DIGITAL VIDEO RECORDER

Quick Start Guide

V1.0.0

Welcome

Thank you for purchasing our Digital Video Recorder (DVR).

This Quick Start Guide (hereinafter referred to be "the Guide") will help you become familiar with our DVR in a short time.

Please read the Guide carefully before starting using your DVR and properly keep it for future reference.

Important Safeguards and Warnings

- To secure your device, it is strongly recommended to create a strong password and change it periodically especially in the high security system.
- All installation and operations herein should conform to your local electrical safety codes. We assume no liability or responsibility for all the fires or electrical shock caused by improper handling or installation.
- Improper battery use might result in fire, explosion, or personal injury.
- When replacing the battery, make sure the same model is used.
- We assume no liability or responsibility for any problems caused by unauthorized modifications or attempted repair.
- Use a power supply that meets the requirements for SELV (Safety Extra Low Voltage) and complies with Limited Power Source according to IEC 60950-1. Refer to the device label for detailed information.

Safety Icons

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.
⚠ CAUTION	Indicates a potential risk which, if not avoided, may 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.

About this Guide

- The Guide is a general document for introducing the product, so there might be some functions described for DVR in the Guide not apply to the model you purchased, or the interfaces might be different, or the operations might be different, or the appearances might be different, and in these cases the actual product shall govern.
- All the designs and software are subject to change without prior written notice.
- All trademarks and registered trademarks mentioned herein are the properties of their respective owners.
- Any loss caused by not complying with the operations described in the Guide should be borne by the user.
- Upgrade the reader software or try other mainstream reader software if the Guide (in PDF format) cannot be opened.
- 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.
- Please visit our website or contact your local service engineer for more information.

Table of Contents

📖 NOTE

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

1.1 Unpacking the Accessories

1.2 Checking the Components

When you receive the DVR, 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 items		Requirement
1	Package	Appearance	No obvious damage.
		Packing materials	No broken or distorted positions that could be caused by hit.
2	Labels	Labels on the device	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 calling the after-sales service.
3	Device	Appearance	No obvious damage.
		Data cables, power cables, fan cables, and mainboard	No loose connection.

1.3 Installing Hard Disk Drive (HDD)

📖 NOTE

- Please use the recommended HDD from the manufacturer.
- Shut down the DVR and unplug the power cable before opening the cover to replace the HDD.

1. Review the screws to take off the cover.	2. Fix the HDD(s) onto the bracket. If needed, remove the top bracket to install HDD to the bottom bracket.	3. Connect one end of HDD cable to the HDD.
4. Connect the other end of HDD cable to the mainboard.	5. Use the power cable to connect HDD and mainboard.	6. Put back the cover and fasten the screws.

1.4 Installing DVR into Rack

To install the DVR into Rack, do the following:

Step 1 Check if the in-house temperature is lower than 35℃(95℉) and make sure the 15cm (6in.) spacing around the DVR for ventilation.

Step 2 Use six screws to fix the DVR on each side.

Step 3 Install from the bottom up.

⚠ CAUTION

If you want to install more accessories to the rack, take preventive measures to avoid power socket overload.

Step 4 Install more accessories to the rack if needed.

1.5 Booting up

 CAUTION

- Ensure the input voltage corresponds to the power requirement of the DVR. Turn on the DVR after the power cable is properly connected.
- To protect the DVR, connect the DVR with the power cable first, and then connect to the power source.
- To ensure the stable work of the DVR and the connected external devices such as camera and to prolong the HDD service life, please refer to the related international standard to use the power source that provides stable voltage with less ripple interference. USP power source is recommended.

Step 1 Connect the DVR to a display.

Step 2 Plug in the power cable to the DVR.

Step 3 Press the power button to turn on the DVR. The power indicator glows.
On the connected display, the live view screen is displayed. If you turn on the DVR during the time period that is configured for recording, the system starts recording after it is turned on, and you will see the icon indicating recording status in specific channels.

2 The Grand Tour for Rear Panel

📖 NOTE

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

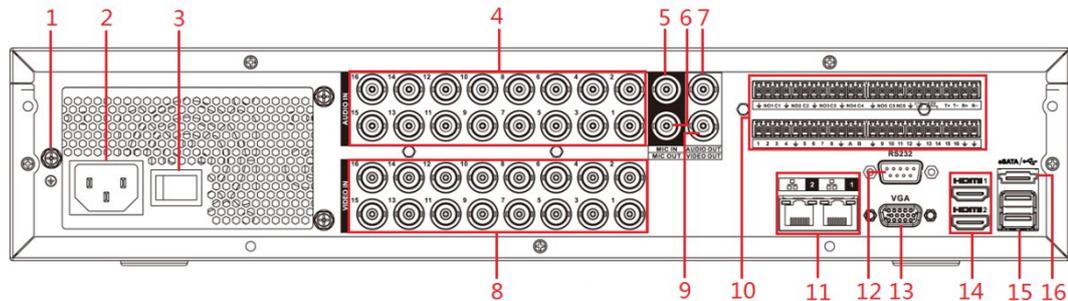The following figure shows the rear panel of the DVR.

