

# Hunter Series Network Video Recorder

**Quick Start Guide** 



# Foreword

## General

This manual introduces the functions and operations of the NVR devices (hereinafter referred to be "the Device").

## Safety Instructions

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

Signal Words	Meaning
	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.
	Provides additional information as the emphasis and supplement to the text.

## **Revision History**

No.	Version	Revision Content	Release Time
2	V1.0.1	<ul><li>Updated a figure in Schedule.</li><li>Updated electrical safety.</li></ul>	September 2019
1	V1.0.0	First release.	July 2019

## About the Manual

- The manual is for reference only. If there is inconsistency between the manual 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 manual.
- The manual 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 manual. 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 manual (in PDF



format) cannot be opened.

- All trademarks, registered trademarks and the company names in the manual 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

Thank you for purchasing our Network Video Recorder (NVR).

This manual will help you become familiar with our NVR in a short time. Please read the manual carefully before starting using your NVR and properly keep it for future reference.

## **Operating Requirement**

- Install the PoE front-end device indoors.
- The Device does not support wall mount.
- Do not place and install the device in an area exposed to direct sunlight or near heat generating device.
- Do not 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.
- Do not 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.
- Do not dismantle the device arbitrarily.
- Transport, use and store the device within allowed humidity and temperature range.

## **Electrical Safety**

- Improper battery use might result in fire, explosion, or inflammation.
- When replacing battery, make sure the same model is used.
- Use the recommended power cables in the region and conform to the rated power specification.
- Use the power adapter provided with the Device; otherwise, it might result in people injury and device damage.
- The power source shall conform to the requirement of the Safety Extra Low Voltage (SELV) standard, and supply power with rated voltage which conforms to Limited power Source requirement according to IEC60950-1. Please note that the power supply requirement is subject to the device label.
- Connect the device (I-type structure) to the power socket with protective earthing.
- The appliance coupler is a disconnection device. When using the coupler, keep the angle for easy operation.



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# Quick Start

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



Shut off the power before you replace the HDD.

## 1.1 Checking the Components



All the installation and operations here should conform to the local electric safety rules. The Device does not support wall mounting with the front panel facing down.

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

No.	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	<ul> <li>Device model conforms to the purchase order.</li> <li>Not torn up.</li> <li>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 request the after-sales service.</li> </ul>
		Appearance	No obvious damage.
3	Device	Data cables, power cables, fan cables, mainboard	No loose connection.



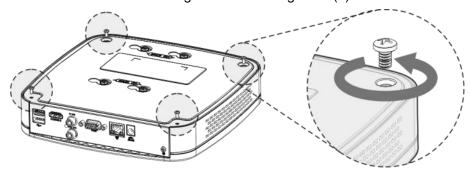


## 1.2 Installing HDD

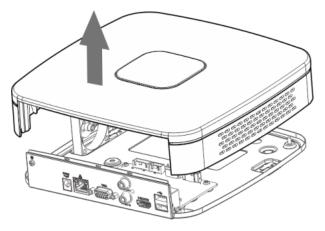
## 1.2.1 SMART 1U

For the first time installation, check whether the HDD has been installed or not. It is recommended to use HDD of enterprise level or surveillance level. It is not recommended to use PC HDD.

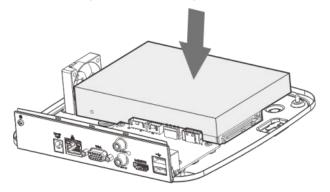
<u>Step 1</u> Turn over the device and remove the four fixing screws on the baseboard of the device. Figure 1-1 Installing HDD (1)



<u>Step 2</u> Remove the cover along the direction shown in the following arrow. Figure 1-2 Installing HDD (2)

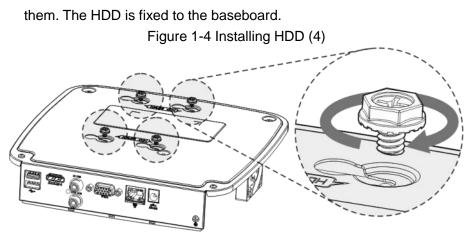


<u>Step 3</u> Match the four holes on the baseboard to place the HDD. Figure 1-3 Installing HDD (3)

