

Video Wall Controller/ Board Enclosure Quick Guide

1 Packing List

Contact your local dealer if the package is damaged or incomplete. The package contents may vary with device model.

Table 1-1 Video Wall Controller Packing List

No.	Name	Qty	Unit
1	Host	1	PCS
2	Power module (including power cable)	1	Set
3	Grounding cable	1	PCS
4	Serial cable	1	PCS
5	Mounting bracket	1	Pair
6	Screw components	1	Set
7	Product documents	1	Set

Table 1-2 Board Enclosure Packing List

No.	Name	Qty	Unit
1	Board enclosure	1	PCS
2	Power module (including power cable)	1	Set
3	Grounding cable	1	PCS
4	Mini-SAS HD cable	4	PCS
5	Mounting bracket	1	Pair
6	Screw components	1	Set
7	Product documents	1	Set

2 Product Overview

2.1 Slots

Device appearance may vary with device model. The following figures all use filler

panels to illustrate the slot types.

2.1.1 Front View

Please insert the corresponding board according to the color mark on the side of the board slot.



NOTE!

- If only one control board is used, please insert it into M1 slot (numbered 1 in the figure above).
- The cascade board slots and control board slots of board enclosures do not support inserting boards.

2.1.2 Rear View




2.2 Boards

2.2.1 Control Board



Module	Name	Description
Control Board	RUN indicator	Running indicator: <ul style="list-style-type: none"> ● Blinking: The board is starting up. ● Steady on: The board runs normally. ● Off: The board is powered off.
	ALM indicator	Alarm indicator: <ul style="list-style-type: none"> ● Steady on: The board is faulty. ● Off: The board runs normally.
	PWR indicator	Power indicator: <ul style="list-style-type: none"> ● Steady on: The power supply is normal. ● Off: There is no power input.
	ACT indicator	Active/Standby control board indicator: <ul style="list-style-type: none"> ● Steady on: The control board is the active control board. ● Off: The control board is the standby control board.
	USB interface	Two USB 3.0 interfaces that are used for connecting USB devices.
	RS232/ RS485	Connects serial devices.
	Console	A serial interface that is used for configuring the device.
	GE	One 10/100/1000 BASE-T adaptive Ethernet interface.
	RST	Reset key <ul style="list-style-type: none"> ● Press this key to reset the system. ● Press and hold this key for more than 5 seconds to restore the factory settings.
	SWAP	Press this key to switch the active control board to a standby control board.

Module	Name	Description
Grounding Screw		Connects a grounding cable.

2.2.2 Switch Board

Figure 2-1 Switch Board of Controller



Figure 2-2 Switch Board of Board Enclosure



Connect to the cascade interface on the cascade board.

No.	Name	Description
1	RUN indicator	<p>SLOT1~10: Indicates the operation status of service boards in the slots.</p> <p>SWB/SCB: Indicates the operation status of the switch board.</p> <ul style="list-style-type: none"> ● Blinking: The board is starting up. ● Steady on: The board runs normally. ● Off: The board is powered off.
2	ALM indicator	<p>SLOT1~10: Indicates the alarm status of service boards in the slots.</p> <p>SWB/SCB: Indicates the alarm status of the switch board.</p> <ul style="list-style-type: none"> ● Steady on: The board is faulty. ● Off: The board runs normally.

2.2.3 Cascade Board



NOTE!

Cascade boards are only required when connecting board enclosures.

The cascade boards are used for connecting board enclosures, and support connecting 5 board enclosures.



2.2.4 Service Board

This device provides ten slots for different service boards, you can freely match boards according to application scenarios.

3 Installation

3.1 Check Before Installation

1 Check installation site

The device is for indoor use only, and must meet the lightning protection and grounding requirements.

- The installation environment must meet the lightning protection requirements, and the device shall be equipped with a lightning protector where necessary.
- Make sure the power supply to be connected meets the requirements indicated on the device and the voltage is stable.
- Make sure the device is reliably grounded.

2 Check installation tools

You need to prepare the following tools:

- Phillips screwdriver
- ESD wrist bands or gloves

3.2 Place the Device

3.2.1 Place the Device into a Cabinet

Plan the space in the cabinet based on the device height (3U). If the cabinet is equipped with a tray, preferentially use the tray. Otherwise, purchase a bracket slide rail from our company.

Check the grounding and stability of the cabinet, and confirm that the load-bearing capacity of the cabinet meets the device requirements and no obstacles in and around the cabinet that may affect installation.

Before installing the device in a 19-inch cabinet, check the following items:

- The cabinet is properly grounded and stably installed.
- The load-bearing capacity of the cabinet meets the device requirements and no obstacles in and around the cabinet that may affect installation.
- The cabinet is not equipped with a glass door.
- The cabinet is supported by brackets, not wheels.
- The device is installed in the lower part of the cabinet if possible.

3.2.2 Install the Device on a Workbench

If no cabinet is available, you can place the device on a clean workbench.

Before installation, check the following items:

- The workbench is firm enough to bear the weight of the device and cables.
- The workbench is stable and properly 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.
- Do not stack the device or put other objects onto the device.

3.3 Install Boards



NOTE!

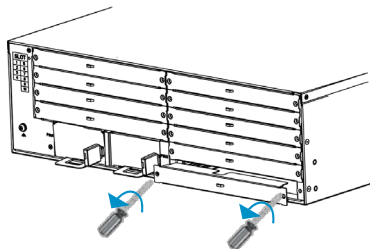
- Before installation, be sure to wear ESD wrist bands or gloves.
 - To install the control board, switch board and cascade board properly.
 - A service board can be inserted into any board slots.
-

The installation steps of all boards are similar. The following takes the installation of

service boards as an example for illustration.