Figure 2-1

No.	Port Name	Function
1	⏚	Ground terminal.
2	Power input port	Inputs power.
3	Power button	Turns on/off the DVR.
4	Audio input port	Receives audio signal output from the devices such as microphone.
5	MIC IN	Two-way talk input port which receives analog audio signal output from the devices such as microphone and pickup.
6	MIC OUT	Two-way talk output port which outputs the analog audio signal to the devices such as the sound box.
7	Audio output port	Outputs audio signal to the devices such as the sound box.
8	Video output port	Connects to video output devices such as TV.
9	Video input port	Connects to analog camera to input video signal.
10	Alarm input port 1–16	4 groups of alarm input ports (Group 1: port 1 to port 4; Group 2: port 5 to port 8; Group 3: port 9 to port 12; Group 4: port 13 to port 16). These ports receive the signal from the external alarm source. There are two types: NO (normal open) and NC (normal close). 📖 NOTE When your alarm input device is using external power, please make sure the input device and the DVR connect to the same ground.

No.	Port Name	Function
	Alarm output port 1–5 (NO1–NO5; C1–C5; NC5)	• 5 groups of alarm output ports (Group 1: port NO1–C1,Group 2:port NO2–C2,Group 3:port NO3–C3, Group 4 : port NO4–C4, Group 5: port NO5, C5, NC5). These ports output alarm signal to the alarm device. Please make sure power supply to the external alarm device. • NO: Normal open alarm output port. • C: Alarm output public end. • NC: Normal close alarm output port.
	RS485 communication port	Connects to the control devices such as speed dome PTZ. RS485_A port is connected by the cable A and RS485_B is connected to the cable B.
	Four-wire full-duplex 485 port (T+, T-, R+, R-)	Four-wire full-duplex 485 port. T+ and T- is the output wire; R+ and R- is the input wire.
	Power output control for alarm output port 6 (CTRL 12V)	Controls power output of the 6th alarm output port. The current is 500mA. • Turns off power output when there is alarm output. • Turns on power output when the alarm is cleared.
	12V power output port	Provides power to external devices such as camera and alarm device. Please note the power supply shall be below 1A.
	⏚	Ground.
11	Network port	Connects to Ethernet port.
12	VGA port	Outputs analog video data to the connected display with VGA port.
13	HDMI port	High definition audio and video signal output port. The port outputs the uncompressed high definition video and multi-channel audio data to the connected display with HDMI port.
14	RS232 debug COM	The port is used for general COM debug to configure IP address or transfer transparent COM data.
15	USB port	Connects to the external devices such as keyboard, mouse, and USB storage device.
16	eSATA port	External SATA port which connects to the device with SATA port. Perform the jumper configuration when connecting HDD.

Table 2-1

3 Local Configurations

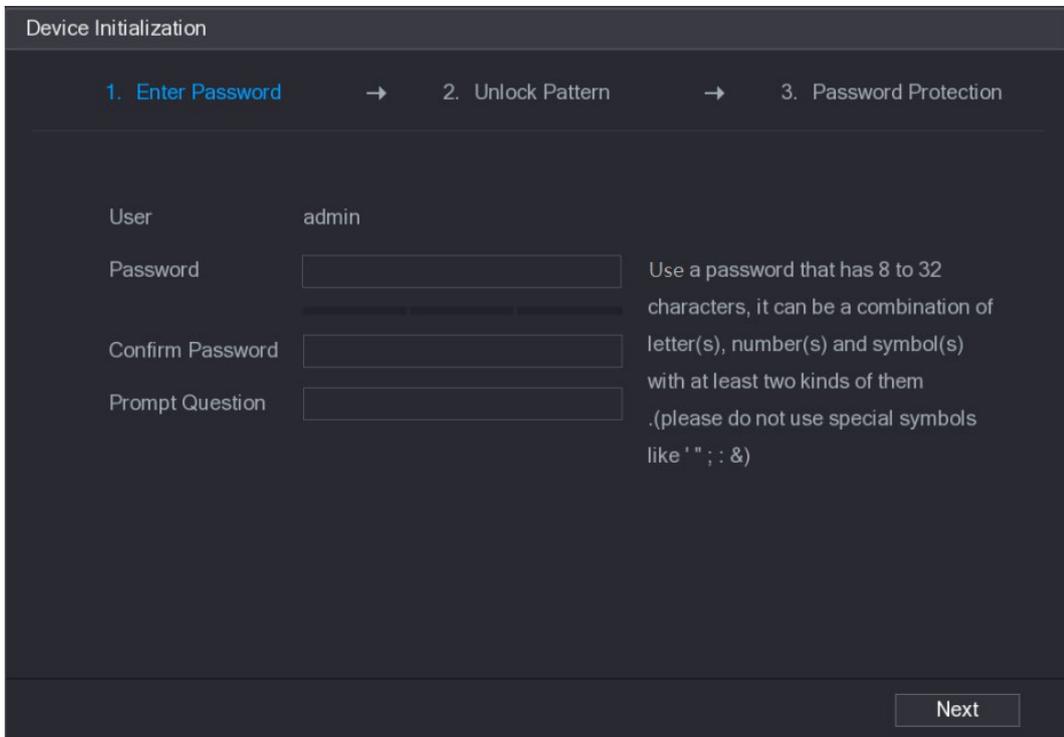Please read the following notes prior to using your DVR.

