



User's Manual

LG CLOi UV-C Bot

Please make sure to read the "IMPORTANT SAFETY INSTRUCTIONS" before use to use the product correctly. After reading the User Manual, keep it in a readily accessible place for the users.

Model :

RDIIIM10

FY28816000 (Charger) B1

0

Exposure to UV-C (ultraviolet-C) can cause serious skin and eye damage. Do not expose your skin to UV-C and never look towards the source of UV-C light.

During UV processing, please control the space so that people and animals cannot access it, and operate only when people and animals do not enter."

"Please use it by experienced workers who are fully aware of the risk of UV-C."

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This manual is subject to change due to company situations.

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IMPORTANT SAFETY INSTRUCTIONS

READ ALL INSTRUCTIONS BEFORE USE

“IMPORTANT SAFETY INSTRUCTIONS” are for your safe and correct use of the product and to prevent unexpected dangers or damages in advance.

The precautions are categorized into “WARNING” and “CAUTION.” Their meanings are as follows.



WARNING: This indicates a situation where serious injury or death may occur if you violate the instructions.



CAUTION: This indicates a situation where minor personal injury or product damage may occur if you violate the instructions.



: This symbol is intended to call attention to matters and operations that may pose a danger. You must carefully read the section marked with this symbol and follow the directions to avoid danger.

&: This symbol indicates a forbidden action.

▲ WARNING

y Exposure to UV-C (ultraviolet-C) can cause serious skin and eye damage. Do not expose your skin to UV-C and never look towards the source of UV-C light.

y During UV processing, please control the space so that people and animals cannot access it, and operate only when people and animals do not enter.

y Please use it by experienced workers who are fully aware of the risk of UV-C.

y UV-C 광선은 식물의 성장에 영향을 끼칠 수 있습니다. 작업 중에 UV-C 광선이 식물에 과도하게 노출되지 않도록 주의해 주세요.

y If you have to enter the UV processing target area with the robot having its UV-C lamp on, never forget to wear protective equipment before entering.

y After pressing the UV processing start button, the timer (default 20 seconds) starts and “UV-C lamp will turn on. Evacuate now.” Even though a countdown warning is issued from 10 seconds to 1 second after the announcement, if the user does not follow the instructions, they may be exposed to UV-C light.

INSTALLATION

y y Use a genuine battery and the charger provided with the product.

- Non-genuine products may cause a battery charging problem or fire.

y y Do not pull the power cable.

- Doing so may cause electric shock or failure.

- y Do not allow persons to approach the robot during its setup or installation.
 - Doing so may cause injury or other accidents.
- y Do not plug multiple power cables into one outlet.
 - Overheating may cause a fire.
- y Keep packaging materials (vinyl, styrofoam, etc.) out of the reach of children. These materials can pose a suffocation risk to children.
- y Do not insert conductors, such as chopsticks, into the grooves on the other side while the power cable is connected to an outlet. Do not touch the power plug immediately after unplugging it from the outlet.
 - There is a risk of electric shock.
- y Do not damage or bend the power plug or the power cable.
 - Damage to the power cable may cause electric shock or fire.
- y Handle the power plug with dry hands.
 - There is a risk of electric shock.
- y Use only with the designated power and voltage.
 - There is a risk of electric shock or fire.
- y Unplug the charger before moving it.
 - There is a risk of electric shock or fire.
- y Connect the power plug to a grounded outlet.
- y Do not insert or drop metal objects (coins, hairpins, ironware, etc.) or flammable objects (matches, paper, etc.) into the charger or the product's vent hole.
 - There is a risk of electric shock or fire.
- y Do not insert or drop metal objects (coins, hairpins, ironware, rods, etc.), rods, fingers or flammable objects (matches, paper, etc.) into the holes on the lamp protection net.
 - There is a risk of electric shock or fire.
 - Lamp breakage may cause injuries.
- y 램프에 수은이 포함되어 있으므로 램프가 깨졌을 경우 즉시 자리를 이탈하고 한 시간 이상 충분히 환기 후 깨진 유리를 치우세요.
- y Do not install, store or operate the product or the charger in highly humid places (85% relative humidity or higher).
 - Doing so may cause fire or malfunction.
- y Do not place the product or the charger near fire equipment, explosives or flammable substances.
 - Doing so may cause a fire.
- y Do not use products that use high-voltage electricity near the robot.
 - Electric shock may cause a failure.

- y Install the charger in a safe place to prevent persons, children and animals from bumping into it and get injured.
 - Failure to do so may cause an accident.
- y If you are not using the robot for a long time, turn off its power and disconnect the power plug from the outlet to protect the product and its battery.
 - Electric shock or leakage may cause fire or other accidents.
 - 로봇과 충전기 보관 시 물이나 먼지가 많은 환경을 피해 주시고 커버를 씌운 후 보관해 주세요.
- y Do not let water or dust get into the robot or the charger.
 - There is a risk of fire or product damage.
- y Do not charge the robot where there is water.
- y Do not pour liquids onto the product or expose it to foreign substances.
 - Doing so may cause mis-detection or malfunction.
- y Keep the robot and the charger from getting wet with water, lubricants or other similar substances.
 - There is a risk of electric shock, fire, failure or injury.
- y Do not stop the robot or leave it on standby on a slope.
 - The robot may tumble down or fall, resulting in failure or injury.
- y Store the robot on a flat place with no slope.
- y When opening or closing the UV-C lamp protection net, do not forcefully pull or incompletely close the net. Doing so may cause the protection net to fall off while the robot is moving. Make sure to remove and fit the parts correctly according to the [manual. \(See page 73 .\)](#)
 - Dislodged protection net may cause damage or accident.
 - If the robot continues to operate with the protection net incompletely closed, the UV-C lamp may break and cause injury.
 - 로봇 이동시에는 램프 비산 방지를 위하여 커버를 씌운 후 이동해 주세요.

