



Network Storage AT1000S Series

Quick Start Guide

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Preface

Symbol Conventions

The symbols that may be found in this document are defined as follows.

Symbol	Description
 Note	Provides additional information to emphasize or supplement important points of the main text.
 Caution	Indicates a potentially hazardous situation, which if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
 Danger	Indicates a hazard with a high level of risk, which if not avoided, will result in death or serious injury.

Safety Instructions

- Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.
- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region. Please refer to technical specifications for detailed information.
- Input voltage should meet both the SELV (Safety Extra Low Voltage) and the Limited Power Source with 100 to 240 VAC or 12 VDC according to the IEC60950-1 standard. Please refer to technical specifications for detailed information.
- Do not connect several devices to one power adapter as adapter overload may cause overheating or a fire hazard.
- Please make sure that the plug is firmly connected to the power socket.
- If smoke, odor or noise rise from the device, turn off the power at once and unplug the power cable, and then please contact the service center.

Table of Contents

Chapter 1 Device Installation	1
1.1 Check the Packing List	1
1.2 Product Appearance Introduction	1
1.2.1 Front panel	1
1.2.2 Rear panel	2
1.3 Installation	3
Chapter 2 System Configuration	6
2.1 Login and Activation	6
2.2 Configuration Wizard	7
Chapter 3 Service Configuration	11
3.1 Add Channel	11
3.2 Configure Storage Pool	12
3.2.1 Add Storage Pool	12
3.2.2 Edit/Delete Storage Pool	14
3.2.3 Adjust Storage Pool Space	14
3.2.4 Link Channel	14
3.3 Configure Recording Schedule	15
3.4 Live View	17

Chapter 1 Device Installation

1.1 Check the Packing List

Please check the packing list to ensure that all items are complete.

1.2 Product Appearance Introduction

1.2.1 Front panel

The front panel of the device is shown in Figure 1-1. The order of the HDD positions is on the left side of the chassis.



Note

The device comes with pre-installed HDDs. Please do not change the HDD slot positions, as this may cause RAID errors.

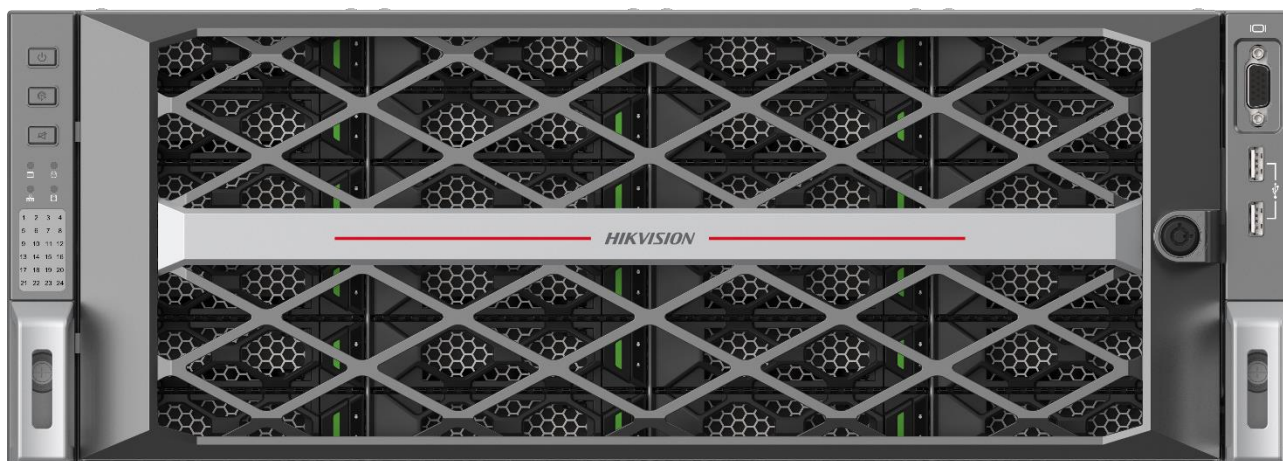


Figure 1-1 Front Panel of the Device

Please refer to Table 1-1 for the description of the buttons and indicators.

Table 1-1 Button and Indicator Description

Icon	Name	Description
	Power button and indicator	Green light solid on: The device is on, and the power supply is working normally. Long press for 4 seconds: Shutdown. Long press for 10 seconds: Forced shutdown.

Icon	Name	Description
	Locate button and indicator	Blue light blinking: The device is being located. Blinking will stop after 10 minutes.
	Mute button and alarm indicator	Red light blinking with buzzing: There are alarm event(s). • Warning: Blinking 1 time per second. • Serious: Blinking 2 times per second. • Emergency: Blinking 4 times per second.
	Ready indicator	Red light solid on: Device is starting up. Green light solid on: Device is ready.
	HDD indicator	Green light solid on: HDD is operating normally. Red light solid on: HDD is disconnected/abnormal/incompatible.
	Network indicator	Green light solid on: Network operating normally. Red light solid on: Network cable is unplugged / Network interface exception.
	System HDD status indicator	Green light solid on: System HDD is running normally. Red light solid on: Not enough storage space.
	VGA interface	/
	USB interface	Connect to mouse, keyboard or USB flash drive.