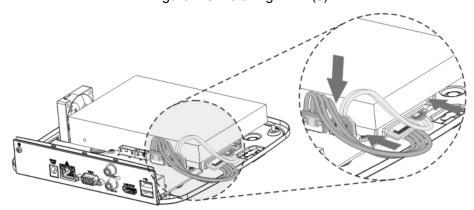


Step 4 Turn the device upside down, match the screws with the holes on the HDD and then

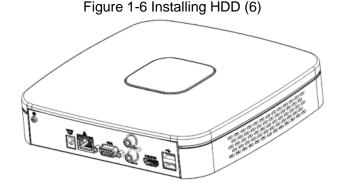




<u>Step 5</u> Connect the HDD data cable and power cable to the device. Figure 1-5 Installing HDD (5)



<u>Step 6</u> Put back the cover and fasten the four screws on the baseboard to complete the installation.



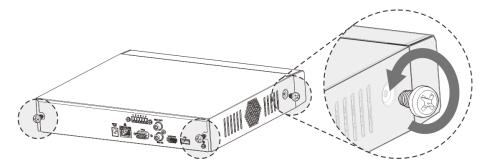
## 1.2.2 MINI 1U, COMPACT 1U, 1U

For the first time installation, make sure whether the HDD has been installed or not. It is recommended to use HDD of enterprise level or surveillance level. It is not recommended to use PC HDD.

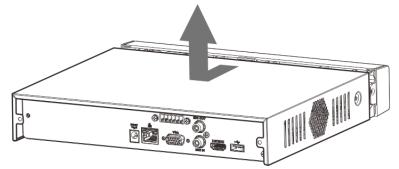
<u>Step 1</u> Remove the fixing screws of the cover (including the two screws on the rear panel and two screws on the left and right panels).



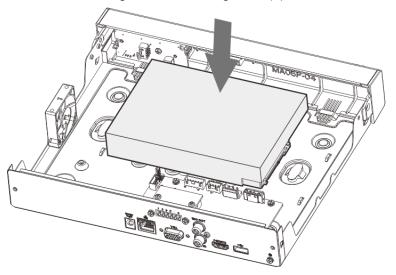
Figure 1-7 Installing HDD (1)



<u>Step 2</u> Remove the cover along the direction shown in the following arrow. Figure 1-8 Installing HDD (2)

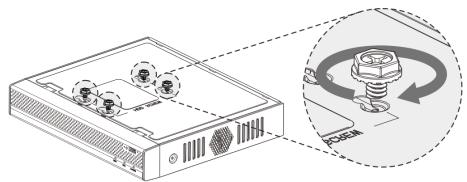


<u>Step 3</u> Match the four holes on the baseboard to place the HDD. Figure 1-9 Installing HDD (3)



<u>Step 4</u> Turn the device upside down, match the screws with the holes on the HDD and then fasten them. The HDD is fixed to the baseboard.

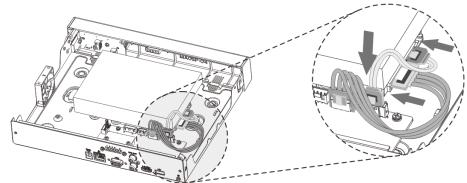
Figure 1-10 Installing HDD (4)



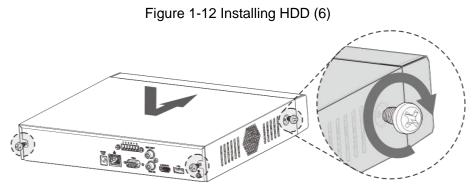


<u>Step 5</u> Connect the HDD data cable and power cable to the device.

Figure 1-11 Installing HDD (5)



<u>Step 6</u> Put back the cover and fasten the screws on the rear panel and side panels to complete the installation.

