

User's Manual

LED Module

[Models for indoor use]

LED-E012i LED-E015i LED-E018i LED-E025i

MODELS: LED-E012i, LED-E015i, LED-E018i, LED-E025i

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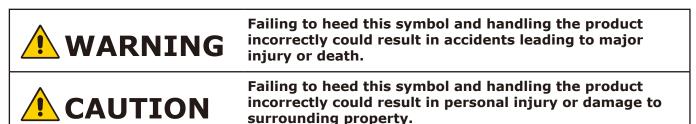
Important Information

Safety Precautions and Maintenance

FOR OPTIMUM PERFORMANCE, PLEASE NOTE THE FOLLOWING WHEN SETTING UP AND USING THE LED DISPLAY SYSTEM:

About the Symbols

To ensure safe and proper use of the product, this manual uses a number of symbols to prevent injury to you and others as well as damage to property. The symbols and their meanings are described below. Be sure to understand them thoroughly before reading this manual.



Examples of symbols

\triangle Indicates a warning or caution. This symbol indicates you should be careful of electric shocks.
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 Indicates a mandatory action. This symbol indicates that the power cord should be unplugged from the power outlet.

• Be sure to read the following before using the product to use it correctly and safely.

WARNING



Do not apply vibrations or shocks to the product.

Do not install the product to unstable locations or locations subject to vibrations.



Always ask a technician to perform the installation.



Do not connect the cables with wet hands. Otherwise, it may cause an injury or an electrical shock.

Do not repair or modify the product yourself. Otherwise, it may cause an injury, a fire or an electrical shock.

In case of thunder, do not touch the power cord. Otherwise, it may cause an electrical shock.



Connect the product to the correct voltage. If the product is connected to a voltage other than the specified voltage, it may lead to a fire or an electrical shock.



In case of a malfunction (nothing is displayed on the screen, etc.) or if smoke, abnormal heat, or a strange sound or odor is generated, turn the power off and immediately ask a technician or your retailer for repair.



Install the product so that the vents are not obstructed.



Make sure there are enough people available to ensure safety (at least two people) when installing or moving the product. Otherwise, it may lead to an injury.



Be sure to ground the product. If the product is not grounded, there is a risk of electrical shock in case a malfunction occurs.



In case foreign matter has entered into the product, immediately disconnect the power supply and stop using the product.

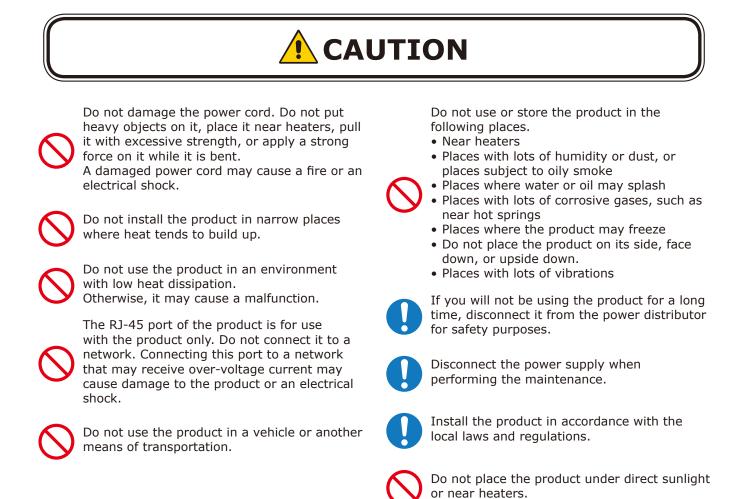


After the installation, if a problem such as loose screws occurs, immediately ask a technician or your retailer for repair.



Do not put objects into the product. Otherwise, it may cause a fire or an electrical shock.

In case the product is in contact with water or another liquid, immediately disconnect the power supply and stop using the product. If you continue using the product in that state, it may lead to a malfunction, a fire, or an electrical shock.



This product is designed to be used indoors. Do not use it outdoors. Otherwise, it may

cause a malfunction.

This product can only be serviced in the country where it was purchased.

About the LED lamps



LED lamps are sensitive to static electricity and surge voltage, which may damage their components and decrease their reliability.

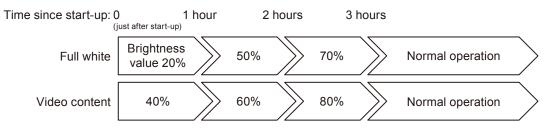
Take measures against static electricity during the installation. Do not touch the LED display areas.