1.2.2 Rear panel

The rear panel diagram of the 24-slot device is shown in Figure 1-2, and the interface description is in Table 1-2.

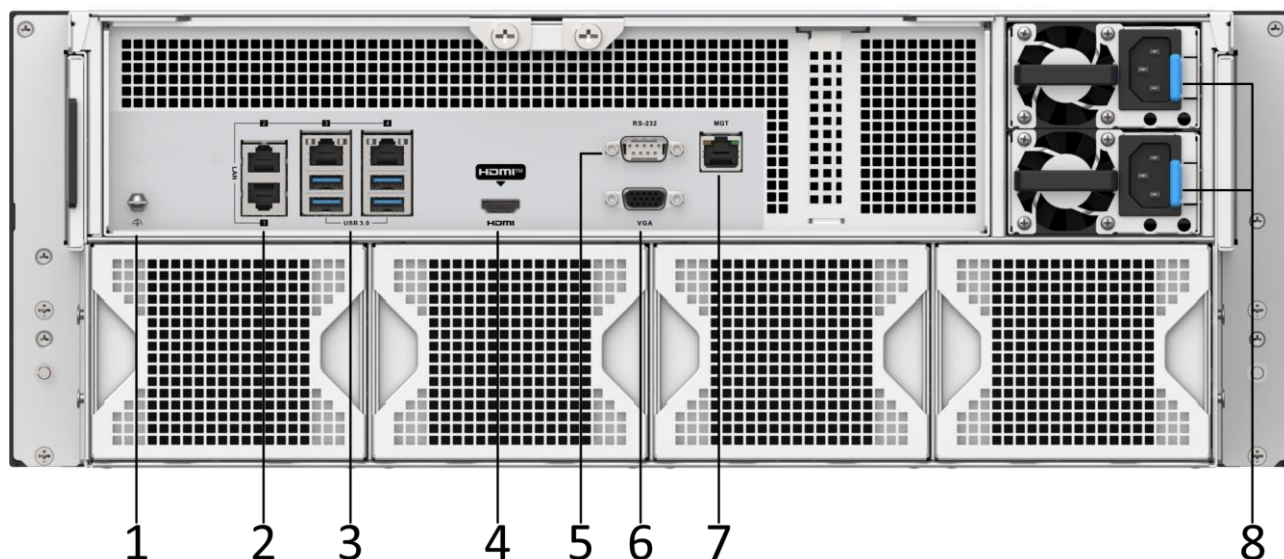


Figure 1-2 Device Rear Panel

Table 1-2 Device Rear Panel Interface Description

Number	Name	Number	Name
1	GND	5	RS-232 interface
2	LAN network interface	6	VGA interface
3	USB 3.0	7	Management network interface
4	HDMI interface	8	Power supply

1.3 Installation

This chapter will explain the installation steps for HDDs.

Step 1 Use the key to unlock the panel and remove the front panel chassis.

Step 2 Pull out the side of the front panel with the panel lock at an angle less than 10°, and then slide it horizontally to the left to remove the front panel. Be careful to avoid bending or damaging.

Step 3 Lift the blue spring latch on the hard drive tray to the left to pull out the handle, and then extract the hard drive tray along the guide rails from the chassis.

Step 4 Disassemble the support bracket of the HDD tray.

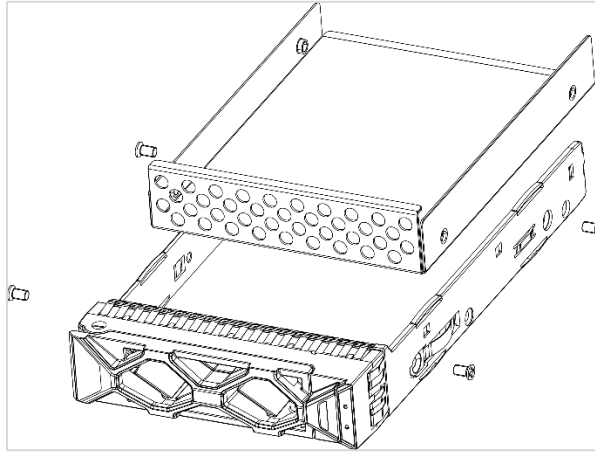


Figure 1-3 Remove the Hard Drive Tray Bracket

Step 5 Secure the HDD to the tray using 4 screws.