OPERATION

- y Mirrors, transparent objects and completely black objects which is placed 20cm from the ground may hinder the robot's ability to recognize obstacles. Remove or move such objects from within the robot's travel range.
- y Transparent obstacles (glass, transparent acrylic, etc.) have limitations in sensing detection, so make sure there are no transparent obstacles in the robot's driving space..
 - Transparent obstacles in the robot's travel range may cause safety accidents or injuries.

- y The robot may not be able to move normally in places where illumination of the light reflected on it by the floor or surrounding objects (glossy floor, mirror, etc.) is too high or low. Maintain a proper illumination level within the robot's travel range.
 - Failure to do so may cause an accident due to a traveling error or mis-detection of obstacle.
- y In an urgent situation where an accident seems likely and sudden braking is necessary, press the emergency stop button to stop the robot. LG does not guarantee quality of the product damaged due to a collision, etc. that may occur during an emergency stop.
- y Do not push or pull the robot while it is traveling or waiting.
 - Doing so may cause the robot to fall over, failure or accident.
- y Children, the elderly and animals within the robot's travel range are at risk of collision and injury. Please be mindful.
 - The robot is not intended for use by young children or invalids.
- y Do not allow children to hang on or climb on the robot.
 - It may cause injury due to falling or collision.
- y Do not push or pull the lamp guard while the robot is traveling or waiting.
 - Danger of UCV exposure and injury.
- y Do not lean on the lamp while the robot is traveling or waiting.
- y Make sure that the lamp does not break while the robot is being moved manually.
- y Stop using the robot and the charger when there is a smoke or an unusual smell. Turn off the power and unplug the power cable.
 - If you continue to use the product, there is a risk of electric shock or fire.
- y A person who lacks physical, sensory, mental abilities, or experience and knowledge (including children) cannot safely use this product. For safe use, supervision of the supervisor is required to ensure that only pre-trained personnel can use the robot.
 - There is a risk of electric shock, burns or injury.
- y Do not disassemble or attempt to repair the robot on your own.
 - Doing so may cause electric shock, fire or damage.
- y Slopes, stairs and high places are not suitable places for the robot to operate on. Use the robot only on a flat ground.
 - The robot may fall, causing product damage or accident.
- y Obstacles at low heights such as wallets, rods and boxes within the robot's travel path may not be detected. The robot may move over such obstacles, which can cause damage or injury. Remove any obstacles on the robot's path.

- y The robot may fail to recognize or avoid thin and long obstacles (banners, guide posts, etc.) and collide into them. For safe traveling, remove such obstacles from the robot's travel path.
- Failure to do so may cause an accident due to a traveling error or mis-detection of obstacle.
- y Using a lamp other than the one recommended by LG may generate ozone. For product performance and safety, only use a component recommended by LG. (Philips TUV 36W/ G3 6 T8)
- y LG is not responsible for any problems that occur when using a product other than the door sensor provided by LG..
- y To detect that people and animals enter the sterilization workspace, install a door sensor inside the door and proceed with UV processing.
- y If there are multiple doors, lock all doors except for the door where the door sensor will be installed, or if the door cannot be locked, install door sensors on all doors.

yBATTERY

- y Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.
- y Prevent unintentional starting. Ensure the switch is in the off position before connecting to the battery pack, picking up or carrying the robot. Carrying the robot with your finger on the switch or energizing a robot that has the switch on invites accidents.
- y Do not use a battery pack or robot that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.
- y Follow all charging instructions and do not charge the battery pack or robot outside of the temperature range specified in the instructions. Charging improperly or at temperatures outside of the specified range may damage the battery and increase the risk of fire.
- y Never use the battery, adapter, or charging station from other robots with this robot. Use only the battery and the charging station provided by LG Electronics.
- y Never use the battery, adapter, or charger from this robot with other robots.
- y Under abusive conditions, liquid may be ejected from the battery. If this happens, avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
- y Do not disassemble, remove or short-circuit the battery.
- y Do not apply heat or shock to the battery.
- y Have the battery replaced when it is no longer able to hold a charge.
- y When disposing of this robot, follow regulations for disposal of rechargeable lithium-ion batteries.

- y Follow all local ordinances and regulations when handling or disposing of the battery.
- y Have servicing performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.
- y Do not modify or attempt to repair the robot or the battery pack (as applicable) except as indicated in the instructions for use and care.
- y In case rechargeable battery is included in this robot, the entire device should be recycled in compliance with rechargeable battery recycling standards because of the internal battery. To dispose of properly, call (800) 822-8837 or visit www.call2recycle.org
- y For parts replacement, only the designated parts may be used. Repair work must only be performed by a qualified worker. This is to maintain the product's safety.
- y When restarting the battery, turn it off and wait for 5 seconds before turning it on again.
- y There is a small coin-type battery inside, so be careful not to swallow it.
- y Do not arbitrarily disassemble and assemble the battery. Damage to the product and high current can cause injury. If you need to decompose, please contact the service center.

⚠ CAUTION**INSTALLATION**

- y Do not hit or apply shock to the robot.
 - Doing so may cause damage to the robot.
- y Do not press the LCD screen too hard.
 - Doing so may lead to product failure.
- y Do not cover a part (sensor, etc.) or the entire body of the robot with a cloth or table cloth.
 - Doing so may make the robot unable to travel properly or cause a traveling error, which may lead to failure or accident.
- y Do not operate the robot in an environment outside the temperature range 0°C - 40°C (32°F - 104°F).
 - It may cause robot malfunction. The robot may stop when it is out of a certain temperature range. After returning to the normal temperature range, normal operation is possible.
- y Store the robot at room temperature.
 - Failure to do so may cause malfunctioning and shorten the product life.

