OWNER’S MANUAL

LG LED Screen

Please read this manual carefully before install & operating your set and retain it for future reference.

GNEB083-GN

www.lg.com

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WARNING - This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.

SAFETY PRECAUTIONS

The Safety Precautions are intended to prevent unexpected danger or harm by helping the user to use the product safely and for its intended purpose.

⚠ WARNING

If you ignore the warning message, you may be seriously injured or there is a possibility of accident or death.

⚠ CAUTION

If you ignore the caution message, you may be slightly injured or the product may be damaged.

Precautions for the AC Adapter and Power

⚠ WARNING

- Use only the power cord or AC adapter provided or approved by LG Electronics, Inc. If you use another power cord, make sure that it is certified by the national standards. If the power cable is faulty in any way, please contact the manufacturer or the nearest authorized service center for a replacement.
- Operate the display only from a power source(i.e. voltage) indicated in the product specification.
  - Otherwise the product can be damaged, fire can occur or you may be electrocuted. If you are not sure what type of power supply you have, consult a certified installation company.
- Make sure the power cord connect to a properly grounded outlet.
  - If you do not you may be electrocuted or injured or the product can be damaged.
- Insert the power plug or AC adapter firmly so it cannot come loose.
  - Poor connection may cause a fire or electric shock.
- In the presence of thunder and lightning, never touch the power cord and signal cable because it can be very dangerous.
  - It can cause electric shock.
- Be careful not to step or place heavy objects (electronic appliances, clothing, etc.) on the power cord or AC adapter. Additionally, do not bend or pull out the power cord or AC adapter with excessive force.
  - Damaged power cords may cause a fire or electric shock.
- Do not connect power cord or AC adapter damaged with sharp objects to power outlet.
  - You may be electrocuted.
- Do not insert a conductor (like a metal chopstick) into one end of the power cord while the other end is connected to the input terminal on the wall. Additionally, do not touch the power cord right after unplugged.
  - You may be electrocuted.
- Do not use with a multi-outlet connected by many electrical product and heating devices. Use an exclusive multi- outlet with a grounding terminal.
  - A fire can break out due to overheating.

- If water or any foreign substance goes inside the product, disconnect the power cord immediately and contact the service center.
  - Otherwise, this may cause a fire or electric shock due to damage to the product.
- Keep the power cord or AC adapter away from any heating devices.
  - The cord coating may melt and cause fire or electric shock.
- Never disassemble, repair or modify the power cord or AC adapter.
  - This may cause a fire or electric shock.
- Please make sure the main power cutoff device is power cord and the product is installed near the wall outlet that is easily accessible.
- As long as this unit is connected to the AC wall outlet, it is not disconnected from the AC power source even if the unit is turned off.
- Power consumption will be '0' only when the power plug is unplugged.
- Use an appliance coupler as a disconnect device.
- Always ensure that the unit is properly earthed and power connections correctly made.
- This equipment must be supplied from a power system providing a PROTECTIVE EARTH connection and having a neutral connection, which can be reliably identified.
- The power outlet supplying power to the unit should be close to the unit and easily accessible.
- Always remember to close and lock the panel access doors after servicing and before resuming the power Supply.

⚠ CAUTION

FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE AND RATING OF FUSE.

⚠ CAUTION

- If the outlet, pins of the power plug, or AC adapter is covered with dust, be sure wipe and keep clean.
  - Overheating due to layers of dust may cause a fire or electric shock.
- If the outlet, pins of the power plug, or AC adapter is covered with water, be sure wipe and keep clean. Additionally, Do not touch the power plug or AC adapter with wet hands.
  - This may cause an electric shock.
- Do not turn the product on or off by plugging in or unplugging the power plug from the power outlet. It means do not use the power plug as a switch.
  - This may cause an electric shock or product malfunction.
- Do not unplug the power cord while the product is in use.
  - Electrical shock can damage the product.
- Ensure whole system power off before connect or disconnect the net cable

Precautions for Moving the Product

⚠ WARNING

- Contact the service center before moving the product.
  - It may cause electric shock and damage the product.
- Make sure the product is turned off, unplugged, and all cables have been removed before the product is moved.
  - You may be electrocuted or the product can be damaged.
- When moving the product, Do not shock the product and impact on the front panel of the product.
  - You may be electrocuted or the product can be damaged.
- Comply with the number of people according to weight of product. (Under 25 kg per person, use the equipment when exceed 100 kg)
  - If use the damaged product again, contact the service center because it can cause electric shock or fire.