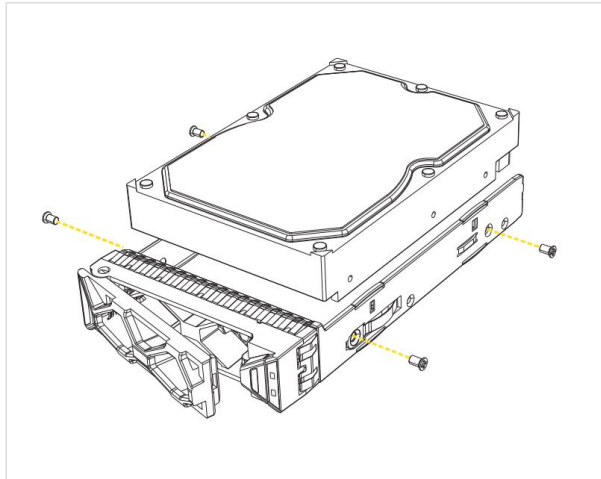


Figure 1-4 Secure the HDD to the Tray

Step 6 Insert the hard drive tray into the chassis following the direction shown in the diagram, and push it fully along the rails until it clicks into right place.

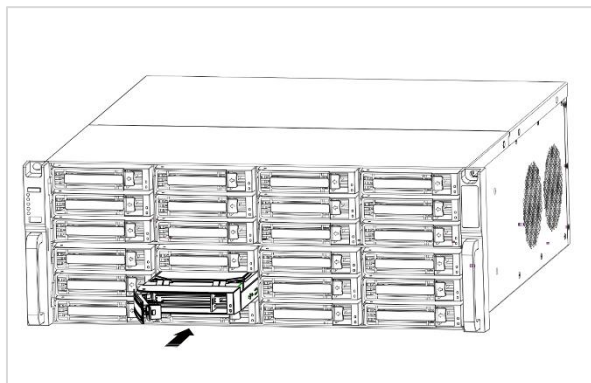


Figure 1-5 Plug in the HDDs

Step 7 Press down the handle to close the blue spring latch, and ensure the HDDs are properly installed and locked.



Repeat Steps 3 to 7 to install additional HDDs.

Step 8 Reattach the front panel and lock it with the key.

Chapter 2 System Configuration

2.1 Login and Activation

Connect the network interface of the notebook to the management network port of the storage device using an Ethernet cable.

Set the IP address of the PC to be in the same subnet as the management network port of the device, with the default management port IP address being 10.254.254.254. For example, set the notebook's IP address to 10.254.254.100 and the subnet mask to 255.255.255.0.

Access the activation interface by using a browser on a laptop to visit <http://10.254.254.254>, and set a login password during activation. After entering the password, activate and enter the system as shown in the following figure.



Figure 2-1 Device Activation

Set a security question for account security after creating a password.

Account Security Settings

Security Question Configuration

Security Question1
What is your father's name?
Answer

Security Question2
What is your mother's name?
Answer

Security Question3
What is the name of your teacher in charge of class in senior high sc...
Answer

Export GUID File

Note: The GUID file is very important which can help you to retrieve your password. It is highly recommended to export and keep the GUID file properly.

Export

Figure 2-2 Account Security Settings



Caution

Principles your password creation should follow:

- The password should be 8 to 16 characters. The password should contain at least 2 character types, such as digits, uppercase letters, lowercase letters, and special characters.
 - Do not use risky password: The password should not contain user name, "123" and "admin" (case-insensitive), consecutive increasing or decreasing digits of four or more (such as 1234, 12345, 4321), four or more consecutive identical characters (such as 1111, 8888, "aaaa") and any risky passwords in risky password list.
 - After logging into the system, if there is no operation within five minutes, for security reasons, the system will log out.
 - After forgetting the password, the password can be retrieved by using the device network search (SADP), GUID, answers of security questions and reserved e-mail.
-

2.2 Configuration Wizard

After login, the system will automatically perform environment detection and then you will enter the Wizard page, where you can configure the NIC bond, configure time and storage. Operations on the Wizard page are all optional, and you can skip them and configure the corresponding parameters later.

Step 1 View the environment detection result and enter the wizard configuration page.