📖 NOTE

- The interfaces in the Guide are used for introducing the operations and only for reference. The actual product shall govern.
- For details about operations of the DVR, see *User's Manual*.
- To enter the Main Menu, right-click on the live view screen to display the shortcut menu, and then click **Main Menu** and login the system.

3.1 Initializing DVR

When booting up for the first time, the **Device Initialization** interface is displayed, see Figure 3-1. You need to configure the password information for the **admin** (by default). If needed, you can also configure the unlock pattern and password protection mode, see Figure 3-2 and Table 3-1.

📖 NOTE

- The new password can be set from 8 characters through 32 characters and contains at least two types from number, letter and special characters (excluding"'", "'"", ";", ":" and "&"). Please enter a strong password according to the password strength bar indication.
- To secure your DVR, it is strongly recommended to properly keep the password for admin and modify it periodically.
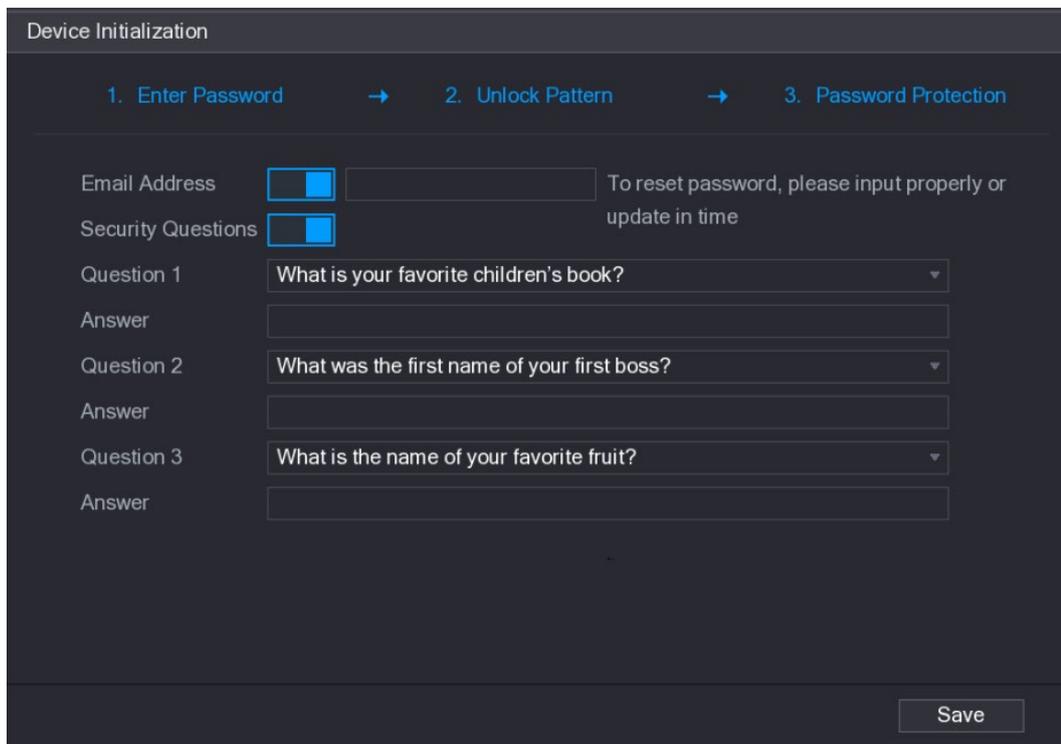

Figure 3-1

Figure 3-2

Password Protection Mode	Description
Email Address	Enter the reserved email address. In the **Email Address** box, enter an email address for password 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.
Security Questions	Configure the security questions and answers. In case you forgot password, enter the answers to the 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**.	

Table 3-1

3.2 Resetting Password

You can reset the password through the QR code or the security questions.

Step 1 Enter the login interface.

- If you have configured unlock pattern, the unlock pattern login interface is displayed. Click **Forgot Pattern**, the password login interface is displayed. See Figure 3-3.
- If you did not configure unlock pattern, the password login interface is displayed. See Figure 3-3.
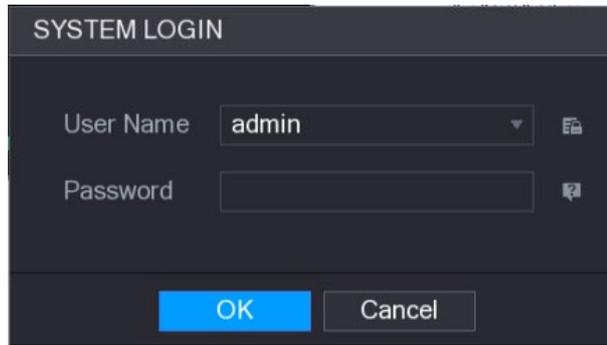
Figure 3-3

Step 2 Click .