10 Before Use

- y Do not install the charger in an environment outside the temperature range 0°C~35°C (32°F~95°F). It is recommended to use the charger at room temperature.
 - Failure to do so may cause charging failure or malfunctioning. If it is out of a certain temperature range, charging may not work properly. After returning to the normal temperature range, normal charging is possible automatically.
- y It is not appropriate to drive the robot on a wet floor or where an electric or electromagnetic device is installed. Also, avoid places with severe vibration.
 - Before using the robot, remove all objects that may cause a problem.
- y Use the robot in places free of electromagnetic interference for proper operation.
 - Failure to do so may cause failure, malfunctioning or other accidents.
- y Robots can only be replaced directly with UV-C lamps. If the rest of the parts fail, do not arbitrarily dismantle/assemble them, and contact the enclosed service contact information.

OPERATION

- y The robot is only for indoor use. Do not use it outdoors.
 - Doing so may cause damage or malfunction.
- y Do not load fragile objects, liquids or objects that can deform or deteriorate by temperature change, vibration, etc. onto the robot.
 - Doing so may cause damage or accident.
- y The continuous operating time is 6 hours. If the actual operation time of the robot is expected to exceed 6 hours, charge it frequently to avoid battery discharge.
- y The robot can travel most optimally on a flat marble, cement ground or carpet. It may have difficulties in moving or be entirely unable to travel in other environments.
- y Set the robot's travel path, there are no fixed objects longer than 1cm, such as threshold and electrical wiring, on the floor or remove the electric wires from the floor before driving.
- y The robot may fall over, causing damage or injury.
- y It is recommended to secure a passage width of 74 cm or more so that the robot can travel stably.
- y Do not operate the robot on a dangerous place such as stairs, slope and cliff.
 - If you have to use it in an environment with stairs or cliffs, please install a protective fence for safety. Robots can be overturned.
- y Obstacles between 2cm and 3.5cm in height are not allowed during operation.
- y It cannot be used on slopes where golf balls, ping-pong balls, etc. can roll.
 - Doing so may cause malfunctioning.
- y During charging, if the robot status is not displayed as charging, check the LED color to see if the charger is properly connected.

- y Do not put your foot or hand under the robot while the robot is moving or rotating.
 - You may get caught in the wheel or injured by sharp edges inside.
- y Dispose of the lamp in compliance with the disposal regulations for UV-C lamps and fluorescent lamps.
- y The robot is so heavy. If the operation is not performed according to the manual in the designated place, there is a risk of injury when falling or overturning.
- y When replacing the lamp, be aware of safety accidents caused by detachment/falling of the lamp and the lamp protection cover.
- y When moving manually, it may be difficult to secure a forward view due to the height of the robot (160cm). To prevent safety accidents, please move carefully while looking ahead.
- y The robot is not equipped with any anti-theft devices. Be careful with storage and care.
- y This robot is intended for indoor use. We are not responsible for use outside the operable area.
- y If two or more robots are operated in the same space at the same time, UV processing may be excessive or may not operate normally due to mutual interference.
- y If you are injured as a result of using a robot, seek immediate medical attention.
- y Operating air conditioners or fans can cause malfunction in the robot's human body detection function. When operating the robot, it is recommended to turn off the device and proceed.

1

Before Use

Product Features

This product is intended for UV processing of personal or public spaces (rooms), so do not use it for industrial, medical or laboratory purposes.

UV processing

The product uses the UV processing lamp to kill bacteria indoor spaces.

Notes

Symbols used in this User Manual

Note

Indicates a special note on a feature.

Warning

Indicates an alert on risk of injury or danger.

Components and Accessories

Check the supplied components and accessories.

Main Body
(including 3
batteries)



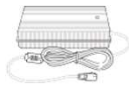
Quick Reference
Guide



UV-C lamp (6)