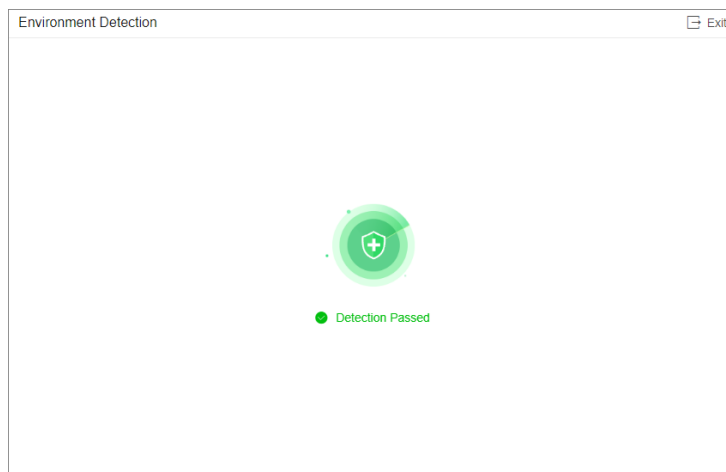


Figure 2-3 Environment Detection Passed

Note

Some of the reasons that may cause environment detection failure are as follows: the number of HDDs is less than N-1 (N = maximum HDDs supported by the current model), or there is one or more incompatible HDDs, or HDD capacity is insufficient. Click Details for the detailed failure information.

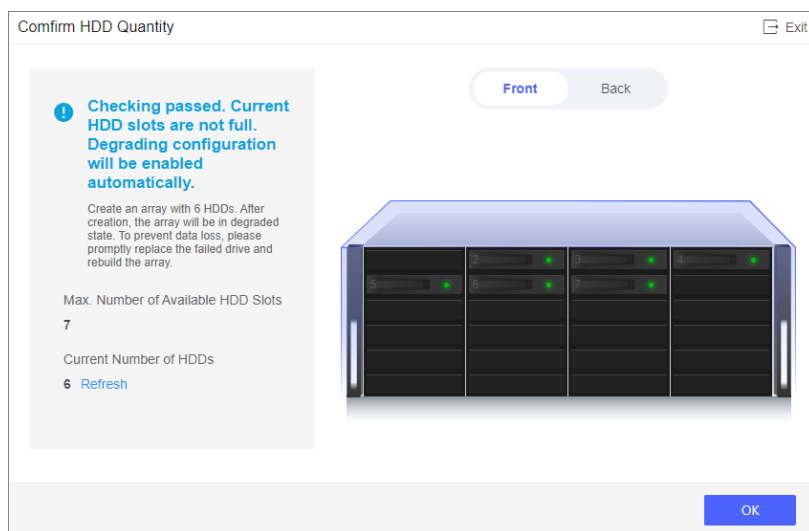


Figure 2-4 Check HDD Quantity

Step 2 Click **Add NIC bonding** to configure the NIC bonding, and click **Next**.

The screenshot shows the 'Wizard' interface for network configuration. At the top, there are four steps: 1. Network (active), 2. Time, 3. Snapshot, and 4. Storage. The main content area is titled 'NIC Selection'. It shows a selected NIC 'bond0' with an 'Unbind' button. To the right is a dashed box with a '+ Add NIC Bonding' button. Below this, the 'Mode' is set to 'Self-Adaptive Load Balancing (Virtualized)' and 'Balanced' is set to 'L2'. Under 'Bounded NIC', four ports are listed: LAN1, LAN2, LAN3, and LAN4, each with a '2.5 Gbps' speed. Below these are input fields for '* IP Address', '* Subnet Mask', 'Gateway Address', 'MAC Address' (displayed as 08:00:27:00:00:00), and '* MTU' (set to 1500).

Figure 2-5 Add NIC Bonding

Step 3 Set the device time, and click **Next**.

The screenshot shows the 'Wizard' interface for time configuration. At the top, the steps are: 1. Network, 2. Time (active), 3. Snapshot, and 4. Storage. The main content area is titled 'General Settings'. A blue notification bar at the top says: 'After you change the area/country/region, the time zone and DST will also be changed.' Below this, the 'Device Time' is shown as '2026-08-19 14:09:53'. There are dropdown menus for 'Area/Country' and 'Time Zone'. The 'Time Sync Mode' has two options: 'Manual Time Sync' (selected) and 'NTP Time Sync'. Below this is a 'Set Time' field showing '2026-08-19 14:09:53' with a calendar icon and a 'Sync with compu...' button. At the bottom, there is a 'DST' section with an 'Enable' toggle switch.

Figure 2-6 System Time

Step 4 Configure snapshot.

Wizard

Network Time **3** Snapshot 4 Storage

Enable Snapshot Schedule ☒

When enabled, the device backs up snapshots based on the scheduled cycle.

Backup Location: HDD

Scheduled Cycle: Every Month Day 1 00:00:00

* Snapshot Password: Set Scheduled Snapshot Password

☐ Same as Administrator Password

* Confirm Snapshot Password: Snapshot Password Confirmation

Figure 2-7 Snapshot

Step 5 Configure storage.

Wizard

Network Time Snapshot **4** Storage

Array

The device already has array(s), and array information cannot be modified during the startup wizard.

