



## Network Storage Disk Enclosure Quick Guide



V2.02

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Images May Not Reflect the Actual Product.

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Design and specifications are subject to change without notice.

# Contents

1 Packing List .....	1
2 Product Appearance .....	1
2.1 Indicators .....	1
2.2 Interfaces .....	2
3 Device Installation .....	3
3.1 Check Before Installation .....	3
3.2 Install Hard Disks .....	4
3.3 Replace Hard Disks .....	4
3.4 Install the Device .....	5
3.4.1 Install the Device in a Rack .....	5
3.4.2 Install the Device on a Tabletop .....	6
4 Cable Connection .....	7
4.1 Connect the MiniSAS / MiniSAS HD Cable .....	7
4.2 Connect the Grounding Cable .....	7
5 Startup .....	8
5.1 Installation Check .....	8
5.2 Startup .....	8
6 Technical Specifications .....	9
Disclaimer and Safety Warnings .....	10

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# 1 Packing List

The package contents may vary with device model and version.

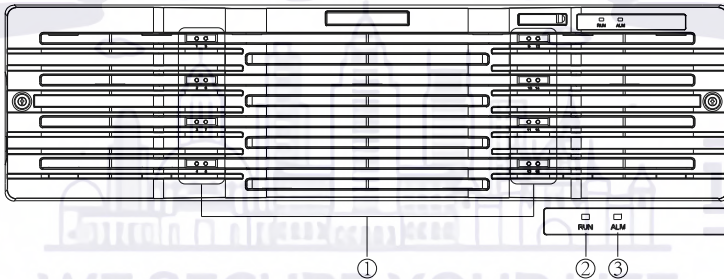
No.	Name	Qty	Unit
1	Device	1	PCS
2	Power cable	1	PCS
3	MiniSAS cable	1	PCS
4	Screw	2	PCS
5	HDD mounting brackets	16	Pair
6	Grounding cable	1	PCS
7	Product document	1	Set

# 2 Product Appearance

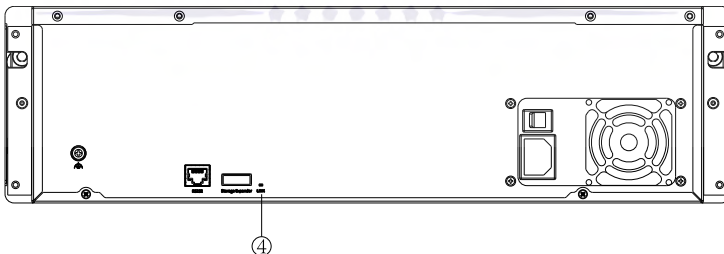
The product appearance may vary with device model and version.

