



OWNER'S MANUAL

PORTABLE AIR PURIFIER

Read this owner's manual thoroughly before operating the appliance and keep it handy for reference at all times.

AP151MWA1 AP151MBA1



MFL71380808  
Rev.04\_051923

www.lg.com  
Copyright © 2019 - 2023 LG Electronics Inc. All Rights Reserved.

SAFETY INSTRUCTIONS

READ AND SAVE THESE INSTRUCTIONS

This guide contains many important safety messages. Always read and follow all safety messages.

All safety messages will be preceded by the safety alert symbol and the hazard signal word WARNING or CAUTION.

WARNING

This indicates that failure to follow the instructions can cause serious injury or death.

CAUTION

This indicates that failure to follow the instructions can cause injury or product damage.

IMPORTANT SAFETY INSTRUCTIONS

WARNING

To reduce the risk of explosion, fire, death, electric shock, injury or scalding to persons when using this product, follow basic precautions, including the following:

Children in the Household

- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

Installation

- Do not install the appliance:
  - Where combustible gas may leak
  - Where industrial oil or metallic particulates are present
  - Near a vehicle window, electric pad or stove
  - Inside a blanket
  - In very hot or humid areas such as dry saunas or swimming pools
  - Where moisture from a humidifier can come into direct contact with the appliance.

Operation

- Do not use the product outdoors when severe thunder and lightning are present, and disconnect the power cable and the charger from the product.
- Do not attempt to operate the product while driving, walking or moving.
- Do not use or charge the product when it is wet.
- Protect the charging terminal from foreign substances.
- Only an authorized repair person from an LG Electronics service center should disassemble, repair, or modify the appliance.
- If the appliance is immersed in water, stop using it and contact the LG Electronics service center.
- Do not use or store flammable or combustible materials near the product.
- If you detect any abnormal noise, odor or smoke, unplug the product immediately and contact an LG Electronics service center.
- Do not allow the charging cable to be pressed, bent forcibly by a heavy object or damaged by a pet.
- Do not insert hands, metal objects or flammable objects into the air inlet/outlet or the inlet of the particulate sensor.
- Do not place anything(coffee, flower vase or drinks etc.) on top of the appliance.
- Do not install and use broken parts.
- Do not put foreign substances into the product when the product cover is open.
- If you do not plan to use the product for a long period of time, remove the charging cable from the product.
- Do not sit on the product, or topple it.
- Do not use the product for any purpose other than as an air purifier.
- Protect the product from foreign substances such as water, coffee and other liquids.

Battery

- The product runs on a built-in battery. Do not remove or replace the battery by yourself. The battery should only be replaced by service personnel authorised by LG Electronics.
- Use the battery and the charging accessories approved by LG Electronics only.
- A battery operated fan with integral batteries or a separate/detachable battery pack must be recharged only with the specified charger for the battery. A charger that may be suitable for one type of battery may create a risk of fire when used with another battery.

Disposal

- Dispose of the packing materials (vinyl, styrofoam etc.) to keep them out of reach of children.
- Do not incinerate this fan, even if it is severely damaged. The batteries can explode if heated. Dispose of the fan in accordance with the following instructions: Because the rechargeable battery is built into this product, the entire device should be recycled in compliance with rechargeable battery recycling standards. To dispose of properly, call 1.877.723.1297 or visit www.call2recycle.org. (For USA) Call 1.888.224.9764 or visit www.call2recycle.ca. (For Canada)

CAUTION

Installation

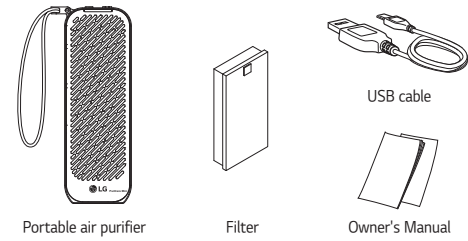
- If the product is installed on a surface that is uneven or vibrates, the product may be noisy or vibrate.
- Do not install the product on an uneven or inclined surface.
- When using in a car, insert the product securely into a cup holder that matches the product size.
- Do not expose the product to very high or low temperatures for an extended time.
- Do not place the appliance near a TV, stereo equipment or an electronic device in the vehicle.

Operation

- Do not clean with strong detergents or solvents. Use a soft cloth.
- Watch for pinch points when detaching and reattaching parts of the appliance.
- Do not install the appliance near curtains which could block the air inlet or outlet.
- Do not drop or allow impacts to the appliance.
- Do not apply excessive force to the product button to press it.
- Do not place the appliance under bright light.
- If the product has not been used for a long time, fully charge the battery before using.
- If you bring the product in for service, bring the charger for the product as well.

