

## Storage System Quick Start Guide

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#### Quick Start Guide

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#### About this Manual

This Manual is applicable to 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/).

Please use this user manual under the guidance of professionals.

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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      | Туре                             |
|-----------|------------|----------------------------------|
| 72 corios | DS-A72024R |                                  |
| 72 series | DS-A72072R |                                  |
| AT series | DS-AT1000S | Single-controller storage system |
| 80 series | DS-A80624S |                                  |
| 81 series | DS-A81016S |                                  |
| 81 series | DS-A81024D |                                  |
| 02 corico | DS-A82012D | Dual-controller storage system   |
| 82 series | DS-A82024D |                                  |

### 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.   |  |

### 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 100~240 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 over-heating 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.

## Preventive and Cautionary Tips

Before connecting and operating your device, please be advised of the following tips:

- Ensure unit is installed in a well-ventilated, dust-free environment.
- Unit is designed for indoor use only.
- Keep all liquids away from the device.
- Ensure environmental conditions meet factory specifications.
- Ensure unit is properly secured to a rack or shelf. Major shocks or jolts to the unit as a result of dropping it may cause damage to the sensitive electronics within the unit.
- Use the device in conjunction with an UPS if possible.
- Power down the unit before connecting and disconnecting accessories and peripherals.
- A factory recommended HDD should be used for this device.
- Improper use or replacement of the battery may result in hazard of explosion. Replace with the same or equivalent type only. Dispose of used batteries according to the instructions provided by the battery manufacturer.

# Chapter 1 Wiring

## 1.1 Network Wiring

#### Purpose:

Before activating your storage system via your computer, build connection between your storage system and computer.

### 

- You shall acknowledge that the use of the product with Internet access might be under network security risks. For avoidance of any network attacks and information leakage, please strengthen your own protection. If the product does not work properly, please contact with your dealer or the nearest service center.
- To ensure the network security of the storage system, we recommend you to have the storage system assessed and maintained termly. You can contact us if you need such service.

### 1.1.1 Single-Controller Storage System

#### Purpose:

Follow the steps to build network connection between a single-controller storage system and a computer.

• Network Wiring for Activation

Connect the management port (MGT) of storage system to the network port of computer.

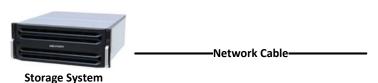




Figure 1-1 Network Wiring for Activation

• Network Wiring for Daily Use

Connect the management port (MGT) and at least one data port  $(\Box \Box \Delta / \Box \Box / \Box \Box / \Box \Box )$  of storage system to a router or network switch.

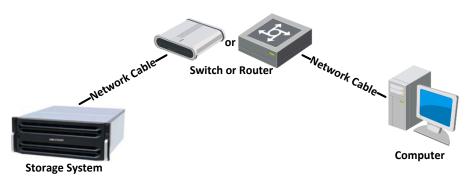


Figure 1-2 Network Wiring

### 1.1.2 Dual-Controller Storage System

#### Purpose:

The following figure shows the cable connection between a dual-controller storage system and a computer.

• Network Wiring for Activation

Connect one management port (MGT) of the storage system to the network port of computer.

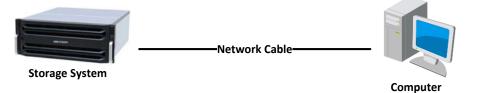


Figure 1-3 Network Wiring for Activation

• Network Wiring for Daily Use

Connect the management ports (MGT) and at least one data port  $(\Box \Box / \Box \Box / \Box \Box)$  on each controller of a storage system to a router or network switch.

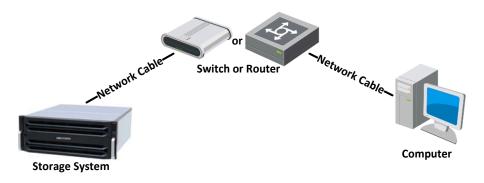


Figure 1-4 Network Wiring

## 1.2 Storage Enclosure Wiring

The SAS extension interfaces of storage enclosure include SAS 1, SAS 2, and SAS 3.