The LED lamps may absorb and hold moisture during the LED module installation or if not used for a long time. Therefore, in such cases, the brightness must be increased gradually during a break-in period before setting the normal brightness.

If the LED lamps are lit with 100% brightness while moisture is retained, the temperature will rise very quickly and the water inside the lamps will evaporate and expand. This will cause the encapsulating resin to expand, which may lead to separation of the boundary surface inside the LED lamps. This separation can cause the LED lamps not to light up properly.

Lamp break-in

Configure the brightness settings as shown below with a video displayed on the LED module. After a break-in period of approximately 3 hours, the LED module can be used under normal conditions.

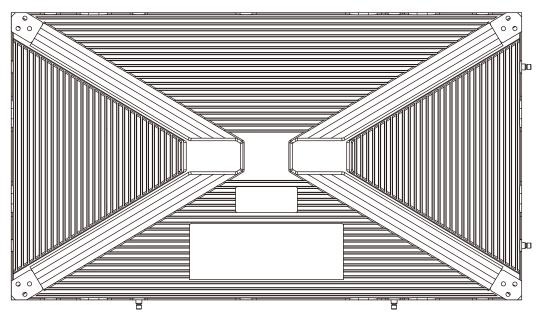


Contents

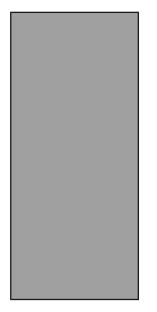
The supplied parts are as follows.

In case one of these parts is missing or damaged, contact the retailer.

[Cabinet]



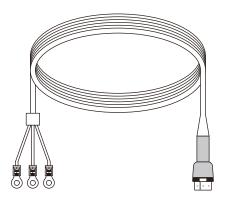
[Pixel card]



4 cards per cabinet

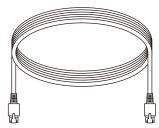
Related Items for Installation

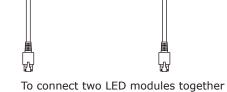
The items required when installing the system are shown below. Contact your retailer for more details. [Power cord]



To connect the LED module to the power distributor

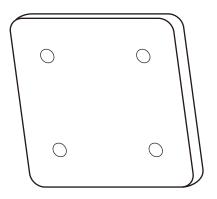
[LAN cable]





To connect the LED module to the LED controller

[Installation bracket]



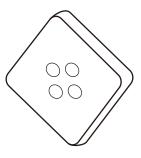
[Connection screw for Installation bracket]



[Connection screw for LED modules]

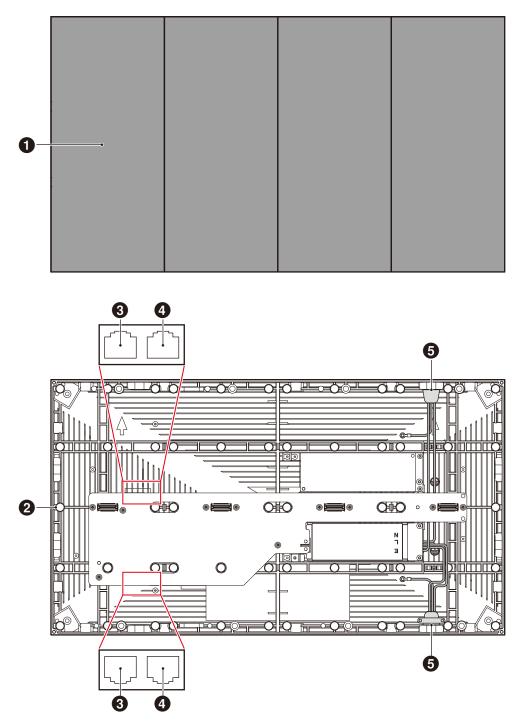


[Cabinet alignment bracket]



[USB drive]

Contains the data, the user's manual (this document), and the control software for the product you have purchased.



- 1 Pixel card
- 2 Cabinet
- **③** LAN cable input/output
- **4** LAN cable input (not used with this product)
- **5** Power cord input/output



(1) Maximum number of signal connections

The maximum number of connections per LAN cable is shown below.

Product name	Maximum number of connections	
LED-E012i	5 modules	
LED-E015i	7 modules	
LED-E018i	10 modules	
LED-E025i	20 modules	

CAUTION

The maximum number of connections may differ depending on the connected LED controller. Therefore, check the specifications of the LED controller you are using. Ask a technician or your retailer for more details.