⚠ CAUTION

- Do not dispose the product-packing box. It may be used put the product in the box when carrying it.

Precautions for Installing the Product

⚠ WARNING

- Contact the service center before installing the product.
  - It can cause electric shock and damage the product.
- Do not drop an object on or impact on the product.
  - It can cause injury to human, problem to product and damage the display.
- Do not put heavy objects on, or hang from, the product.
  - If the product collapses or is dropped, you may be injured.
- Do not touch the surface of product to overheat.
  - It can cause injury to human.
- Install the product firmly fixed on a floor, wall, etc. to prepare against external impact such as wind and earthquake.
  - You must refer to the manual provided.
- Prevent Children from climbing or hanging on the product.
  - If the product collapses or is dropped, you may be injured.
- Do not install it where there are heating devices such as electrical heaters or lighting equipment.
  - Fire, electrical shock, malfunction may occur.
- Do not install this product by yourself as you may injure yourself or cause damage to product. Please contact service engineer authorized by service center.
- Do not install this product on a wall if it could be exposed to oil or oil mist.
  - This may damage the product and cause it to fall.
- Do not leave the power or signal cable, etc. on the pathway.
  - This could cause a trip or fall, which can be caused electrical shock, fire, product breakdown, or injury.
- Do not let the product drop when connecting it to an external device connected with a short cable.
  - This may cause injury and damage to the product.
- If you dropped the product or the case is broken, turn off the product and unplug the power cord and contact the service center.
  - If you continue to use without taking proper measures, electrical shock or fire can occur.
- Install the product in a dry place where it is not near dust and water. Avoid high temperatures and humidity.
  - This may cause electrical shock, fire or product damage.
- Safely install the product in a place that can hold the weight of the product.
  - A lack of strength may cause the product to fall.
- Take a comfortable and natural position to relax the muscles when working with a product.
- Caution to prevent damage to the LED from static. Do not touch the product without anti-static gloves.

⚠ CAUTION

- Install the product where no Electromagnetic Interference occurs.
- If you install the product in a place that does not meet the recommended conditions, this may cause serious damage to the product's picture quality, life cycle, and appearance. Please check with service engineer before installing. Please do not install the product in places such as where there is an abundance of fine dust or oil mist, chemical substances are used, exposed to direct sunlight, the temperature is very high or low, the humidity is very high.
- Make sure the product is well ventilated by Installing at a distance (100 mm or more) from the wall.
  - If you install the product too close to the wall, it may be deformed or fire can break out due to internal heat buildup.
- Install the product on a flat and stable place that is large enough to support the product.
  - If the product is dropped, you may be injured or the product may be broken.

Precautions for Cleaning the Product

⚠ WARNING

- Keep the product clean at all times.
  - If you don't clean the unit for a long time and it becomes covered in dust, it can cause fire or product damage.
- When you need to clean the inside of the product, you must contact the service center.
  - Otherwise, cleaning without support may cause a fire, electric shock, or damage to the product.
- When cleaning the product, unplug the power cord and wipe gently with a soft cloth to prevent scratching.
  - An electric shock may occur or damage to the screen as get a scratch.
- Do not physically come in contact with the screen of the LED Package.
  - This may cause damage to the product.
- To clean the screen, use electrostatic-proof soft-brush per month to keep the LEDs clean.
  - If there are foreign substances in between the LEDs on the screen, it may cause a defect in the screen.