Charger



Power cable for the
charger



Door sensor

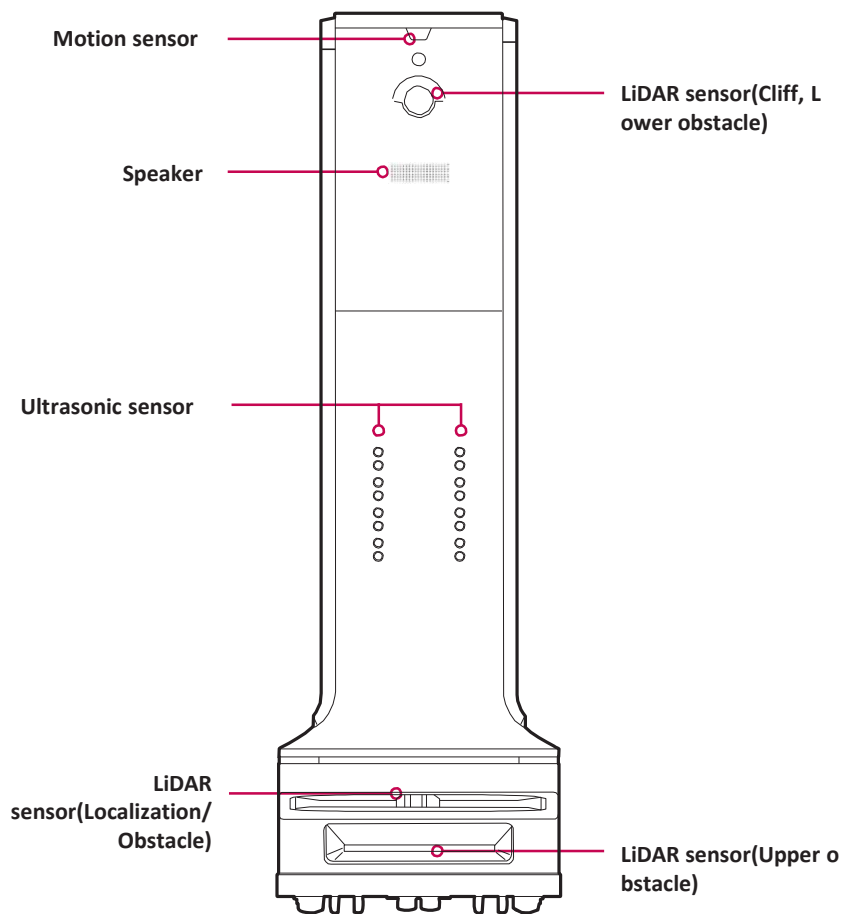


UV-C lamp protection
cover



Part Names and Descriptions

Main body front



Door sensor

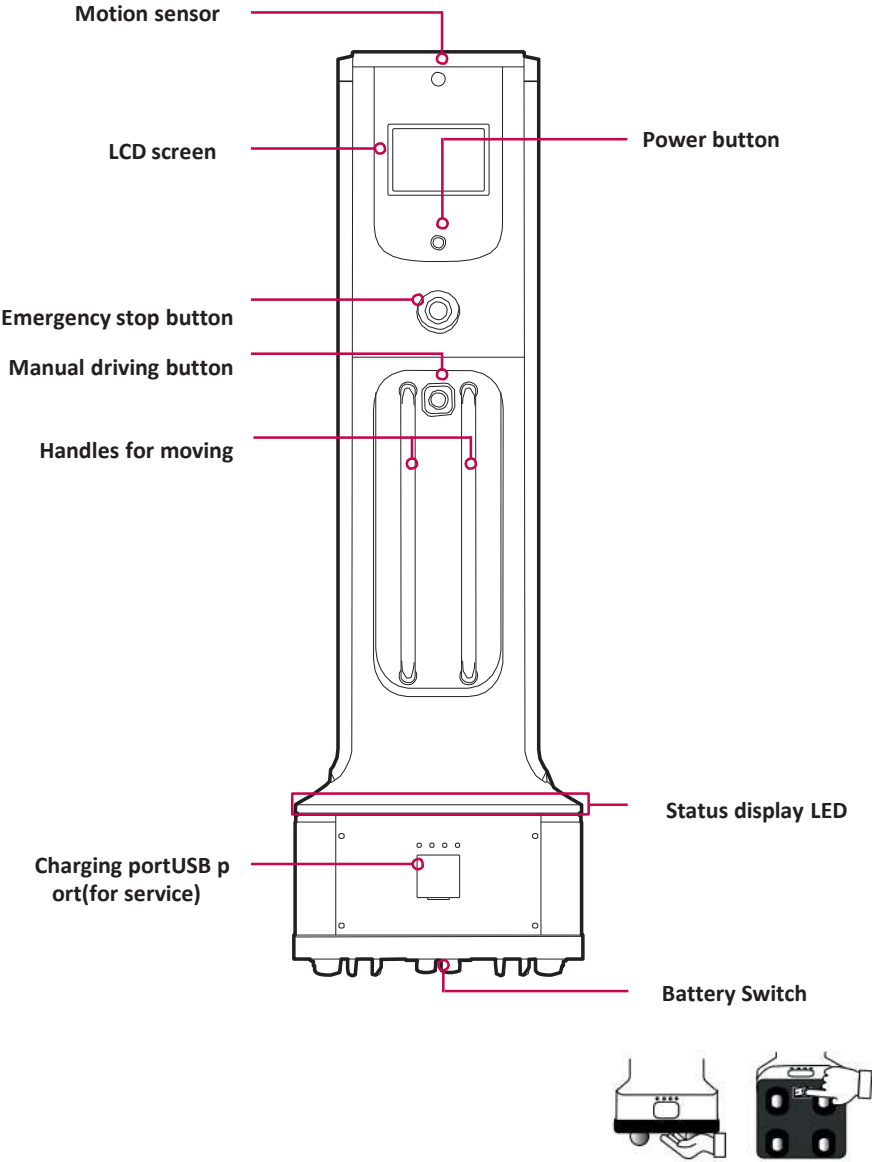


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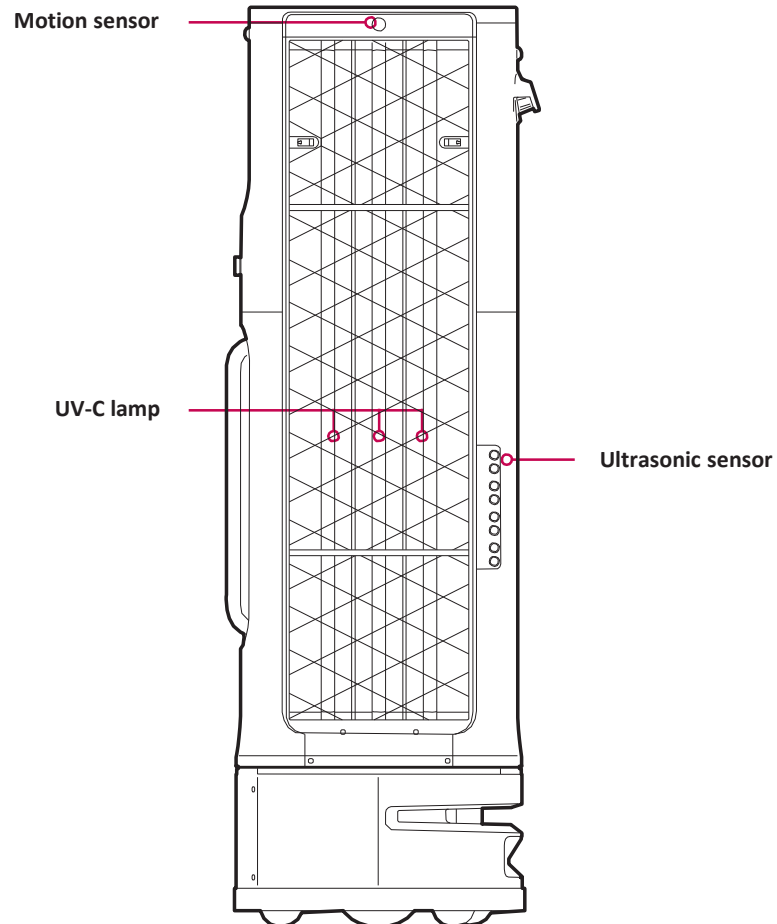
Before Use

