Network Video Recorder (NVR6XX-4KS2, 724 Series)

Quick Start Guide

Cybersecurity Recommendations

Mandatory actions to be taken towards cybersecurity

1. Change Passwords and Use Strong Passwords:

The number one reason systems get "hacked" is due to having weak or default passwords. It is recommended to change default passwords immediately and choose a strong password whenever possible. A strong password should be made up of at least 8 characters and a combination of special characters, numbers, and upper and lower case letters.

2. Update Firmware

As is standard procedure in the tech-industry, we recommend keeping NVR, DVR, and IP camera firmware up-to-date to ensure the system is current with the latest security patches and fixes.

"Nice to have" recommendations to improve your network security

1. Change Passwords Regularly

Regularly change the credentials to your devices to help ensure that only authorized users are able to access the system.

2. Change Default HTTP and TCP Ports:

- Change default HTTP and TCP ports for systems. These are the two ports used to communicate and to view video feeds remotely.
- These ports can be changed to any set of numbers between 1025-65535. Avoiding the default ports reduces the risk of outsiders being able to guess which ports you are using.

3. Enable HTTPS/SSL:

Set up an SSL Certificate to enable HTTPS. This will encrypt all communication between your devices and recorder.

4. Enable IP Filter:

Enabling your IP filter will prevent everyone, except those with specified IP addresses, from accessing the system.

5. Change ONVIF Password:

On older IP Camera firmware, the ONVIF password does not change when you change the system's credentials. You will need to either update the camera's firmware to the latest revision or manually change the ONVIF password.

6. Forward Only Ports You Need:

- Only forward the HTTP and TCP ports that you need to use. Do not forward a huge range of numbers to the device. Do not DMZ the device's IP address.
- You do not need to forward any ports for individual cameras if they are all connected to a recorder on site; just the NVR is needed.

7. Disable Auto-Login on SmartPSS:

Those using SmartPSS to view their system and on a computer that is used by multiple people should disable auto-login. This adds a layer of security to prevent users without the appropriate credentials from accessing the system.

8. Use a Different Username and Password for SmartPSS:

In the event that your social media, bank, email, etc. account is compromised, you would not want someone collecting those passwords and trying them out on your video surveillance system. Using a different username and password for your security system will make it more difficult for someone to guess their way into your system.

9. Limit Features of Guest Accounts:

If your system is set up for multiple users, ensure that each user only has rights to features and functions they need to use to perform their job.

10. UPnP:

- UPnP will automatically try to forward ports in your router or modem. Normally this would be a good thing. However, if your system automatically forwards the ports and you leave the credentials defaulted, you may end up with unwanted visitors.
- If you manually forwarded the HTTP and TCP ports in your router/modem, this feature should be turned off regardless. Disabling UPnP is recommended when the function is not used in real applications.

11. SNMP:

Disable SNMP if you are not using it. If you are using SNMP, you should do so only temporarily, for tracing and testing purposes only.

12. Multicast:

Multicast is used to share video streams between two recorders. Currently there are no known issues involving Multicast, but if you are not using this feature, deactivation can enhance your network security.

13. Check the Log:

If you suspect that someone has gained unauthorized access to your system, you can check the system log. The system log will show you which IP addresses were used to login to your system and what was accessed.

14. Physically Lock Down the Device:

Ideally, you want to prevent any unauthorized physical access to your system. The best way to achieve this is to install the recorder in a lockbox, locking server rack, or in a room that is behind a lock and key.

15. Connect IP Cameras to the PoE Ports on the Back of an NVR:

Cameras connected to the PoE ports on the back of an NVR are isolated from the outside world and cannot be accessed directly.

16. Isolate NVR and IP Camera Network

The network your NVR and IP camera resides on should not be the same network as your public computer network. This will prevent any visitors or unwanted guests from getting access to the same network the security system needs in order to function properly.

General

This quick start guide (hereinafter referred to be "the Guide") introduces the functions and operations of the Network Video Recorder device (hereinafter referred to be "the Device").

Safety Instructions

The following categorized signal words with defined meaning might appear in the Guide.

Signal Words	Meaning
DANGER	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.
WARNING	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.
A CAUTION	Indicates a potential risk which, if not avoided, could result in property damage, data loss, lower performance, or unpredictable result.
©TIPS	Provides methods to help you solve a problem or save you time.
□ NOTE	Provides additional information as the emphasis and supplement to the text.

Privacy Protection Notice

As the device user or data controller, you might collect personal data of others such as face, fingerprints, car plate number, Email address, phone number, GPS and so on. You need to be in compliance with the local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures including but not limited to: providing clear and visible identification to inform data subject the existence of surveillance area and providing related contact.