⚠ CAUTION

When cleaning the product or the screen, unplug the power cord and wipe it gently with electrostatic-proof soft-brush. Do not spray water or other liquids directly on the product. Especially, do not clean your product with chemicals including glass cleaner, any type of air freshener, insecticide, lubricants, wax (car, industrial), abrasive, thinner, benzene, alcohol, etc., which can damage the product or its panel.

- This may result in fire, electric shock or product damage (deformation, corrosion or breakage).

Precautions for Using the Product

⚠ WARNING

- Do not use the product in any environment with excessively high temperatures or humidity.
- If you use the product for a long period of time, take a rest from time to time to protect your vision.
  - Extended viewing could result in impaired vision.
- In the event that liquid or a foreign object falls into the product, please switch it off and unplug it from the wall outlet and contact the service center.
  - Otherwise, the product may cause fire or electric shock.
- In the event that no image appears on the screen or no sound is heard, stop using the product. Switch it off immediately, unplug it from the power outlet and contact the service center.
  - Otherwise, the product may cause fire or electric shock.
- Do not drop an object or impact on the product or screen.
  - It can cause injury to human, problem to product and damage the screen.
- If you can smell smoke or other odors or hear a strange sound, unplug the power cord and contact the service center.
  - If you continue to use the product without taking proper measures, it may cause electrical shock or fire.
- Do not attempt to disassemble, repair or modify the product yourself. Please contact service center if you need to repair it.
  - Fire or electric shock can occur.
- Do not push hard on or scratch the product's surface with your hands or sharp objects, such as nails, pencils or pens. Do not shock or scratch the front and sides of the screen with metallic objects.
  - This may damage the products and cause it to malfunction.
- Do not touch the product if it has been exposed to sunlight or an intense light because it could be hot.

- Do not use high voltage electrical goods near the product (e.g., a bug zapper).
  - This may result in product malfunction if it receives an electrical shock.
- If you dropped the product or the case is broken, turn off the product and unplug the power cord.
  - If you continue to use without taking proper measures, electrical shock or fire can occur. Contact the service center.
- Keep small accessories out of the reach of children.
  - If a child swallows it, consult a doctor immediately.
- Keep out of reach of children from the product. Also, do not throw toys or objects to the product or screen.
  - It can cause injury to human, problem to product and damage the screen.
- All the power sources must be disconnected by removing the power cables to remove all power from the unit.
- Electrostatic discharge may harm the surface of the LED units. To prevent such damage, you should discharge static electricity from your body before you contact with the LED units.
- The product must be installed in an environment out of human reach. If a person touches the product, its performance may deteriorate. If the product needs to be installed in a place where human contact with the product is likely, a separate measure to prevent people from touching it needs to be taken.
- Do not touch the product without antistatic gloves.

⚠ CAUTION

- This panel is an advanced product that contains millions of pixels. You may occasionally see pixel spots when viewing the screen. Since these deactivated pixels are not a defect, the performance and reliability of the product is not affected.
- Do not put or store inflammable substances near the product.
  - There is a danger of explosion or fire.
- Keep the proper distance from the product.
  - It can cause damage to your vision if you look at the product too closely.
- Set the appropriate resolution and frequency by products.
  - It can cause damage to your vision.
- Take a regular break when working with the product for a long time.
- Always remember to dry the panel fully before packing .
- Store in a dry and airy place .

Product Disposal

- Do not dispose of this product with general household waste.
- Disposal of this product must be carried out in accordance to the regulations of your local authority.

ASSEMBLY

General

This manual provides an overview of the GNEB083-GN LED display system, the main system components and interconnection methods. If any details in this document are unclear, please contact your local representative, or the head office for more details.

Brief Description of Purpose and Operation of System

The GNEB083-GN LED display system is designed for outdoor use, where a high quality dynamic image is to be made visible to large numbers of people. The panel size is designed from the beginning according to end-user requirements.

Main Assemblies

GNEB083-GN Panel Assembly

Each GNEB083-GN LED panel comprises an outer cladding panel with integral aluminum framework for increased rigidity and a central stacker for the fast rigging. The panel is designed to be mounted to a fixed framework.

