

OWNFR'S MANUAL

LG Digital Signage

(POWER SUPPLY UNIT)

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

LPLG001-FV

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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.

IMPORTANT PRECAUTIONS

Please read these safety precautions carefully before using the product.



WARNING

· Failure to follow those warnings may result in death, serious injury or damage to the product or other property.



! CAUTION

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



WARNING

· Indoor Use Only.

Electrical Power Related Precautions



- Use only the power cord supplied with the unit or another manufacturer's authorized cord.
 - Failure to do so may result in fire or electrical shock or damage to the product.
- · Use only a properly grounded plug and receptacle.
 - If you do not you may be electrocuted or injured. Or the product might be damaged.
- · Do not use a damaged or loose plug.
 - This may cause electrical shock or fire.
- · 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 electrician.
- · 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.
- Do not connect several extension cords, electrical appliances or electrical heaters to a single outlet. Use a power strip with a grounding terminal designed for exclusive use with the computer.
 - A fire can break out due to overheating.
- · Do not touch the power plug with wet hands. Additionally, if the cord pin is wet or covered with dust, dry the power plug completely or wipe dust off before plugging in the cord.
 - You may be electrocuted due to excess moisture.

- If you don't intend to use the product for a long time, unplug the power cable from the product.
 - Layers of dust can cause a fire, or insulation deterioration can cause electric leakage, electric shock or fire.
- · Insert the power plug firm so it cannot come loose.
 - A loose connection can cause fire.
- Hold the plug when pulling out the power cable. Do not pull the plug out by the wire. Do not bend the power cord with excessive force or put heavy objects on the power cord.
 - The power line can be damaged, which may cause electric shock or fire.
- Do not insert metal or other conductive materials into the product openings. Additionally, do not touch the power cable right after plugging into the wall input terminal.
 - You may be electrocuted.
- · Use an appliance coupler as a disconnect device.
- Please make sure the device is installed near the wall outlet to which it is connected and that the outlet is easily
 accessible.
- · Do not unplug the power cord while the product is in use.
 - Electrical shock can damage the product.
- 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.

Precautions for installing the Product

- · Keep away from heat sources like heaters or open flames.
 - Electrical shock, fire, malfunction or deformation may occur.
- · Keep the packing anti-moisture material or vinyl packing out of the reach of children.
 - Anti-moisture material is harmful if swallowed. If swallowed by mistake, force the patient to vomit and visit the nearest hospital. Additionally, vinyl packing can cause suffocation. Keep it out of the reach of children.
- · Do not put heavy objects on the product or sit upon it.
 - If the product collapses or is dropped, you may be injured. Prevent Children from climbing or pulling on the unit.
- · Do not leave the power or signal cable where someone can trip over it.
 - Pedestrians may become entangled in the cables and cause the device to become damaged causing electrical shock, fire, or serious injury.
- · Install the product in a neat and dry place. Do not use near water.
 - Dust or moisture can cause electrical shock, fire or product damage.
- · Do not add accessories that have not been designed for this display.
- If you smell smoke or other odors or hear a strange sound from the product unplug the power cord and contact LG Customer Service.
 - If you continue to use without taking proper measures, electrical shock or fire can occur.
- 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 LG Customer Service.
- Do not drop an object on or apply impact to the product. Do not throw any toys or objects at the product.
 - It can cause injury to humans, problems to the product and damage the display.
- · Keep out of reach of children and do not place toys near the product.
- Make sure the product ventilation hole is not blocked. Install the product more than 100 mm (3.9 inches) 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 build-up.
- Do not cover the product with cloth or other material (eq. plastic) while plugged in.
 - The product can be deformed or fire can break out due to internal overheating.
- Place the product on a flat and stable surface that is large enough to support the product.
 - If the product is dropped, you may be injured or the product may be broken.
- Install the product where no Electromagnetic Interference occurs.
- · Keep the product away from direct sunlight.
 - The product can be damaged.
- · Do not place the product on the floor.
 - Small Children and others may trip over it.
- · 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.