HDD Quantity (Connected/Total) 7/7 [View](#)

Hard Disk(s) in Array 7

Existing Array

Array Name	Level	Capacity	HDDs
RAID_1	RAID5 (VRAID)	165514.64GiB	7

Storage Pool and Bandwidth

Total capacity is 165514 GiB. Recording bandwidth: 700 Mbps. The estimated retention period for recording storage is 22 day(s).

Storage Pool Total Capacity 165514GiB

Recording Pool 165514 GiB

Input Bandwidth Total Bandwidth 700Mbps

Recording Bandwidth 700 Mbps

Figure 2-8 Configure Storage

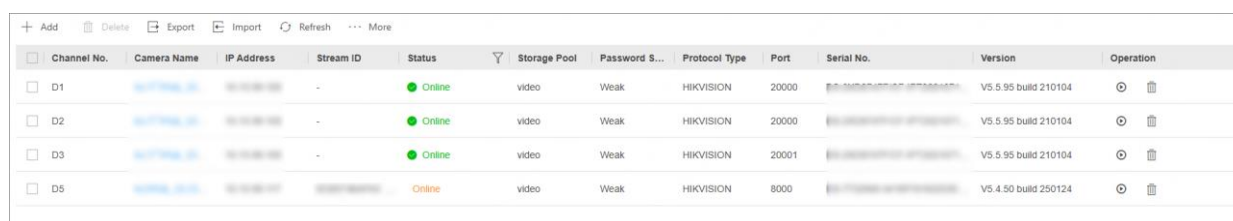
Step 6 Click **Completed** in the lower-right corner of the page.

Chapter 3 Service Configuration

Before service configuration, enter `http://the IP address of the bound network port` in the browser and log in.

3.1 Add Channel

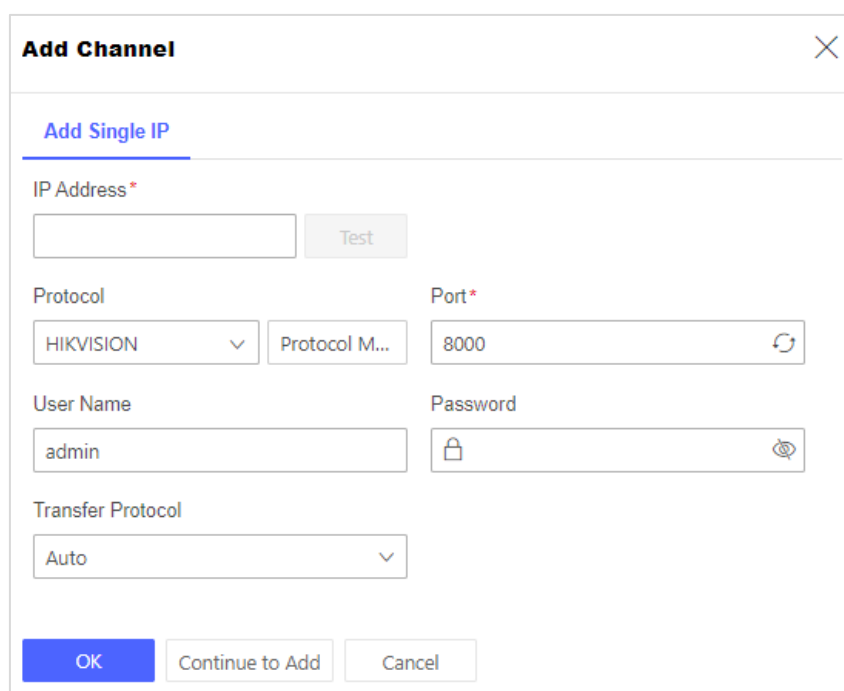
Step 1 Click **Channel Management**.



Channel No.	Camera Name	IP Address	Stream ID	Status	Storage Pool	Password S...	Protocol Type	Port	Serial No.	Version	Operation
☐ D1	192.168.1.10	192.168.1.10	-	Online	video	Weak	HIKVISION	20000	192.168.1.10	V5.5.95 build 210104	
☐ D2	192.168.1.11	192.168.1.11	-	Online	video	Weak	HIKVISION	20000	192.168.1.11	V5.5.95 build 210104	
☐ D3	192.168.1.12	192.168.1.12	-	Online	video	Weak	HIKVISION	20001	192.168.1.12	V5.5.95 build 210104	
☐ D5	192.168.1.15	192.168.1.15	1000000000	Online	video	Weak	HIKVISION	8000	192.168.1.15	V5.4.50 build 250124	

Figure 3-1 Channel List

Step 2 Click **Add**.



Add Channel

Add Single IP

IP Address*

Protocol: HIKVISION | Protocol M...

Port*: 8000

User Name: admin | Password: [lock icon]

Transfer Protocol: Auto

OK | Continue to Add | Cancel

Figure 3-2 Add Channel

Step 3 Enter the IP address of the channel.

Step 4 Click **Test** to check connectivity.