1
Before Use

Main body rear



Main body sides (left/right)



1
Before Use

* Product appearance is subject to change without prior notice depending on the manufacturer's circumstance.

About Emergency Stop

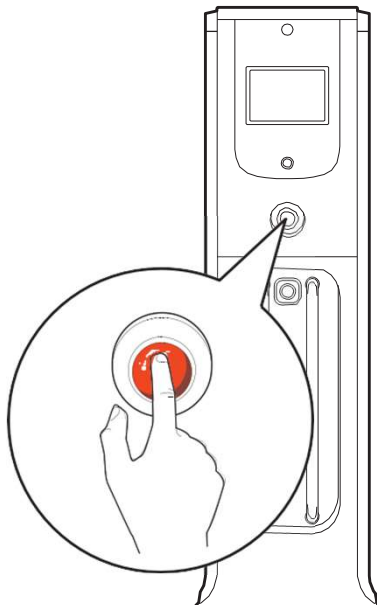
In an emergency situation, use the emergency stop button to stop the robot.

Emergency stop situations

In the following emergencies, immediately press the emergency stop button. Approach the robot doing your best to protect your eyes from the light and press the emergency stop button.

- When you want to immediately stop the robot's motion (UV Processing and driving)
- When the robot's UV processing works in a place where there are people.
- When the robot starts UV processing in a place where a person is present
- When the robot seems likely to damage persons or objects around
- When the robot malfunctions unexpectedly

Emergency stop

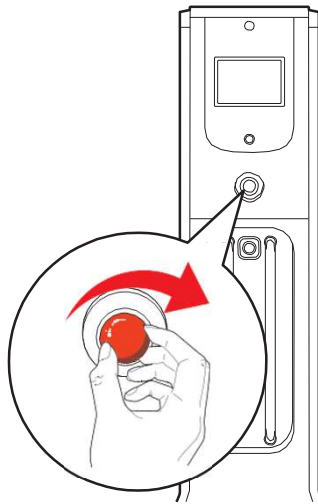


Press the emergency stop button above the handle.

Note

• Use this button only in emergency situations.

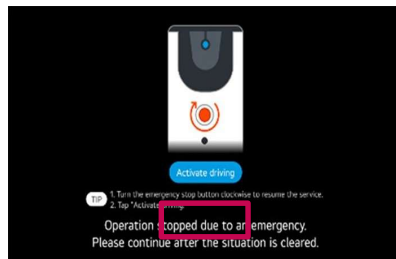
Clearing emergency stop



- 1 Turn or pull the emergency stop button on the handle to the right.
- 2 Press the “Activate Driving” button on the robot screen.

Note

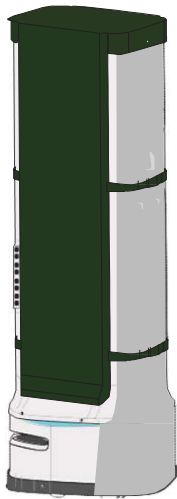
- y If the emergency stop button is pressed, traveling is disabled.
- y When the emergency stop button is pressed, an emergency message is displayed on the screen.



1

Before Use

Moving Robot Manually



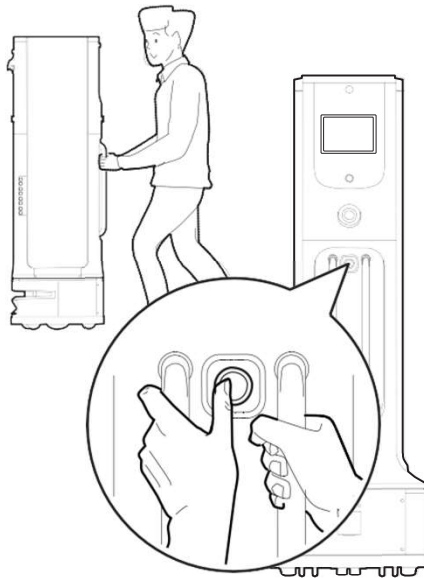
For manual moving, mount the cover for safety before moving.

Use the Aided Driving function to move around for convenience.

- 1 Attach the UV-C lamp protection cover and fasten the buckles to secure the cover to the robot.

Note

The purpose of the UV-C lamp protection cover is to protect the lamp from external impact and to prevent the scattering of glass shards in case of breakage.



- 2 Press and hold the manual driving button with the power turned on. Then you will be able to move the robot manually. Keep the manual driving button pressed when moving, and remove your hand from the button to stop.

CAUTION

- When moving the robot manually, be careful not to let go of the brake release button.
- Be careful not to overturn the robot while moving it manually.
- The robot is tall, so be careful when moving it.

Moving Robot Aided Driving



- 3 Press the manual driving button twice until you hear a “snap” sound twice to perform aided forward driving. Release the button to stop the robot and go back to the previous screen.

Note

To press the manual driving button twice, press it once, pause for a moment, and press it again.

A guide screen appears to inform you whether the aided forward driving function works and what speed the robot is moving at.

The guide screen does not appear and the speed is set to 'Low' during mapping.