- If you did not set the reserved email address, the email entering interface is displayed. Enter the email address, and then click **Next**, the **Reset the password** interface is displayed. See Figure 3-4.
- If you have set the reserved email address, the **Reset the password** interface is displayed. See Figure 3-4.
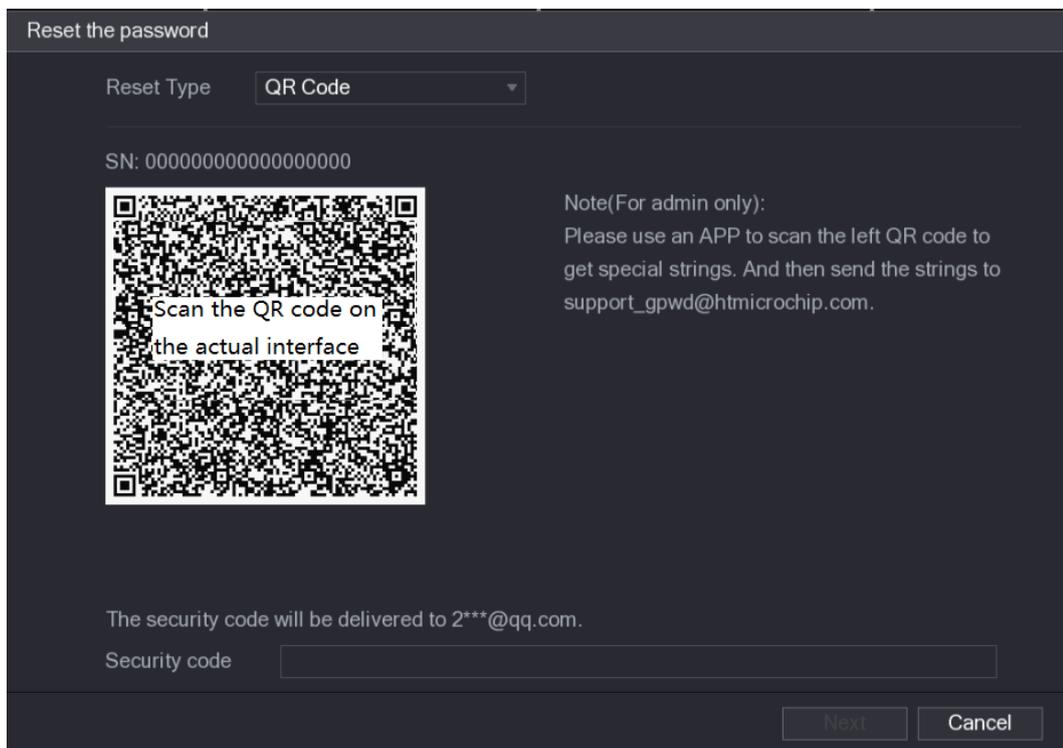

Figure 3-4

Step 3 Reset the password.

- QR code

  Scan the QR code on the actual interface, and then follow the onscreen instructions to get the security code in your reserved email address. In the **Security code** box, enter the security code.

 CAUTION

- You are given the limited times to get the security code by scanning the QR code within 24 hours. Please operate carefully.

- Please use the security code received in your email box to reset the password within 24 hours; otherwise the security code becomes invalid.
- Security questions
1) On the **Reset the password** interface as shown in Figure 3-4, in the **Reset Type** list, select **Security Questions**, the **Security Questions** interface is displayed. See Figure 3-5.

📖 NOTE

If you did not configure the security questions before, in the **Reset Type** list, there is no **Security Questions**.

2) In the **Answer** box, enter the correct answers.
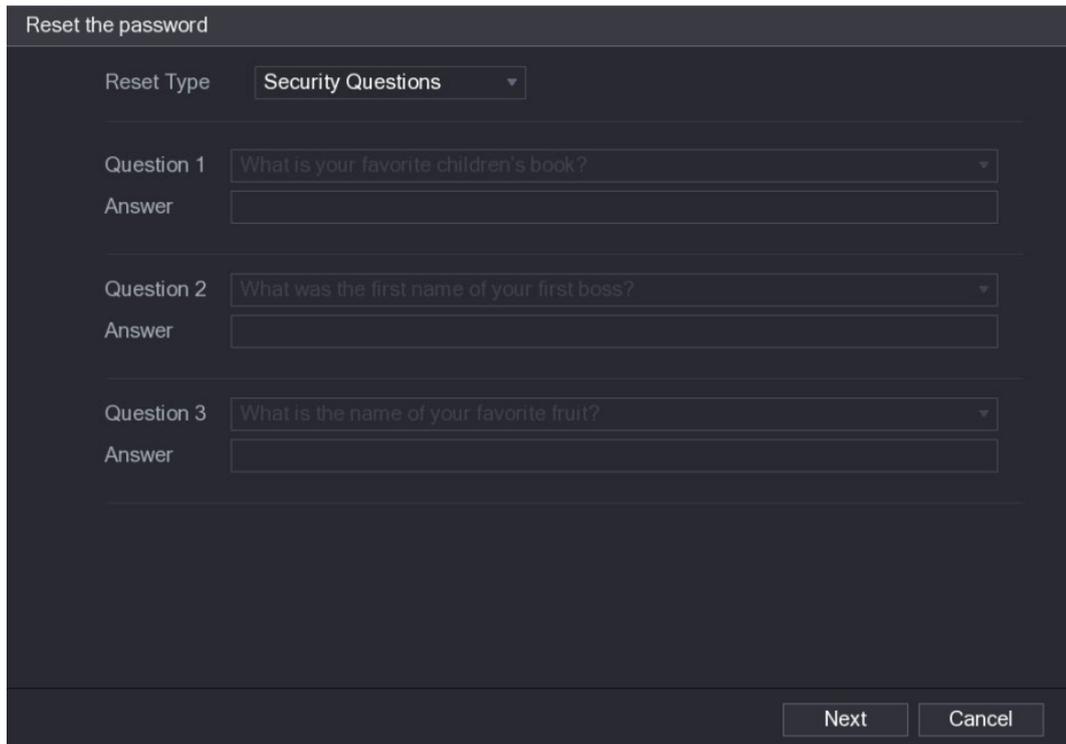
Figure 3-5

Step 4 Click **Next** and then follow the onscreen instructions to complete the password resetting.

