ViewSonic®

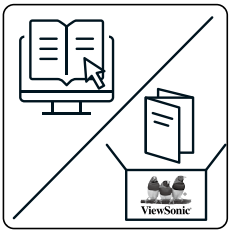
LDC031G Series

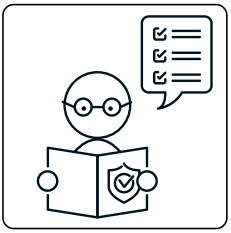
All-in-One Direct View LED Display

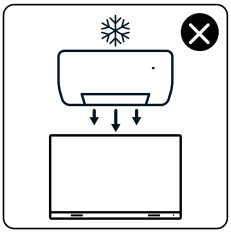
Installation Guide
快速入門指南
Guide de démarrage rapide
Schnellstartanleitung
Guía rápida de inicio

Model No. VS20729 | VS20730 | VS20731 | VS20732 | VS20735| VS20925 | VS20926
P/N: LDC031G-121 | LDC031G-151 | LDC031G-181 | LDC031G-251 | LD-SCB-024 | LD-SCB-025 | LD-SCB-026

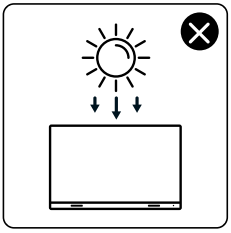
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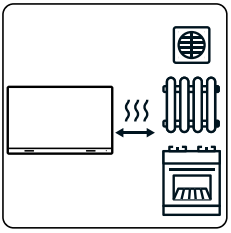


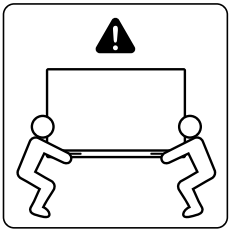


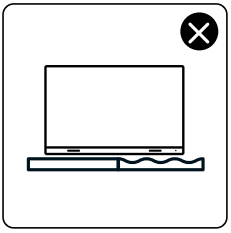


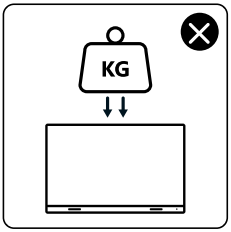


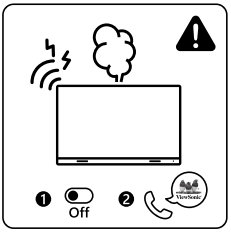


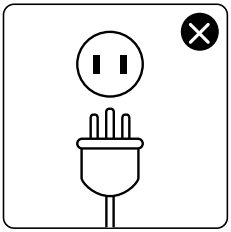


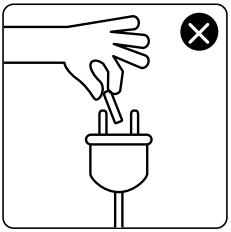




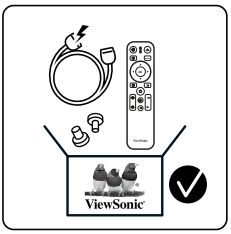




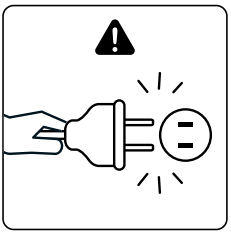


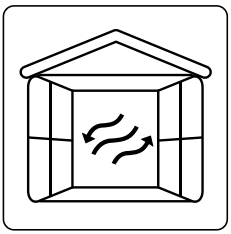


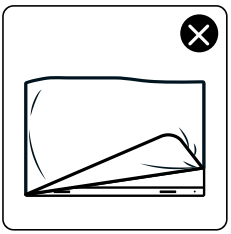


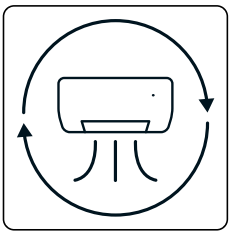


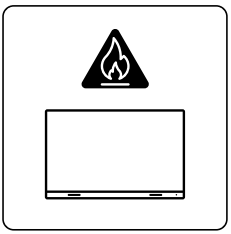






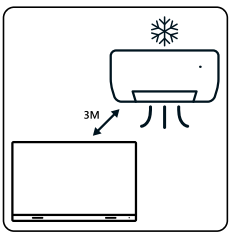












ViewSonic

FCC Compliance Statement

This device complies with part 15 of 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.