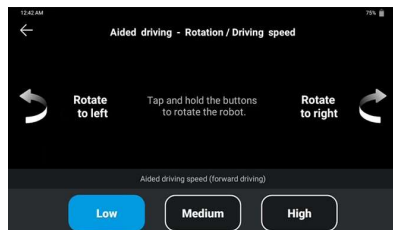
For convenience during aided driving, the standby screen does not appear.

Aided driving is not activated in the standby screen, password input screen, system error screen, disinfection process, or the initialization screen.

If you are using the aided driving, move carefully while looking at the forward direction to avoid collision.

1

Before Use



4 Press and release the manual driving button once to display the Aided Rotation/Speed Setting screen.

① Aided Rotation: Press the button for the direction you want to rotate to rotate the robot round at the spot. Release the button to stop the rotation.

② Speed Setting: Sets the speed for aided forward driving.

Low = 40cm/s (default) M

Medium = 55cm/s

High = 65cm/s

Note

If there is no user input for 5 seconds or more, the Aided Rotation/Speed Setting screen goes back to the previous screen.

Charging

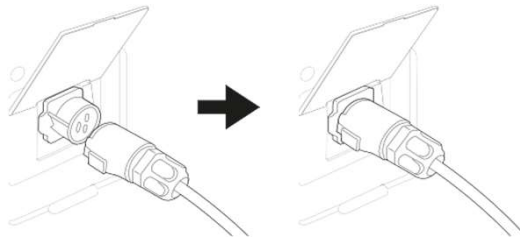
You can charge the battery manually when using the robot for the first time or when charging is necessary while you are operating the robot.

The low battery message will appear according to the previously set battery level for charging (20%, 30%, 40%).

- 1 Move the robot to the desired position for charging. (See page [18](#).)
- 2 Connect the adapter and the power cord.
- 3 Open the terminal cover on the rear side of the robot.



- 4 Connect the adapter cable to the charging terminal.



- 5 Connect the power plug to an outlet.

Note

- y Make sure to use the adapter provided with the robot. Using other adapters may lead to product failure and will void the product warranty.
- y If there are foreign substances on the charger terminal, the product may not be charged normally. Clean the it with a soft cloth.
- y Charging time may vary depending on the condition of the battery.
- y If the battery is left uncharged for a long time, battery failure may occur.
- y Use the charger at 0°C - 35°C (32°F - 95°F).
- y Install and use the charger in a well-ventilated place.
- y Do not charge the robot in wet places.

Door sensor : Power on

When using the door sensor for the first time, turn the power on.

	- Turn on : Long press the button for 3.6 sec, till the blue light flashes for a seconds (3 times), the device turns on.
---	--

Door sensor : Charging

You can charge the battery manually when using the sensor for the first time or when charging is necessary while you are operating the sensor.

Red light being on means the battery is low and needs to be charged.

	1 Take out the magnetic suction charging wire and plug in the adapter. 2 Place the magnetic suction wire close to the bottom charging port, which will be automatically and mutually fixed, then green light is on for charging. 3 Until the green light is off, it is fully charged. 4 The battery charging current is about 65 mA, so if you want to charge multiple sensors at once, consider the charger's current.
---	---

Status LED

The LED colors tell you the status of the robot.

Normal operation

Robot Status	LED Color	LED Status	Condition for Clearance
On standby	Green	Stays on	When the robot status has changed
UV processing in progress	Off	Off	When UV processing is complete
Charging	Green	Brightens and dims	When charging is complete
Low battery	Green	Blinks	When charging starts

Abnormal operation

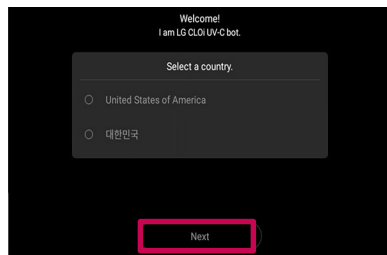
Robot Status	LED Color	LED Status	Condition for Clearance
Stopped due to error, emergency stop, etc.	Red	Stays on	When the error is resolved
Detected person	Red	Blinks	When absence of persons is confirmed

Initial Setup

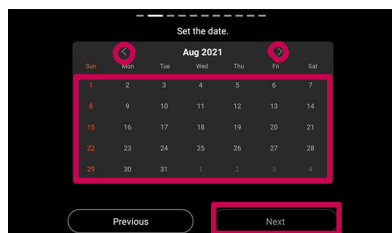
When you turn on the power of the robot for the first time or turn on the power after initialization, the initial setting of the robot is performed..

2

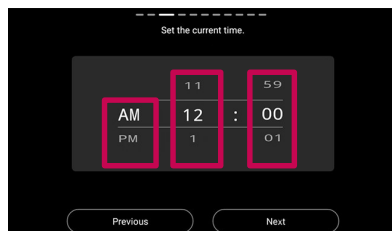
Connection and Installation



- 1 After selecting the country, and click [Next].



- 2 Select a month with </> and select a date from the on-screen calendar. After setting the date, press [Next].



- 3 After setting the time, press [Next].

[AM/PM]

Choose between AM and PM.

[1 ~ 12] (Hour)

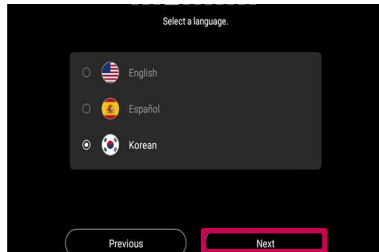
Select a hour from 1 to 12.

[00 ~ 59] (Minutes)

Select a minute from 00 to 59.