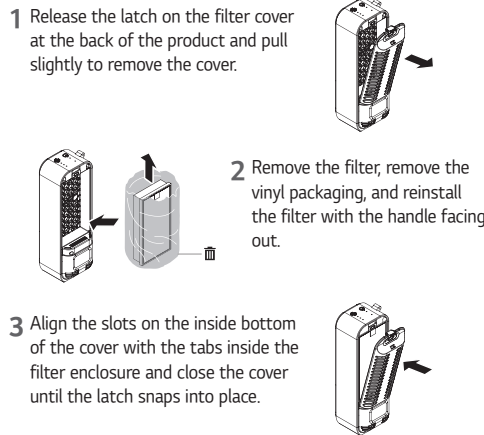
UNPACKING

Parts



- The appearance or parts of the product may vary depending on the model.

Installing the Filter

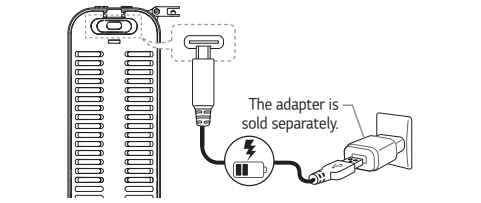


CAUTION

- To avoid product malfunction, the vinyl packaging around the filter must be removed before use.
- The filter must be installed with the handle at the top and facing out to avoid product malfunction.

Charging the Battery

This product has a built-in battery. Connect the AC adapter and charge the battery fully before using the product.



1. Connect the USB cable to an AC adapter (not provided).
2. Connect the USB cable to the DC IN 5 V port of this product.
3. Connect the power plug to the power outlet.

CAUTION

- Use an AC adapter that is rated for use with this appliance (5V, 1.8 A).
- When connecting to a vehicle USB port or a PC USB port, the current may be lower than the outlet, which may slow down the charge rate or cause product failure.
- For safety, the battery may stop charging if the temperature of the battery is excessively high or low.

NOTE

- The charging time is approximately 4 hours.
- The operating time is 2 hours in high (H) mode and 8 hours in low (L) mode when the battery is fully charged.
- The charging and operating time of the product may vary depending on the operating status of the battery or the product.
- The battery run time will gradually decrease with use, and the battery will eventually need to be replaced.
- If the battery run time drops below half of the run time when new, bring the product and charger in for service. (A fee is charged for battery replacement once the warranty period is expired.)
- The battery is not fully charged when shipped from the factory. Fully charge the battery before using the product for the first time.

Checking the Battery Charging Status

During charging, the battery charge LED indicates whether charging is complete.

Color / Status of power indicator	Charging status
Green / On	Charging completed
Red / On	Charging in progress

Checking the Charge Level

If the remaining battery level is below 15%, the power indicator lamp will blink.

Color / Status of power indicator	Remaining battery level
Green / On	More than 70 %
Orange / On	15 % ~ 70 %
Red / Blink	Below 15 %

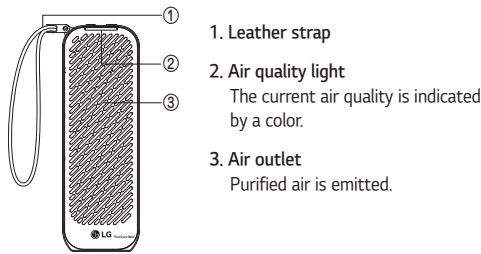
NOTE

- The remaining battery capacity cannot be checked during charging.
- If the air purifier is connected to a mobile device, you can check the battery status through the Puricare Mini app. The battery level in the app may differ from the actual remaining battery level.