## 2.1 Indicators

- Front panel



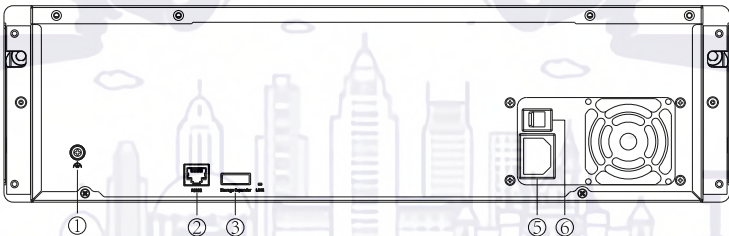
- Rear panel



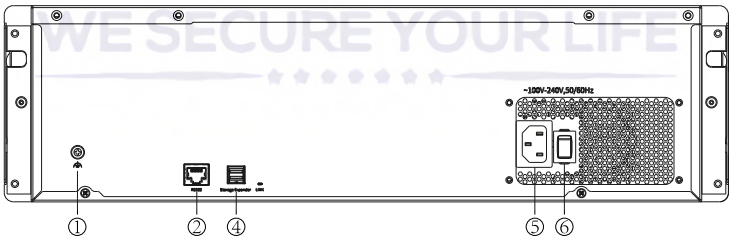
No.	Indicator	Description
1	HDn (hard disk)	<ul style="list-style-type: none"> <li>Steady green: No data read/write</li> <li>Blinking green: Data read/write in progress</li> <li>Steady yellow: Hard disk error</li> <li>Blinking yellow: Rebuilding RAID</li> </ul>
2	RUN (operation)	<ul style="list-style-type: none"> <li>Steady on: Device is operating</li> <li>Blinking: Device is starting up</li> <li>Off: Device is shut down</li> </ul>
3	ALM (alarm)	<ul style="list-style-type: none"> <li>Steady on: Device error occurred</li> <li>Off: Device is normal</li> </ul>
4	LINK (link)	<ul style="list-style-type: none"> <li>Steady on: Network device is connected</li> <li>Blinking: Transmitting data</li> <li>Off: Network device is not connected</li> </ul>

## 2.2 Interfaces

- Model 1



- Model 2



No.	Description
1	Grounding terminal, connected to ground with a grounding cable
2	RS232 serial port, for device maintenance and service
3	MiniSAS interface, connected to an NVR
4	MiniSAS HD interface, connected to an NVR
5	100V to 240V AC input
6	Power on/off switch

### 3 Device Installation

The figures are for illustration purpose only and may be different from the actual device

#### 3.1 Check Before Installation

##### 1 Check device components

Check against the packing list to ensure all components are complete before installation.

##### 2 Check installation tools

Please prepare the following tools:

- Phillips screwdriver
- ESD wrist strap or gloves

##### 3 Check the installation site

The device must be installed indoors with proper lightning protection and grounding.

- The environment must meet lightning protection requirements, with appropriate lightning protection devices if necessary.
- The device must be properly grounded through its grounding terminal.



#### **CAUTION!**

Disconnect the device from power before you start installation. Wear anti-static gloves throughout installation.

## 3.2 Install Hard Disks

Consult our authorized sales or technical support for compatible HDD types.

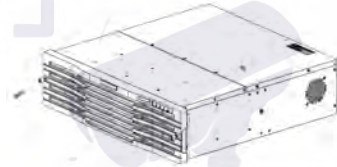
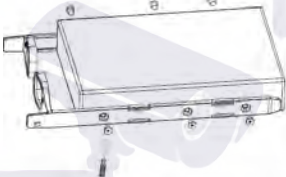


### CAUTION!

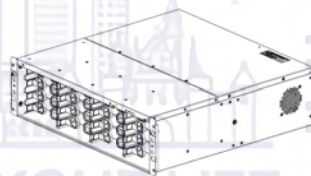
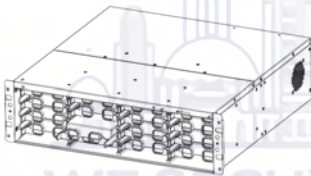
- The device allows hard disks of different manufacturers and supports hot plugin of hard disks. However, hot plugin is allowed only when the hard disk is not reading or writing data (HDD indicator is not blinking green).
- If you install hard disks with power connected, be sure to insert hard disks one by one and wait at least 6s before inserting the next to minimize the surge voltage.

You need to remove the front panel to install hard disks. The detailed steps are described below:

1. Use the cross screwdriver to fix the disk to the mounting brackets (L for left and R for right)
2. Loosen the screws on the front panel using the cross screwdriver, remove the front panel.



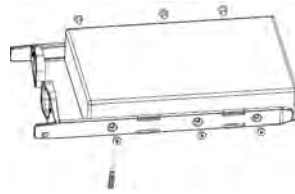
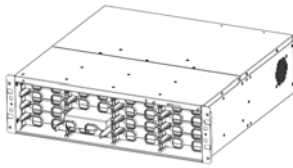
3. Align the disk with the disk slot and then gently insert the disk.
4. Push the hard disk slowly with your thumb till it clicks into place. Repeat the above steps to install the rest hard disks.