The listing in Table 2.1 is the main components of a GNEB083-GN LED panel. The profile of the panel is shown in Figure 2.1.

Component Placement and main components

It is assembled by PSU&PCBA box and LDM.

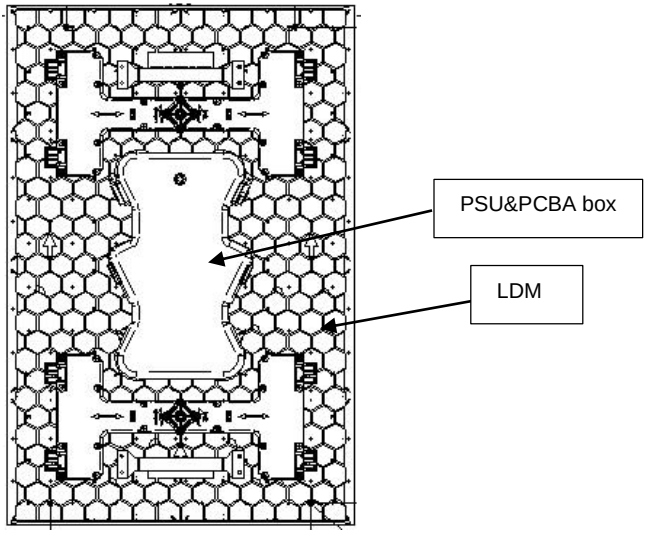


Figure 2.1 Major components placement for GNEB083-GN

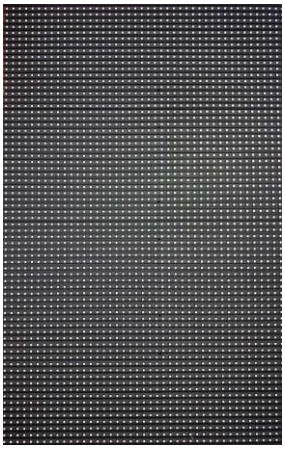
Item	Description	Qty
1	LED Display Modules (LDM)	1
2	PSU&PCBA box	1

Table 2.1 - Major components of GNEB083-GN LED panel assembly

MECHANICAL ASSEMBLY





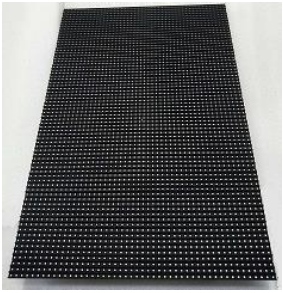


LED Display Module (LDM)

The front face of the GNEB083-GN LED display is fitted with 1 light emitting diode (LED) dot LED modules known as LDMs. Each LMD is fitted with 3456 LEDs* plus associated drive electronics. Electrical connections (low voltage power, and digital data) are made to the rear of each LDM, from inside of the enclosure.

Figures 3 and 4 are showing the front and rear views of an GNEB083-GN LDM.

* Remark: each LDM contains 48 x72 pixels (row x column), so there are totally 3456 LEDs fitted on the front face of an LDM.



Figures 3. LDM - front view



Figures 4. LDM - rear view

Installation Guidelines

The GNEB083-GN system is designed to be permanently installed into a purpose built framework，When installing panels, it is important to adopt a methodical to ensure that the entire screen is correctly aligned, both vertically and horizontally.