Industry Canada ICES-003 Statement: CAN ICES (B) / NMB (B)

CE Conformity for European Countries

The device complies with the EMC Directive 2014/30/EU, Low Voltage Directive 2014/35/EU.

Declaration of RoHS2 Compliance

This product has been designed and manufactured in compliance with Directive 2011/65/EU of the European Parliament and the Council on restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS2 Directive) and is deemed to comply with the maximum concentration values issued by the European Technical Adaptation Committee (TAC).

For EU users, please contact us for any safety/accident issue experienced with this product:

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Introduction

The step-by-step instructions in this guide are a general reference for installing the LED Display. If any details in this document are unclear, please contact your reseller for more information.

Note: All images and pictures shown in this guide are for illustration purposes only and may not represent the style of final product purchased.

Product Overview

A typical LED solution includes several key components: media sources, a control system, receiving cards, and the LED display. The control system sends images from your media source to the receiving cards, which then process and display the images on the LED unit.

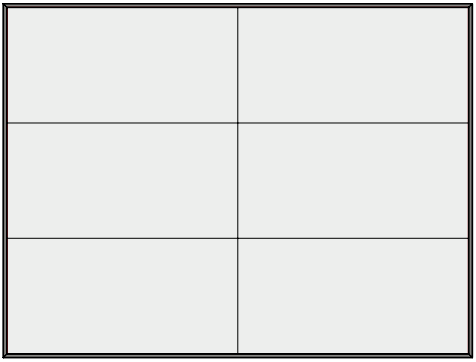
For the LDC series, the control system includes a control box and the LD-SCB-026 Power Module. Two control box options are available as follows:

Part Number	Contents
LD-SCB-024	VX2000 Pro Control Box + LD-SCB-026 Power Module
LD-SCB-025	VX600 Pro Control Box + LD-SCB-026 Power Module

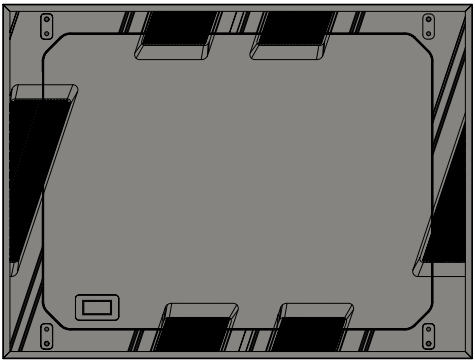
LED Unit

Note: The number of the LED Modules per Cabinet will vary depending on the model.

Front View



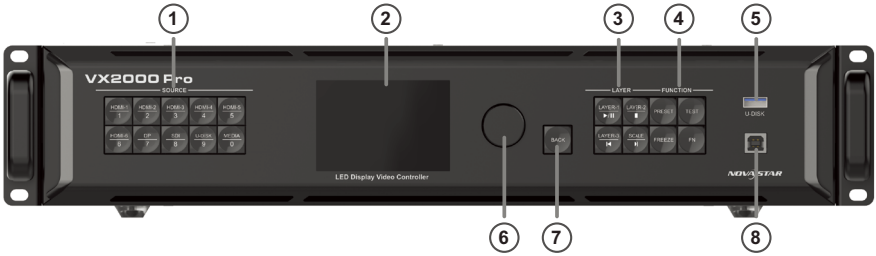
Rear View



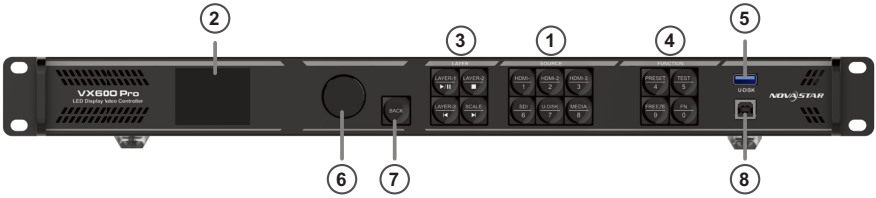
Control box

Front View

LD-SCB-024 (VX2000 Pro)