5. Install the front panel.

## 3.3 Replace Hard Disks

1. You need to remove the front panel in order to replace hard disks. See the previous section for details.
2. Gently pull the handles to detach the hard disk from the backplane, wait for at least 30s till the hard disk completely stops operation, and then pull out the disk.
3. Remove the 6 fixing screws on the disk mounting brackets.



4. Install the new hard disk by referring to the previous section.

### 3.4 Install the Device

Install the device in a standard 19-inch rack or place it on a clean tabletop or workbench.



#### **CAUTION!**

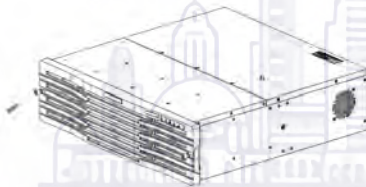
Do not stack the device or place heavy items on it, as this will affect heat dissipation.

#### 3.4.1 Install the Device in a Rack

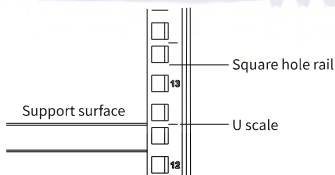


#### **CAUTION!**

- Keep the rack away from vibration sources such as an electric generator.
  - For rack mount, a tray must be installed on the rack to hold the device. It is forbidden to hold the device only by rack mounting brackets.
1. Loosen the screws on the front panel using the cross screwdriver, remove the front panel.



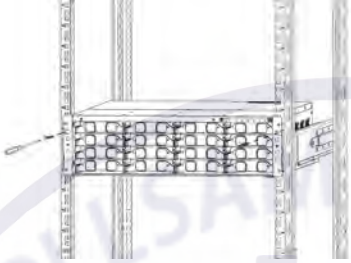
2. Fix the tray that comes with the rack to the rack. Ensure that the tray's support surface aligns with the "U" scale on the rack's square hole rail.



3. Push the device along the tray into the rack, ensuring it is flush with the square hole rails.

4. Secure the device.

- (1) Locate the screw holes on the device's rack mounting brackets, and install the floating nuts included with the rack onto the corresponding holes on the rack's square hole rails.
- (2) Screw the supplied screws into the rack mounting brackets to secure the device to the rack.



5. Install the front panel to complete the installation.



### 3.4.2 Install the Device on a Tabletop

The device can be placed on a clean tabletop or workbench if a standard 19-inch rack is not available. The installation of the hard disks is described in 3 Install the Hard Disk.

The tabletop or workbench shall meet the following requirements:

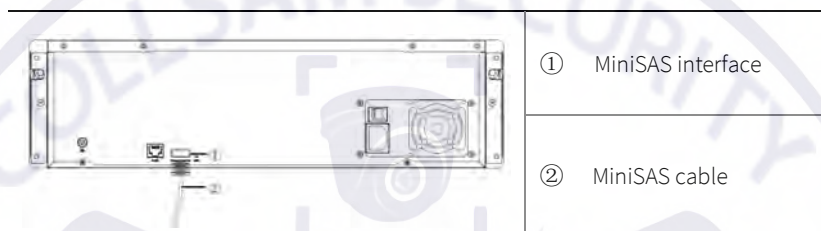
- The tabletop or workbench is firm enough to bear the weight of the device and cables.
- The tabletop or workbench is stable and well grounded.
- Allow at least 30cm space at the front and back sides and at least 10cm space at the left and right sides of the device for heat dissipation.

## 4 Cable Connection

Depending on the product model and version, the cable style and interface may vary. Please refer to the actual product.

### 4.1 Connect the MiniSAS / MiniSAS HD Cable

Connect to an NVR through the MiniSAS / MiniSAS HD expansion interface. The diagram below takes the MiniSAS cable as an example. Hold the ring on the MiniSAS cable and insert it into the interface on the disk enclosure. Use the same method to connect the other end to the NVR.

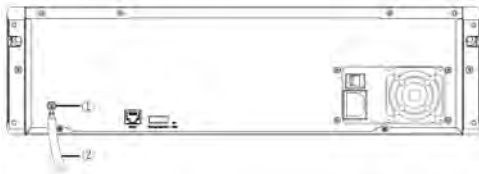


### 4.2 Connect the Grounding Cable

The device must always be properly grounded to prevent personal injury and device damage (such as from lightning, interference).