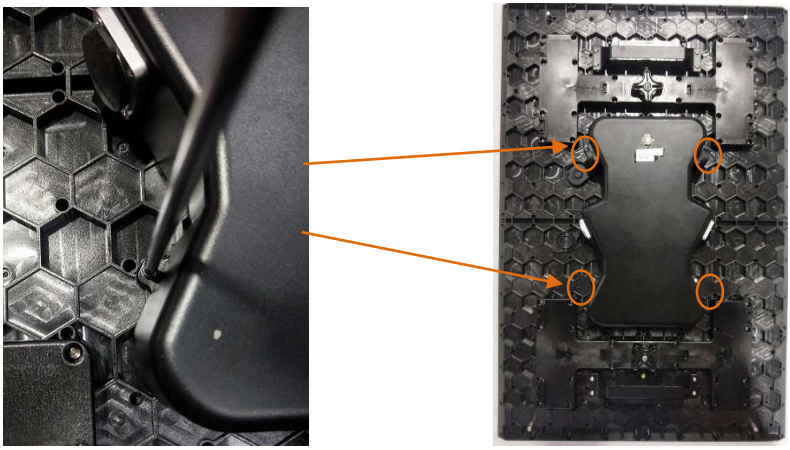
We recommend that a framework-mounted screen be installed starting from the bottom row, then moving up to the top row. A suspended screen should be installed starting from the top row, then moving down to the bottom row.

Note: It is the customer's responsibility to ensure that any framework or suspended support design used in a particular installation is fit for purpose and carries any necessary approvals.

1) How to Maintain Panel Components Rear Access

LDM Maintenance

Step1. Loose 4 screws which fix PSU&PCBA box to cabinet with a Phillips screwdriver.



Step2. Gently pull out the PSU&PCBA box upward and pay more attention to avoid breaking LED.

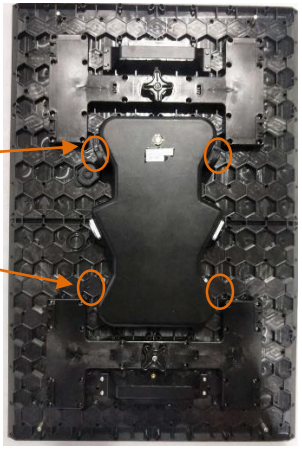


Step3. Do the reverse to mounting the new LDM.

PSU&PCBA box Maintenance

Step1. Loose 4 screws which fix PSU&PCBA box to cabinet with a Phillips screwdriver.





Step2. Gently pull out the PSU&PCBA box upward



Step3. Do the reverse to mounting the new PSU&PCBA box

Electrical

The power distribution system used must provide adequate protection against excess line current and leakage currents to earth.

Electrical Characteristics for ONE GNEB083-GN							
At 100V AC Input				At 240V AC Input			
Parameter	Unit	Rating		Parameter	Unit	Rating	
		Normal	Max			Normal	Max
Input current	A	**0.70**	**1.67**	Input current	A	**0.278**	**0.70**
Input freq.	Hz	**50 - 60**	**65**	Input freq.	Hz	**50 - 60**	**65**
Power	W	**70**	**167**	Power	W	**66.8**	**167**

Circuit Protection

Each section of the screen should be protected by a Circuit Breaker to protect against high fault currents, and a Residual Current Device (RCD) to detect earth leakage currents.

Earth Leakage Considerations

Each panel of the system has earth leakage current contributions from one switched-mode power supplies The total earth leakage current per panel can be up to 1mA at 240)V. If a 30mA RCD is used, then the maximum number of panels per section should be safely limited to 30

Inrush-current and Over-current Considerations

The inrush current of the switched mode power supplies used to provide LED and logic power to each panel is specified by the manufacturer as equal or less than 60A at 100-240 volts for duration of 60μs when cold start. However, maximum current in the steady-state for a panel is considerably less: 0.7A at 240 volts and 1.67A at 100 volts. The circuit breaker used to control a section of the screen must be able to handle the short-term inrush current at switch-on, without causing unnecessary disconnection of the supply, and be able to detect excess currents due to faults within the equipment, during normal operation.

Earthing

Each panel is separately connected to the AC power distribution system's earth through the appliance coupler. All exposed panel metalwork (main frame) is also connected to this earth. If the framework is earthed only through each panel (i.e. through the panel's mounting bolts), there is a possibility of electrical damage if a wiring fault occurs, or if an electrical discharge, such as lightning strike, hits the panels. Under these circumstances, the current discharge path will be through the panel to earth rather than through the framework to earth. When permanently installed on a metal framework, the framework itself should be directly connected to earth also.