About the Guide

- The Guide is for reference only. If there is inconsistency between the Guide and the actual product, the actual product shall prevail.
- We are not liable for any loss caused by the operations that do not comply with the Guide.
- The Guide would be updated according to the latest laws and regulations of related regions. For detailed information, see the paper manual, CD-ROM, QR code or our official website. If there is inconsistency between paper manual and the electronic version, the

- electronic version shall prevail.
- All the designs and software are subject to change without prior written notice. The product updates might cause some differences between the actual product and the Guide. Please contact the customer service for the latest program and supplementary documentation.
- There still might be deviation in technical data, functions and operations description, or errors in print. If there is any doubt or dispute, please refer to our final explanation.
- Upgrade the reader software or try other mainstream reader software if the Guide (in PDF format) cannot be opened.
- All trademarks, registered trademarks and the company names in the Guide are the properties of their respective owners.
- Please visit our website, contact the supplier or customer service if there is any problem occurred when using the Device.
- If there is any uncertainty or controversy, please refer to our final explanation.

Important Safeguards and Warnings

The following description is the correct application method of the Device. Read the Guide carefully before use to prevent danger and property loss. Strictly conform to the Guide during application and keep it properly after reading.

Operating Requirement

- Install the PoE front-end device indoors.
- The device does not support wall mount.
- Don't place and install the device in an area exposed to direct sunlight or near heat generating device.
- Don't install the device in a humid, dusty or fuliginous area.
- Keep its horizontal installation, or install it at stable places, and prevent it from falling.
- Don't drip or splash liquids onto the device; don't put on the device anything filled with liquids, in order to prevent liquids from flowing into the device.
- Install the device at well-ventilated places; don't block its ventilation opening.
- Use the device only within rated input and output range.
- Don't dismantle the device arbitrarily.
- Transport, use and store the device within allowed humidity and temperature range.

Power Requirement

- Make sure to use the designated battery type. Otherwise there may be explosion risk.
- Make sure to use batteries according to requirements; otherwise, it may result in fire, explosion or burning risks of batteries!
- To replace batteries, only the same type of batteries can be used.
- Make sure to dispose the exhausted batteries according to the instructions.
- The product shall use electric wires (power wires) recommended by this area, which shall be used within its rated specification.
- Make sure to use standard power adapter matched with this device. Otherwise, the user shall undertake resulting personnel injuries or device damages.
- Use power supply that meets SELV (safety extra low voltage) requirements, and supply power with rated voltage that conforms to Limited Power Source in IEC60950-1. For specific power supply requirements, please refer to device labels.
- Products with category I structure shall be connected to grid power output socket, which is equipped with protective grounding.
- Appliance coupler is a disconnecting device. During normal use, please keep an angle that facilitates operation.

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Installing the Device

1.1 Checking the Components

When you receive the Device, please check against the following checking list. If any of the items are missing or damaged, contact the local retailer or after-sales engineer immediately

Sequence	Checking i	items	Requirement
		Appearance	No obvious damage.
1	Package	Packing materials	No broken or distorted positions that could be caused by hit.
		Accessories	No missing.
2	Labels	Labels on the Device	 Device model conforms to the purchase order. Not torn up. NOTE Do not tear up or throw away the labels; otherwise the warranty services are not ensured. You need to provide the serial number of the product when you call the after-sales service.
		Appearance	No obvious damage.
3	Device	Data cables, power cables, fan cables, mainboard	No connection loose. NOTE If there is any loose, please contact the company after-sales service in time.

1.2 Front Panel

Ⅲ NOTE

The following figures are for reference only. The actual product shall prevail.

1.2.1 Super 4K S2 2U NVR Series

Figure 1-1 Super 4K S2 32-channel 2U NVR

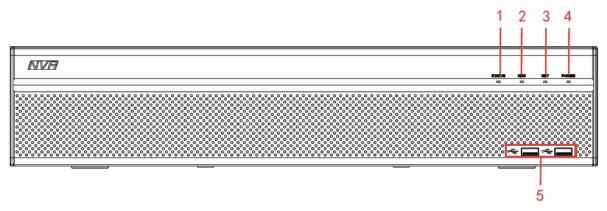


Figure 1-2 Super 4K S2 64-channel/128-channel 2U NVR

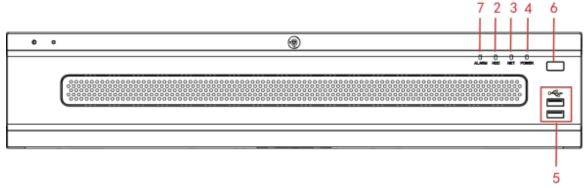


Table 1-1 Description of buttons and indicators on front panel

No.	Icon	Function	SN	Icon	Function
1	Status	Status indicator light	2	HDD	HDD indicator light
3	NET	Network indicator light	4	Power	Power indicator light
5	~€	USB port	6		Power on-off button
7	ALARM	Alarm indicator light	-	-	

1.2.2 Super 4K S2 3U NVR Series

Figure 1-3 Front panel with LCD

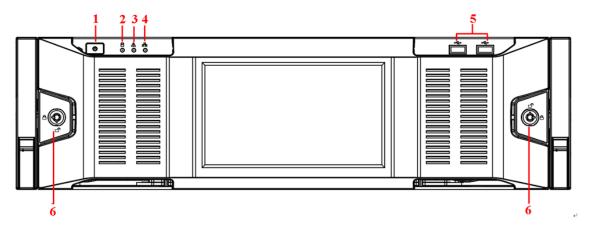
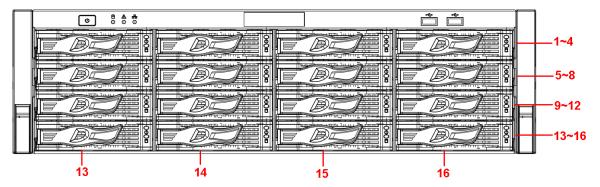