3.3 Adding Remote Device

You can add remote devices by adding the IP address.

📖 NOTE

This function is available after having configured the channel type as IP channel by selecting **Main Menu > CAMERA > CHANNEL TYPE**.

Step 1 Select **Main Menu > CAMERA > REGISTRATION > Registration**.
The **Registration** interface is displayed.

Step 2 Click **IP Search**.
The searched devices are displayed.

Step 3 Add the device by either of the following ways.
- Double-click the device, or select the check box of the device and then click **Add**.
- Click **Manual Add**, configure the parameters and then click **Apply**.
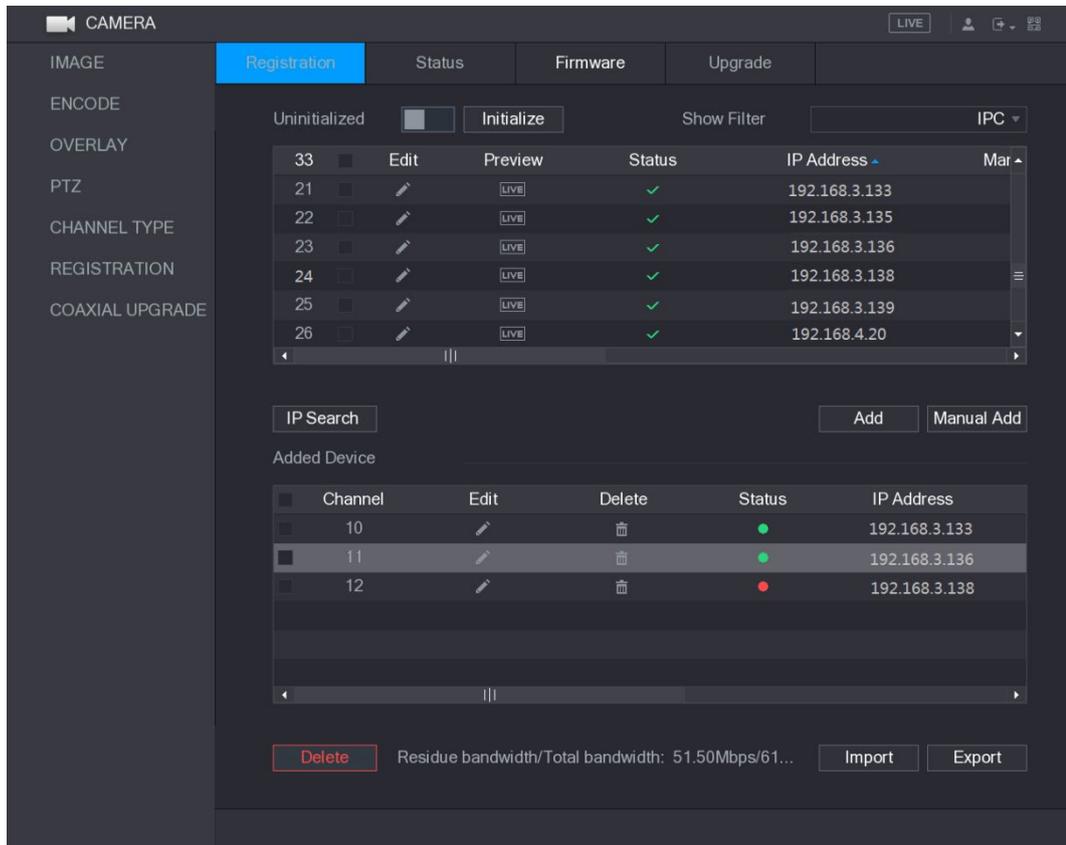The device is displayed in the **Added Device** area. See Figure 3-6.

Figure 3-6

3.4 Configuring Recording Storage Schedule

Select **Main Menu > STORAGE > SCHEDULE > Record**, the **Record** interface is displayed, see Figure 3-7.