CE-EMC Statement

This product has been certificated by CE. Installations should be located at least 30 meters from other sensitive systems or installations and if situated in close proximity to a roadway it may create interference to vehicle radio communications.

FCC Statement

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.

*Note: Modifications not authorized by the manufacturer may void users' authority to operate this device.

Power Cable Wiring

AC Power

An approved three-pole appliance coupler inside the panel connects to the AC supply. The AC power cable is then connected to the EMI filter and distributes to the power supply units. Each panel has an earth point for grounding.

Colour of Wire	A.C. Supply connection (for 100V)	A.C. Supply connection (for 240V)
Brown	AC. Live	AC. Live
Blue	AC. Neutral	AC. Neutral
Green/Yellow	AC. Protective earth	AC. Protective earth

TROUBLESHOOTING

LDM problems

- When you find the panel is malfunctioning, you can replace it with the following procedure

1. Power off the panel and unplug the power cable;
2. Locate the problem LDM;
3. Dismount the problem LDM from the panel; (Refer to page 17 and 18)
4. Mount the LDM back to the same position as the problem one;
5. Make sure the LDM is firmly mounted;
6. Power on the panel;
7. Please make sure the replaced LDM is functioning well.

PSU&PCBA box problems

1. Power off the panel and unplug the power cable
2. Loose the screws, then take the PSU&PCBA box down;
3. Fix a new PSU&PCBA box with the same type, please make sure the data in the voltage label is the Same as the old one;
4. Power on the panel and plug the power cable
5. Manage data to the new receiver board. For the operation procedure, check the LG LED Assistant guide.

LDM Basis

PHENOMENON	POSSIBLE CAUSE	SOLUTION
LDM does not function correctly (e.g. Interference, noise, flashing color problem)	*Data Cables to LDM loose, not plugged in, or damaged*	*Check cables and make sure the connection*
	Power Cable to LDM loose, not plugged in, or damaged	*Check cables or replace LDM and make sure the connection*
	LDM PCBA damaged	*Replace LDM (see Appendix A) and return complete assembly for repair or replacement.*
	Core Board malfunction or damaged	*Update the software* *Redo dot pixel setting*
LDM Color Problem	*LDM color not compensated, driver IC or EPROM on LDM damaged*	*Replace a new LDM (see Appendix A)*
	Core Board malfunction or damaged	*Update the software* *Replace a new LDM*

Panel Basis

PHENOMENON	POSSIBLE CAUSE	SOLUTION
No picture	*Power not turned on for some of the equipment or the panel itself*	*Check all AC power connections*
	Data cables loose / not plugged in or incorrectly plugged in	*Check all the data cables*
	Input/output settings not correct on system	*Check all settings*
	Core Board failure	*Press Receiver Board reset button* *Redo dot pixel setting* *Replace a new LDM (see Appendix A)*
	Equipment failure	*Check connections of the equipment* *Use the equipment self-test function to check it and replace the failure equipment if necessary*

	Data source failure	*Check the source*
	A faulty power supply unit	*Reset the panel* *Check the TTL (logic) power supply unit that supplies the IMs. Replace the power supply, if necessary*
Picture problem	*Gamma not set correctly*	*Check the system Box* *Check the setting on system Box* *Check the picture source*
	Color Brightness not set correctly	*Check the LDM* *Check the brightness setting on system Box*
	Picture has a shadow (duplicate image)	*Check all the data cables* *Check the data cable connection* *Check the picture source*
	Picture appear all white (lack of any colour information)	*Check the LDMs* *Redo IM Download* *Check RJ45 data cable connection*
	One color is out	- *Reset the panel* - *Check the LED (RED / GREEN / BLUE) power supply unit that supplies the LDMs. Replace the power supply, if necessary.*
	Picture is out of order	*Redo dot pixel setting* *Check RJ45 data cable connection*

PRODUCT SPECIFICATIONS

The product specifications below may be changed without prior notice due to upgrade of product functions.