Table 1-2 Description of buttons and indicators

No.	Name	Function
1	Power button	Press it once to turn on the Device.
		Press and hold it down for a period to turn off the Device (Usually we
		do not recommend).
		Press and hold down the power button for a period or pull out the
		power cable might result in device auto reboot.
2	System HDD	The blue light becomes on when it is reading and writing.
	Indicator	In the system HDD, there are important configuration file, factory
		default configuration file and device initial boot-up data.
3	Alarm indicator	The alarm indicator light becomes on once an alarm occurred. It
		becomes on via the software detection. The indicator light becomes
		on when there is a local alarm.
4	Network	The blue network indicator is on after you connected the Device to the
	indicator	network.
5	USB port	Connect to external USB storage device, mouse, etc.
6	Front-panel lock	It is to lock the front panel.
		It prevents HDD from being stolen or accidentally plugged and
		unplugged.

Figure 1-4 HDD slots



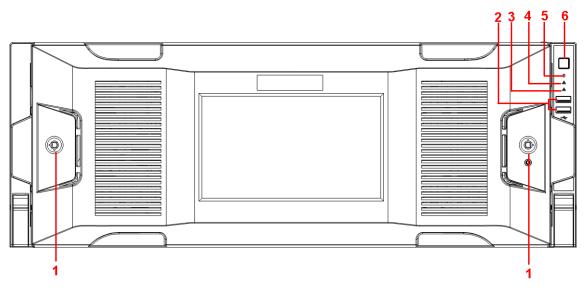
After you remove the front panel, you can see the 16 HDDs. From the left to the right and from the top to the bottom, it ranges from 1~4, 5~8, 9~12, 13~16. See Figure 1-4.

There are two indicators on the HDD bracket.

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

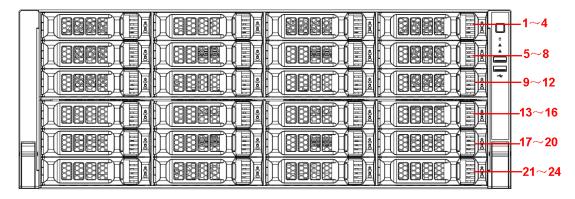
1.2.3 Super 4U NVR Series

Figure 1-5 Front panel with LCD



No.	Icon	Name	Function
1	(a)	Front panel lock	It is to lock the front panel. It prevents HDD from being stolen or accidentally plugged and unplugged.
2	~	USB port	Connect to external USB storage device, mouse, etc.
3	윮	Network indicator	The network indicator is on when the network is in malfunction.
4	Δ	Alarm indicator	The alarm indicator becomes on once an alarm occurred. It becomes on via the software detection. The indicator becomes on when there is a local alarm.
5	0	System HDD Indicator	The blue light becomes on when it is reading and writing. In the system HDD, there are important configuration file, factory default configuration file and device initial boot-up data.
6	U	Power button	Press it once to turn on the Device. Press and hold it down for a period to turn off the Device (Usually we do not recommend). Press and hold down the power button for a period or pull out the power cable might result in device auto reboot.

Figure 1-6 HDD slots



After you remove the front panel, you can see the 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. There are two indicators on the HDD bracket.

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

1.3 Rear Panel

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The following figures are for reference only. The actual product shall prevail.

1.3.1 Super 4K S2 2U NVR Series

Figure 1-7 Super 4K S2 32-channel 2U NVR

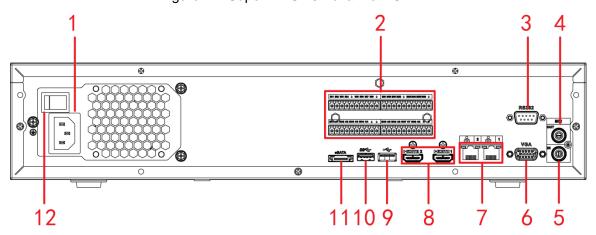


Figure 1-8 Super 4K S2 64-channel/128-channel 2U NVR (single power)

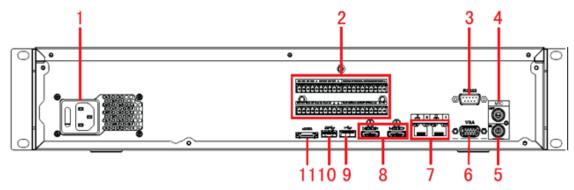


Figure 1-9 Super 4K S2 64-channel/128-channel 2U NVR (redundant power)