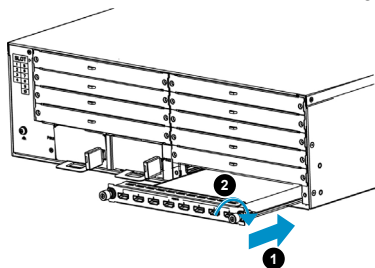
1. Remove the filler panel

Use a Phillips screwdriver to loosen the screws on the filler panel, and remove the panel.



2. Install service boards

- (1) Align the board with the slot, and push the board in gently to keep both sides parallel.
- (2) Push the board down to the slot, and tighten the captive screws clockwise.



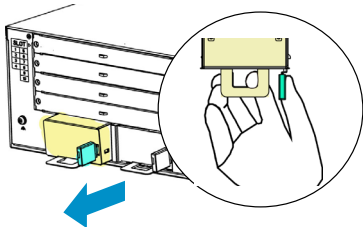
3.4 Install/Replace the Power Module



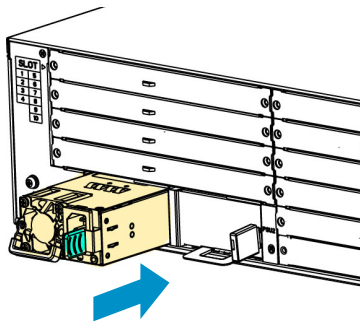
NOTE!

Before installation, be sure to wear ESD wrist bands or gloves.

1. Press the latch, and remove the filler panel/power module.



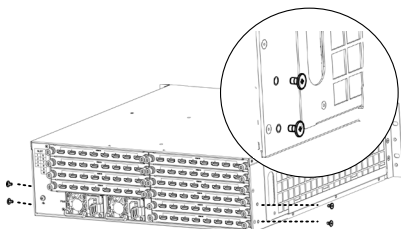
2. Align the power module with the slot, and press the latch to push the power module inward gently until it is firmly locked.



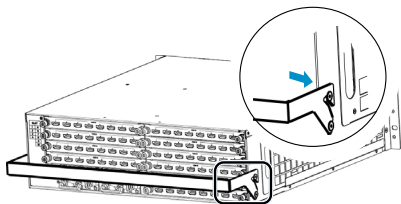
3.5 (Optional) Install the Cable Management Bracket

You can use a cable management bracket (sold separately) to keep cables organized.

1. Use a Phillips screwdriver to fix the four screws attached to the cable management bracket to the positions shown in the figure below on both sides of the chassis.



2. Fix the cable management bracket onto the screws on both sides of the chassis.



3.6 Connect Cables

3.6.1 Connect the Grounding Cable

Connect one end of the grounding cable to the grounding screw of your device and the other end to a reliable grounding position.

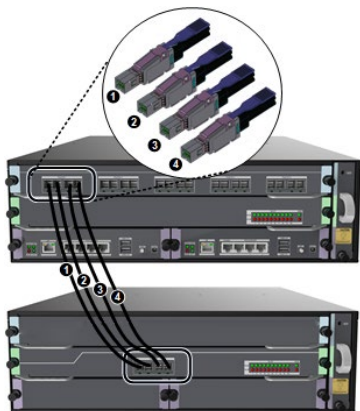
3.6.2 Connect the Mini-SAS HD Cable

Connect the cascade board and the switch board of the board enclosure via four Mini-SAS HD cables as shown in the figure below.



CAUTION!

If you hear a “click” sound when the connector is plugged in, it indicates that the cable is securely fixed.



4 Startup



CAUTION!

- Before connecting the power supply, ensure that the device is properly grounded: it is recommended to use a single-phase three-wire power socket with a neutral point, and the neutral point must be reliably grounded in the building.
- The full load power of the device is less than 350 W. Ensure that the power supply meets the device requirements.

After the device is properly installed, connect the device to the power supply to start the device.

Upgrade detection will be performed when the device is powered on for the first time. During the startup progress, all RUN indicators on the switch board are blinking, please wait patiently and do not disconnect the power. When all RUN indicators are steady on, it indicates that the device is started.

5 Web Login

Log in to the device's Web interface to perform management or maintenance

operations.

The default network settings are shown in the table below and may be modified as required.

Item	Defaults
Network address	<ul style="list-style-type: none">● IP address/subnet mask: 192.168.1.14/255.255.255.0● Gateway: 192.168.1.1
Username	admin
Password	123456 Note: The default password is intended only for your first login. To ensure security, please change the password after your first login. You are strongly recommended to set a strong password of at least nine characters including all three elements: uppercase and lowercase letters, digits, and special characters.

The procedure for logging in to the web page is as follows:

1. Open your browser, input the device's IP address in the address bar and then press Enter to open the login page.
2. Enter the username and password, and then click Login.

6 Maintenance Precautions

Be sure to disconnect power of the device before you start replacing a board that does not support hot-plugging. See the table below for details.

Board	Support Hot-plugging
Control board	No
Switch board	No
Cascade board	No
Service board	Yes

Disclaimer and Safety Warnings

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EU Authorised Representative

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Uniview complies with appropriate privacy protection laws and is committed to protecting user privacy. You may want to read our full privacy policy at our website and get to know the ways we process your personal information. Please be aware, using the product described in this manual may involve the collection of personal information such as face, fingerprint, license plate number, email, phone number, GPS. Please abide by your local laws and regulations while using the product.

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- 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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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.

Avertissement 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 http://en.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 Regulation- (EU) 2023/1542



Battery in the product complies with the European Battery Regulation (EU) 2023/1542. For proper recycling, return the battery to your supplier or to a designated collection point.