Reference

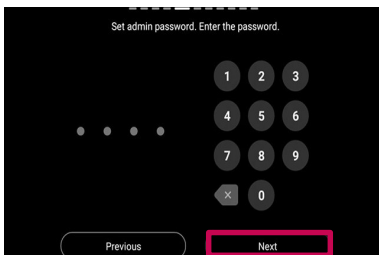
Press [Previous] to move to the previous screen.



- 4 After selecting a language, click [Next].
Appears on the screen in the selected language and speaks the instructions.

,Reference

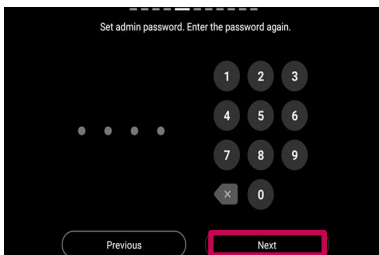
- y Press [Previous] to move to the previous screen.



- 5 Enter the 4-digit password to set as the administrator password and press [Next].

,Reference

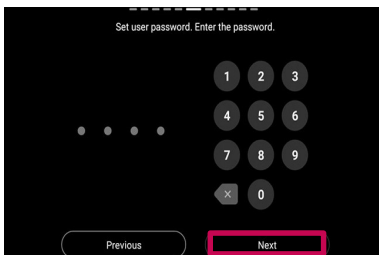
- y Press [Previous] to move to the previous screen.



- 6 Re-enter the 4-digit password for confirmation and press [Next]. An administrator password is set.

,Reference

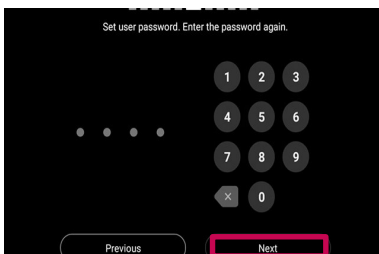
- y Press [Previous] to move to the previous screen.



- 7 Enter the 4-digit password to set as the user password and press [Next].

,Reference

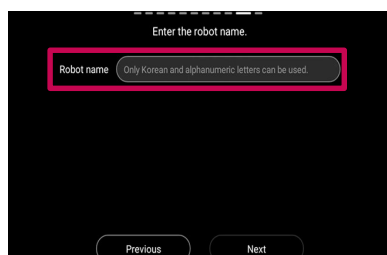
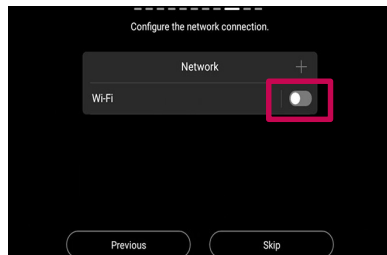
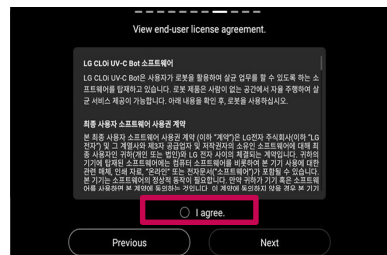
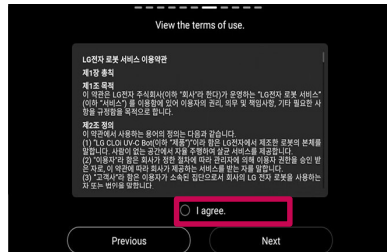
- y Press [Previous] to move to the previous screen.



- 8 Re-enter the 4-digit password for confirmation and press [Next].
A user password is set.

,Reference

- y Press [Previous] to move to the previous screen.



- 9 Please check our terms and conditions.
After reading the terms and conditions,
select Agree, then click [Next].

- 10 Please check the user license agreement.
After reviewing the user license
agreement, select Agree and click [Next].

- 11 After turning on the network, a list of
available networks appears, select a
network to connect to. (See page 30)
After connecting to the network, click
[Next].

Reference

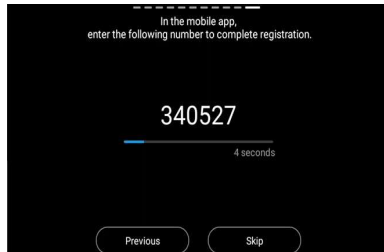
y Press [Skip] to go to the next without
connecting to a network.

y You can browse the list of networks
[again or add them.](#) (See page 30)

- 12 Enter the robot name and click [Next].

Reference

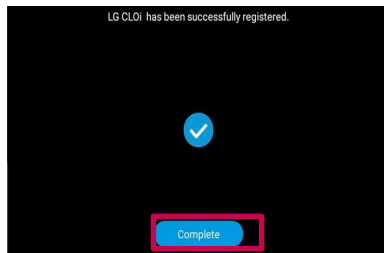
y Press [Previous] to move to the previous
screen.



- 13 The OTP number for robot registration appears on the mobile device. Enter the OTP number on the mobile device where the control app is installed. Press [Next].

Reference

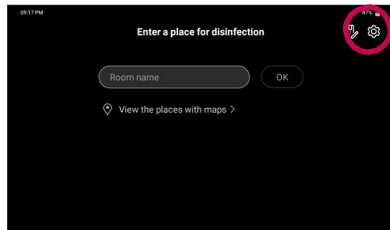
- y To move to the next without having to register your robot on a mobile device, then press the [Skip].
- y Press [Previous] to move to the previous screen.



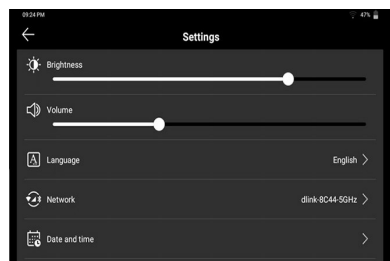
- 14 Press [Complete]. The initial setup of the robot is complete.

