



# **Full-Color LED Display Unit**

**Quick Strat Guide**

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### About this Manual

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 of this Manual at the Hikvision website ( <https://www.hikvision.com/> ).

Please use this Manual with the guidance and assistance of professionals trained in supporting the Product.

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## Regulatory Information

### FCC Information

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

### 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 comply therefore with the applicable harmonized European standards listed under the EMC Directive 2014/30/EU, the RoHS Directive 2011/65/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: <http://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: <http://www.recyclethis.info>.

### **Industry Canada ICES-003 Compliance**

This device meets the CAN ICES-3 (A)/NMB-3(A) standards requirements.

## Preface

### Applicable Models

This guide is applicable to LED display units.

### Symbol Conventions

The symbols that may be found in this document are defined as follows.

Symbol	Description
 <b>Danger</b>	Indicates a hazardous situation which, if not avoided, will or could result in death or serious injury.
 <b>Caution</b>	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
 <b>Note</b>	Provides additional information to emphasize or supplement important points of the main text.

### Safety Instructions

For safety concerns, the device has been strictly tested before shipment. However, incorrect installation or usage may lead to hazardous results such as electric shock and fire. To ensure the service life and best performance of the device, please read the notice and plate signs carefully and follow the safety instructions. Keep this guide properly for later use.

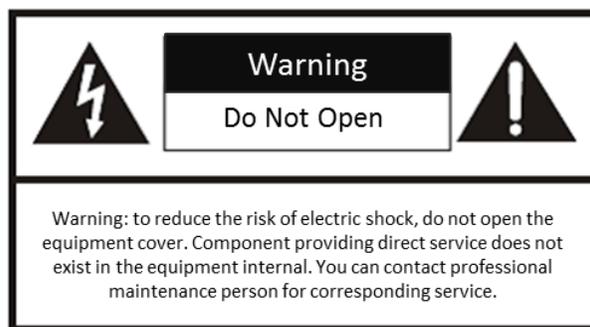
#### **Caution**

- To ensure safety, the installation parts and the wall should support four times the weight of the device.
- Install the device no more than 5 mm away from the wall or other metal racks in case of lamp board drop resulting in electric shock.
- Please set the brightness of the LED display within 500 nits to avoid power overload.
- The device may generate radio interference in indoor environment. Necessary precautions may be required.
- To reduce the risk of fire or electric shock, please do not expose the device to rain or humid environment.
- Electric discharge may last for a short period of time after the power is shut down. Please wait two minutes after the power is shut down before operating the device.

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- To avoid the risk of electric shock, please do not operate when the power is on.
- Please do not plug and unplug the power cable when the power is on.
- Ensure the correct wire sequence of the terminals connected to the AC power supply.
- Do not place anything containing liquid on the device to avoid the risk of fire or electric shock caused by liquid-splashing.
- The device is only suitable for installation on the concrete or non-flammable surfaces, to prevent molten material from dripping to the bottom during fire caused by internal failure.
- Keeping 90 degrees when moving and using the device.
- After installation, there should be no openings around the LED module. The bottom bracket under the wire outlet position should completely cover the bottom hole only to let the wire out, to prevent the molten material from dripping to the bottom during fire caused by internal failure.



### **Warning**

- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region.
- Disconnect the power plug before maintenance.
- Make sure the power supply is well-grounded.
- The protective grounding of the device should be reliably connected to the building protective grounding.
- To reduce the risk of electric shock, install protective shield on the exposed connector after installing LED screen.
- Disconnect the power plug before installing the protective shield.
- A disconnecting device should be provided on the outside of the equipment. A single device is recommended for AC 220 V / 230 V / 240 V, 6 A circuit breakers. When multiple devices are superimposed, a suitable circuit breaker should be selected according to the total rated current, but it must not exceed the building equipped circuit specifications.
- To prevent injury, the device must be securely fixed to the ground, wall, ceiling, or steel frame. The all-in-one rack should be fixed to the ground with expansion screws.
- The supporting rack can only be used with the device. Using it with other devices may cause instability and injury.
- The device can only be used with the supporting rack. Using it with other equipment (such as a cart, shelf, or handling device) may cause instability and injury.

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- Please strictly follow the installation method in this guide.
- The external wire connection between device and hazardous electronic terminals should be operated by professionals.
- This is a class A product and may cause radio interference in which case the user may be required to take adequate measures.