- · For displays with glossy bezels the user should consider the placement of the display as the bezel may cause unwanted reflections from surrounding light and bright surfaces.
- · 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 installation guide.
- · 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.
- · When installing the product on a shelf or cabinet, make sure that the bottom end of the product is not protruding
 - The product may fall due to unbalanced center of gravity, which may cause personal injury or damage to the product. Be sure to use cabinets or shelves that fit your product.

Precautions for Moving the Product



- · Make sure to turn off the product.
 - You may be electrocuted or the product can be damaged.
- · Make sure to remove all cables before moving the product.
- You may be electrocuted or the product can be damaged.
- When lifting or moving the product, do not hold it upside down while holding only the stand.
 - This may cause the product to fall resulting in damage or injury.
- · Do not shock the product when moving it.
- You may be electrocuted or the product can be damaged.
- When transporting the product, there should be at least 2 people.
 - This may cause the product to fall resulting in damage or injury.
- Make sure the panel faces forward and hold it with both hands to move.
 - If you drop the product, the damaged product can cause electric shock or fire.
- · Do not place the product face down.
- · Do not dispose the product-packing box. Use it when you move.

Precautions for Using / Cleaning the Product

- · All the power sources must be disconnected by removing the power cables to remove all power from the unit.
- Do not attempt to disassemble, repair or modify the product yourself.
 - Fire or electric shock can occur.
 - Contact LG Customer Service for repair.
- · Keep the product away from water.
 - Fire or electric shock accident can occur.
- · Avoid high temperatures and humidity.
- · Do not put or store flammable substances near the product.
 - There is a danger of explosion or fire.
- · Keep the product clean at all times.
- Take a comfortable and natural position when working with the product.
- Take a regular break when working with the product for a long time.
- · Do not press on the panel with a hand or sharp object such as nail, pencil or pen, or make a scratch on it.
- · Keep proper distance from the product and rest from time-to-time.
 - Your vision may be impaired if you look at the product too closely or for too long.
- · Set the appropriate resolution by referring to the User's Guide.
- · Keep small accessories out of the reach of children.
- · Displaying a still image for long time on the monitor may leave persistent image or stain on the monitor screen. To avoid this problem, use a screen saver and power off when this product is not used. Persistent image or stain caused by long time usage are not covered by the warranty on this product.
- Do not use high voltage electrical goods near the product(e.g. electric swatter).
 - This may result in product malfunction.
- Ensure the power cord does not come into contact with hot objects such as a heater.
 - Fire or electric shock can occur.
- · Do not touch the surface to overheat.
- · Never touch the wall outlet when there is leakage of gas, open the windows and ventilate.
 - It may cause a fire or a burn by a spark.
- · When cleaning the product, unplug the power cord and scrub gently with a soft cloth to prevent scratching. Do not clean with a wet cloth or spray water or other liquids directly onto the product. An electric shock may occur. (Do not use chemicals such as benzene, paint thinners or alcohol.)

Product Disposal (Only, Hg lamp used LCD Monitor)

- The fluorescent lamp used in this product contains a small amount of mercury.
- 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.

ASSEMBLING AND PREPARING

! CAUTION

- · Always use genuine components to ensure safety and durability of the product.
- The product warranty will not cover damage or injury caused by the use of unauthorized components.
- · Replacing the batteries with the wrong type may result in explosion.
- Batteries that have reached end-of-life should be disposed in an appropriate manner.

NOTE

- · The accessories provided with your product may vary depending on the model.
- Product specifications or content in this user manual may be changed without prior notice due to the upgrade of product functions.
- · The warranty will not cover any damage caused by using the product in an excessively dusty environment.

Optional Accessories

Without prior notice, optional accessories are subject to change to improve the performance of the product, and new accessories may be added.

The images in this user manual may differ from the actual product and optional accessories.