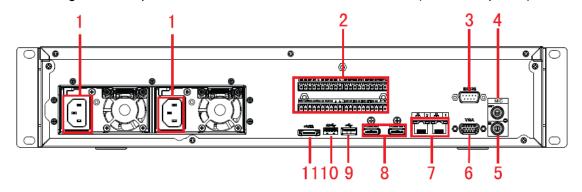


Table 1-3 Rear panel description

No.	Function	No.	Function
1	Power input port	2	Alarm input/alarm output/RS485 port.
2	RS232 port	4	Audio output
5	Audio input	6	VGA port
7	Network port	8	HDMI port
9/10	USB 3.0 port	11	eSATA port
12	Power button		

1.3.2 Super 4K S2 3U NVR Series

Figure 1-10 Rear panel with single power

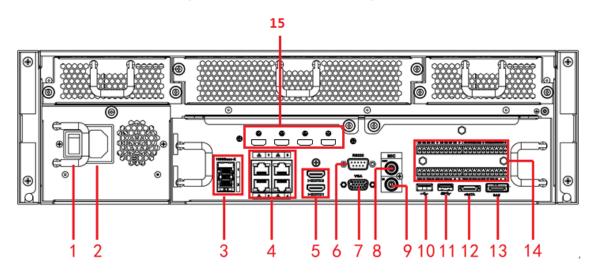


Figure 1-11 Rear panel with redundant power

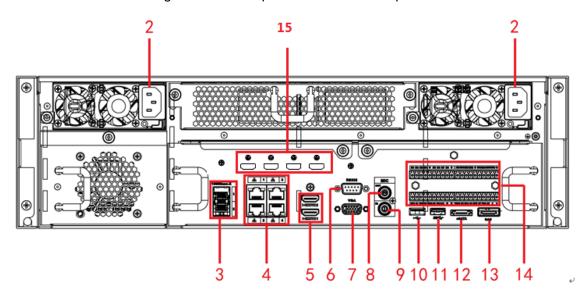


Table 1-4 Rear panel description

No.	Function	No.	Function
1	Power on-off button	2	Power input port
3	1000M fiber port	4	Network port
5	HDMI port	6	RS232 port
7	Video VGA output	8	Audio output
9	Audio input	10	USB3.0 port
11	USB3.0 port	12	eSATA port
13	SAS extension port	14	Alarm input/output/RS485 port
15	HDMI port (The HD decoding card		
	is not the default accessory.		
	Please purchase it if needed)		

1.3.3 Super 4U NVR Series

Figure 1-12 Rear panel with single power

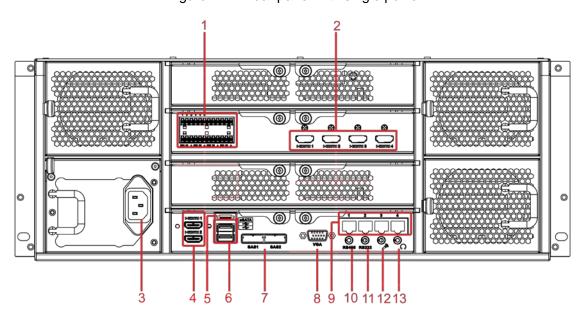


Figure 1-13 Rear panel with redundant power

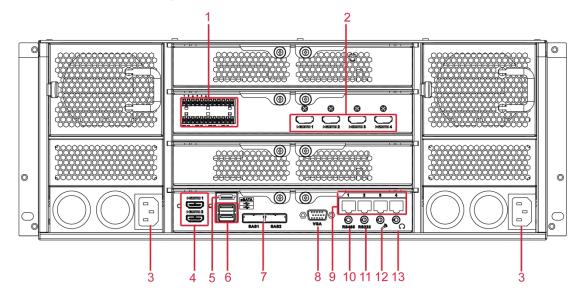


Table 1-5 Rear panel description

No.	Function	No.	Function
1	Alarm input/alarm	2	HDMI port (you can select to buy decoding card or
	output		optical 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 port	12	Audio input port
13	Audio output port		

GUI Operations



Slight difference might be found on the interfaces of different models. Following figures are for reference only. The actual product shall govern.

2.1 Booting Up



Before the boot up, please make sure:

- The rated input voltage shall match with the device power requirement. Make sure the power wire connection is ready and then turn on the power button.
- For device security, connect the Device to the power adapter first and then connect it to the power socket.
- Always use the stable current with little ripple interference. It is recommended to use UPS.

Connect the Device to the monitor, plug into the power socket, and then press the power button to boot up the Device.

2.2 Initializing the Device

M NOTE

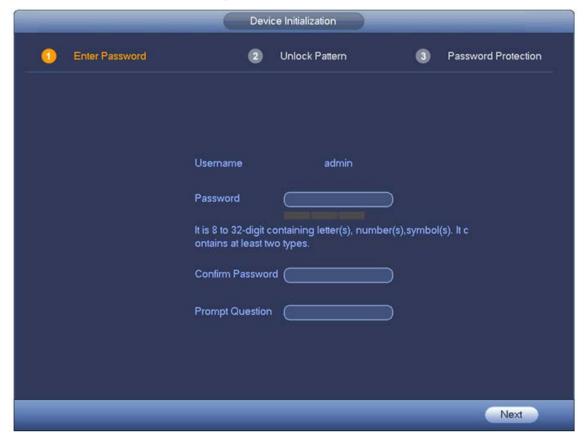
Only devices of some series support this function.

