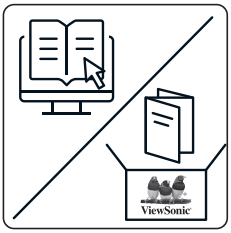
ViewSonic®

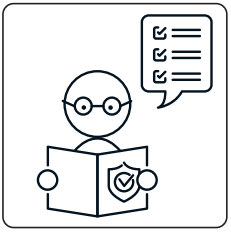
LD-SCB-023

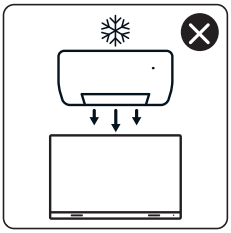
LDC027 Series
All-in-One Direct View LED Display
Separate Installation

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

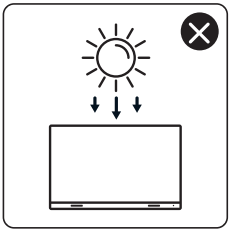
Model No. VS20448
P/N: LD-SCB-023

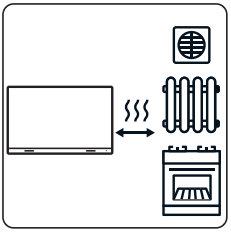


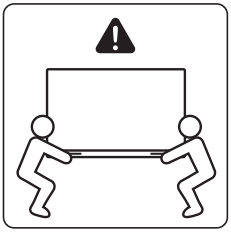


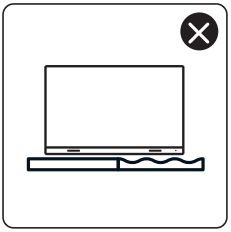


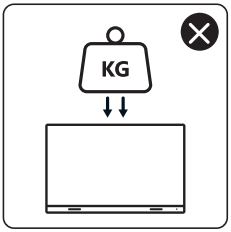


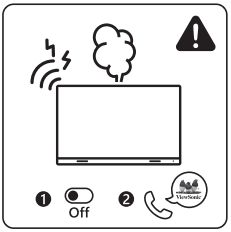


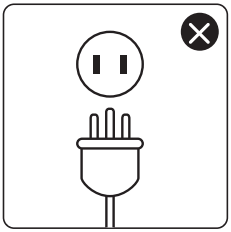


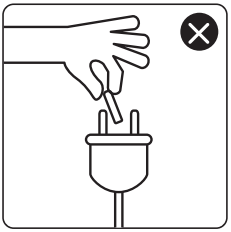




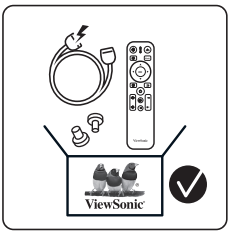




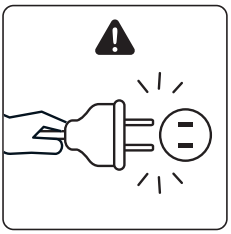


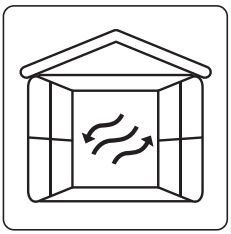


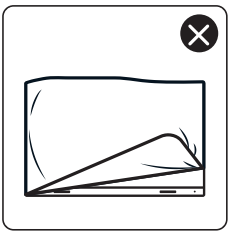


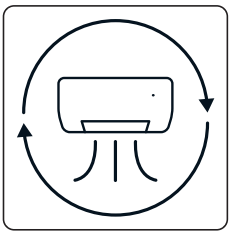


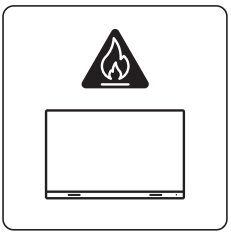






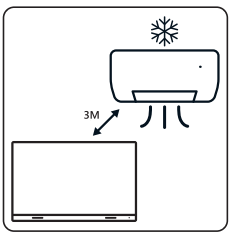












ViewSonic

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-003 (B) / NMB-003 (B)

CE Conformity for European Countries

The device complies with the EMC Directive 2014/30/EU, Low Voltage Directive 2014/35/EU and Radio Equipment Directive 2014/53/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.

Before Installing

- Ensure there is no direct airflow from air conditioning or heating vents blowing on the LED Display.
- Avoid installing the LED Display in places with high humidity.
- Due to high power usage, always use power cords specifically designed for this product.
- Wood may split if holes are not pre-drilled before installing the Wall Mount Brackets.
- Ensure the deviation of the wall surface is < 5 mm.
- 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.

Wall Mounting

Before the installation, please ensure 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 LED Display.

   - The wall space.
   - The wall type.
   - The power consumption.
   - The installation type.
   - Cable pathways between the Cabinets, and between the Cabinets and System Control Box.

