

# DS-AT1000S Series Storage System Quick Start Guide

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#### Quick Start Guide

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#### About this Manual

This Manual is applicable to DS-AT1000S Series Storage System.

The Manual includes instructions for using and managing the product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version in the company website

(http://overseas.hikvision.com/en/).

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### **Regulatory Information**

### **FCC Information**

FCC compliance: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

The device is advised to note that as a seller or a business user (Class A) Devices and intended for use outside the Home area.

#### **FCC Conditions**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.

2. This device must accept any interference received, including interference that may cause undesired operation.

#### **EU Conformity Statement**

This product and - if applicable - the supplied accessories too are marked with "CE" and CF comply therefore with the applicable harmonized European standards listed under the EMC Directive 2014/30/EU, the RoHS Directive 2011/65/EU, the LVD Directive 2014/35/EU.



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may

include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info

#### Industry Canada ICES-003 Compliance

This device meets the CAN ICES-3 (A)/NMB-3(A) standards requirements.

## Applicable Models

This manual is applicable to the models listed in the following table.

Series	Model	
DS-AT1000S series	DS-AT1000S/160	
	DS-AT1000S/240	
	DS-AT1000S/300	
	DS-AT1000S/320	
	DS-AT1000S/360	
	DS-AT1000S/440	
	DS-AT1000S/480	

## Symbol Conventions

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

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

# Chapter 1 Working Environment and Installation

Devices described in this manual should be installed in the standard equipment room.

# 1.1 Environment of Equipment Room

## 1.1.1 Power Supply System

The storage system is sensitive to the change of a voltage, and an excessively high or low voltage, or a sudden change of the voltage may delete the data in the memory or even cause the damage of the components. To avoid of such damage, you must ensure the power supply is stable and grounded. You are recommended to use the UPS, or the multiple power supply if permitted.

- The voltage should be 220V ± 4%, the sudden change should be 220V ± 15%, and frequency should be 50Hz ± 0.5Hz.
- Make the neutral line and GND line connections correct, and the voltage between them must be less than 1 V.
- Grounding for AC power supply system: ensure the GND line is properly connected. The grounding for the chassis is recommended.
- Grounding for DC power supply system: the chassis must be properly grounded.
- Connect all power cords before applying power to the redundant power supply module.

## 1.1.2 Temperature and Humidity of Equipment Room

Item	Requirement
Working temperature	5 °C to 40 °C (41 °F to 104 °F)
temperature equipment room	21 °C ± 25 °C (69.8 °F ± 77 °F)
Storage temperatue	-40 °C to +70 °C (-40 °F to +158 °F)
Temperature change rate	< 5 °C/h (non-condensing)
Working humidity	20% RH to 80% RH
Storage humidity	5% RH to 95% RH
Location	Equipment room should be dust-free, and away from harmful gas, and inflammable and explosive objects. Environment with electromagnetic interference, strong virbation, noise, and unstable voltage is also not recommended.

Construction	The area of the equipment room should meet the requirements of equipment installation and capacity expansion. And the ground can bear product loading. The rooting facilities should be well designed and ready.
Air conditioner	Install an air conditioner which supports power off restart function in the machine room. The installation position of air conditioning should ensure no air will blow to the equipment directly.
Ventilation and heat dissipation	To guarantee the equipments can be well ventilated, the distance between the cabinet and the wall shall not be less than 100 cm, and the distance between two cabinets shall not be less than 120 cm. It is recommended to reserver 1U space between two equipments. Ensure aire can effectively convect between the cabinet and the equipment room.
Dust-free	For the equipment room locating near the dust source (coal mine, rural road, farmland, etc.), the windows and doors should be able to keep out the wind and sand.
Transportation	Pack the equipment into the package. Do not transport via open truck or open warehouse. And do not transport the equipment with inflammable, explosive, and corrosive goods. Protect the equipment from rain, dust, and damage.
Particulate pollutant	$\geq 0.5~\mu m.$ Dust in static air should be less than 18,000 in each litre.
Corrosive gas concentration	The corrosion rate of copper test plate must be lower than 300 Åc in each month. (According to the requirements of G1 level on corrosive gas in ANSId/ISAe-71.04-1985 standard)
Floor bearing capability	Floor load-bearing capability requirement is 600 kg/m <sup>2</sup> . The height from the floor to the ceiling should be larger than 2.7M. The required load-bearing capacity for the rack is 10 KG multiply by device chassis size. E.g., a 4U equipment requires 40 KG bearing capability.
Vertical and horizontal vibration acceleration on floor surface	When the equipment is halted, acceleration value should not be larger than 0.5m/S <sup>2.</sup>
Grounding	Ensure that each equipment is grounded. Serial grounding is not allowd. The resistance between the equipment shell and earth must be less than 4 $\Omega$ .
Å is a length unit. 1 Å = 1/10	,000,000,000 m

