	○	○
Wire and Cable/AC Adapter	○	○	○	○	○	○
Packing Material	○	○	○	○	○	○
Accessories	○	○	○	○	○	○

O: Indicates that the concentration of the hazardous substance in all homogeneous materials in the parts is below the relevant threshold of the SJ/T11363-2006 standard.

X: Indicates that the concentration of the hazardous substance of at least one of all homogeneous materials in the parts is above the relevant threshold of the SJ/T11363-2006 standard. During the environmental-friendly use period (EFUP) period, the toxic or hazardous substance or elements contained in products will not leak or mutate so that the use of these (substances or elements) will not result in any severe environmental pollution, any bodily injury or damage to any assets. The consumer is not authorized to process such kind of substances or elements, please return to the corresponding local authorities to process according to your local government statutes.

Note:

- For detailed operation introduction, please refer to our resource CD included in your package for electronic version of the *User's Manual*.
- This quick start guide is for reference only. Slight difference may be found in the user interface.
- All the designs and software here are subject to change without prior written notice.
- All trademarks and registered trademarks mentioned are the properties of their respective owners.
- If there is any uncertainty or controversy, please refer to the final explanation of us.
- Please visit our website or contact your local retailer for more information.