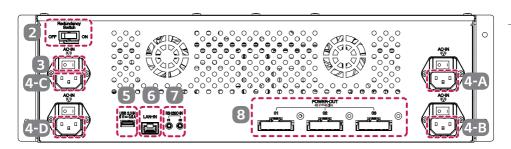
ACC-LAPPC06 (6 m (19.6 ft) Cable) ACC-LAPPC60 (60 m (196.8 ft) Cable)

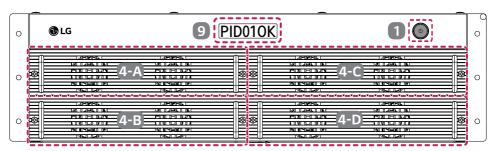


• Optional accessories are only available for some models. If necessary, please purchase them separately.

Terminal Buttons and Status Display

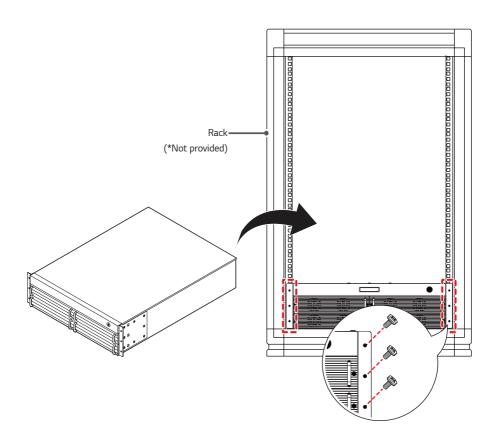
The illustrations may differ depending on the model.





No.	Explanation
1	Turns the power of the set on and off. (Off: red, On: white)
2	Turns Redundancy on and off.
3	Turns the power on or off of the relevant power board.
4	Supplies the AC power.
5	Updates the SVC firmware.
6	Enables the user to control the LPLG001-FV via the connection with the LAN hub.
7	Checks when a problem occurs in the operation of a set for SVC.
8	Power output terminal.
9	An LCD screen to display the status of the set.

Rack Installation (Optional)

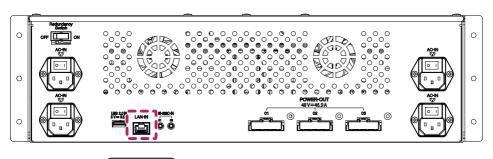


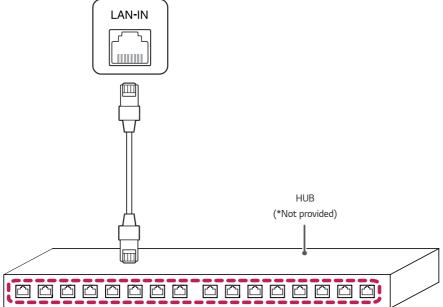


• Use the bolts included in the rack to fasten the product.

Connecting LPLG001-FV to LAN Hub

The user can turn the power of the LPLG001-FV model on and off via the LAN connection. Via the LAN connection, the user can monitor the operational status of the connected LPLG001-FV sets.





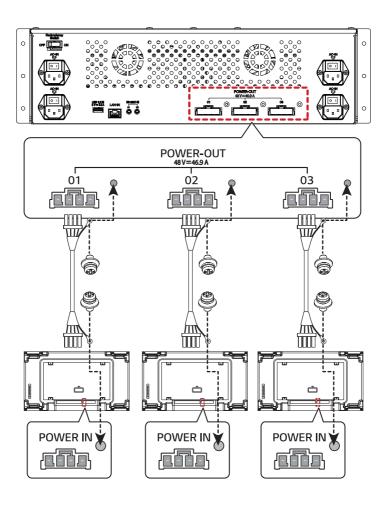


- · Check the direction so that the LAN cable is not damaged.
- Inserting the LAN cable with excessive force may damage the contact point.
- Check if the LAN cable is properly connected.

Power Supply to LPLG001-FV

The primary function of LPLG001-FV is to supply power to the set.

There are three power output terminals (POWER-OUT terminal), through which power is supplied.



Power Redundancy Feature

The user can turn the Redundancy feature of the LPLG001-FV model on or off via the switch on the rear side.