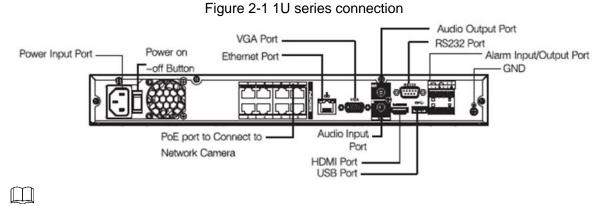




# **2** Connection

## 

The actual appearance might be different depending on the model you purchased.



- Check the icons on the rear panel carefully and refer to the actual product for detailed information.
- If the icon is C12V, input DC 12V power. If the icon is C48V, input DC 48V power.



# **3** Local Configurations

## $\square$

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

## 3.1 Booting Up



Before the boot-up, make sure:

- The rated input voltage shall match with the device power requirement. Make sure the power wire connection is ready and then press 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. It is recommended to use UPS.
- Device of some series does not have the power on-off button. You can boot up the Device once the power is connected.

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

## 3.2 Initializing the Device

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 3-1.



				Gala
	Figu	re 3-1 Enter pass	word	
Device Initialization				Ċ
1. Enter Password	<b>→</b>	2. Unlock Pattern	<b>→</b>	3. Password Protection
User admin				
Password •••••	•••			has 8 to 32 characters, it of letter(s), number(s) and
Conf	•••			st two kinds of them.(please
Pro		do not us	se special sy	mbols like ' " ; : &)

Next

Step 2 Configure the password information for admin. For details, see Table 3-1. Table 3-1 Password information description

Parameter	Description
User	By default, the user is <b>admin</b> .
Password	In the <b>Password</b> box, enter the password for admin.
Confirm Password	The password must consist of 8 to 32 non-blank characters and contain at least two types of characters among number, letter and special character (excluding ' "; : &).
Prompt Question	In the <b>Prompt Question</b> box, enter the information that can remind you of the password.
	On the login interface, click 🔜, the prompt will display to help you reset the password.

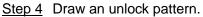
Step 3 Click Next.

The Unlock Pattern setting interface is displayed. See Figure 3-2.



Device Initialization		
1. Enter Password	$\rightarrow$ 2. Unlock Pattern $\rightarrow$	3. Password Protection
	Please draw the unlock pattern.	
		Back Skip

Figure 3-2 Unlock pattern



After setting unlock pattern, the password protection setting interface is displayed. See Figure 3-3.

 $\square$ 

- 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.
- If you do not want to configure the unlock pattern, click **Skip**. Figure 3-3 Password protection

Device Initialization		
1. Enter Passwo	ord $\rightarrow$ 2. Unlock Pattern $\rightarrow$ 3. Password	Protection
Email Address Security Questions	To reset password, please input update in time	properly or
Question 1	What is your favorite children's book?	
Answer		
Question 2	What was the first name of your first boss?	
Answer		
Question 3	What is the name of your favorite fruit?	
Answer		
		Save



# <u>Step 5</u> Configure the protection parameters for password. For details, see Table 3-2.

- 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.

Password Protection Mode	Description
Email Address	Enter the reserved email address. In the <b>Email Address</b> box, enter an email address for password resetting. In case you forgot password, enter the security code that you will get from this reserved email address to reset the password of admin.
Security Questions	Configure the security questions and answers. In case you forgot password, entering the answers to the questions can make you reset the password.

Table 3-2 Password protection parameter description

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 6 Click OK to complete the settings.

The **Startup Wizard** interface is displayed. For details about quick settings during startup, see *User's Manual*.

## 3.3 Modifying IP Address

Select Main Menu > NETWORK > TCP/IP. The TCP/IP interface is displayed. See Figure 3-4.

Click for modify the IP address according to the actual situation (the default IP address is 192.168.1.108).