When booting up for the first time, you need to configure the password information for admin (by default). To guarantee device security, keep the login password for admin properly and modify it regularly.

Step 1 Turn on the Device.

The Device Initialization interface is displayed. See Figure 2-1.

Figure 2-1 Enter password



<u>Step 2</u> Configure the password, confirm the password and then enter the prompt question. Click **Next**.

The password can be set from 8 characters through 32 characters and contain at least two types from number, letter and special character (excluding"", """, ";", ":" and "&"). It is recommended to set a password of high security according to the prompt.

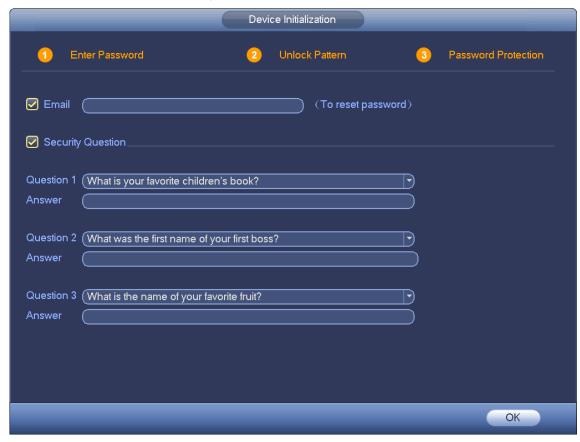
Step 3 Set the unlock pattern or click **Skip**.

After setting unlock pattern, the password protection setting interface is displayed. See Figure 2-2.

₩ NOTE

 Once you have configured the unlock pattern, the system will require the unlock pattern as the default login method. If you skip this setting, enter the password for login.

Figure 2-2 Password protection



Step 4 Configure the protection parameters for password. For details, see Table 2-1.

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- After configuration, if you forgot the password for admin user, you can reset the password through the reserved email address or security questions. For details about resetting the password, see User's Manual.
- If you do not want to configure the settings, disable the email address and security questions functions on the interface.

Table 2-1 Password protection parameter description

Password					
Protection Mode	Description				
	Enter the reserved email address.				
	In the Email Address box, enter an email address for password				
Email Address	reset. In case you forgot password, enter the security code that you				
	will get from this reserved email address to reset the password of				
	admin.				
Coourity	Configure the security questions and answers.				
Security	In case you forgot password, entering the answers to the questions				
Questions	can make you reset the password.				
NOTE					
If you want to configure the email or security questions fucntion later or you want to					
change the configurations, select Main Menu > ACCOUNT > USER.					

Step 5 Click **OK** to complete the settings.

The **Startup Wizard** interface is displayed. For details about quick settings during startup, see "2.4 Startup Wizard."

2.3 Resetting Password

M NOTE

Only devices of some series support this function.

If you forgot the admin password, you can reset the password by the following ways:

- When the password reset function is enabled, you can scan the QR code on the local interface to reset the password.
- When the password reset function is disabled, you can reset password via the security
 questions configured before. If the security questions are not configured, system displays
 that Password reset is closed! You need to contact the customer service for help.

Step 1 Click on the login interface.

The Reset Password interface is displayed. See Figure 2-3.

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- On the unlock pattern interface, click Forgot Unlock Pattern to switch to the password login interface, and then click
- If you have not input email address in device initialization, the system displays the
 interface to configure an email address. Click Next and then the Device goes to
 Figure 2-3.

Figure 2-3 Reset password (1)



Step 2 Click OK.

The password resetting interface is displayed. See Figure 2-4.

M NOTE

After clicking **OK**, we will collect your personal information such as cell phone number, MAC address and device serial number. The collected information is used for verifying device legality and sending security code. Please read the notice carefully and confirm if you agree with the collection or not.

Figure 2-4 Reset password (3)



Step 3 Reset login password.

Email

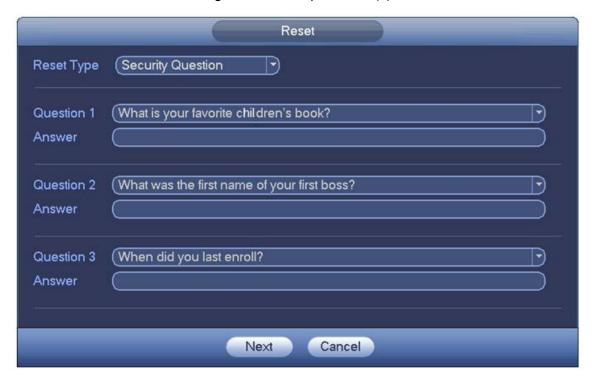
In Figure 2-4, follow the prompts on the interface to scan the QR code, and then enter the security code you get via the assigned email.

M NOTE

- For the same QR code, you can scan max twice to get two security codes.
 Refresh the QR code if you want to get security code again.
- The security code in your email is only valid for 24 hours.
- Security questions

In Figure 2-4, in the **Reset Type** drop-down list, select security question. The security question interface is displayed. See Figure 2-5. Enter the preset correct answers in the text boxes.