Model Name		GNEB083-GN
Application Type		Outdoor
Pitch Name		P8.33
Physical Parameters	Pixel Configuration	3 in 1
	Pixel Pitch(mm)	8.33
	Module Resolution (WxH)	48x72
	Module Dimensions(WxH,mm)	400x600
	Weight per Module (kg)	5
	No. of Modules per Cabinet (WxH)	1x1
	Cabinet Resolution (WxH)	48x72
	Cabinet Dimensions (W x H x D, mm)	400x600x72
	Cabinet Surface Area (㎡)	0.24
	Weight per Cabinet (kg/unit)	5
	Weight per Square Meter (kg/㎡)	20.8
	Physical Pixel Density (pixels/㎡)	14400
	Flatness of Cabinet (mm)	±1.0
	Cabinet material	PC+ Aluminum
	Service access	FRONT&REAR ACCESS
Optical Specifications	Max Brightness (After Calibration, nit)	6000
	Color Temperature (K)	6500
	Visual Viewing Angle (Horizontal)	160(-80/+80)
	Visual Viewing Angle (Vertical)	100(-55/+45)
	Viewing Angle-Horizontal (50% brightness)	140(+70/-70)
	Viewing Angle-Vertical (50% brightness)	90(+40/-50)
	Brightness Uniformity	97%
	Color Uniformity	±0.05Cx / ±0.05Cy
	Contrast Ratio	7000:1
	Processing Depth (bit)	16
Electrical Specifications	Power Consumption (W/Cabinet, Max.)	167
	Power Consumption (W/Cabinet, Avg.)	67
	Power Consumption (W/㎡, Max.)	696
	Heat Dissipation (BTU/h/Cabinet, Max.)	570
	Heat Dissipation (BTU/h/Cabinet, Avg.)	229
	Heat Dissipation (BTU/h/㎡, Max.)	2374
	Power Supply (V)	100 to 240
	Frame Rate (Hz)	50 / 60
	Refresh Rate (Hz)	≥7680
Operation Specifications	LED Lifetime (Half brightness)	≥100000
	Operating Temperature(℃)	-30 to +50
	Storage Temperature (℃)	-40 to +60

	Operating Humidity	90%RH
	IP rating Front	IP67
	IP rating Rear	IP67
Certification		CE,FCC,ETL
Environment		ROHS2.0,REACH
Controller		CVEA

LICENSES

Supported licenses may differ by model. For more information of the licenses, visit www.lg.com.



EMTEK
Access to the World

Certificate of Conformity

NO.: EN52205230184E00301C

The following product has been tested by us with the listed standards and found in conformity with the council EMC directive 2014/30/EU. This is to certify that the specimen is in conformity with the assessment requirement mentioned follow. This certificate does not imply assessment to the production of the product.

Applicant	:	LG Electronics Inc.
Address	:	128, Yeoui-daero, Yeongdeungpo-gu, Seoul, Republic of Korea
Manufacturer	:	LG Electronics Inc.
Address	:	128, Yeoui-daero, Yeongdeungpo-gu, Seoul, Republic of Korea
Trade Mark	:	LG
EUT	:	LED Video Display
M/N	:	GNEB083-GN
Test Standards	:	EN 55032:2015+A1:2020 EN IEC 61000-3-2:2019+A1:2021 EN 61000-3-3:2013+A2:2021 EN 55035:2017+A11:2020
Version	:	Ver.1.0

EMTEK (SHENZHEN) CO., LTD. CERTIFICATE

(Manager)

June 7, 2022

The certificate is based on a single evaluation of one sample of above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab. logo.

EMTEK (Shenzhen) Co., Ltd.

Add: Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China · http://www.emtek.com.cn · E-mail: cs.rep@emtek.com.cn

EMTEK
Access to the World

Certificate of Conformity

NO.: ENS2205230184S00201C

The following product has been tested by us with the listed standards and found in conformity with the council LVD directive 2014/35/EU. This is to certify that the specimen is in conformity with the assessment requirement mentioned follow. This certificate does not imply assessment to the production of the product.