Step 5 Set the following parameters.

- **Protocol:** Select from the drop-down list or set a custom protocol. For details about customizing protocols.

- **User Name & Password:** Set for later channel management.
- **Port:** Port of the channel. It is 8,000 by default and you can edit the port number. After editing, you can click  to set the port number to the default value.
- **Transfer Protocol:** Data transmission protocol. Select **Auto**, **TCP** or **UDP**.

Step 6 Click **OK** to finish adding the channel, or click **Continue to Add** to add the channel and continue to add the next channel.

Step 7 (Optional) Perform the following after adding channels.

- **Edit Channel:** Click the camera name to enter the **Edit Channel** page and edit parameters.
- **Export Channels:** Click **Export** to export information of all channels to your local PC. Select channel(s) and click **Export** to export information of the selected channel(s) to your local PC.
- **Import Channels:** After exporting channels, enter channel information in the exported file. Click **Import**, and click  to batch import channels.

3.2 Configure Storage Pool

This section includes basic operations for storage pools: adding, editing, deleting, and adjusting storage pool space. After adding a storage pool, it is necessary to associate channels with the storage pool.

3.2.1 Add Storage Pool

Step 1 Click **Storage Management** → **Storage Pool** → **Storage Pool**.

Step 2 Click **Add**.

Add Storage Pool

Type*

☒ Recording Pool

Name*

Storage Space* [Tool for Estimating Recording Duration](#)

GiB

Minimum Quota 24 GiB, Remaining Quota Space 0 GiB

Select Channel

Search

☐ Select All

☐ IPC

> ☐ Channel is not connected.

Overwrite

☒

Video Expired Time ⓘ

Never Expire

OK Cancel

Figure 3-3 Add Storage Pool

Step 3 Configure storage pool parameters.

- **Storage Space:** Enter the storage space. You can click **Tool for Estimating Recording Duration** to calculate the estimated storage space or recording period.
- **Overwrite:** Enable this function to allow overwriting of the oldest recording when storage space is insufficient. Disable this function to stop recording when storage space is insufficient.
- **Video Expired Time:** When **Custom** is selected, recordings will be stored according to the configured recording cycle. Expired recordings will be cleared and cannot be recovered.

Note

The maximum number of recording pools is 7.

Step 4 Click **OK**.

3.2.2 Edit/Delete Storage Pool

Step 1 Click **Storage Management** → **Storage Pool** → **Storage Pool**.

Step 2 Hover around the card of the storage pool, and then click **Edit** or **Delete**.

Step 3 Edit or delete the storage pool.

Step 4 Click **OK** to complete the operation.



Caution

After deleting the recording pool, the linked channel(s) of this recording pool will be unavailable to record. Link to another storage pool promptly.

3.2.3 Adjust Storage Pool Space

Step 1 Click **Storage Management** → **Storage Pool** → **Storage Pool**.

Step 2 Click **Adjust Storage Pool Space**.

Step 3 Adjust storage pool space as needed.

- **Enter Remaining Quantity:** Allocate all the remaining capacity to the storage pool.
- **Tool for Estimating Recording Duration:** Calculate the estimated storage space or recording period.

Adjust Storage Pool Space [X]

Allocate enough space in the recording pool to ensure the channel can record normally. Note: reducing the space in the recording pool will shorten the recording cycle.

Total Capacity 405136GiB Not Configured 402916GiB [Estimate Tool for Recording Duration](#)

+ Add Storage Pool

Legend	Name	Capacity	Operation
■	Picture Pool	20 GiB 0.00%	Enter R... Delete
■	Recording Pool	2200 GiB 0.54%	Enter R... Delete

OK **Cancel**

Figure 3-4 Adjust Storage Pool Space

3.2.4 Link Channel

Supports configuring channels associated with storage pools.

Step 1 Click **Storage Management** → **Storage Pool** → **Storage Pool**.

Step 2 Click a storage pool in the list.

Step 3 Configure linked channel(s) for storage pool as needed.

-  **Linked Channel** : Add linked channel.
-  **Move To** : Move the checked channel(s) to another storage pool.
-  **Remove Channel** : Batch remove the checked channel(s) from current storage pool.
-  : Search the linked channels by channel name.

3.3 Configure Recording Schedule

Step 1 Click **Storage Management** → **Recording Schedule**.

Step 2 Turn on the switch in the **Enable** column.



Note

For channels added to the device, the switch is disabled by default.

Step 3 Set the recording schedule as **All-Day Continuous Schedule**, **All-Day Event Schedule**, or **Custom**.

Step 4 (Optional) When selecting **Custom**, set the schedule details on the right side.