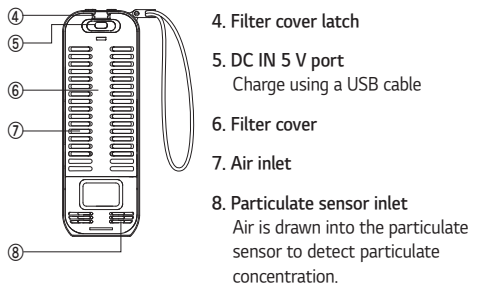
OPERATION

Appliance Overview

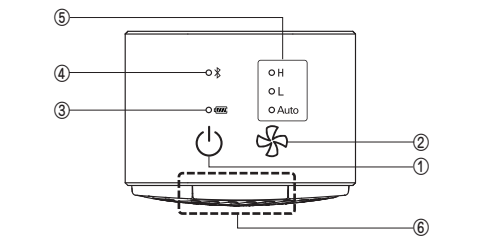
Front View



Rear View



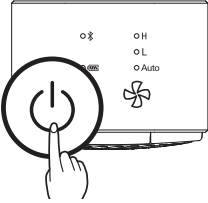
Control and Status Display Panel



1. Start/ Stop button  
Turns the product on or off.
  - Before storing the product for 6 months or longer, press and hold the Start/Stop button for 5 seconds to turn the product off completely.
2. Fan Speed button  
Adjusts the airflow of the product.
  - Press and hold the button for 3 seconds to activate the Bluetooth mode.
3. Power indicator
4. Bluetooth indicator  
LED turns on when paired with a Bluetooth device.
5. Fan speed indicator
6. Air quality indicator

Getting Started

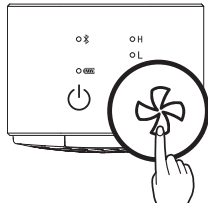
Press the Start/Stop button to start the product.



Adjusting the Fan Speed

Press the Fan Speed button during operation to adjust the airflow.

- Repeatedly pressing the button changes the operating mode from Auto → Low (L) → High (H) → Turbo → Auto, and so on.

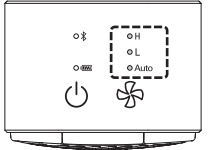


NOTE

- The speed is set to Auto when you first turn the product on. Auto mode controls the fan speed automatically according to the contamination level of the indoor air.
- When the product is turned on, it retains the last fan speed selected.
- The fan speed is indicated on the display panel.
- After the product is turned on, the air quality light remains white for about 30 seconds while the particulate sensor stabilizes. After 30 seconds, the light changes color to indicate the air quality level.

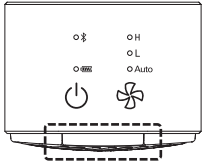
Using the Turbo Mode

- The product operates powerfully for 30 minutes to quickly purify indoor air.
- Press the Fan Speed button repeatedly until all 3 LEDs turn on to indicate the Turbo mode is active.
- Pressing the Turbo button on the main screen of the Puricare Mini app also activates the Turbo mode.
- When you operate the product in Turbo mode, the product operates for 30 minutes and then returns to the previous mode.



Checking the Air Quality

The color of the air quality light indicates the concentration of particulates in the air. There are 4 levels: green, yellow, orange, and red.



The concentration of particulates can be checked using the Puricare Mini app.

NOTE

- If the concentration of particulates stays high even after moving the product to a different area, bring the product in to a service center to have the particulate sensor cleaned.

Overall Air Quality		Concentration of Particulates (µg/m³)		
Color	State	PM10 (coarse particulates)	PM2.5 (fine particulates)	PM1.0 (particulates with a diameter between 1.0 and 2.5 µm)
Red	Poor	255 or more	56 or more	56 or more
Orange	Unhealthy	155-254	36-55	36-55
Yellow	Moderate	55-154	13-35	13-35
Green	Good	54 or less	12 or less	12 or less

Monitoring Air Quality

Use the Puricare Mini app to select when the particulate sensor operates.

- Turns On with Product

- Always On: Monitors the air quality even when the product is in standby mode.

NOTE

- The concentration of particulates could be affected by cooking or using humidifiers, sprays or other products which generate steam or fine particles.
- Even two products placed in the same space could measure the concentration of particulates differently due to air circulation.
- The concentration of particulates displayed may change with environmental factors such as the presence of sofas, beds, carpets, vacuum cleaners, humidity, smoke, bugs, pets or cooking oils.
- The PM concentration may be affected by changes in the outside environment such as construction, heavy traffic or pollen.
- The concentration of particulates could be higher near outside doors, windows, vents or in areas where outside air enters. Outside airflow near the particulate sensor might interrupt normal operation of the sensor and cause the PM level shown to be different than the actual PM level.
- The battery runtime may be greatly reduced when the air quality monitoring is running.
- PM (particulate matter) concentration is displayed in increments of 1 unit, from 8 to 999. PM concentration values are based on the data sheet provided by the sensor manufacturer.
- The PM concentration measurement was tested using LG Electronics’ standard test materials.

SMART FUNCTIONS

Using the Puricare Mini Bluetooth App

Install the Puricare Mini Bluetooth app on your mobile device to control the product from your device.

Installing the Puricare Mini App

Search for and install the PuriCare Mini app from Google Play or the Apple App store on your mobile device. Refer to the guide in the application for further instructions.