(2) Maximum number of power connections

Exceeding the maximum capacity may generate smoke or cause a fire. Check the voltage used and do not exceed the connection limits shown below.

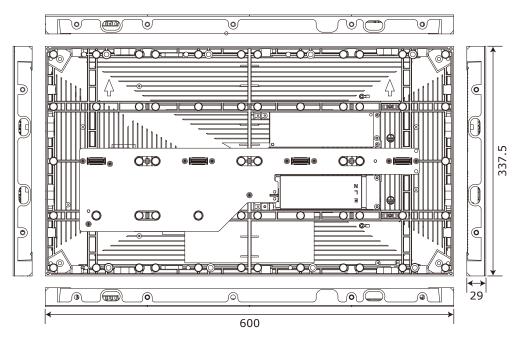
Product name	100 - 120 V AC	200 - 240 V AC	
LED-E012i	10 modules	20 modules	
LED-E015i	10 modules	20 modules	
LED-E018i	10 modules	20 modules	
LED-E025i	10 modules	20 modules	

Specifications

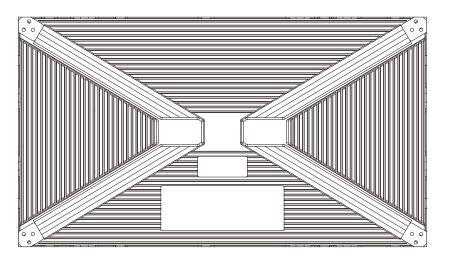
		LED-E012i	LED-E015i	LED-E018i	LED-E025i	
LED configuration			3-in-1 SMD			
Pixel pitch		1.25 mm	1.56 mm	1.88 mm	2.50 mm	
Number of displayed pixels (resolution/module)		480 × 270	384 × 216	320 × 180	240 × 135	
Brightness		600 cd/m ²	600 cd/m ²	800 cd/m ²	800 cd/m ²	
Contrast ratio		5000:1	5000:1	7000:1	7000:1	
Brightness adjustment range		0 to 100% (256 increments)				
Gamma correction			1.0 to 4.0 (default setting: 2.8)			
Color temperature			3000 K to 9500 K (default setting: 6500 K)			
Viewing angle		Horizontally 85°/ Vertically 80°	Horizontally 80°/ Vertically 70°	Horizontally 80°/ Vertically 70°	Horizontally 80°/ Vertically 70°	
Signal interface	Signal input	1 × RJ-45				
Signal output			1 × RJ-45			
Power supply			100 V AC to 240 V AC, 50 Hz/60 Hz			
Power consumption (all white, 100% brightness)		125 W				
Ingress protection	n	Front IP 20 / Back IP 20				
Maintenance						
Dimensions			600 × 337.	5 × 29 mm		
Weight		4.7 kg				
Operating	Temperature	-20 to 40°C				
environment	Humidity	10% to 80% (without condensation)				
	Altitude	No more than 5000 m				
Storage	Temperature	-20 to 45°C				
environment	Humidity		10% to 85% (without condensation)			

Specifications are subject to change without notice.

Diagram



LED-E012i / LED-E015i / LED-E018i / LED-E025i



(Unit: mm)

WEEE Mark (European Directive 2012/19/EU and amendments)



Disposing of your used product: In the European Union

EU-wide legislation as implemented in each Member State requires that used electrical and electronic products carrying the mark (left) must be disposed of separately from normal household waste. This includes LED Poster and electrical accessories, such as signal cables or power cords. When you dispose of such products, please follow the guidance of your local authority or ask the shop where you purchased the product, or if applicable, follow applicable legislation or agreement you may have. The mark on electrical and

electronic products may only apply to the current European Union Member States.

Outside the European Union

If you wish to dispose of used electrical and electronic products outside the European Union, please contact your local authority and ask for the correct method of disposal.



For EU: The crossed-out wheeled bin implies that used batteries should not be put to the general household waste! There is a separate collection system for used batteries, to allow proper treatment and recycling in accordance with legislation.

According to EU directive 2006/66/EC and amendments, the battery can't be disposed improperly. The battery shall be separated to collect by local service.

Service & Support in Europe

Please contact:

Sharp NEC Display Solutions Europe GmbH. Landshuter Allee 12-14, D-80637 München Phone: + 49 (0) 89/99699-0 Fax: + 49 (0) 89/99699-500

For the latest information please see **https://www.sharpnecdisplays.eu** Data is subject to change without notice.

Sales Office List for Asia/Pacific

For the latest information please see https://www.sharp-nec-displays.com/ap/contact/index.html