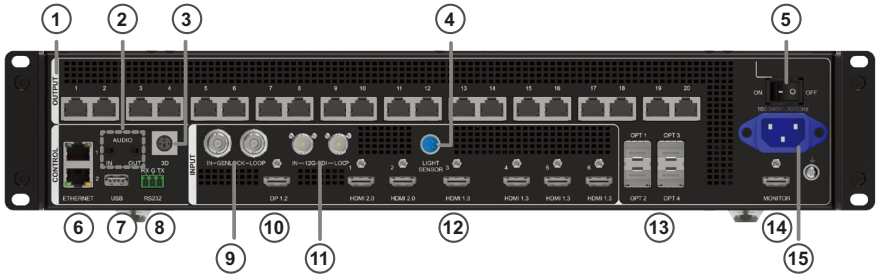
LD-SCB-025 (VX600 Pro)



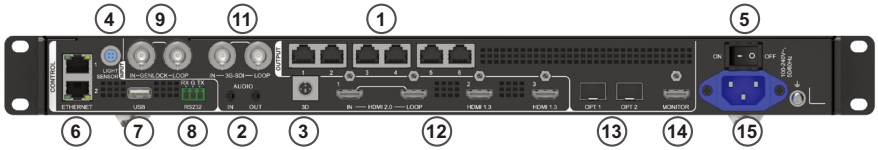
1. Input Select
2. LCD Screen
3. Layer Select/ Media Buttons
4. Function Buttons
5. USB Type A
6. Control Knob
7. Back (Return)
8. USB Type B

Rear View

LD-SCB-024 (VX2000 Pro)



LD-SCB-025 (VX600 Pro)



1. LAN (RJ45)	**2.** Audio In/Out	**3.** VESA 3D	**4.** Light Sensor
5. **Power** Switch	**6.** Ethernet	**7.** USB Type A	**8.** RS-232
9. Genlock In/ Loop	**10.** DisplayPort[1]	**11.** SDI In/Loop	**12.** HDMI
13. OPT	**14.** HDMI Out	**15.** AC In	

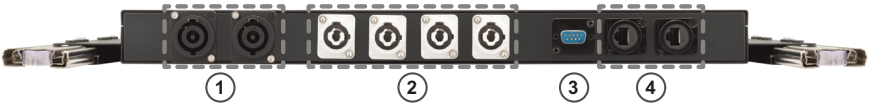
1 – For **LB-SCB-024 (VX2000 Pro)** only.

Power Module (LD-SCB-026)

Front View



Rear View



1. AC In **2.** AC Out **3.** RS-232 **4.** LAN (RJ45)

Before Installing

Read these instructions carefully, keep them in a safe place, and follow all warnings and instructions.

General Safety Precautions

- Always wear protective gear, such as gloves and protective shoes, when handling the LED Display.
- Due to the size and weight, it is recommended that two or more people handle it.
- Avoid installing the LED Display in places with high humidity.
- Ensure there is no direct airflow from air conditioning or heating vents blowing on the LED Display.
- The ideal room temperature range for the control box and power module is 0°C~40°C.

Installation

- Ensure the deviation of the wall surface is < 5 mm.
- Wood may split if holes are not pre-drilled before installing the Wall Mount Brackets.
- Ensure there is enough space for cables and enough air circulation around the control box.

Electrical Safety

- Electrical connections, and all associated servicing or adjusting, should only be performed by a qualified electrician approved or licensed as required by the locality.
- Use only Neutrik PowerCon cable connectors to connect to the power input socket. The cable(s) must be of a hard usage type with a minimum rating of 32A.
- Do not use extension cords. If the power cable(s) are too short, have a qualified electrician install an outlet near the LED Display.
- Before installing or servicing, ensure the power at the upstream circuit breaker is turned off.