- SAS 1/SAS 2: Connect SAS 1/SAS 2 the SAS extension interface of storage system or SAS 3 of upper-level storage enclosure.
- SAS 3: Connect SAS 3 to the SAS 1/2 interface of the lower-level storage enclosure.



Figure 1-5 Enclosure Rear Panel

# Chapter 2 Activation and Configure IP Address

#### Before you start:

Build network connection between your storage system and your computer. For details, refer to *1.1 Network Wiring*.

## 2.1 Activation

#### Purpose:

For the first-time access, you need to activate the storage system by setting an admin password. No operation is allowed before activation.

Step 1 Visit the storage system default IP address (<u>https://10.254.254.254.2004</u>) via web browser.

Step 2 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 3 Click Enter to activate log into the storage system.

## 2.2 Configure the Controller IP Address

#### Purpose:

Data ports are bonded by default. Follow the steps to edit the bonding IP address.

Step 1 Visit the storage system default IP address (<u>https://10.254.254.254.2004</u>) via web browser.

#### Step 2 Go to System > Network.

Step 3 Check the bonded data port and click **Modify.** 

Step 4 Enter the new IP address.

Step 5 Save the settings.

## 2.3 Configure Heartbeat

#### Purpose:

For dual-controller storage system, you need to configure heartbeat for both controllers.

Step 1 Log into controller A (https://IP address of controller A:2004) via web browser.

Step 2 Go to Cluster.

Step 3 Click Auto configure.

Step 4 Repeat step 1 to 3 for controller B.

Step 5 Click **Test heartbeat** and check logs for cluster heartbeat communication.

## 2.4 Configure Resource IP Address

#### Purpose:

Follow the steps to configure resource IP address for dual-controller storage system. When one of the controller failed, the normal one will take over the tasks and you can log into the normal controller via the resource IP.

### 

Resource IP can only be configured and enabled in one controller

Step 1 Log into one controller (https://IP address of one controller:2004) via web browser.

#### Step 2 Go to Cluster.

Step 3 Select resource IP Application as Hybrid SAN, select local resource network port, and input Resource IP and Netmask.

| Modify resource IP |             |     |    | ×      |
|--------------------|-------------|-----|----|--------|
|                    |             |     |    |        |
| Application:       | Hybrid SAN  | ~   |    |        |
| Local port:        | Bond NIC1 V | 0 🗸 |    |        |
|                    | Resource IP |     |    |        |
|                    | Netmask     |     |    |        |
|                    |             |     |    |        |
|                    |             |     |    |        |
|                    |             |     |    |        |
|                    |             |     |    |        |
|                    |             |     |    |        |
|                    |             |     |    |        |
|                    |             |     |    |        |
|                    |             |     | ОК | Cancel |

Figure 2-1 Configure Resource IP

Step 4 Save the settings.

# Chapter 3 Configuration

#### Purpose:

Configure time, Hybrid SAN, and IP SAN parameters.

# 3.1 Time Settings

#### Purpose:

Set time zone, NTP, and DST for the added storage system.

#### Step 1 Go to System > Time Management.

| System -> Time Management      |                          |           |
|--------------------------------|--------------------------|-----------|
| Time Zone:                     | (UTC+8:00)'Asia/Beijing' | Modify    |
| DST:                           |                          |           |
| Date and Time:                 | Thu Mar 29 2018 02:08:30 | Modify    |
| Time Server IP Address:        |                          | Adjust    |
| NTP Server:                    | Disabled                 | Enabled   |
| Time Synchronization Strategy: | Enabled                  | Disabled  |
|                                |                          |           |
| Time Synchronization Strategy  |                          |           |
| Time Server IP Address:        |                          | Configure |
| Synchronization Cycle:         | min                      | Delete    |

Figure 3-1 Time

Step 2 Set Time Zone, Time Server IP Address, and DST as your desires.

Time server IP address should be the IP address of the central server.

Step 3 Click Save to save the settings.

# 3.2 Hybrid SAN Quick Configuration

#### Purpose:

Follow the steps to create a Hybrid SAN quickly.

Step 1 Go to Hybrid SAN > Hybrid SAN.

Step 2 Click One-Key Configuration.