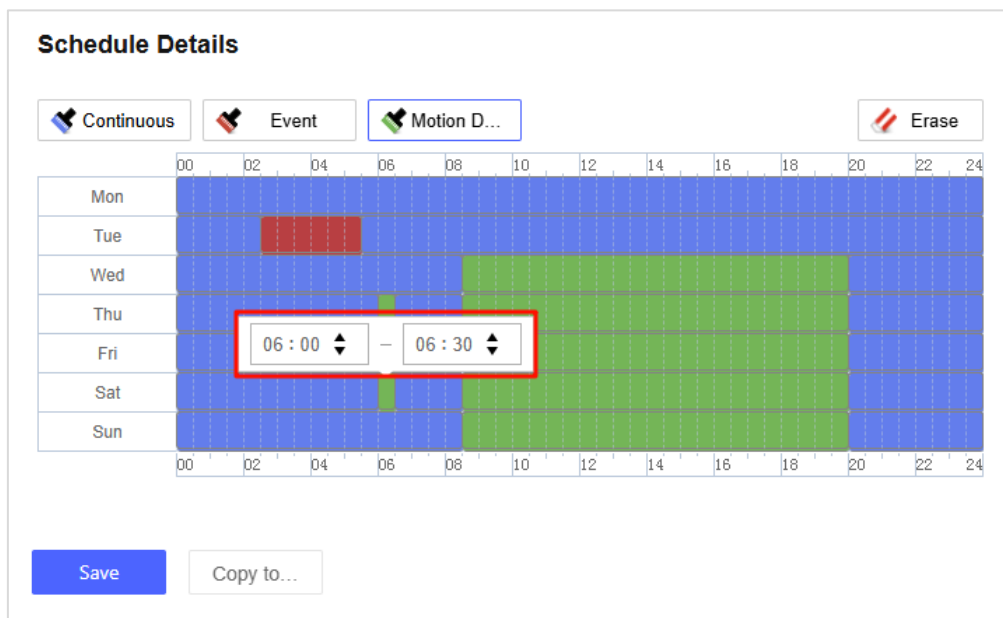
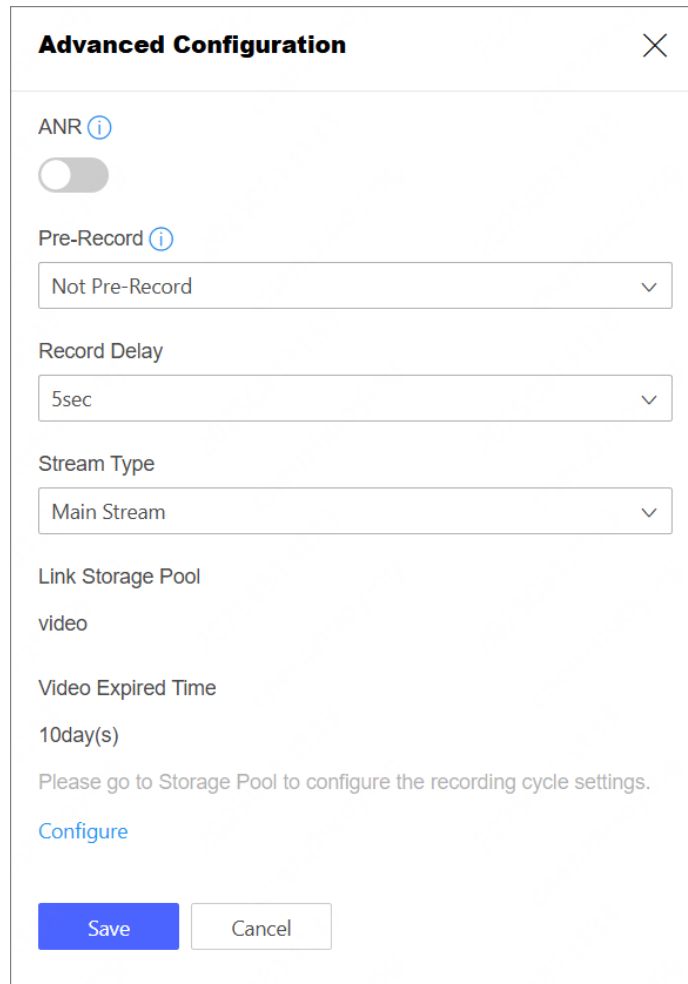


Figure 3-5 Custom Schedule Details

- 1) Select a schedule type, including **Continuous**, **Event** and **Motion Detection**. Drag the mouse to set the schedule period.
- 2) (Optional) Select **Erase** and then drag the mouse to cancel the schedule you have drawn.

- 3) (Optional) Hover around the time table to adjust the schedule at minute level.
- 4) Click **Save** to apply the schedule.
- 5) (Optional) Click **Copy To**, you can copy the schedule to other channels.

Step 5 Click  in the **Advanced Configuration** column to set the corresponding parameters.