Wall Mounting

Before the installation, make sure the Wall Mount Brackets supplied in the case match the ones illustrated in Appendix A.

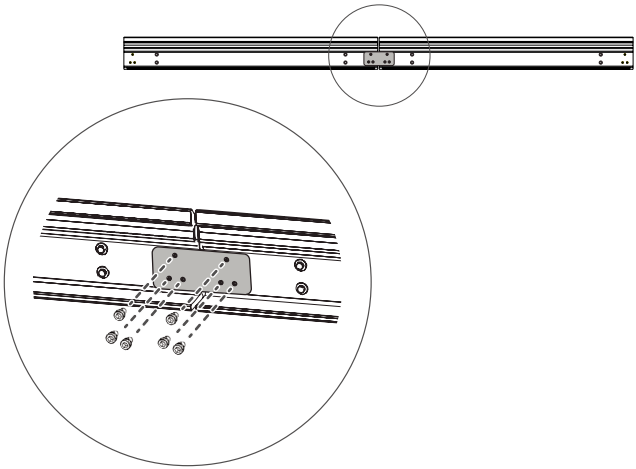
1. Please take a moment to check the following when deciding the installation location. However, for the best results, it is recommended to ask your reseller or licensed professional to install the Display.
   - The wall space.
   - The wall type.
   - The power consumption.
   - The installation type.
   - Power Module and control box placement.
   - Cable pathways between the Cabinets, and between the Cabinets and Power Module.

   Note:

   - Refer to Appendix A for the detailed instructions on mounting the Wall Mount Brackets and Power Module, including minimum space requirements.
   - Carefully test route all cables (Ethernet and power), making sure the cable length is enough for the outer rails of the Power Module to fully extend without causing tension on the cables.
   - Each Power Module should have a separate, dedicated power source.
2. Using the *Screw Hole Location* template provided in Appendix A, mark screw locations on the wall and pre-drill them.
3. Starting from the left, install the first Upper Wall Mount Bracket with the provided screws (M6 x 80 mm Expansion for masonry; wood screws for load bearing wood).
4. Repeat **Step 3**, making sure the second Upper Wall Mount Bracket is level with the first Upper Bracket.

   Note: To make sure the marks are horizontal, it is recommended to use a laser or torpedo level.

5. After mounting the first and second Upper Wall Mount Brackets to the wall, secure them with the Wall Mount Connector Plate using the six provided screws (M6 x 8 mm).



6. Repeat **Step 3~5** for the remaining Upper Wall Mount Bracket(s).

7. Install the Lower Wall Mount Brackets in the same manner as the Upper Wall Mount Brackets.

Note: You can also install the Upper Wall Mount Brackets, hang the screen, and then install the Lower Wall Mount Brackets for a more precise fit.

Mounting the Power Module

1. Using the *Screw Hole Location* template provided in Appendix A, mark six mounting holes (three holes per one rail) on the wall and pre-drill them.

   Note:

   - To make sure the marks are horizontal, it is recommended to use a laser or torpedo level.
   - Refer to Appendix A for the detailed instructions on mounting the Wall Mount Brackets and Power Module, including minimum space requirements.

2. At a full extension of the slide, install the right slide rail onto the wall using the provided screws, while the outer rail is level and align the mounting holes.

3. Repeat **Step 2** for the left slide rail.

Connecting Cables to the Power Module

Important:

- When the Power Module is securely mounted on the wall, you are ready to connect cables. Connect one end first. The other end should not be connected until all Cabinets are installed for easier cable routing.
- Make sure the power at the upstream circuit breaker is turned off at the beginning of this procedure.
- The Power Module requires a power supply cable with a PowerCon NAC3FC-HC cable connector for the power input.