Step 3 Click **OK** to confirm. Quick-setting takes 3 to 15 minutes.

Result:

After the successful configuration, the Hybrid SAN status should be **Working**.

Hybrid SAN -> Hybrid SAN Hybrid SAN Service Status: Working

Figure 3-2 Hybrid SAN Status

# 3.3 IP SAN Quick Configuration

3.3.1 Enable iSCSI

Purpose:

Follow the steps to create an IP SAN quickly.

Step 1 Go to SAN Management > iSCSI.

Step 2 Click One-Key Configuration.

Step 3 Enter Client IP.

Client IP is the IP address of DVR, NVR, or window storage server.

Step 4 Click **OK** to save the settings.

### 3.3.2 Add IP SAN to Windows Server, DVR, and NVR

### Add IP SAN to DVR/NVR

Step 1 Go to NetHDD configuration interface on DVR/NVR.

Step 2 Select Type as IP SAN and input NetHDD IP which is the address of storage system.

Step 3 Click Search and select NetHDD Directory.

| Custom Add       |                        |    |           |        |
|------------------|------------------------|----|-----------|--------|
| NetHDD           | NetHDD 1               |    | •         |        |
| Туре             | IP SAN                 |    | •         |        |
| NetHDD IP        | 120 . 36 . 2 . 39      |    |           |        |
| NetHDD Directory | iqn.2008-06.storos.1-2 |    | $\otimes$ | Search |
|                  |                        |    |           |        |
|                  |                        |    |           |        |
|                  |                        |    |           |        |
|                  |                        |    |           |        |
|                  |                        |    |           |        |
|                  |                        | ок |           | Cancel |

Figure 3-3 Add IP SAN

#### Step 4 Click **OK**.

#### Add IP SAN in Windows Server

#### Before you start:

For dual-controller storage system, download iSCSI installation package from Microsoft official website into windows server and install it. During installation, check **Microsoft MPIO Multipathing Support for iSCSI**.

Step 1 Input iSCSI in the windows start menu and select iSCSI Initiator.

| Programs (1)               |
|----------------------------|
| SCSI Initiator             |
| Control Panel (1)          |
| 🔁 Set up iSCSI initiator   |
| Documents (1)              |
| 🕼 Comment-0714 ( 2 ) .xlsx |
| Music (1)                  |
| Comment-0714 ( 2 ) .xlsx   |
| Pictures (1)               |
| 🕼 Comment-0714 ( 2 ) .xlsx |
|                            |
|                            |
|                            |
|                            |
|                            |
|                            |
|                            |
| ₽ See more results         |
| iscsi × Shut down +        |

Figure 3-4 Start Menu

Step 2 Go to **Discovery** and click **Discover Portal**.

Step 3 Input the IP address of IP SAN

Step 4 Click **OK**.

| and the second             | Y Favorite Targ         | ets Volumes and Devices                               | RADIUS Configuration |
|----------------------------|-------------------------|---|----------------------|
| Target portals             |                         |   |                      |
| The system will            | look for Targets o      | on following portals:                                 | Refresh              |
| Address                    | Port                    | Adapter   | IP address           |
| 10.5.8.223                 | 3260                    | Default   | Default              |
| To add a targe             | t portal, click Disco   | over Portal.  | Discover Portal      |
| Discover Targe             | et Portal               | The address date of the                               | ×                    |
| the Advanced               | IP address              |   | get portal, dick     |
| IP addressor<br>10.5.8.180 | IP address              |   |                      |
| IP address or              | IP address<br>DNS name: | of IP SAN<br>Port: (Default                           |                      |
| IP addressor<br>10.5.8.180 | IP address<br>DNS name: | of IP SAN<br>Port: (Default<br>3260                   | is 3260.)            |
| IP addressor<br>10.5.8.180 | IP address<br>DNS name: | of IP SAN Port: (Default 3260 OK the server above and | is 3260.)<br>Cancel  |

Figure 3-5 Discover Target Portal

Step 5 You can see the targets of IP SAN in the target portals list.