# 1.2 Installation and Initial Power-on

- The device shall be placed on the fixed flat surface. Tilting surface is not allowed.
- You can use the standard plate in the industrial cabinet or use the guide rail (not provided) to install the device to the rack. It is recommended to use the bolts to fix the device to the rack through the mounting screw holes on the rack.
- Connect all the power cords of the device to the power socket and wait for 12 hours before starting up. The temperature of the device and the equipment room must be consistent to prevent the damage caused by a huge temperature difference.
- If the device has been transported and stored for more than 10 days; perform the previous operation and then start up and run the device for 30 minutes without the hard disks. And then you shut down the device, insert the hard disks and start the device again.

# 1.3 Notes for Installation

- The device is a high-precision equipment. Please keep stable and gentle when moving it.
- Installation and running environment must meet standards. Take regular investigations and records for the equipment room, or apply a remote monitoring for the working status of the device.
- Do not unplug the power cord when the device is running.
- In case of alarm beeper produced during the system running, please take immediate check and solution.

# Chapter 2 Appearance and Installation

# 2.1 Device Appearance

The system adopts rack-mounted chassis which provides LED indicators for the system status.

## 2.1.1 Chassis Overall View



Figure 2-1 Overall View of DS-AT1000S/360, DS-AT1000S/440, and DS-AT1000S/480



Figure 2-2 Overall View of DS-AT1000S/160, DS-AT1000S/240, DS-AT1000S/300, and DS-AT1000S/320

## 2.1.2 Front Panel

The disk slots view of the device is shown below.

Hard disks of 3.5 inches are supported. As shown above, slot order obeys the principle of left to right and bottom to top. The HDDs in bottom floor, from left to right, are HDD  $(1)^{\sim}(4)$ . The HDDs in second floor, from left to right, are HDD  $(5)^{\sim}(8)$ . And so on.

			24	
£			20	10 10 10 10 10 10 10 11 10 10 11 12 10 17 10 17 2 3 1
	5 1 1			
1				6

Figure 2-3 Front Panel of DS-AT1000S/360, DS-AT1000S/440, and DS-AT1000S/480



Figure 2-4 Front Panel of DS-AT1000S/160, DS-AT1000S/240, DS-AT1000S/300, and DS-AT1000S/320

## 2.1.3 Description of Buttons in Front Panel

DS-AT1000S/360, DS-AT1000S/440, and DS-AT1000S/480



Figure 2-5 Front Panel Buttons

Figure 2-6 Button Description

Button	Name	Description
с С	Power switch and indicator	<ul> <li>When the system is off, press the button to turn on it.</li> </ul>
		<ul> <li>When the system is running, hold the button for at least 4s and not more than 15s to turn off the</li> </ul>

		<ul> <li>system.</li> <li>The indicator shows green when the system is running.</li> </ul>
Fn	Positioning button and indicator	<ul> <li>Press this button or click <b>Positioning</b> on GUI to trigger locating function. Press the button again to disable locating function.</li> <li>The indicator flashes in blue when locating function is triggered.</li> </ul>
¢ Ø	Mute button and alarm indicator	When an alarm is triggered, the indicator flashes in red and buzzer beeps. Press the button to stop beeping.
() A %	Power indicator for controller A	When controller A is connected and is running, the indicator is green.
© в*⊁	Power indicator for controller B	When controller B is connected and is running, the indicator is green.
	Fault indicator for controller A	<ul> <li>When a fault occurs in controller A, the indicator flashes in red.</li> <li>When controller A does not exit, the indicator is unlit.</li> </ul>
O BA	Fault indicator for controller B	<ul> <li>When a fault occurs in controller B, the indicator flashes in red.</li> <li>When controller B does not exit, the indicator is unlit.</li> </ul>

DS-AT1000S/160, DS-AT1000S/240, DS-AT1000S/300, and DS-AT1000S/320



Figure 2-7 Front Panel Buttons

Figure 2-8 Button Description

Button Na	ame
-----------	-----

Description

<sup>t</sup>	Power switch and indicator	<ul> <li>When the system is off, press the button to turn on it.</li> </ul>
		<ul> <li>When the system is running, hold the button for at least 4s and not more than 15s to turn off the system.</li> </ul>
		<ul> <li>The indicator shows green when the system is running.</li> </ul>
Fn	Positioning button and indicator	<ul> <li>Press this button or click <b>Positioning</b> on GUI to trigger locating function. Press the button again to disable locating function.</li> </ul>
		<ul> <li>The indicator flashes in blue when locating function is triggered.</li> </ul>
<b>A</b>	Mute button and alarm indicator	When an alarm is triggered, the indicator flashes in red and buzzer beeps. Press the button to stop beeping.