1. Prepare the following cables.
   - Ethernet cables
   - Power supply cable(s)[1], with a PowerCon NAC3FC-HC power input connector installed (purchase separately)
   - Power cables of the Cabinets
2. Make sure you use the correct power supply cable and power supply rating for your location.
3. Insert the power connector of a power supply cable to the **AC In** male power socket at the rear of the Power Module. Then, rotate the power connector 90° clockwise (a click should be heard).
4. Connect one end of the Power cable of the Cabinet to the **AC Out** power socket of the Power Module.
5. Repeat **Step 4** for the remaining Power cables.
6. To communicate with the control box, connect one end of an Ethernet cable to the LAN (RJ45) port of the Power Module.

1 – The number of power sources depends on the actual power draw of your LED Display.

Installing the Cabinets

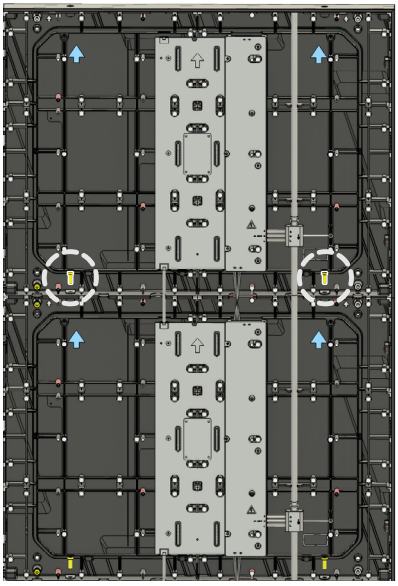
Note: Before the installation, it is recommended to refer to Appendix B first to decide how you want to route the cables for the power and network connections to the Cabinets.

1. Place each section of a Cabinet on stable furniture that can safely support them. Start from the middle, then move to the left and right.

   Note:

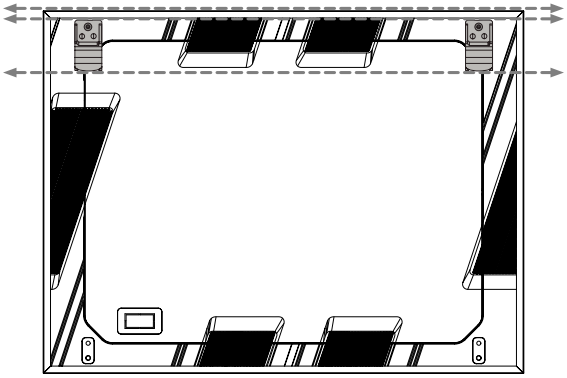
   - One Cabinet is divided into separate sections. You can identify these Cabinet sections by the labels on the package. For more information, refer to Appendix B to identify Cabinet sections and installation sequence.
   - The arrow marks on each Cabinet section should be pointing up.

2. Install the Cabinet sections together with the two provided screws (M6 x 16 mm).



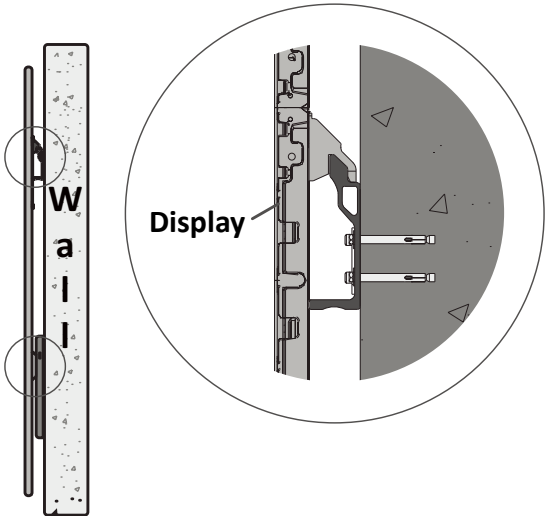
3. On the back of the Cabinet, install the Mounting Brackets to the location indicated in Appendix A with the provided screw.

Note: Before tightening the screw, adjust the Mounting Bracket so that its top edge is parallel to the Cabinet and both Brackets are perfectly horizontal with each other.