| rgets Discovery  | Favorite Targe                               | Volumes and Devices    | RADIUS Configuratio   |
|--|--|------------------------|-----------------------|
| Target portals<br>The system will lo                         | ok for Targets o                             | n following portals:   | Refresh               |
| Address  | Port   | Adapter                | IP address            |
| 10.5.8.223   | 3260   | Default                | Default               |
| 10.5.8.180   | 3260   | Default                | Default               |
| To add a target p  | oortal, click Disco                          | ver Portal.            | Discover Portal       |
| To remove a targ<br>then click Remove                        |  | the address above and  |                       |
|  | jistered on the fo                           | ollowing iSNS servers: | Refresh               |
|  | jistered on the fo                           | ollowing įSNS servers: | Refresh               |
| The system is reg<br>Name<br>10.5.8.223                      |  |                        | Refresh<br>Add Server |
| The system is reg<br>Name<br>10.5.8.223<br>To add an iSNS se | erver, click Add S                           |                        |                       |
| Name<br>10.5.8.223<br>To add an iSNS se<br>To remove an iSN  | erver, dick Add S<br>IS server, select<br>e. | Server.                | Add Server            |

Figure 3-6 Discovery

Step 6 Go to Target.

Step 7 Click the item in Discover targets list and click **Connect**.

| iSCSI Initiator Properties  | iSCSI Initiator Properties  |
|---|---|
| Targets         Discovery         Favorite Targets         Volumes and Devices         RADIUS         Configuration           Quick Connect         To discover and log on to a target using a basic connection, type the IP address or DNS name of the target and then click Quick Connect.         DNS name of the target and then click Quick Connect. | Targets         Discovery         Favorite Targets         Volumes and Devices         RADIUS         Configuration           Quick Connect         To discover and log on to a target using a basic connection, type the IP address or DNS name of the target and then dick Quick Connect.         Image: Connect target and then dick Quick Connect.         Image: Connect target and then dick Quick Connect.         Image: Connect target |
| Iarget: Quick Connect   | Iarget: Quick Connect   |
| Discovered targets Refresh  | Discovered targets Refresh  |
| Name Status   | Name Status   |
| To connect using advanced options, select a target and then Cognect<br>click Connect.<br>To completely disconnect a target, select the target and Disconnect<br>then click Disconnect.  | To connect using advanced options, select a target and then Cognect<br>click Connect.<br>To completely disconnect a target, select the target and Disconnect  |
| For target properties, including configuration of sessions, groperties  | For target properties, including configuration of sessions, <u>Properties</u>   |
| For configuration of devices associated with a target, select Devices   | For configuration of devices associated with a target, select Devices Devices   |
| More about basic ISCSI connections and targets  | More about basic iSCSI connections and targets  |
| OK Cancel Apply   | OK Cancel Apply   |

Figure 3-7 Target

Step 8 Go to **Computer Management > Storage > Disk management** in your computer.

Step 9 A new disk will be listed. Initialize the new disk.

| Computer Management       File     Action       View     Help       Image: State of the state of th  | X 🖻 🖻 Q 😡   |   |
|--|---|---|
| Computer Management (Local<br>System Tools<br>Carack Scheduler<br>Carack Scheduler<br>Carack Scheduler<br>Stande Folders<br>Carack Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Scheduler<br>Sc | <ul> <li>□● (F:) Simpl</li> <li>□● C盘 (C:) Simpl</li> <li>□● D盘 (D:) Simpl</li> <li>□● E盘 (E:) Simpl</li> </ul> | e Basic NTFS Healthy (Logical Drive)  |
| Services and Applications  | <ul> <li>✓ Disk 0<br/>Basic<br/>465.76 GB<br/>Online</li> </ul>   | Select  Disk 1  Use the following partition style for the selected disks:  MBR (Master Boot Record)  GFT (GUID Partition Table)  Note: The GPT partition style is not recognized by all previous versions of Windows. It is recommended for disks larger than 2TB, or disks used on Itanium-based computers.  OK Cancel |
|  | Disk 1     Unknown     3706.00 GB     Not Initialized   | 3706.00 GB<br>Unallocated   |
| · · · · · · · · · · · · · · · · · · ·  |   | Primary partition Extended partition Free space Logical drive   |

Figure 3-8 Disk Management



UD09639B