## 2.1.4 Rear Panel

### DS-AT1000S/360, DS-AT1000S/440, and DS-AT1000S/480



No.	Name	No.	Name
1	Power module 1	8	SAS interface
2	COM interface	9	Data network interface 3
3	Two USB interfaces	10	Management network interface
4	Two USB interfaces	11	Power module 2
5	Data network interface 1	12	IPMI
6	Data network interface 2	13	Data network interface 4
7	VGA interface		

Table 2-1 Description

DS-AT1000S/160, DS-AT1000S/240, DS-AT1000S/300, and DS-AT1000S/320



Figure 2-10 Rear Panel

No.	Name	No.	Name
1	Power module 1	9	HDMI interface 2
2	HDMI interface 1	10	USB interface 2
3	USB interface 1	11	Data LAN 2
4	Data LAN 1	12	Management LAN
5	Data LAN 3	13	EXP interface 2
6	EXP interface 1	14	RS-232 interface
7	RS-485 interface	15	Fan module
8	Power module 2		

Table 2-2 Description

## 2.2 Install Accessories

## 2.2.1 Installation Requirement

Before installation, please check whether following objects are in the package.

- Storage system
- Power cord
- Gigabit Ethernet cable
- Delivered CD
- Screw package

The following accessories are optional or user-provided:

- Gigabit Ethernet switch
- Rack guide rail

Following the installation requirements to install the storage system. Before powering on your storage system, please check the following hardware connection:

- Connect the power cord to 220 VAC power supply.
- Use the delivered Ethernet cable to connect all data network interfaces to a gigabit network switch.
- Serial port of the storage system, if any, is mainly designed for debugging. You are recommended to use it with the help of our technical support.

## 2.2.2 Install HDD

### Selecting HDD Model

It is recommended to adopt the certificated professional HDD models so as to ensure the stable running of the system and the reliable data storage. You are recommended to use the HDD in recommended HDD list. Please contact our technical support for the recommended HDD list.

## 

In order to avoid damages during transportation, it is recommended to package and transport the hard disks separately with the chassis of network storage system.

### Installing HDD

Follow the steps below to install HDDs.

Step 1 Remove the front panel cover.

- 1) Unlock the front panel cover with delivered key.
- 2) Hold the cover and pull it out till it gets out of the control of the lock.
- 3) Move the cover to right to remove it from front panel.
- Step 2 Press the spring lock of the HDD on the left, drag the handle and then pull out the dummy HDD from the chassis along the guide rail.

Step 3 (Optional) Remove the baffle, if any, from the dummy HDD.



Figure 2-11 Remove Baffle

Step 4 Use four screws to secure the HDD (with the PCB side downward) to the bracket. In order to ensure the HDD pin holds the line with the rear of the plate, mount screws to the specific screw hole as shown.



Figure 2-13 Secure HDD

Step 5 Insert the HDD bracket (with the PCB side towards the left of the chassis) to the chassis and push it along the guide apparatus to the bottom. Then, press the securing handle to ensure the bracket has been seated into position and lock it.

Step 6 Repeat the operating steps above till all HDDs have been installed.

### Indicators in Dummy HDD

- Two indicators are provided.
- When the HDD is normal, the blue indicator is on.
- When the HDD is unavailable, the red indicator is on.
- When the HDD is in positioning or detecting status, the red indicator flashes.



Figure 2-14 Indicators in Dummy HDD

### Precautions during HDD Installation

When you plug or unplug the hard disks, please take the following precautions:

- When the HDD is running, the maximum vibration is can suffer is 0.25 Gs. While when it is idle, the maximum vibration is 3.0 Gs.
- Please use the provided screws to fix the four edges of the dummy HDD.
- Make sure the HDD mounting bracket is steadily plugged into the chassis along the slot.
- When you unplug the hard disk, unplug it about 3cm away from the chassis and then make it stay about 30 seconds on the slot guide before totally unplug it from the chassis. Since the discs of the hard disk are still spinning at a high speed just after powering off, unplugging the hard disk immediately will damage the discs.
- The system supports HDD hot swapping, yet the data storage safety is not ensured.
- Please avoid frequent plugging/unplugging of the hard disks during the system running so as to maintain long service life of the hard disks.
- Take regular check and examine of the working status of the hard disks every two months, or configure the system with auto check and examine task.