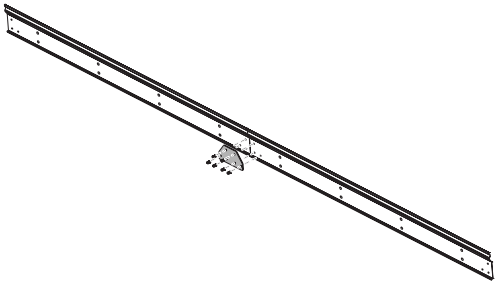
   NOTE: Refer to Appendix A for the detailed instructions on mounting the Wall Mount Brackets, including minimum space requirements.

2. Install the first Upper Wall Mount Bracket with the provided screws (M8 x 80 mm Expansion).

3. Repeat **Step 2**, ensuring the second Upper Wall Mount Bracket is level with the first Upper Bracket.

   NOTE: It is recommended to use a laser or torpedo level.

4. 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 (PM6 x 10 mm).



5. Repeat **Step 2~4** for the remaining Upper Wall Mount Bracket(s).
6. 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.

7. After installing the Upper and Lower Wall Mount Brackets, please mark the following holes and pre-drill them for the System Control Box (see Appendix B for the position of the mounting holes and cable access holes).

Installing the Cabinets

Before installing the Cabinets on the Wall Mount Brackets, it is recommended to refer to the wiring diagram provided in Appendix B first to decide how you want to route the Cables for the power and network connections to the Cabinets.

Additionally, the rubber hole plugs installed on the Cabinets are used to protect the Power and Network Cables from rubbing against any pointed edges. After installing all Cabinets, use a knife to cut the rubber hole plugs to size along the cross according to the thickness of the Cables.

1. Place each section of the Cabinet on stable furniture that can safely support them. Start with the Cabinets from the center, then move to the right and left sides of the Wall Mount Brackets (see Appendix B to identify Cabinet sections and installation sequence).

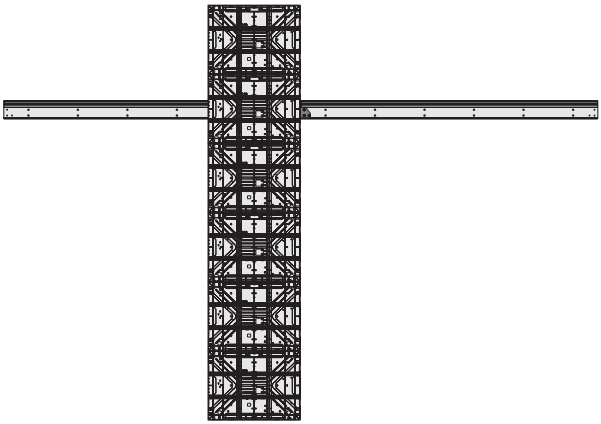
   NOTE:

   - One Cabinet is divided into separate sections. You can identify these Cabinet sections by the labels on each section or the package.
   - The arrow marks on each Cabinet section should be pointing up.

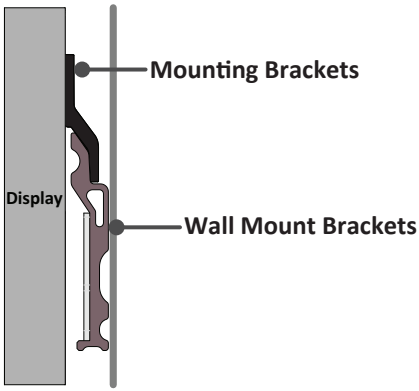
2. Attach the Cabinet sections together with the provided screws (M8 x 20 mm).

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

NOTE: The illustration below is provided for reference only and may differ from the actual product appearance.

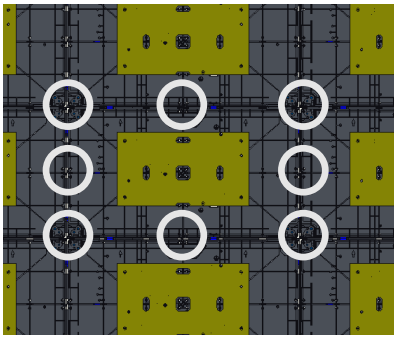


4. Ensure the Mounting Brackets sit securely on the Wall Mount Brackets as shown below.



5. Repeat **Step 1~2** for the second Cabinet.
6. Install the first and second Cabinets together with the provided screws (M8 x 20 mm).

7. Check for unevenness of the Cabinets by rubbing the cross section between each Cabinet. If the cross section is not aligned, loosen the M8 screws slightly and tap the Cabinets until the cross section is flat.