The default setting is 24 hours recording for all channels. You can modify the settings if needed.
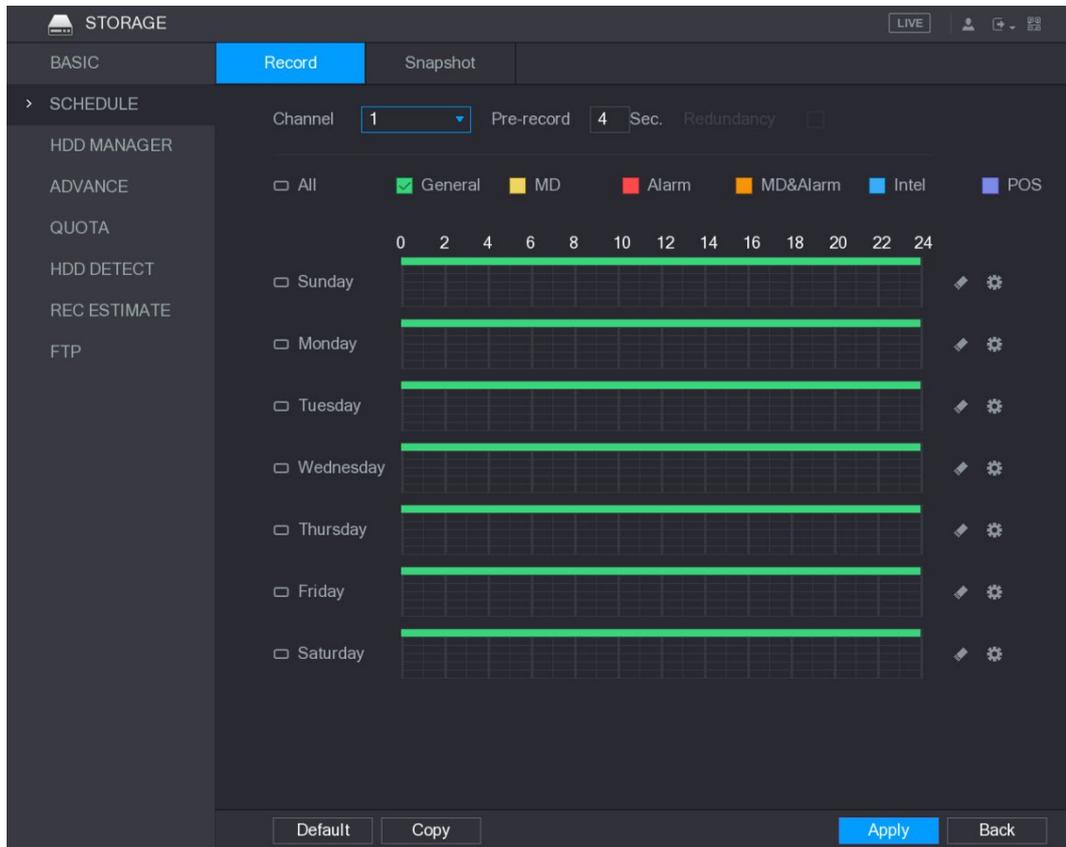
Figure 3-7

3.5 Playing Back Recorded Video

You can search for and play back the recorded videos saved on the DVR.

<u>Step 1</u>   Select **Main Menu > VIDEO**.

The video search interface is displayed. See Figure 3-7.

Figure 3-8

Step 2   Select the source as **From R/W HDD** or **From I/O Device** from where you want to search for the recorded video.

Step 3   In the search type list, select **RECORD**.

Step 4   In the calendar area, select a date.

Step 5   In the **CAM NAME** list, select a channel.

Step 6   Click ▶.

The system starts playing recorded video.

3.6 Configuring P2P Settings

You can add the DVR into your cell phone client or the platform to manage. For details, please refer to the P2P operation manual.

📖 NOTE

Make sure the DVR is connected into the Internet, and if yes, in the **Status** box of the P2P interface, it shows **Online**.

3.6.1 Entering P2P Interface

Step 1   Select **Main Menu > NETWORK > P2P**.

The **P2P** interface is displayed. See Figure 3-9.
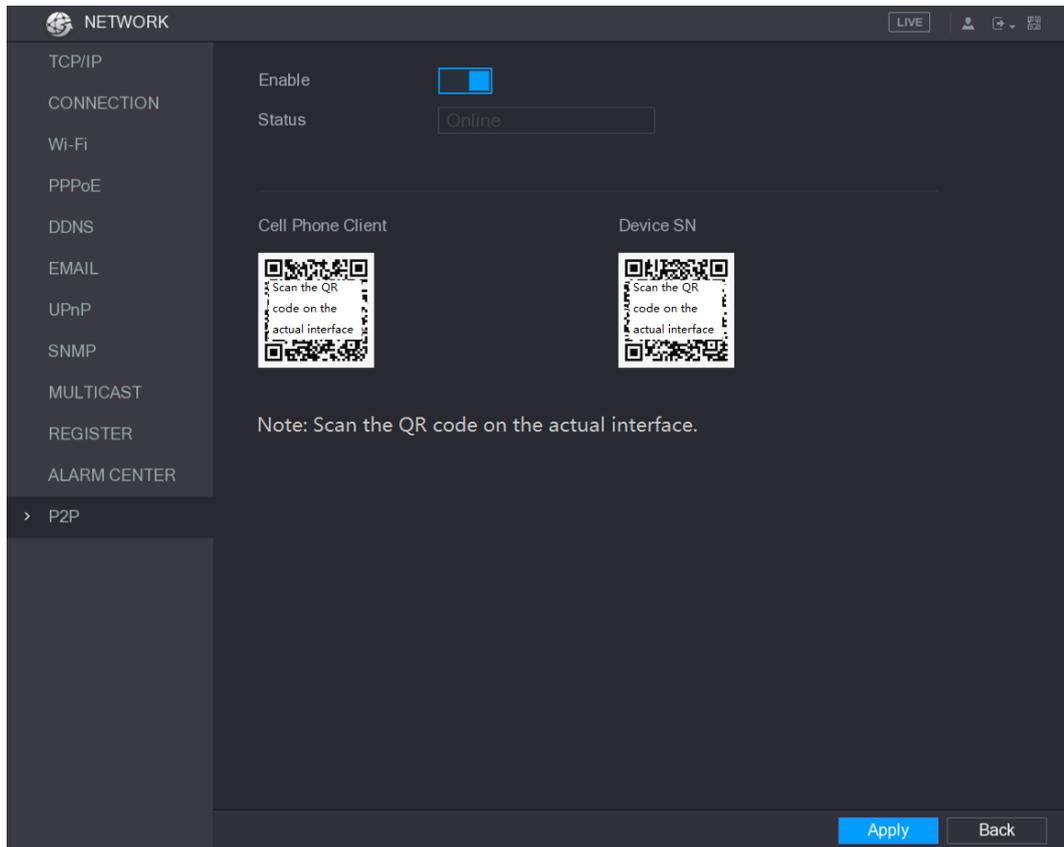
Figure 3-9