Redundancy Feature ON

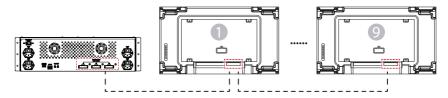
- If one of the four power boards fails, the set will not be turned off, and the power will continue to be supplied.
- If two or more of the four power boards fail, the set will be turned off and the power will not be supplied.
- It supports the hot swap of the power board.

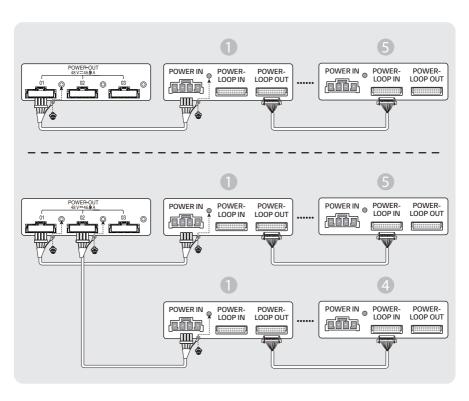
Redundancy Feature OFF

- If one or more of the four power boards fail, the set will be turned off and the power will not be supplied.
- It does not support the hot swap of the power board. (If one or more of the power boards are removed from the slot, the set will not normally work.)

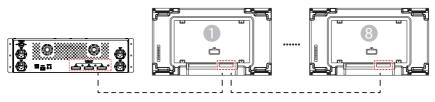
The number of displays available for power connections is based on the external cable length

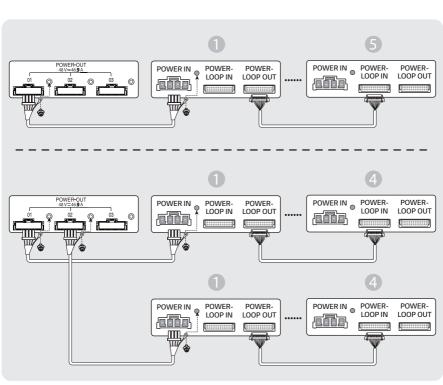
- 1 For Using a 6 m (19.6 ft) Cable
 - If you are using one power output terminal (POWER-OUT), you can connect up to 4 units of power in a daisy chain, and up to 5 connection sets can be connected.
 - If you are using two power output terminals (POWER-OUT), you can connect up to 4 units of power in a daisy chain for 01 Port, and up to 5 connection sets can be connected. You can connect up to 3 units of power in a daisy chain for 02 Port, and up to 4 connection sets can be connected. If you are using two power output terminals (POWER-OUT), up to 9 connection sets can be connected.
 - The total number of displays per power output terminal is recommended as follows.





- 2 For Using a 60 m (196.8 ft) Cable
 - If you are using one power output terminal (POWER-OUT), you can connect up to 4 units of power in a daisy chain, and up to 5 connection sets can be connected.
 - If you are using two power output terminals (POWER-OUT), you can connect up to 3 units of power in a daisy
 chain for 01 Port, and up to 4 connection sets can be connected. You can connect up to 3 units of power in a daisy
 chain for 02 Port, and up to 4 connection sets can be connected. If you are using two power output terminals(
 POWER-OUT), up to 8 connection sets can be connected.
 - The total number of displays per power output terminal is recommended as follows.







! CAUTION

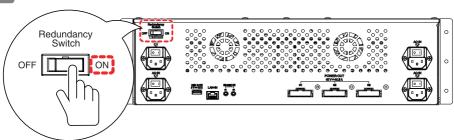
- Check the direction so that the cable is not damaged.
- When connecting the power output terminal (POWER-OUT) of LPLG001-FV Power Box to the power input terminal (POWER IN) of the 55SVH7PF product, be sure to use the 4-pin power cable provided with your product.
- Use the 24-pin cable provided for power supply when connecting POWER-LOOP IN / OUT Daisy Chain between 55SVH7PF sets.

Hot Swap Feature and Sequence

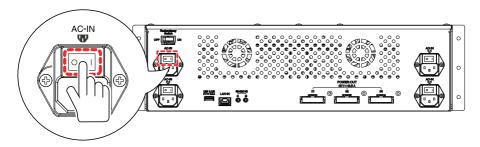
Power boards that require repair can be replaced one by one even when the set is not turned off (power is being supplied to the set).