The grounding impedance shall be less than  $5\Omega$ , and the grounding connection shall not exceed 30m.

Connect one end of the grounding cable to the grounding terminal, and the other end to a secure grounding point, as shown below.



① Grounding terminal

② Grounding cable

## 5 Startup

### 5.1 Installation Check

To prevent bodily injury and device damage, check the following items carefully before connecting the device to power.

- The device is securely installed with all the screws fastened.
- No object is placed on the device.
- All the cables are correctly connected.
- The power supply used is consistent with the power indications marked on the device body.

### 5.2 Startup

After connecting the device to the NVR, connect power and then turn on the on/off switch.

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## 6 Technical Specifications

Item	Specs
HDD interface	16 * SATA HDD interfaces
Dimensions (H*W*D)	131 mm * 482 mm * 477 mm (with front panel)
Weight	<ul style="list-style-type: none"><li>• &lt; 10 kg (without HDD)</li><li>• &lt; 20 kg (fully loaded with HDD)</li></ul>
Operating voltage	100V to 240V AC; 50/60 Hz
Overall consumption	< 150W (with 16 SATA HDDs)
Operating temperature	-10°C to 55°C
Operating humidity	5% to 95% (non-condensing)
Altitude	-60m to 5000m



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## About This Manual

- This manual is intended for multiple product models, and the photos, illustrations, descriptions, etc, in this manual may be different from the actual appearances, functions, features, etc, of the product.
- This manual is intended for multiple software versions, and the illustrations and descriptions in this manual may be different from the actual GUI and functions of the software.
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- Users must assume total responsibility and all risks for connecting the product to the Internet, including, but not limited to, network attack, hacking, and virus. Uniview strongly recommends that users take all necessary measures to enhance the protection of network, device, data and personal information. Uniview disclaims any liability related thereto but will readily provide necessary security related support.
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- To the extent allowed by applicable law, in no event shall Uniview's total liability to you for all damages for the product described in this manual (other than as may be required by applicable law in cases involving personal injury) exceed the amount of money that you have paid for the product.

## Network Security

Please take all necessary measures to enhance network security for your device.

**The following are necessary measures for the network security of your device:**

- **Change default password and set strong password:** You are strongly recommended to change the default password after your first login and set a strong password of at least nine characters including all three elements: digits, letters and special characters.
- **Keep firmware up to date:** It is recommended that your device is always upgraded to the latest version for the latest functions and better security. Visit Uniview's official website or contact your local dealer for the latest firmware.

**The following are recommendations for enhancing network security of your device:**

- **Change password regularly:** Change your device password on a regular basis and keep the password safe. Make sure only the authorized user can log in to the device.
- **Enable HTTPS/SSL:** Use SSL certificate to encrypt HTTP communications and ensure data security.
- **Enable IP address filtering:** Allow access only from the specified IP addresses.
- **Minimum port mapping:** Configure your router or firewall to open a minimum set of ports to the WAN and keep only the necessary port mappings. Never set the device as the DMZ host or configure a full cone NAT.
- **Disable the automatic login and save password features:** If multiple users have access to your computer, it is recommended that you disable these features to prevent unauthorized access.
- **Choose username and password discretely:** Avoid using the username and password of your social media, bank, email account, etc, as the username and password of your device, in case your social media, bank and email account information is leaked.
- **Restrict user permissions:** If more than one user needs access to your system, make sure each user is granted only the necessary permissions.
- **Disable UPnP:** When UPnP is enabled, the router will automatically map internal ports, and the system will automatically forward port data, which results in the risks of data leakage. Therefore, it is recommended to disable UPnP if HTTP and TCP port mapping have been enabled manually on your router.
- **SNMP:** Disable SNMP if you do not use it. If you do use it, then SNMPv3 is recommended.
- **Multicast:** Multicast is intended to transmit video to multiple devices. If you do not use this function, it is recommended you disable multicast on your network.
- **Check logs:** Check your device logs regularly to detect unauthorized access or abnormal operations.
- **Physical protection:** Keep the device in a locked room or cabinet to prevent unauthorized physical access.
- **Isolate video surveillance network:** Isolating your video surveillance network with other service networks helps prevent unauthorized access to devices in your security system from other service networks.