Step 2 Enable the P2P function.

Step 3 Click **Apply**.

You can start adding the DVR into Cell Phone Client or the platform.

3.6.2 Adding DVR into Cell Phone Client

To use P2P function, take adding device into Cell Phone Client as an example.

📖 NOTE

You can also enter the QR code interface by clicking [⬚] on the top right of the interfaces after you have entered the Main Menu.

Step 1 Use your cell phone to scan the QR code under **Cell Phone Client** to download the application.

Step 2 On your cell phone, open the application, and then tap [≡], the menu is displayed.

Step 3 Tap **Device Manager >** [＋] **>Add Device**.

The **Add Device** interface is displayed. See Figure 3-10.

📖 NOTE

● If the DVR has not been initialized, follow the onscreen instructions to perform initialization first.

● You can add wireless device or wired device. The Guide takes adding wired device as an example.
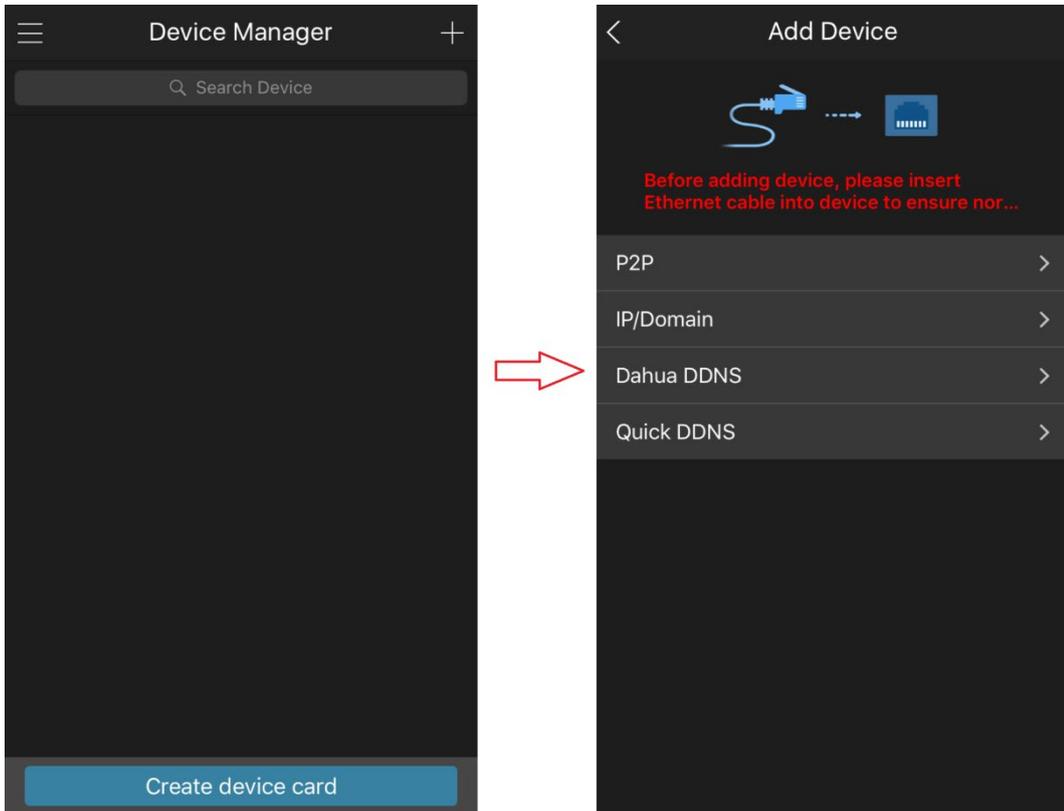
Figure 3-10