4. Carefully lift the assembled Cabinet onto the center of the Upper Wall Mount Brackets.

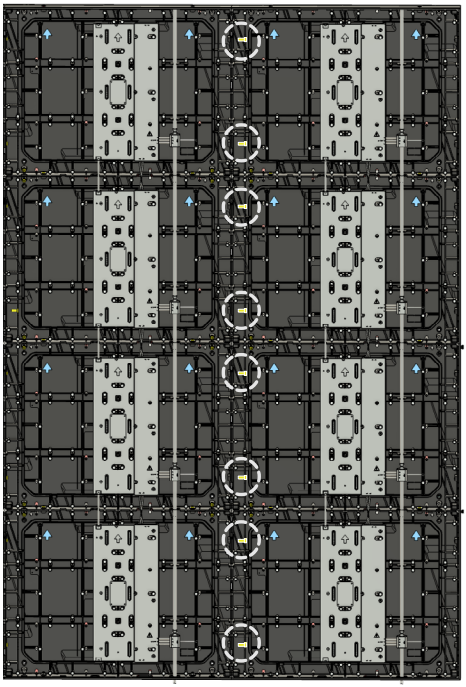
5. Make sure the Mounting Brackets sit securely on the Wall Mount Brackets as shown below.



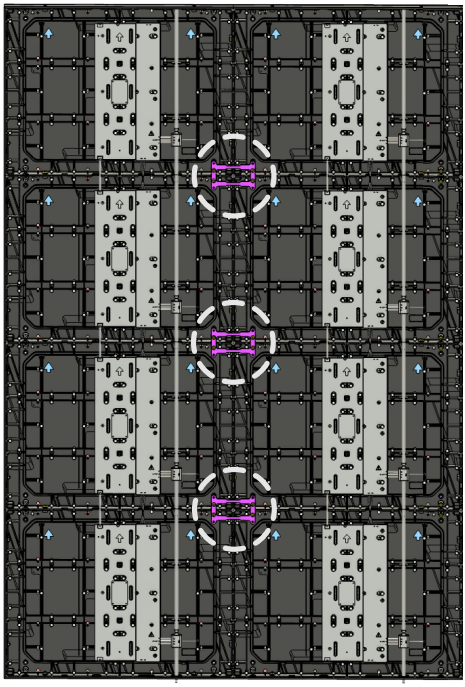
Side View of the Display

6. Repeat **Step 1~5** for the second Cabinet.

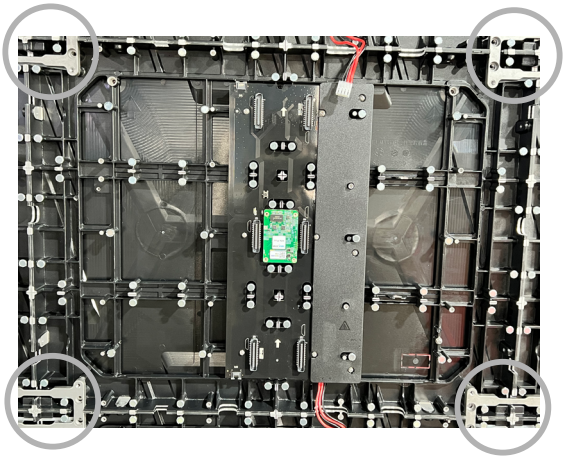
7. Install the first and second Cabinets together with the provided screws (M6 x 16 mm).



8. Further secure the two Cabinets by installing the Cabinet Connector Plates at the each cross section with the provided screws (M6 x 12 mm).