The image shows a dialog box titled "Advanced Configuration" with a close button (X) in the top right corner. The dialog contains several settings:

- ANR** (Asynchronous Node Recovery) with an information icon (i) and a toggle switch that is currently turned off.
- Pre-Record** (with an information icon i) with a dropdown menu showing "Not Pre-Record".
- Record Delay** with a dropdown menu showing "5sec".
- Stream Type** with a dropdown menu showing "Main Stream".
- Link Storage Pool** with the text "video" below it.
- Video Expired Time** with the text "10day(s)" below it.
- A note: "Please go to Storage Pool to configure the recording cycle settings."
- A blue link labeled "Configure".
- At the bottom, there are two buttons: "Save" (blue) and "Cancel" (white).

Figure 3-6 Advanced Configuration

- **ANR:** Asynchronous Node Recovery (ANR) is a fault tolerance mechanism. When enabled, if there is a network anomaly between the device and the camera, the camera will be used for recording storage temporarily (provided that the camera is equipped with storage media). Once the network is restored, the stored data will automatically synchronize to the device, ensuring the integrity of the recordings.
- **Pre-Record:** Record before the alarm.
- **Record Delay:** Record after the alarm.
- **Stream Type:** Supports main stream and sub stream.

 Note

- Actual pre-record time may be shorter than the setting.
- After reaching the recording cycle, the outdated recordings will be deleted.
- For detailed recording cycle settings, click **Configure** to go to storage pool page.

3.4 Live View

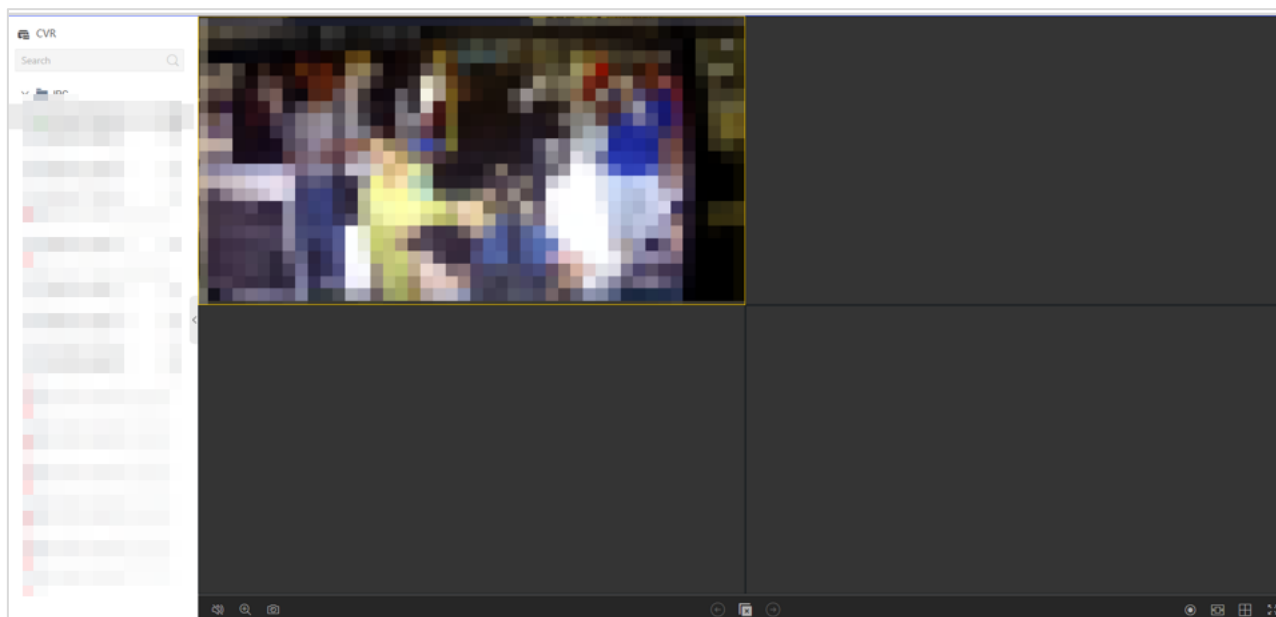


Figure 3-7 Live View

In the live view interface, you can live view images, record videos, and capture pictures.

The split screen mode supports 1, 4, 9, and 16.

Detailed function key introduction is shown in the following table.

Table 3-1 Live View Interface Function Buttons

Button	Function Description
 / 	Start All Live View / Stop All Live View
 / 	Previous/Next Page The button is only available after starting all live view.
 	Mute/Volume Adjustment
	Digital zoom. After enabling, use the mouse scroll wheel to zoom in or out of the live view.
	Capture
	Split Screen
	Start All Recordings
	Live View Ratio Supports 4:3, 16:9, Original Ratio, and Auto.
	Full-Screen



See Far, Go Further

UD47915B