# Chapter 1 Product Introduction

## 1.1 Overview

Full-color LED display unit (hereinafter referred to as the device, the product, or the LED) is a high-precision product delivering clear and vivid images. It is featured by wide color gamut, stable performance, long service life, strong environmental adaption, cost effective and little cost to use. The device is applicable to scenes, such as radio and television stations, meeting room display, video surveillance, information display, etc.

## 1.2 Product Components

An LED control system includes sending and receiving cards. The sending card packages images and sends them to the receiving card. The receiving card unpackages and processes the images, and then displays the images on the LED display unit.

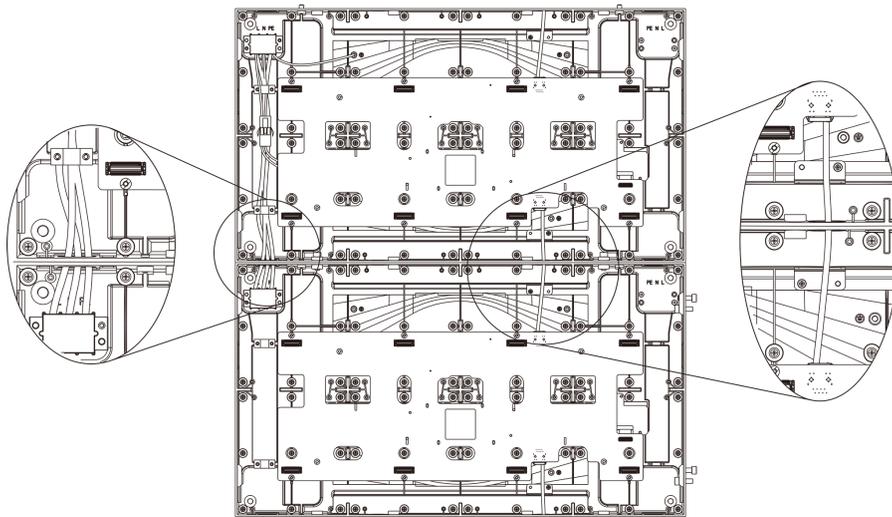
## Chapter 2 Preparations for Installation

### 2.1 Precautions for Mounting Displays

- Installation personnel must wear protective gear.
- Take safety measures when working at heights.
- Make sure that the rack is mounted vertically to the flat ground without tilting or twisting.
- Check that all structural parts and fasteners are fully mounted without missing.
- After all the accessories are mounted, clean all the debris in the rack and avoid metal debris being remained.
- Install the LED screens after the decoration construction is completed.
- Avoid humid or high-pH environment to prevent damage to the LED lamps.
- Do not expose the device to rain or humid environment to reduce the risk of fire or electric shock.
- Check carefully the lot number printed on the package label of your display. Do not use displays of different lot numbers to install the same video wall.

### 2.2 Precautions for Cabling

Please connect power cords and network cables according to the following diagram.



**Figure 2-1 Power Cords and Network Cables Connection**

#### **Power Cords Connection**

Take the following precautions before connecting power cords:

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- Do not use the power cords of other devices. Replace the power cords with the same specifications from regular channels only.
- Please do not frequently plug and unplug the power cord when the power is on.
- Electric discharge may last for a short period of time after the power is shut down. Please wait two minutes after the power is shut down before operating the device.
- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region.
- Use standard power modules.
- Ground the power cords first before powering on the displays.
- Please connect the live wire, neutral wire and earth wire correctly.
- To reduce the risk of electric shock, install protective shield on the exposed connector after installing your displays.

Follow the instructions below when connecting power cords:

- If your video wall has 15 rows of LED displays or fewer, connect a single power cord to each column from the bottom of the lowest display. That is, use one power cord for each column.
- If your video wall has more than 15 rows of LED displays, connect two power cords to each column both from the bottom of the display. That is, use two power cords for each column.