Figure 2-5 Reset password (4)



Step 4 Click **Next**. Enter the new password and confirm the password.

The password can be set from 8 characters through 32 characters and contain at least two types from number, letter and special character (excluding"", """, ";", ":" and "&"). It is recommended to set a password of high security according to the prompt.

Step 5 Click **OK** to complete the settings.

2.4 Startup Wizard

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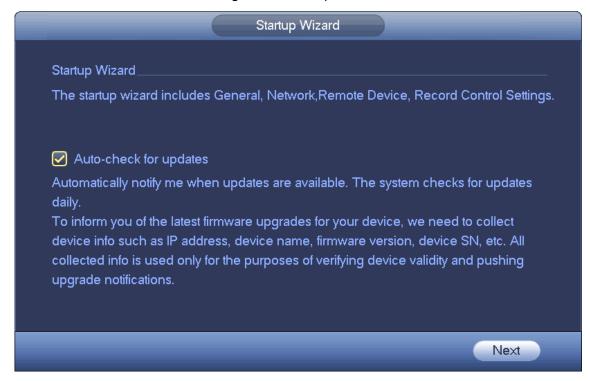
After completing all items on the startup wizard, the startup wizard automatically hides when booting up the Device next time.

After you successfully initialize the Device, the **Startup Wizard** is displayed. See Figure 2-6. Click **Next** to enter the startup wizard to configure the Device quickly. The interface is different for different devices. Please see the actual situation. For details, see *User's Manual*.

MOTE

- Once the power is off during the quick setting process, you need to go through the startup wizard again when the Device boots up next time.
- After completing all items on the startup wizard, it automatically hides when the Device boots up next time.

Figure 2-6 Startup wizard



2.5 Preview

After the normal login, it enters multi-screen preview mode by default. According to the different channel number, it displays different window splits.

© TIPS

- Preview drag: If you want to change the position of Channel 1 and Channel 16. Move the
 cursor to Channel 1, press and hold down the left mouse button, drag it to Channel 16, and
 then release the left button. The position of Channel 1 and Channel 16 are exchanged.
- Control window split by the mouse wheel: On the preview interface, you can switch window split by the rolling of the mouse wheel.

2.5.1 Preview Interface

After normal login, the Device enters the preview interface. Each window is overlaid with the date, time, channel name and window number. At the bottom of the window, the record and alarm status icons are displayed. For details, see Table 2-2.

Table 2-2 Icon description

No.	Icon	Description
1		When the current channel is recording, system displays this icon.
2	**	When motion detection occurs, system displays this icon.
3	?	When video loss occurs, system displays this icon.

No.	Icon	Description
4	8	When the current channel is in surveillance lock status, system displays this icon.
5	1	When it exceeds the decoding channel number, system displays this icon.

2.5.2 Preview Control Bar

Move the cursor to the top center of the current channel preview interface and you can see the control bar. See Figure 2-7. If the cursor stays at this area for six seconds without any operation, the control bar automatically hides.



Figure 2-7 Preview control bar

For icon description on the control bar, see Table 2-3.

Table 2-3 Icon description

No.	Icon	Description
1	10	Instant playback
2	•	Digital zoom
3		Instant backup
4		Manual snapshot
5	Q	Bidirectional talk
6	M	Switch bit streams

2.6 Record Search

Select Main Menu > OPERATION > SEARCH or right-click on the preview interface and select **Search**. The record search interface is displayed. See Figure 2-8.

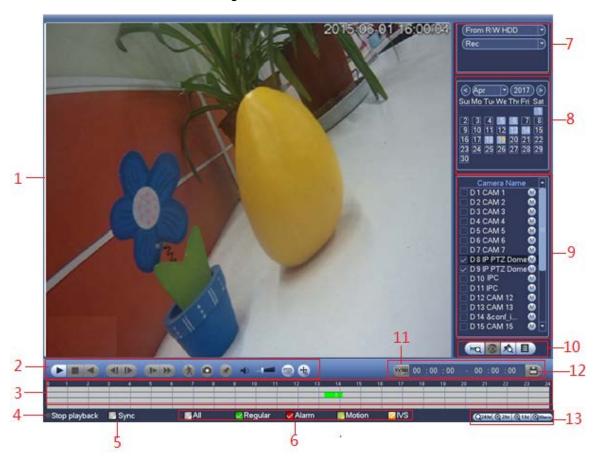


Figure 2-8 Record search

Table 2-4 Record search description

	Table 2-4 Record Search description			
No.	Name	Description		
1	Display window		e is to display the searched picture or record file.	
		• Sup	pport 1/4/9/16-window playback at the same time. (It depends on the	
	Williaow	product channel number).		
	Playback		Play/Pause	
			There are three ways for you to start the playback.	
			Play button	
		,	Click the valid period of the time bar.	
			Double-click any file in the file list.	
			In fast or slow play mode, click it to switch between play and	
2			pause.	
2	control pane		Stop.	
		•	Backward play	
			In normal play mode, left click the button and the file starts	
			backward play. Click it again to pause the current play.	
			In backward play mode, click ▶ or II to restore normal play.	
		∢I ,	In normal play mode, when you pause the current play, you	