## Figure 3-4 TCP/IP

						LIVE	<b>.</b>	🔿 🖌 👬
Ethernet Card	IP Address	Net Mode	NIC Member	Edit	Unbind			
Ethernet Port1	17212.70.67	Single NIC						
Ethernet Port2	192,168.2.105	Single NIC						
IP Address: 172.12	2.70.67	Default Ga	ateway: 172.12	.0.1	MTU:150			
MAC Address: 38:a	lf:29:68:db:d8	Subnet Ma	ask:255.255.0.0		Mode: ST	ATIC		
IP Version	IPv4							
Preferred DNS	= =	4.8						
Alternate DNS								
Default Card	Ethernet Por	+1						
Default Card	EthernetPor	(1						

## 3.4 Registration

Select **Main Menu > CAMERA > Registration**. The Registration interface is displayed. See Figure 3-5.

You can register remote devices through the following two ways:

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

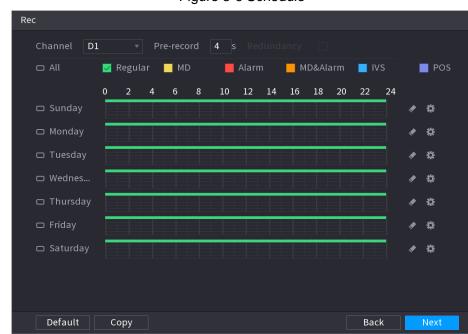
			5				
REGI	ISTRATION						
	Show Filter	None	🔻 Unini	tialized	IP Address		Search
	0	Edit	Preview	Status	IP Address		Manufac
							Þ
	Device Search			Initialize	Modify IP	Add	Manual Add
	Added Device	Link Info					
	Channel	Edit	Delete	Status IP Ado	dress	Port	Device N
	•						×
	Delete	H.265 Aut	o Switch			Import	Export
	Residue band	lwidth/T	320.00Mbp	s/320.00Mbps			
						Back	Next

Figure 3-5 Registration



## 3.5 Schedule

All channels are 24-hour recording continuously by factory default. You can customize the record period and record type.



<u>Step 1</u> Select Main Menu > STORAGE > SCHEDULE > Rec.

The **Rec** interface is displayed. See Figure 3-6.

Figure 3-6 Schedule

Step 2 Configure parameters such as channel, pre-record, ANR and record type.

- After setting one HDD to be redundant disk, select the **Redundancy** check box to realize video file backup. It is to save video files to different HDDs at the same time. Once one of the HDDs is damaged, there is still a backup file in another disk to ensure data reliability.
- Select the ANR check box to enable this function. When the IPC is out of network access, it keeps on recording and saves the records in the SD card. After the network is recovered, IPC transmits the records during the network outage back to the NVR device to ensure record integrity.
- Step 3 Set the schedule period. It includes drawing and editing.
  - Drawing: Press and hold down the left button of the mouse and drag the mouse in the time figure to draw the period.
  - Editing: Click I to configure the period and then click OK.
- <u>Step 4</u> Click **Apply** or **OK** to save the settings.

 $\square$ 

The configured record schedule can come into effect only when the auto record function is enabled. For details to enable auto record, see *User's Manual*.



## 3.6 Playback

Select **Main Menu** > **Playback** or right-click on the preview interface and select **Search**. The record search interface is displayed. See Figure 3-7.

You can play back records according to the configured record type, record time and channel. For detailed information, see *User's Manual*.

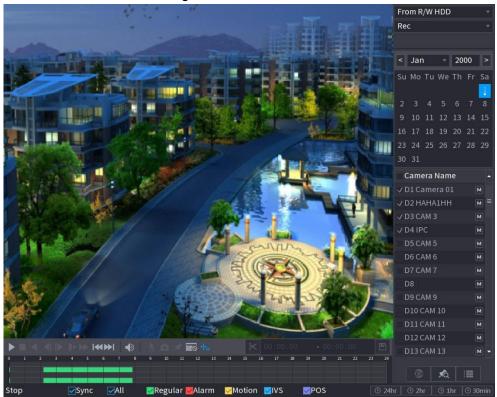


Figure 3-7 Record search

## 3.7 Shutdown

Click **Click** at the top right corner and then select **Shutdown**.