Applicant	:	LG Electronics
Address	:	LG Twin Towers, 128, Yeoui-daero Yeongdeungpo-gu, Seoul 150-721, Korea
Manufacturer	:	LG Electronics
Address	:	LG Twin Towers, 128, Yeoui-daero Yeongdeungpo-gu, Seoul 150-721, Korea
Trade Mark	:	LG
EUT	:	LED Video Display
M/N	:	GNEB083-GN
Technical Data	:	Input: 100-240V~, 50/60Hz, 1.67-0.70A
Test Standards	:	EN 62368-1:2014+A11:2017
Version	:	Ver.1.0

CE

EMTEK (SHENZHEN) CO., LTD. CERTIFICATE

William Guo

(Manager)
June 28, 2022

The certificate is based on a single evaluation of one sample of above-mentioned products, It does not imply an assessment of the whole production and does not permit the use of the test lab. logo .

EMTEK (Shenzhen) Co., Ltd.
Add: Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China Http://www.emtek.com.cn E-mail: sze.cs@emtek.com.cn

EMTEK
Access to the World

Certificate of Conformity

NO.: ENS2205230184E00401C

The device bearing the trade name and model specified following has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified. (Refer to test report if any modifications were made for compliance).

Applicant	:	LG Electronics Inc.
Address	:	128, Yeoui-daero, Yeongdeungpo-gu, Seoul, Republic of Korea
Manufacturer	:	LG Electronics Inc.
Address	:	128, Yeoui-daero, Yeongdeungpo-gu, Seoul, Republic of Korea
Trade Mark	:	LG
EUT	:	LED Video Display
M/N	:	GNEB083-GN
Test Standards	:	FCC CFR Title 47, Part 15, Subpart B-Section 15.107 and 15.109 ANSI C63.4-2014 ICES (Interference-Causing Equipment Standards)-003: Issue 7
Version	:	Ver.1.0

EMTEK (SHENZHEN) CO., LTD. CERTIFICATE

(Manager)
June 7, 2022

The certificate is based on a single evaluation of one sample of above-mentioned products, It does not imply an assessment of the whole production and does not permit the use of the test lab. logo.

EMTEK (Shenzhen) Co., Ltd.
Add: Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China Http://www.emtek.com.cn E-mail: cs.rep@emtek.com.cn

3.0 Correlation Page For Multiple Listings	
The following products, which are identical to those identified in this report except for model number and Listee name, are authorized to bear the ETL label under provisions of the Intertek Multiple Listing Program.	
BASIC LISTEE	Lighthouse Technologies Limited
Address	Flat / Rm 608 6/F, Photonics Ctr, 2 Science Park East Avenue, Hong Kong Science Park, SHATIN, N.T. Hong Kong SAR
Country	China
Product	LED Video Display

MULTIPLE LISTEE 1	LG Electronics Inc.
Address	128, Yeoui-daero, Yeongdeungpo-gu, Seoul
Country	Republic of Korea
Brand Name	LG
ASSOCIATED MANUFACTURER	Lighthouse Technologies (Huizhou) Limited
Address	No. 9 Yuanhui Road, Chenjiang,Zhongkai Hi-tech Industrial Development ZoneHUIZHOU Guangdong Province
Country	CHINA

MULTIPLE LISTEE 1 MODELS	BASIC LISTEE MODELS
GNEB083-GN	CUS8

MULTIPLE LISTEE 2	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	

MULTIPLE LISTEE 2 MODELS	BASIC LISTEE MODELS

MULTIPLE LISTEE 3	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	

MULTIPLE LISTEE 3 MODELS	BASIC LISTEE MODELS



The model and serial number of the product are located on the back and on one side of the product. Record them below in case you ever need service.

MODEL

SERIAL NO.

Temporary noise is normal when powering ON or OFF this device.