## 

Please avoid unplugging a hard disk when it is writing or reading data so as to prevent data loss.

## 2.3 Startup

Obey the following rules to operate startup and shutdown:

- Step 1 Connect all the power cords to the redundancy power supply module before applying power.
- Step 2 Press the power button on the device. It may take 5 to 10 minutes to finish the startup process. After startup, storage system will send out beep sound.

# 

- Check the connection between components if device cannot start up normally.
- Do not press the power button after startup, or device will be forced to shut down and may course the data loss.

# 2.4 Shutdown

Step 1 Log in the storage system via Internet Explore. For details, refer to 4.1 Activate Storage System.

Step 2 Go to **Device > Device Overview**.

0verview	III Node Tree			Refresh Domain Device Overview
	Network Switch Node	ce Overview	×	
	Node1	ode (all)	Mute Device More Operations Device Restart	
		Device         Parent Node         Port         Status           Single-controller-10.192.53.64         10.192.53.64         -         Normal	s Rename Environment Control Information Device Shutdown al Rename Environment Control Information Device Shutdown	
Storage				
27 Service	Single-co			licator — Normal — Alarm — Handling — Unavailable
[́≣́] Log				Information Overview
<i>[</i> 3				
Maintenance				
			Total 1 item(s) << < 1/1 > >> page 60	
			Close	

Figure 2-15 More Operations

Step 3 Click More Operations.

Step 4 Click **Device Restart** or **Device Shutdown** as your desire.

# Chapter 3 Function Configuration

Step 1 Configure network parameters. For details, refer to 4.2 Configure Network Parameters.

Step 2 Operate quick configuration. For details, refer to 5.1 One-Key Configuration.

Step 3 Format storage space. For details, refer to 5.2 Format Storage Space.

Step 4 Configure Hybrid SAN parameters. For details, refer to Chapter 6 Basic Configuration.

# Chapter 4 Network

## 

You are recommended to connect all the network interfaces to the Internet.

# 4.1 Activate Storage System

#### Purpose

For the first-time access, you need to activate the storage system by setting an admin password. No operation is allowed before activation. You can only use Internet Explorer 8.0 and above to visit storage system.

- Step 1 Use an Ethernet cable to connect your computer and the management network interface of storage system.
- Step 2 Set your computer IP address. Ensure it is in the same network segment with the storage system.

## 

Default IP address of management network interface is 10.254.254.254.

Step 3 Visit <u>https://10.254.254.254.2004</u> in web browser to access the storage system.

Step 4 Create password for storage system and confirm it.



**STRONG PASSWORD RECOMMENDED**– We highly recommend you create a strong password of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

Step 5 Click **Enter** to activate the storage system.

## 4.2 Configure Network Parameters

### 4.2.1 Modify Network Parameters

#### Step 1 Go to **Device > Information > Modify Network**.

Overview Device	Node Tree     Network Switch Node			Refresh Domain Device Overview
Resource	Node1	Information Overview		×
Storage		Device: Single-controller-10.192.53.64	Disk Management Mute Device Device Rename Modify	Network
G Service	Single-co	Temperature Status Temperature Normal tem Temperature Normal	Fan         Status         Power         Status           Chassis Fan1         Normal         Chassis         Normal           Chassis Fan2         Normal         Chassis         Exception	Power Indicator - Normal - Alarm - Handling Unavailable
(iiii) Log		tem Temperature2 Normal   Total 4 item(s)   (< 1/1 > >>	Chassis Fan 3 Normal  Total 6 item(s) << < 1/2 > >> Total 2 item(s) << < 1/1 >	Information Overview
J Maintenance				Close
		0	0 0	

Figure 4-1 Modify Network

Step 2 You can view binding network information and modify binding parameters.