# 4 Web Operations

If it is your first time to log in to the Device, you shall initialize the Device first. For detailed information, see *User's Manual*.

<u>Step 1</u> 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 4-1.

KKR Web 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.
- If you forgot the admin login password, click **Forgot password** to reset it. For detailed information, see *User's Manual*.

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*.

 $\square$ 

• When you log in to web for the first time, install the control according to system prompts.

Figure 4-1 Login





- <u>Step 1</u> Scan the QR code with the cell phone to download and install the mobile app. You can get the mobile app QR code and device SN QR code through the following two ways:
  - Log in to the local interface and select Main Menu > NETWORK > P2P.
  - Log in to the web interface and select Main Menu > NETWORK > TCP/IP > P2P.
     Figure 5-1 Mobile app QR code



Step 2 Register device on the mobile app

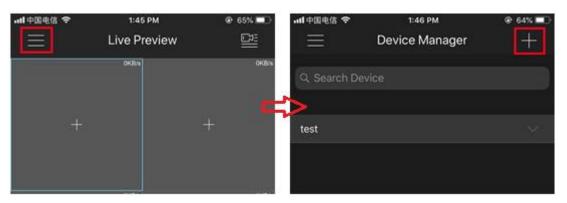
After registering the Device successfully, you can view the monitor screen on the cell phone app.

 $\square$ 

The following figures are for reference only. The actual product shall prevail. For detailed information, see *User's Manual*.

1) Tap **1**, select **Device Manager**, and then tap **1**. See Figure 5-2.

Figure 5-2 P2P (1)



 Tap the corresponding device type (Wi-Fi Device or Wired Device) and then tap P2P to register the device. See Figure 5-3.

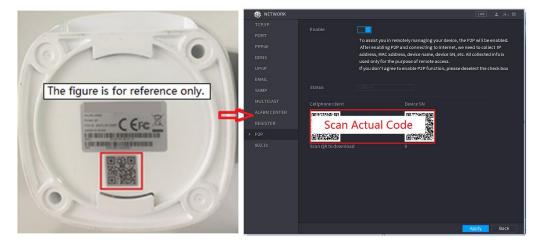


## Figure 5-3 P2P (2)

ull中国电信 奈	1:46 PM	@ 64%	ull 中国电信 🗢	1:46 PM	@ 64% 🔳 🖯
<	Add Device	). Bill	<	Add Device	
				~ · · · · ·	
				S — —	
		. / <b>=</b>	Before ad Ethernet of	ding device, please inse cable into device to ensu	rt Jre nor
( ]	5) (🗸		P2P		>
		/	IP/Domain		>
WiFi D	Pevice Wired D	evice	Dahua DDNS		>
			Quick DDNS		>

 Scan the device label or the device SN on the local interface (NETWORK > P2P) to register the device. See Figure 5-4.

Figure 5-4 P2P (3)



4) After scanning, you can view the device SN. Click **Start Live Preview** and you can see live image on the cell phone.



## Appendix 1 Cybersecurity Recommendations

Cybersecurity is more than just a buzzword: it's something that pertains to every device that is connected to the internet. IP video surveillance is not immune to cyber risks, but taking basic steps toward protecting and strengthening networks and networked appliances will make them less susceptible to attacks. Below are some tips and recommendations on how to create a more secured security system.

## Mandatory actions to be taken for basic equipment network security:

## 1. Use Strong Passwords

Please refer to the following suggestions to set passwords:

- The length should not be less than 8 characters;
- Include at least two types of characters; character types include upper and lower case letters, numbers and symbols;
- Do not contain the account name or the account name in reverse order;
- Do not use continuous characters, such as 123, abc, etc.;
- Do not use overlapped characters, such as 111, aaa, etc.;

## 2. Update Firmware and Client Software in Time

- According to the standard procedure in Tech-industry, we recommend to keep your equipment (such as NVR, DVR, IP camera, etc.) firmware up-to-date to ensure the system is equipped with the latest security patches and fixes. When the equipment is connected to the public network, it is recommended to enable the "auto-check for updates" function to obtain timely information of firmware updates released by the manufacturer.
- We suggest that you download and use the latest version of client software.