No.	Name	Descrip	tion
		I	
			can click and let to start frame-by-frame playback.
			● In frame-by-frame playback mode, click ▶ or ▮ to restore
			normal playback.
		le.	Slow play. In playback mode, click it to realize various slow play modes such as x1/2 and x1/4. It can also be used as the reverse switch key of fast-forward play. NOTE The actual playback speed depends on the version.
		>	Fast forward. In playback mode, click it to realize various fast forward play modes such as x2 and x4. It can also be used as the reverse switch key of slow play. NOTE The actual playback speed depends on the version.
		*	 Smart search. The current window is playing video, select a box on the window for motion detection, and then click this icon to start MD play. When MD play is going on, click this icon again to stop the MD video play. When you switch to some other file in the file list, it switches to MD play of the corresponding file. During MD play, you cannot switch timeline, play backward or play frame-by-frame. NOTE For details, see Smart Search in <i>User's Manual</i>.
		4	Playback volume.
			 Snapshot. In full-screen mode, click this icon to snapshot a picture. Snapshot backup supports path selection. Connect the external device, click the snapshot icon in full-screen mode, and then the system pops up the export interface. Create or select the path, click the start icon, and then the image is exported to the specified path.
			Tag.
		P05	In single-channel playback, click this icon to display POS information on the screen.
		4	In single-channel playback, click this icon to display smart rule information on the screen.
3	Timeline		splay the record type and its period in current search criteriawindow playback mode, system displays the corresponding four

No.	Name	Description
		 timelines. In other playback mode, there is only one timeline. Click any point of the color zone in the timeline, system starts play back from this time point. If you are playing the file, it zooms in the nearest period of the current playback time Different colors for different record types. Green: Regular record. Red: Alarm record. Yellow: Motion detection record. Orange: IVS.
4	Play status	Display the current playback status, including starting playback and stopping playback.
5	Sync playback	Select the check box and system plays records of different channels at the same time in multiple screens.
6	Record type	Select the record type to search. NOTE Only some series products support IVS. See the actual situation.
7	Search type selection	 Select to play from R/W HDD, external device or redundant HDD. You can select the path when playing from external device. You can select to search records, pictures or clips. NOTE Redundant HDD does not support picture backup, but it supports picture playback. If the picture exists in the HDD before changed to a redundant disk, you can select to play the picture from the redundant HDD.
8	Calendar	In any playback mode, click a date in the calendar and the records of the corresponding date is displayed. The one in blue means record/picture is available that day. The one without color means no record/picture that day.
9	Playback mode and channel selection	 Select the channel in the list. System splits the window according to the selected channel number. The system supports to select 16 channels at most. Click to switch the main stream and sub stream. M: Main stream; S: Sub stream. During the playback, is displayed on the top right corner. Click to display in full screen and right-click the mouse to exit full screen. In the full screen mode, move the cursor to the bottom of the screen and system displays the play bar.
10	List display selection	Display icons such as search and tag list of POS record. NOTE Different models support different functions and the icons are various. See the actual situation. POS record search list. Click this icon and a search bar is displayed at the bottom of the window. It supports exact search and fuzzy search. The results are displayed in the list on the right.

No.	Name	Description	
		Double-click the file to play the corresponding record.	
		Goods Fuzzy Q	
		NOTE	
		Only support POS record search in single channel mode.	
		Tag list. Click this icon to display all the records with tag	
		Double-click the file to play it.	
		Human face list. In single channel mode, click this icon to filter out	
		all the human faces to form a file list. Double-click the file to play the corresponding record or picture.	
		File list. Click this icon to display the searched record files. You	
		can lock or unlock the files.	
		Fish-eye playback de-warping.	
11	Video clip	Clip a record and save it.	
12	Backup	Backup record file.	
13	Timeline unit	Including Q24hr, Q2hr, Q1hr and Q30min. The smaller the time	
		unit, the larger the magnification.	

2.7 Network Settings

Step 1 Select Main Menu > SETTING > NETWORK > TCP/IP. The **TCP/IP** interface is displayed. See Figure 2-9.

Figure 2-9 TCP/IP



Step 2 Click

The **Edit** interface is displayed. See Figure 2-10.