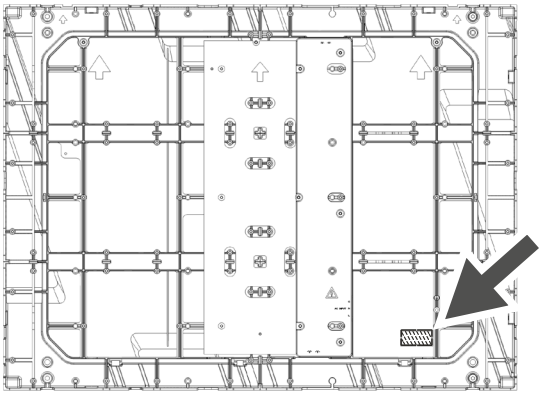


9. Check for unevenness of the Cabinets by rubbing the cross section between each Cabinet. If the cross section is not aligned, loosen the M6 screws slightly and tap the Cabinets until the cross section is flat.



10. Repeat **Step 1~9** for the remaining Cabinets, ensuring that the Mounting Brackets sit securely on the Wall Mount Brackets, and that the Cabinets are properly secured together.

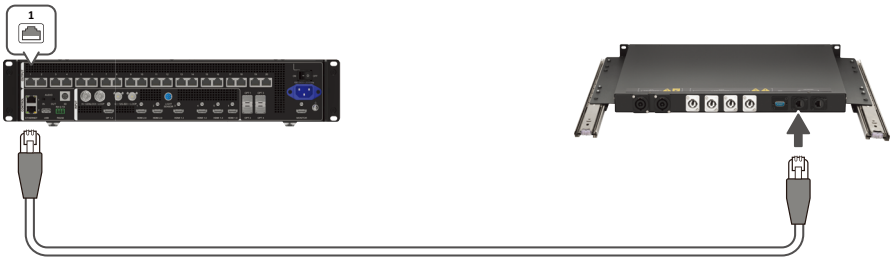
11. At the bottom of each Cabinet, use a pair of pliers or utility knife to remove the breakaway tab from the Cabinet assembly to allow cable routing. Refer to Appendix B for the tab location.



Connecting to the Control Box

Important: Before connecting cables to the control box, make sure the control box is fully inserted into the rack, and the rack is securely situated.

1. To connect the control box to power, connect the power cord from the Power Module to the **AC In** jack of the control box. Then, plug the power cord plug into a power outlet.
2. Connect the other end of the Ethernet cable from the Power Module to the first LAN (RJ45) port of the control box.



Network Connection between the Power Module and LD-SCB-024 (VX2000 Pro) Control Box



Network Connection between the Power Module and LD-SCB-025 (VX600 Pro) Control Box

3. Using Appendix B as a guide, connect other Ethernet cables to the control box. Each LAN (RJ45) port must correspond to the correct Cabinet according to the diagram provided in Appendix B.
4. Route the Ethernet and Power cables of the Cabinets through the holes previously punched out, and then connect each cable to the appropriate connector on the Cabinet.

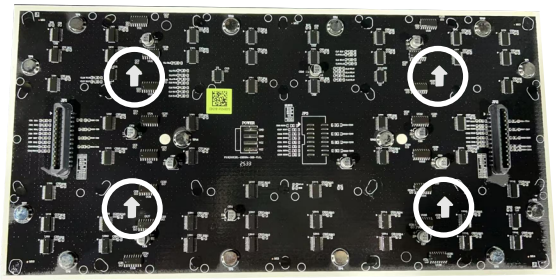
Installing the LED Modules

- Please wear Anti-Static Gloves before handling the LED Modules.
- To avoid direct contact with the LED Modules, please remove watches, rings, bracelets, or other metal objects.
- Use caution when installing the LED Modules.

1. Align each LED Module with the Cabinet, then carefully press the Module into place. See Appendix C to for the installation sequence.

Note:

- Before installing the LED Module, ensure that each Module is flush and that there is little to no gap between each. It may be necessary to gently tap the module to make it flush.
- The arrow marks on the back of the LED Modules should be pointing up.



2. Attach the remaining LED Modules onto the Cabinets in the same manner.

Turning On the Power Supply

1. Make sure all connections have been made and are correct.
2. Plug the connected power supply cable(s) into a power outlet.
3. Turn on the upstream circuit breaker and **Power** switch of the control Box.

   Note: To learn more about the Display, please refer to the User Guide.
4. Your LED Display is now ready to turn on.

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