	Port Name	Status	Speed	IP Address	Subnet Mask	Gateway IP	Jumbo Frame Size	Set Port	
						Total 0 item(s) <<	: < 0/0 > >> p	age	Go
Dolot	o Rinding					Total 0 item(s) <-	: < 0/0 > >> p	age	Go
Delet	e Binding					Total 0 item(s) <<	: < 0/0 > >> p	age	Go
Delet	e Binding Port Name	Status	Speed	IP Address	Subnet Mask	Total 0 item(s) <	S < 0/0 > >> p	set Port	Go
Delet	e Binding Port Name Bond network in	Status Connect	Speed 1000Mb/s	IP Address 10.192.53.64	Subnet Mask 255.255.255.0	Total 0 item(s)         <           Gateway IP         10.192.53.254	3 < 0/0 > >> p Jumbo Frame Size 1500	Set Port Settings	Go Attribute Attribute
Delet	e Binding Port Name Bond network in	Status Connect	Speed 1000Mb/s	IP Address 10.192.53.64	Subnet Mask 255.255.255.0	Gateway IP           10.192.53.254	Jumbo Frame Size	Set Port Settings	Go Attribute Attribute
Delet	e Binding Port Name Bond network in	Status Connect	Speed 1000Mb/s	IP Address 10.192.53.64	Subnet Mask 255.255.255.0	Total 0 item(s)     <	Jumbo Frame Size	Set Port Settings	Go Attribute
Delet	e Binding Port Name Bond network in	Status Connect	Speed 1000Mb/s	IP Address 10.192.53.64	Subnet Mask 255.255.255.0	Total 0 item(s)     <	Jumbo Frame Size	Set Port Settings	Go Attribute Attribute

Figure 4-2 Modify Network

## 

- DS-AT1000S/360, DS-AT1000S/440, and DS-AT1000S/480 series storage system contains 5 network interfaces. By default, network interface 1 and 4 are bonded as a data network interface (bond network interface 1) and bonding mode is XOR.
- DS-AT1000S/160, DS-AT1000S/240, DS-AT1000S/300, and DS-AT1000S/320 series storage system contains 4 network interfaces. By default, network interface 1 and 3 are bonded as a data network interface (bond network interface 1) and bonding mode is XOR. Network interface 4 is management network interface.
- Configure static link aggregation and disable LACP for the network switch

- You are not recommended to delete the default binding.
- If you forget the IP address of data network interface, you can log in storage system via management network interface to view the IP address. Default IP address of management network interface is 10.254.254.254.

### 4.2.2 Modify IP Address of Bond Network Interface

#### Step 1 Go to **Device > Information > Modify Network**.

Step 2 Click Settings of bond network interface 1.

Set Bound Port				×
Port Name	Bond network interface 1			
*IP Address	10.192.53.64			
*Subnet Mask	255.255.255.0			
*Jumbo Frame Size	1500		Byte	
Gateway IP	10.192.53.254			
Select Mode	balance-xor	~	]	
	XOR mode: transmit data package based on	^		
	specified HASH transmission	~		
Balanced Option	L2	~	]	
	ОК	C	ancel	

Figure 4-3 Set Bound Port

Step 3 Modify network parameters.

Step 4 Click OK.



- Connect all the bonded network interfaces to a network switch.
- Management network interface cannot be bonded.

# Chapter 5 System Configuration

# 5.1 One-Key Configuration

Before you start one-key configuration, ensure the number of HDD meets the following requirement.

- DS-AT1000S/160 storage system requires at least 8 HDDs.
- DS-AT1000S/240 storage system requires at least 12 HDDs.
- DS-AT1000S/300 storage system requires at least 15 HDDs.
- DS-AT1000S/320 storage system requires at least 16 HDDs.
- DS-AT1000S/360 storage system requires at least 18 HDDs.
- DS-AT1000S/440 storage system requires at least 22 HDDs.
- DS-AT1000S/480 storage system requires at least 24 HDDs.

Step 1 Single controller device will automatically create domain after startup.

Domain IP address: 1.1.1.1. Domain subnet mask: 255.255.255.0.

- Step 2 After logged into the system, the configuration wizard will pop up and the system will automatically detect environment.
- Step 3 After the three environment detections are passed, click **One-Key Configuration** and follow the wizard to configure the system.



Figure 5-1 Wizard

The configuration process takes a certain time. The following prompt will pop up after configuration finishes.

Prompt	×
Creating finished. N fluctuation may occu period. You can refr interface.	etwork: ur over a esh in Service
Figure 5-2	Prompt

## 5.2 Format Storage Space

## 5.2.1 Activate Hybrid SAN Sub-System

#### Purpose

You can only use Internet Explorer 8.0 and above to visit Hybrid SAN sub-system.

- Step 1 Visit <u>http://IP address of bond network interface 1</u> in web browser to access Hybrid SAN sub-system.
- Step 2 Create password for Hybrid SAN sub-system and confirm it.