Figure 2-10 Edit



Table 2-5 Edit parameter description

Parameter	Description	
Network Mode	 Single NIC: The NICs operate separately. You can use the services such as HTTP and RTSP via each NIC. Usually you need to set a default card (default setting is Ethernet Port 1) to request the auto network service from the device-end such as DHCP, email and FTP. In network status detection, system shows offline once one card is offline. Fault tolerance: In this mode, the Device uses bond 0 to communicate with 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 the alternate card when the master card is in malfunction. System shows offline when both these two cards are offline. The bound cards shall be in the same LAN. Load balance: In this mode, the Device uses bond 0 to communicate with external devices. All NICs are working and bearing the network load. Their network load are general the same. System shows offline when all NICs are offline. The bound cards shall be in the same LAN. NOTE Different models have different NIC numbers. See the actual situation. Select the check box to select the NIC to bind. The binding comes into effect 	
NIC Member	only after device reboot. NOTE In fault-tolerance and load-balancing mode, binding network cards is supported, and the card number shall be no less than 2. Ports of different materials (such as optical port and electrical port) cannot be bound to each other	
IP Version	You can select IPv4 or IPv6. Both types are supported currently.	
MAC Address	Display the MAC address.	
IP Address	Enter the IP address, subnet mask and default gateway you want to set. NOTE The Device validates all IPv6 addresses. Default gateway and IP address shall be in the same network segment.	
DHCP	 Obtain IP automatically. When DHCP is enabled, IP address, sebnet mask and default gateway cannot be entered. If the DHCP is effective, the system displays the obtained IP address / subnet mask / gateway. Otherwise, it displays 0. If you want to view the current IP, when DHCP is not in effect, you can close DHCP and system displays the original IP info. If DHCP is in effect, system cannot display the original IP info even after you close DHCP. You need to reset the IP parameters. When PPPoE dialing is enabled, IP address, subnet mask, default gateway and DHCP cannot be changed. 	
MTU	It is to set MTU value of the NIC. The value ranges from 1280-7200 bytes. The default setup is 1500 bytes. Please note MTU modification might result in NIC reboot and network becomes off. When saving the MTU modification, system	

Parameter	Description		
	pops up a dialogue box to confirm the device reboot. You can click Cancel to		
	terminate the current modification. Before the modification, you can check the		
	MTU of the gateway. The MTU of NVR shall be the same as or lower than the		
	MTU of the gateway. In this way, you can reduce packets and enhance network		
	transmission efficiency.		
	NOTE		
	Following recommended MTU values for reference only:		
	1500: Max value of Ethernet information packet and it is also the default		
	value. It is the typical setting when there is no PPPoE or VPN. It is the		
	default setting of some router, switch or network adapter.		
	 1492: Recommend value for PPPoE. 		
	 1468: Recommend value for DHCP. 		

Step 3 Click **OK** to complete the NIC editing.

System returns to the TCP/IP interface.

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to cancel the NIC binding. Unbinding can be effective only after device reboot.

Step 4 Set the network parameters.

Table 2-6 TCP/IP parameter description

Parameter	Description
IP Version	You can select IPv4 or IPv6. Both types are supported currently.
Preferred DNS	D DNS server IP address.
Alternate DNS	DNS server alternate IP address.
Default Card	Set according to the actual situation. It shall be in the same network segment with the IP address.
LAN Download	When network bandwidth allows, the speed of LAN download is 1.5 to 2 times of the average download speed.

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The IP address, default gateway, preferred DNS and alternate DNS for IPv6 are 128 digits. It cannot be blank.

2.8 Registration

Select Main Menu > SETTING > CAMERA > REGISTRATION. The Registration interface is displayed. See Figure 2-11.

You can register a remote device via the following two ways:

- Click Device Search and double-click the remote device in the list, or select the check box in front of the remote device and then click Add.
- Click Manual Add and enter the IP address of the remote device.

SETTING **NETWORK** 📆 CAMERA To EVENT STORAGE SYSTEM REGISTRATION Registration Status Firmware Upgrade IMAGE (Device Search) (IP Address 🔻 Search Uninitialized Initialize ENCODE Modify Preview Status IP Address Port Туре CAM NAME Filter (Null (Manual Add) (Modify IP) P Add Added Device Link Info Channel Modify Status IP Address Port Device Name 3J07E1AYAG0 D1 10.172.18.131 37777 ××× D2 171.5.34.100 D3 171.5.34.100 37777

Figure 2-11 Registration

2.9 Shutdown

Select Main Menu > SHUT DOWN. The SHUT DOWN interface is displayed. Click Shut down.

Import Export

Delete

•

Web Login

You can log in the Web interface of the Device via browsers such as Safari, Firefox and Chrome.

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- Slight difference might be found on the interfaces of different models. Following figures are for reference only. The actual product shall govern.
- Use ChromeApp to log in the Web if the Chrome version is 45 or higher. Go to the Chrome online store to download the ChromeApp installation package.
- Before logging in Web, make sure the network connection between PC and the Device is
- Step 1 Open the browser and enter the IP address of the Device into the address bar. Press Enter key.

The **Login** interface is displayed. See Figure 3-1.

Figure 3-1 Login



Step 2 Enter the username and password.

The default username is admin, and the login password is the one you set in device initialization. To ensure device security, it is recommended to modify the admin password regularly and keep it properly.

Step 3 Click Login.

The **Preview** interface is displayed. On the Web interface, you can perform operations such as system settings, device management and network settings. For details, see User's Manual.

□ NOTE

- When you log in Web for the first time, install the control according to system prompts.
- When you want to upgrade Web, delete the original control first. See the following two ways to delete the control:

- ♦ Enter C:\Program Files\webrec\WEB30\WebPlugin, and run the uninstall tool uninst.exe. The system automatically deletes the control.
- ♦ Enter C:\Program Files\webrec and delete the **Single** folder.