Open Source Software Notice Information

To obtain the source code under GPL, LGPL, MPL, and other open source licenses that have the obligations to disclose source code, that is contained in this product, and to access all referred license terms, copyright notices and other relevant documents please visit <https://opensource.lge.com>.

LG Electronics will also provide open source code to you on CD-ROM for a charge covering the cost of performing such distribution (such as the cost of media, shipping, and handling) upon email request to [opensource@lge.com](mailto:opensource@lge.com).

This offer is valid to anyone in receipt of this information for a period of three years after our last shipment of this product.

Pairing

Pairing is a process of mutual registration of Bluetooth devices. Once pairing is complete, no further pairing is required.

1. Run the Puricare Mini app on the mobile device and press the Start Registration button.
2. Press the Fan Speed button on the product until the Bluetooth indicator begins to blink.
3. Select a product to register from the app screen on your mobile device.
4. When the Bluetooth connection between the app and the product is established, the Bluetooth indicator light on the product will turn on.
5. If pairing with the mobile device is not established within 3 minutes, the Bluetooth indicator light will turn off.

NOTE

- For best results during pairing, keep your mobile device and the product next to each other.
  - Pairing may not be successful if there is an obstacle or a person between the product and the mobile device.
  - If a device that uses the same frequency as the Bluetooth (such as a medical device, microwave oven or wireless LAN) is near the product and the mobile device, the pairing may fail due to interference from other radio waves.
- The Bluetooth function may not operate depending on the specifications of the mobile device.
- Even if you turn off the product, the product will enter the stand-by mode, allowing you to operate the product through the connected mobile device.
- If the distance between the product and the mobile device increases, the Bluetooth connection will be disconnected.
- The Bluetooth indicator lamp turns on when the Bluetooth connection is active.
- If you have multiple products connected to the same smartphone, scroll the screen from left to right to select the desired product.
- The PuriCare Mini app is compatible with Android version 8.0 or higher.

Bluetooth module Specifications	
Model	LCB-001
Frequency Range	2402 MHz – 2480 MHz
Output Power (Max)	< 30 dBm

FCC Notice

The following notice covers the transmitter module contained in this product.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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 and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment should be installed and operated with a minimum distance of 1 cm (0.4 inches) between the antenna and your body. Users must follow the specific operating instructions for satisfying RF exposure compliance.

Bluetooth Functions

Use the Puricare Mini app to control the product from a mobile device.

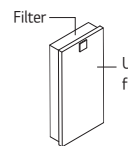
1. Start and stop the product.
2. Manually adjust the fan speed to one of 7 levels.
3. Adjust the operating mode.
4. Check the current air quality and the concentration of particulates by numeric value.
5. Set the air quality monitoring mode.
6. Check your usage history for previous air quality levels.
7. Check the status of the filter and the recommended replacement period.
8. Turn the product on and off remotely. Refer to the application for details.

MAINTENANCE

⚠ WARNING

- Turn the product off and disconnect the USB cable before removing or replacing the filter.
- Do not spray water directly on the appliance.

Scheduled Maintenance

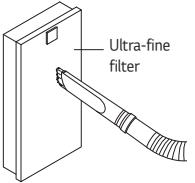
Component	Cleaning frequency	Replacement frequency
	<b>Ultra-fine filter</b> Check monthly for particulate buildup. If needed, clean with a vacuum or soft brush.	6 months

NOTE

- The operating environment and frequency and length of use may affect the filter replacement frequency.
- If the filter is clogged, the product may become noisier than usual.
- Replacement filters are not covered by the warranty. To purchase a replacement filter, contact an LG Electronics service center or visit [www.lg.com](http://www.lg.com)

Cleaning the Ultra-fine Filter

1. Remove the filter cover from the product.
2. Remove dust from the ultra-fine filter with a vacuum cleaner or a soft brush.



NOTE

- Do not wash the filter with water.
- Be careful not to damage the ultra-fine filter when you use a vacuum cleaner.

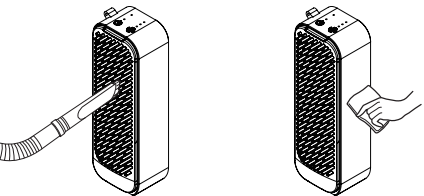
Replacing the Filter

When the filter needs to be replaced, an alert will appear in the Puricare Mini app.