8. Repeat **Step 1~7** for the remaining Cabinets, ensuring that the Mounting Brackets sit securely on the Wall Mount Brackets, and that the Cabinets are properly secured together.

   NOTE: Refer to Appendix B to identify the Cabinets and installation sequence.

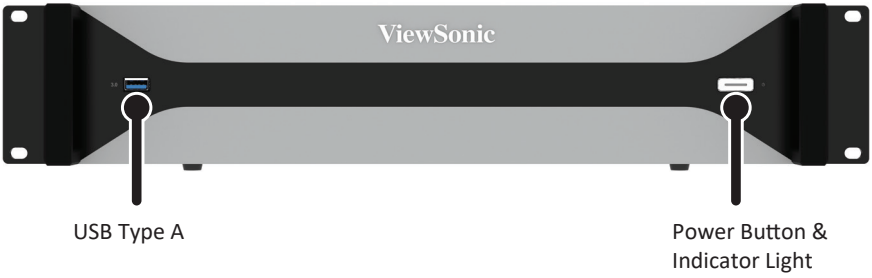
9. After installing all Cabinets, cut the rubber hole plugs to size along the cross with a knife (see Appendix B for the position of the hole plugs).

Connecting and Installing the System Control Box

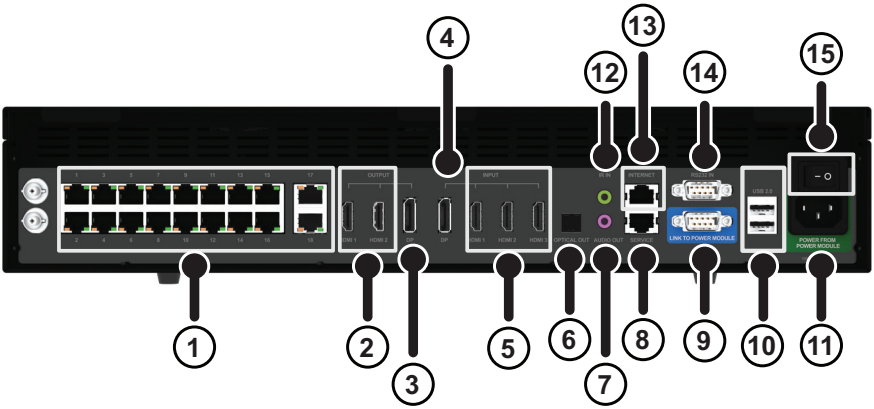
The LD-SCB-023 control box comprises a Control Box and Power Module.

Control Box

Front View



Rear View



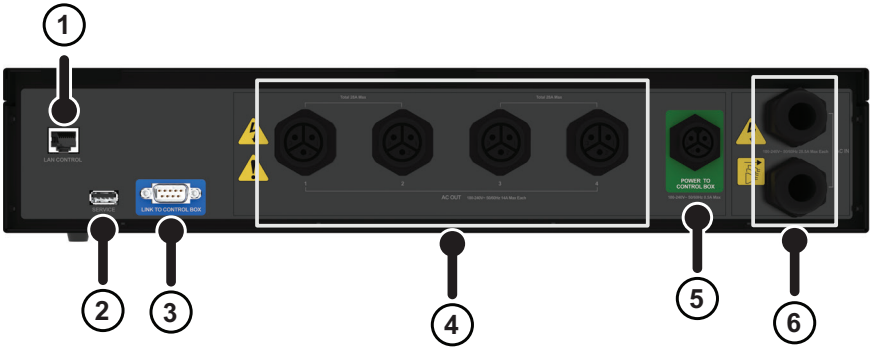
1. RJ45
2. HDMI 2.0 Out
3. DisplayPort 1.2 Out
4. DisplayPort 1.2 In
5. HDMI 2.0 In
6. Optical Out
7. Audio Out
8. LAN (Service only)
9. RS232 (For Power Module)
10. USB Type A 2.0
11. AC In (To Power Module)
12. IR Extension
13. LAN
14. RS232
15. Power Switch

Power Module

Front View



Rear View



1. LAN Control
2. USB Type A (Service only)
3. RS232 (To Control Box)
4. Power Sockets
5. Power Socket (For Control Box)
6. AC In[1]

1 - The System Control Box Power Cables are already pre-connected to the Power Module.

IMPORTANT: Make sure the directions below are followed before installing the System Control Box.

- The power at the upstream circuit breaker is turned off.
- The Control Box and Power Module are fully inserted into the rack, and the rack is securely situated.
- There are enough room for cables or wiring.