#### "Nice to have" recommendations to improve your equipment network security:

## 1. Physical Protection

We suggest that you perform physical protection to equipment, especially storage devices. For example, place the equipment in a special computer room and cabinet, and implement well-done access control permission and key management to prevent unauthorized personnel from carrying out physical contacts such as damaging hardware, unauthorized connection of removable equipment (such as USB flash disk, serial port), etc.

#### 2. Change Passwords Regularly

We suggest that you change passwords regularly to reduce the risk of being guessed or cracked.

#### 3. Set and Update Passwords Reset Information Timely

The equipment supports password reset function. Please set up related information for password reset in time, including the end user's mailbox and password protection questions. If the information changes, please modify it in time. When setting password protection questions, it is suggested not to use those that can be easily guessed.

#### 4. Enable Account Lock

The account lock feature is enabled by default, and we recommend you to keep it on to guarantee the account security. If an attacker attempts to log in with the wrong password several times, the corresponding account and the source IP address will be locked.



## 5. Change Default HTTP and Other Service Ports

We suggest you to change default HTTP and other service ports into any set of numbers between 1024~65535, reducing the risk of outsiders being able to guess which ports you are using.

#### 6. Enable HTTPS

We suggest you to enable HTTPS, so that you visit Web service through a secure communication channel.

#### 7. Enable Whitelist

We suggest you to enable whitelist function to prevent everyone, except those with specified IP addresses, from accessing the system. Therefore, please be sure to add your computer's IP address and the accompanying equipment's IP address to the whitelist.

## 8. MAC Address Binding

We recommend you to bind the IP and MAC address of the gateway to the equipment, thus reducing the risk of ARP spoofing.

## 9. Assign Accounts and Privileges Reasonably

According to business and management requirements, reasonably add users and assign a minimum set of permissions to them.

#### 10. Disable Unnecessary Services and Choose Secure Modes

If not needed, it is recommended to turn off some services such as SNMP, SMTP, UPnP, etc., to reduce risks.

If necessary, it is highly recommended that you use safe modes, including but not limited to the following services:

- SNMP: Choose SNMP v3, and set up strong encryption passwords and authentication passwords.
- SMTP: Choose TLS to access mailbox server.
- FTP: Choose SFTP, and set up strong passwords.
- AP hotspot: Choose WPA2-PSK encryption mode, and set up strong passwords.

#### 11. Audio and Video Encrypted Transmission

If your audio and video data contents are very important or sensitive, we recommend that you use encrypted transmission function, to reduce the risk of audio and video data being stolen during transmission.

Reminder: encrypted transmission will cause some loss in transmission efficiency.

#### 12. Secure Auditing

- Check online users: we suggest that you check online users regularly to see if the device is logged in without authorization.
- Check equipment log: By viewing the logs, you can know the IP addresses that were used to log in to your devices and their key operations.

#### 13. Network Log

Due to the limited storage capacity of the equipment, the stored log is limited. If you need to save the log for a long time, it is recommended that you enable the network log function to ensure that the critical logs are synchronized to the network log server for tracing.

#### 14. Construct a Safe Network Environment

In order to better ensure the safety of equipment and reduce potential cyber risks, we recommend:

• Disable the port mapping function of the router to avoid direct access to the intranet devices from external network.



- The network should be partitioned and isolated according to the actual network needs. If there are no communication requirements between two sub networks, it is suggested to use VLAN, network GAP and other technologies to partition the network, so as to achieve the network isolation effect.
- Establish the 802.1x access authentication system to reduce the risk of unauthorized access to private networks.