Step 4 Tap **P2P**, enter a name for the DVR, the username and password, scan the QR code under **Device SN**, and then tap **Start Live Preview**. The DVR is added and displayed on the live view interface of the cell phone. See Figure 3-11.
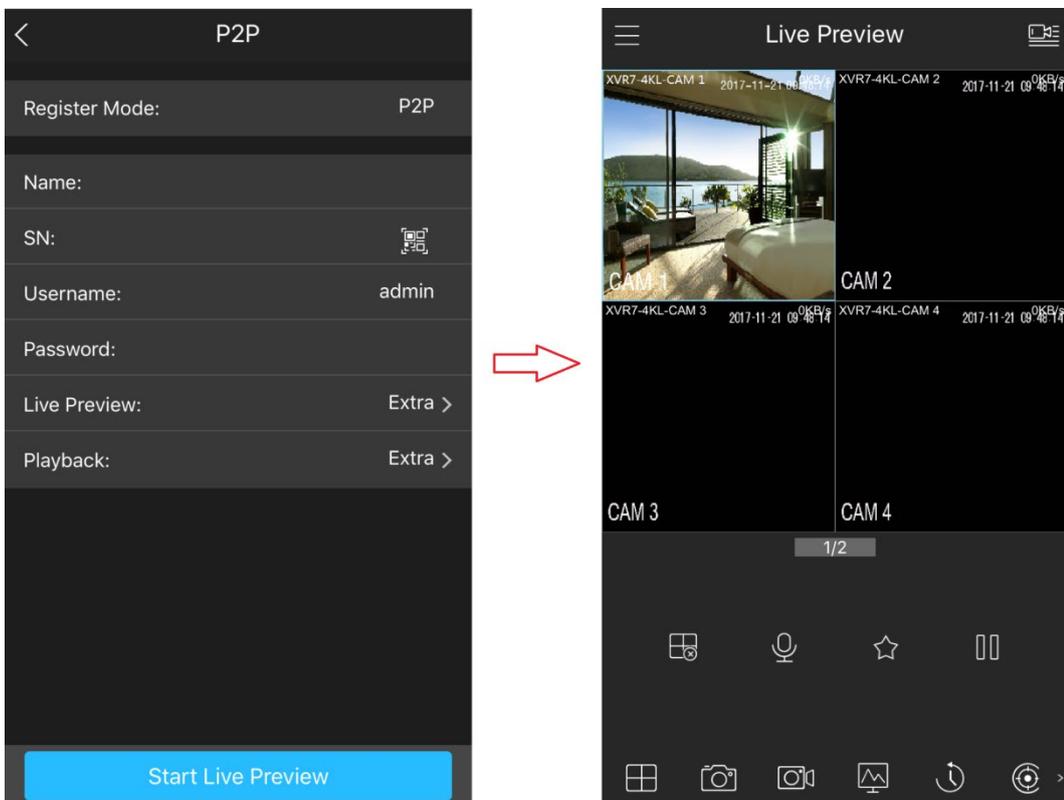

Figure 3-11

3.7 Logout

On the top right of the Main Menu interface or any interface after you have entered the Main

Menu, click ⬚.

- Select **Logout**, you will log out the DVR.
- Select **Reboot**, the DVR will be rebooted.
- Select **Shutdown**, the DVR will be turned off.

You can also press the power button on the DVR to turn it off.

Open the browser, enter the IP address of the DVR, and then press **Enter**. The **Login in** dialog box is displayed. See Figure 4-1. Properly enter the user name and password to login the web. For details, see *User's Manual*.
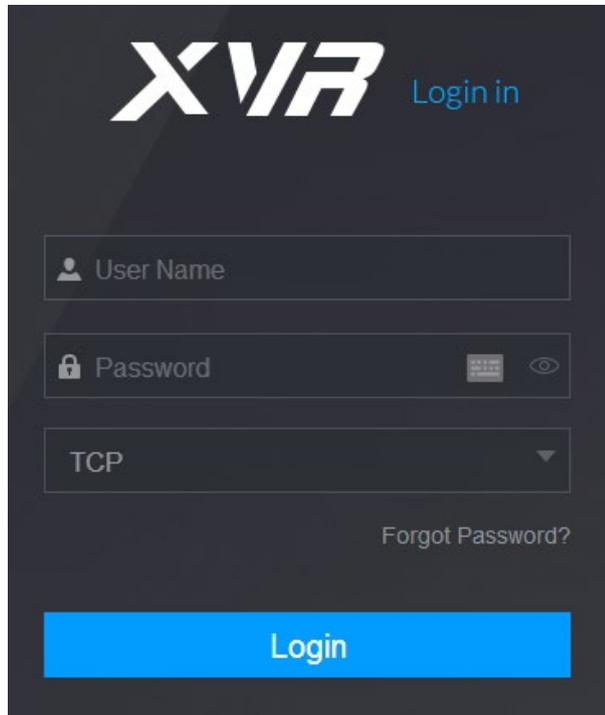

Figure 4-1

📖 NOTE

- Device initialization is required at the first login.
- The default administrator account is **admin**. The password is the one that was configured during initializing settings. To security your account, it is recommended to keep the password properly and change it periodically.
- You can select the protocol type as **TCP**, **UDP**, or **MULTICAST** depending on the networking structure. The default is **TCP**.
- If you forgot the password, click **Forgot Password?** to reset the password.
- When entering the **Live** interface for the first time, follow the onscreen instructions "Please install plugins first!" to install the plugins.