### Learn More

You may also obtain security information under Security Response Center at Uniview's official website.

## Safety Warnings

The device must be installed, serviced and maintained by a trained professional with necessary safety knowledge and skills. Before you start using the device, please read through this guide carefully and make sure all applicable requirements are met to avoid danger and loss of property.

### Storage, Transportation, and Use

- Store or use the device in a proper environment that meets environmental requirements, including and not limited to, temperature, humidity, dust, corrosive gases, electromagnetic radiation, etc.
- Make sure the device is securely installed or placed on a flat surface to prevent falling.
- Unless otherwise specified, do not stack devices.
- Ensure good ventilation in the operating environment. Do not cover the vents on the device. Allow adequate space for ventilation.
- Protect the device from liquid of any kind.
- Make sure the power supply provides a stable voltage that meets the power requirements of the device. Make sure the power supply's output power exceeds the total maximum power of all the connected devices.
- Verify that the device is properly installed before connecting it to power.
- Do not remove the seal from the device body without consulting Uniview first. Do not attempt to service the product yourself. Contact a trained professional for maintenance.
- Always disconnect the device from power before attempting to move the device.
- Take proper waterproof measures in accordance with requirements before using the device outdoors.

### Power Requirements

- Install and use the device in strict accordance with your local electrical safety regulations.
- Use a UL certified power supply that meets LPS requirements if an adapter is used.
- Use the recommended cordset (power cord) in accordance with the specified ratings.
- Only use the power adapter supplied with your device.
- Use a mains socket outlet with a protective earthing (grounding) connection.

- Ground your device properly if the device is intended to be grounded.

#### Battery Use Caution

- When battery is used, avoid:
  - Extremely high or low temperature and air pressure during use, storage and transportation.
  - Battery replacement.
- Use the battery properly. Improper use of the battery such as the following may cause risks of fire, explosion or leakage of flammable liquid or gas.
  - Replace battery with an incorrect type;
  - Dispose of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery;
- Dispose of the used battery according to your local regulations or the battery manufacturer's instructions.

#### Avvertimento de l'utilisation de la batterie

- Lorsque utiliser la batterie, évitez:
  - Température et pression d'air extrêmement élevées ou basses pendant l'utilisation, le stockage et le transport.
  - Remplacement de la batterie.
- Utilisez la batterie correctement. Mauvaise utilisation de la batterie comme celles mentionnées ici, peut entraîner des risques d'incendie, d'explosion ou de fuite liquide de gaz inflammables.
  - Remplacer la batterie par un type incorrect;
  - Disposer d'une batterie dans le feu ou un four chaud, écraser mécaniquement ou couper la batterie;
- Disposer la batterie utilisée conformément à vos règlements locaux ou aux instructions du fabricant de la batterie.

### Regulatory Compliance

#### FCC Statements

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Visit [https://global.uniview.com/Support/Download\\_Center/Product\\_Installation/Declaration/](https://global.uniview.com/Support/Download_Center/Product_Installation/Declaration/) for SDoC.

**Caution:** The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**NOTE:** 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.

#### LVD/EMC Directive



This product complies with the European Low Voltage Directive 2014/35/EU and EMC Directive 2014/30/EU.

#### WEEE Directive–2012/19/EU



The product this manual refers to is covered by the Waste Electrical & Electronic Equipment (WEEE) Directive and must be disposed of in a responsible manner.

#### Battery Directive-2013/56/EC



Battery in the product complies with the European Battery Directive 2013/56/EC. For proper recycling, return the battery to your supplier or to a designated collection point.