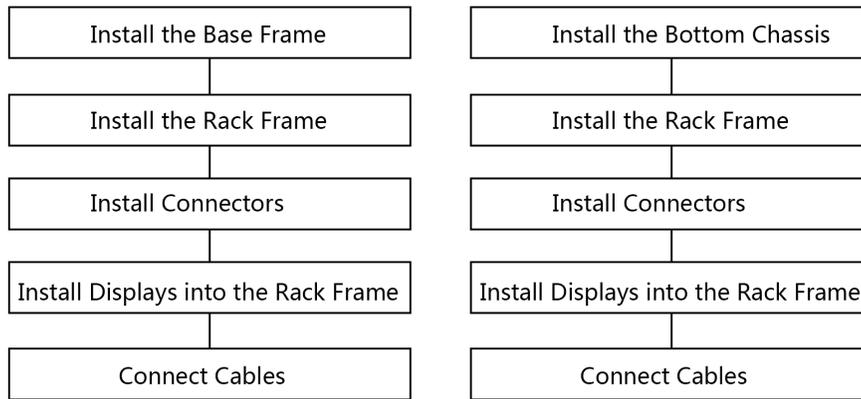
### **Network Cables Connection**

Take the following precautions before connecting network cables:

- If your video wall has 4 rows of LED displays or fewer, connect a single network cable to each column from the bottom of the lowest display. That is, use one network cable for each column.
- If your video wall has more than 4 rows of LED displays, connect two network cables to each column both from the bottom of the display. That is, use two network cables for each column.

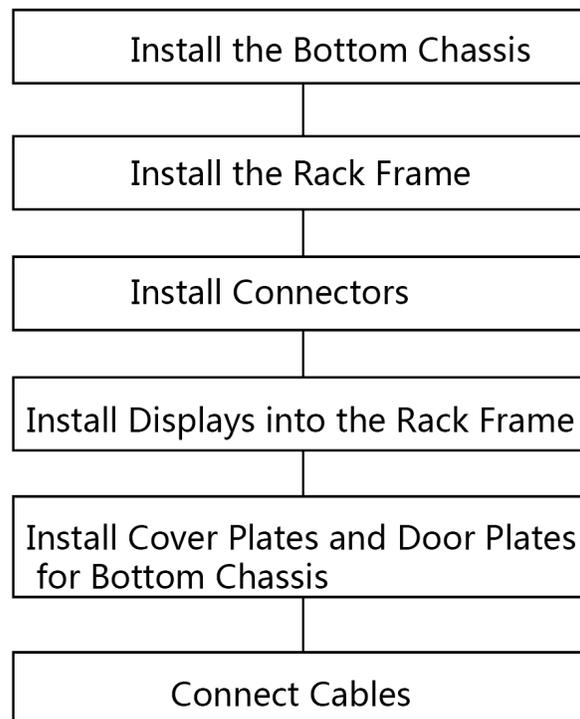
## Chapter 3 Installation Process

The following figures show the basic installation processes of three types of LED displays.



(1) Wall-Mount Rack

(2) Ultrathin Rack

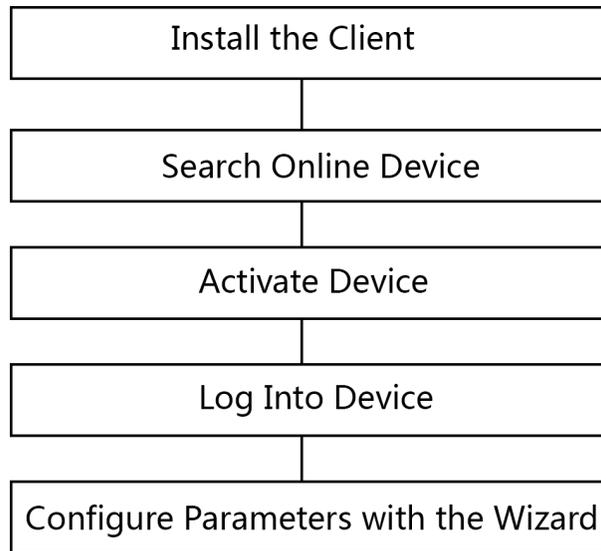


(3) All-in-One Rack

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After your displays are installed, you need to complete basic configuration on the client.



## Chapter 4 Verification After Installation

After the displays are installed and cables are connected, check if the following status indicators light up, which means that the displays work properly.

- After the network cable is plugged in, the network port indicator light blinks.
- After the power cord is connected, the red indicator light on the rear of your displays light up, which indicates that the display is powered on.
- After the power cord is connected, the blue indicator light on the rear of your displays light up, which indicates that the receiving card is working properly.

## Chapter 5 Installation Guide

For more details about the installation and configuration process, scan the QR code to get the installation guide.





See Far, Go Further