The set will not be turned off while the power board is being replaced.

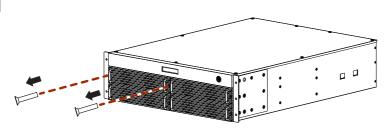




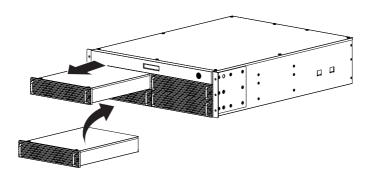
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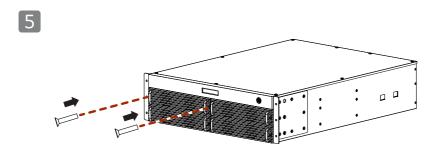






4





! CAUTION

• Always replace them in the same sequence as described in the figure.

TROUBLESHOOTING

There is no power output.

Problem	Solution
Is the power cord connected to the product?	Check if all four power cords are properly plugged into the power outlet.
Is the power cord terminal switched off?	Check if all switches of the power cord terminal are on.
Are you using the product properly depending on whether the Redundancy switch is ON or OFF?	When the Redundancy switch is ON Check if more than three of the four power cords are correctly plugged into the power outlet. When the Redundancy switch is OFF Check if all four power cords are properly plugged into the power outlet.

The NG message will appear on the LCD screen.

Problem	Solution
Does the message including the statement "NG" appear on the LCD screen?	Repair is required. Contact the service center.

PRODUCT SPECIFICATIONS

Without prior notice, all product information and specifications contained in this manual are subject to change to improve the performance of the product.

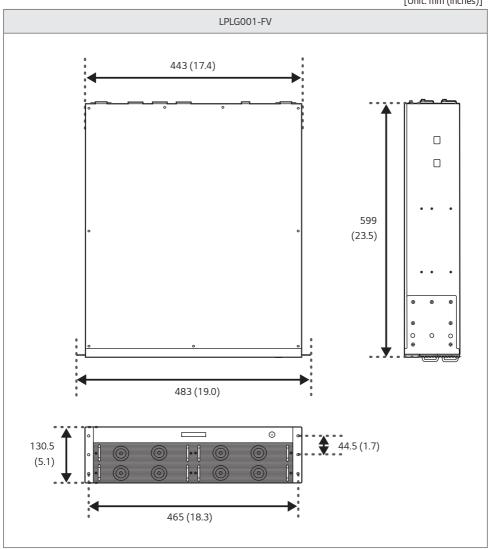
If you want to use the product with less noise, please contact the service center.

Input/Outpu	ut Ports	LAN-IN, RS-232C-IN 1/2, POWER-OUT 1/2/3, USB 2.0 IN, AC-IN
Dower	Rated Voltage	AC 100-240 V ~ 50/60 Hz 9.2 A / 9.2 A / 9.2 A / 9.2 A
Power	Power Consumption	2700 W (Typ.)
Embedded	Battery	Applied
	Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
Environmental Conditions	Operating Humidity	10 % to 80 %
Environmental Conditions	Storage Temperature	-20 °C to 60 °C (-4 °F to 140 °F)
	Storage Humidity	5 % to 85 %
Dimensions (Width x Dep	th v Haight\ / \Maight	443 mm x 599 mm x 130.5 mm / 26 kg
Differisions (width x Dep		(17.4 inches x 23.5 inches x 5.1 inches/ 57.3 lbs)
Noise	9	55 dB or lower

Output Power (Max.)

- Redundancy ON / OFF: 2250 W

[Unit: mm (inches)]





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.

Supplier's Declaration of Conformity

Trade Name LG

Responsible Party LG Electronics USA, Inc.

Address 1000 Sylvan Ave Englewood

Cliffs, NJ 07632

Telephone (201)266-2215

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

MODEL

SERIAL NO.