**STRONG PASSWORD RECOMMENDED**– We highly recommend you create a strong password of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

Step 3 Click Enter to activate Hybrid SAN sub-system.

## 5.2.2 Format Storage Space

Step 1 Go to Configuration > Storage > Storage Management.

	Local	Stor	age Space Man	agement								
Ð	Network		Storage Space	Management							Set	Format
	System		Storage Pool	Capacity	Free space	Status	Туре	Property	Video Occupa	Image Occupa	File Occupanc	Progress
	Storage		3	60507.50GB	0.00GB	Error	Local	R/W	100	0	0	
	Storage Management		4	60507.50GB	0.00GB	Error	Local	R/W	100	0	0	
	Schedule Settings		5	60507.50GB	0.00GB	Error	Local	R/W	100	0	0	
	Video Copy-back											
	Storage Mode											
	Advanced Settings											
圁	Event											

Figure 5-3 Storage Space Management

Step 2 Select storage space and click Format.

# Chapter 6 Basic Configuration

Log in to Hybrid SAN sub-system and follow the steps to configure basic parameters.

## 6.1 Camera Management

Step 1 Log in to Hybrid SAN sub-system. For details, refer to 5.2.1 Activate Hybrid SAN Sub-System.

Step 2 Go to Configuration > System > Camera Management.

Ģ	Local	IP Ca	amera								
Ø	Network		IP Camera			Add	Modify	Delete	Quick Add	Custom Protocol	Activation
	System		IP Camera	Camera Name	IP Address	Channel Port	Management	Password Str	Status 🔻	Protocol	Recording Sch
	System Settings		D01	channel 01		1	8000	Strong	Offline(Language ve	HIKVISION	Scheduled
	Maintenance										
	Camera Management										
	User Management										
8	Storage										
圁	Event										
										Total 1 Items	< 1/1 > >>

Figure 6-1 Camera Management

Step 3 Add network cameras. Choose from:

- Manual Add: Enter the network camera information to add it.
  - 1) Click Add.

IP Camera	×
IP Camera Address	
Protocol	HIKVISION V
Management Port	8000
User Name	admin
Password	••••••
Confirm	••••••
Transfer Protocol	Auto 🗸
	OK Cancel

Figure 6-2 Add Network Camera

- 2) Enter network camera information. The information must be the same with the information of network camera to add.
- 3) Click **OK**.
- Quick Add: Add network cameras of the same password and in the same network segment the storage system.
  - 1) Click **Quick Add**. Network cameras in the same network segment with the storage system will be listed.
  - 2) Check network cameras to add and click **OK**. Network cameras of the same password with the storage system will be successfully added.

# 6.2 Configure Recording Schedule

#### Purpose

By default, network cameras start continuous recording after successfully added. Follow the steps to configure recording schedules.

Step 1 Log in to Hybrid SAN sub-system. For details, refer to 5.2.1 Activate Hybrid SAN Sub-System.

Step 2 Go to Configuration > Storage > Schedule Settings.

Ç	Local	Record Sc	hedule													
C	Network	IP Came	ra No.					~								
	System	🗆 En	Enable													
	Storage	Conti	nuous 🗸	× Delete	ŵ	Delete A	JI						Adv	/anced		
	Storage Management						40	10		40	40					Continuous
	Schedule Settings	Mon	0 2	4	Ь	8	10	12	14	16	18	20	22	24		Motion
	Video Copy-back		0 2	4	6	8	10	12	14	16	18	20	22	24		Event
	Storage Mode	Tue		4		0	10	10		10	10					
	Advanced Settings	Wed	0 2	4	Б	ð	10	12	14	16	18	20	ZZ	24		
Ë	Event	Thu	0 2	4	6	8	10	12	14	16	18	20	22	24		
		Fri	0 2	4	6	8	10	12	14	16	18	20	22	24		
		Sat	0 2	4	6	8	10	12	14	16	18	20	22	24		
		Sun	0 2	4	6	8	10	12	14	16	18	20	22	24		
			Copy to.			8	Save									

Figure 6-3 Record Schedule

Step 3 Select IP Camera No. and check Enable.

Step 4 Select schedule type.

Step 5 Drag on the table to draw the recording schedule.

Step 6 Click Save.

# 6.3 Live View

Go to **Live View**. You can preview live images, start manual recording, capture pictures, turn on live view audio, etc.



Figure 6-4 Live View

# 6.4 Playback

Go to **Playback**. You can play back, search, download recorded videos.



Figure 6-5 Playback



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