1. Connect one end of the supplied RS232 cable to the RS232 port of the Control Box. Then, connect the other end of the cable to the RS232 port of the Power Module.
2. To connect the Control Box to power, connect the flight plug of the supplied power cord to the Power socket of the Power Module used for the Control Box. Then, rotate the plug clockwise until it clicks into place.
3. Connect the other end of the supplied power cord to the AC In jack of the Control Box.
4. At the lowest row of the Cabinets, connect the connector of the supplied Power Cable to the power connector of the Cabinet. Then, connect one end of a commercially available ethernet cable to the network port of the Cabinet.

   NOTE: See Appendix B for example system wiring diagram.
5. After connecting all the Power Cables and ethernet cables to the Cabinets, carefully thread them through the holes provided in the Cabinets and run the cables behind the Cabinets from the top cable access hole through the bottom cable access holes.

   ❗ Avoid sharp bends in the Cables.

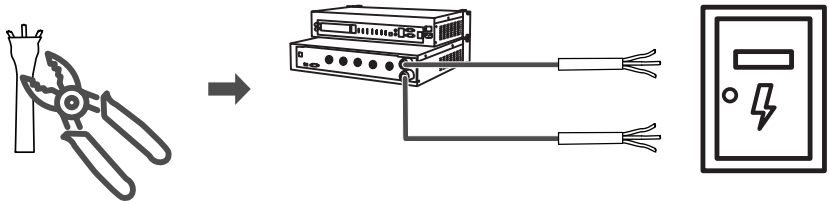
   ❗ The rubber hole plugs must always be placed in the holes.
6. Connect the other end of the ethernet cable to the RJ45 port of the Control Box.
7. After connecting all the ethernet cables, connect the flight plug of the Power Cable to the power socket of the Power Module.

   NOTE: Make sure the plug is connected securely (a click should be heard).
8. After connecting all the Power Cables, connect the supplied IR extension cable to the IR Extension port of the Control Box.

9. Strip insulation carefully from the wires of the System Control Box Power Cable(s), route it to the distribution box, and connect each wire (neutral, live, and ground) to its correct terminal.

   ! The meaning of wiring color may vary by country. Always follow your local or national wiring rules.

   ! Make sure the neutral, live, and ground conductors are tightened properly.



Installing the LED Modules

! Please wear Anti-Static Gloves before handling the LED Modules.

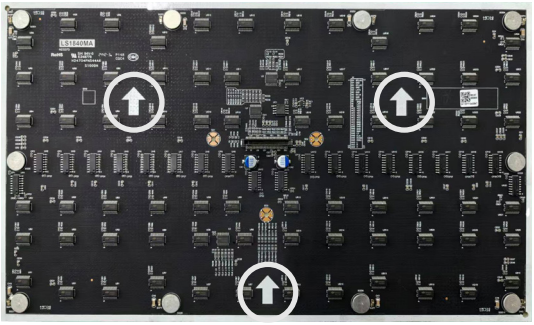
! To avoid direct contact with the LED Modules, please remove watches, rings, bracelets, or other metal objects.

! 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:

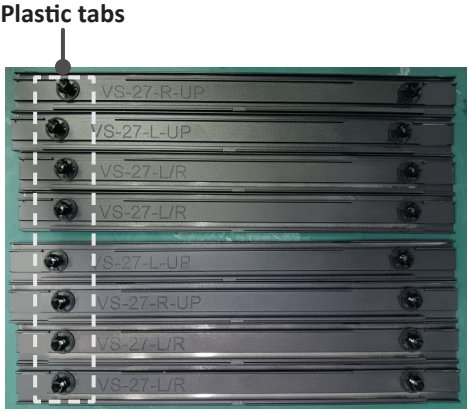
   - Before installing the LED Module, ensure that each Module is flush and that there is little to no gap between each. It may be necessary to gently tap the module to make it flush.
   - The arrow marks on the back of the LED Modules should be pointing up.



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

Installing the Screen Bezels

The Screen Bezels' plastic tabs are pre-installed onto the Bezels. Ensure all plastic tabs are properly mounted before installing the Screen Bezels onto the screen.



1. Place the Screen Bezel to the correct side of the screen to attach. Start from the left and move to the right (See Appendix C for the location where each Screen Bezel should be installed).

   NOTE:

   - Ensure the plastic tabs of the Screen Bezel is facing the screen.
   - If a Screen Bezel does not seem to fit, lift it up with caution and check if it is on the correct side to install. If the Bezel does not seem to fit at all, please contact your reseller. DO NOT force it into place.

2. Align the plastic tabs of the Screen Bezel with the holes provided in the screen.



3. Press down on the Screen Bezel until you hear it click into place.
4. Place the remaining Screen Bezels onto the left and right sides of the screen in the same manner.

Turning On the LED Display

1. Make sure all connections have been made and are correct.
2. To power the System Control Box, turn on the upstream circuit breaker and Power Switch of the Control Box.
3. Your LED Display is now ready to power on. For details, please refer to the User Guide.

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