1. Remove the filter cover and the old filter.
2. Insert a new filter and reassemble the filter cover. See Installing the Filter for more details.
3. Once the filter has been replaced, select the Filter Management menu in the app and tap the Filter Replacement button to reset the filter status.

Cleaning the Product Exterior

1. Remove dust from the air inlet and outlet using a vacuum cleaner.
2. Wipe the exterior with a soft cloth.



⚠ CAUTION

- Do not wipe the appliance surface using sulfuric acid, hydrochloric acid or organic solvent (thinner, kerosene etc.) or attach a sticker on the appliance.
- Do not allow water to enter the appliance.

Storage

If the appliance is not used for a long period of time, store it in a dry place out of direct sunlight.

1. Before storing, run the product for an hour or more in a clean, dry area to remove any moisture inside the product.
2. Unplug and disconnect the charging cable and press the Start/Stop button for 5 seconds to turn the product completely off.
3. Protect the product from dust, insects, or moisture, and store it out of direct sunlight.

⚠ CAUTION

- Do not store the appliance on the dashboard of a vehicle. Prolonged exposure of the product to direct sunlight and excessive temperatures may cause explosion, fire or product malfunction.

NOTE


- Do not store the appliance in a humid location or in direct sunlight.
- After storing the product for a long time, charge the battery fully before use.
- If the product is unused for a long period, charge the battery fully every 6 months to avoid battery malfunction.

TROUBLESHOOTING

Symptoms	Solution
The appliance does not operate.	<ul style="list-style-type: none"><li>• Charge the battery.</li><li>• Make sure that the ambient temperature is not excessively high or low.</li><li>• Use an adapter of 1.8 A or higher.</li></ul>
Fan is noisy even on the lowest speed.	<ul style="list-style-type: none"><li>• Thoroughly clean the ultra-fine filter.</li><li>• Replace the filter.</li></ul>
The indoor air is not purified well enough.	<ul style="list-style-type: none"><li>• Ventilate the indoor air before you use the product.</li><li>• Clean the ultra-fine filter properly.</li><li>• Replace the filter.</li><li>• Use a product that fits the size of the room.</li><li>• Do not use the product near open windows, doors, or other areas where outside air enters frequently.</li><li>• Remove foreign objects from the air inputs.</li><li>• Move the appliance and install it again.</li></ul>
The air quality indicator light stays red.	<ul style="list-style-type: none"><li>• If the concentration of particulates is more than the capacity of the product, the display may not change.</li><li>• Turn the product off and on by pressing the Start/Stop button.</li><li>• Do not use sprays near the product.</li></ul>
The concentration of particulates may not change.	In a closed area with little ventilation or air exchange, the air quality may remain the same.
The concentration of particulates stays high.	In an environment or open space where outside air is supplied continuously, the concentration may remain high.
A strange odor comes out from the air outlet as well as the filter.	<ul style="list-style-type: none"><li>• The product is not meant to replace ventilation devices. Open doors or windows or use vent hood to ventilate smoke or strong odors before using the product.</li><li>• Replace the filter. The filter replacement frequency may differ depending on the usage environment.</li></ul>
Cannot pair with Bluetooth device.	<ul style="list-style-type: none"><li>• Reset the Bluetooth connection on your mobile device and try again.</li><li>• Make sure that the Bluetooth setting is turned on.</li><li>• Remove obstacles between the product and the mobile device.</li><li>• Bluetooth pairing may not work depending on the mobile device or the surrounding environment.</li></ul>

PRODUCT SPECIFICATIONS

Appearance and specifications may be changed without notice to improve the quality of the appliance.

Product	
Power	5 V  1.8 A (AC adapter) Built-in rechargeable battery
Rated power consumption	12 W
Exterior dimensions (W*D*H)	2.7 in x 2.5 in x 7.9 in (69 mm x 64 mm x 200 mm)
Service temperature	41-104 °F (5-40 °C)
Service humidity	70 % or less

Battery	
Capacity	(Typ) 3 600 mAh, 13.32 Wh
	(Min) 3 500 mAh, 12.95 Wh

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by LG Electronics Inc. is under license. Other trademarks and trade names are those of their respective owners.

Supplier's Declaration of Conformity	
47 CFR §2.1077 Compliance Information	
Trade Name:	LG
Responsible Party:	LG Electronics USA, Inc.
Address:	111 Sylvan Avenue, North Building Englewood Cliffs, NJ 07632
Email:	<a href="mailto:lg.environmental@lge.com">lg.environmental@lge.com</a>
FCC Compliance Statement	
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, and	
(2) This device must accept any interference received, including interference that may cause undesired operation.	