Entering user settings mode

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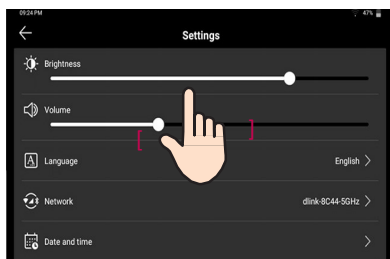


- 1 Press [;] (Settings) at the top right of the screen.
The Settings screen will appear.



- 2 Press the desired setting item on the screen.
A menu will appear for the item.

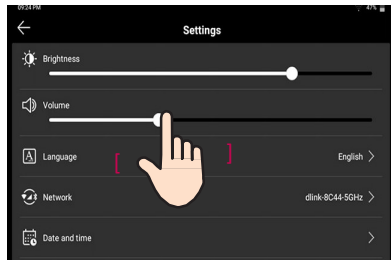
Setting brightness



You can set brightness of the LCD screen.
Adjust the brightness control bar left and right to set the LCD screen's brightness.

Setting volume

You can set the volume of the robot's voice and notification sound.



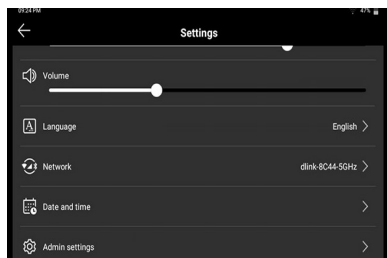
Adjust the volume control bar left and right to set the volume.

3

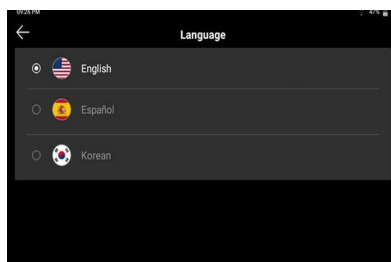
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하위 항목들

Setting language

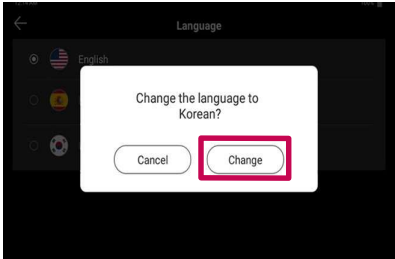
You can change the language for the display menus and messages.



1 Select [Language].



2 Select a desired language [*Español*] and [Korean].



3 When a pop-up appears asking for your confirmation, press [Change]. The display language will be reset accordingly.

Note

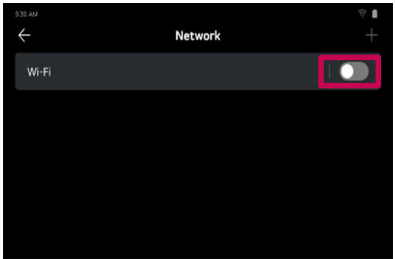
- y The default language is English.
- y If you do not want to apply the setting, press [Cancel].
- y Press [A] (Previous) to go back to the Settings menu.

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Setting network

Make network settings to use the robot in linkage with the app.
Select [Network] from the Settings menu. The Network window will appear.



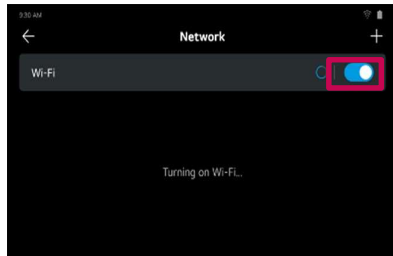
Enabling or disabling network

You can enable or disable network.
When you enable network, a list of networks will appear.

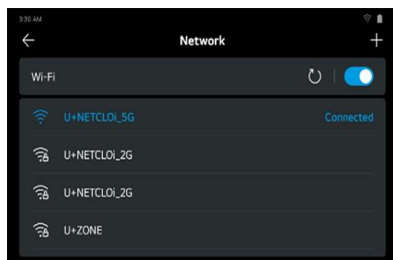
Disable  Enable

Selecting network

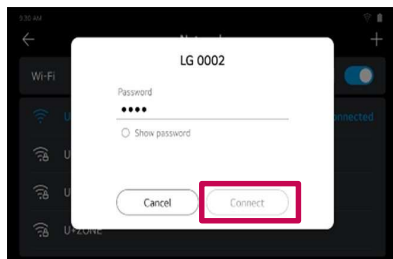
- 1 Enable network.
A list of available networks will appear.



- 2 Select the network you want to connect to.

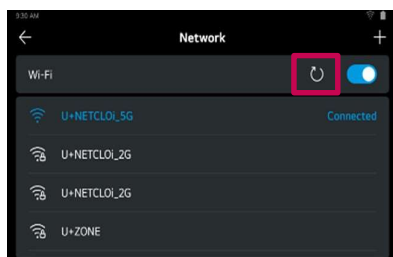


- 3 For a secured network, enter the network password and press [Connect]. The robot will be connected to the selected network.



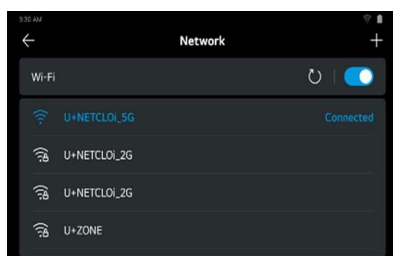
[Refreshing network list]

Press [] (Refresh) to update the network list.



[Adding network]

To add a network, press [] (Add).



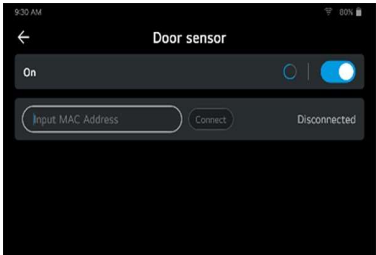
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Setting door sensor

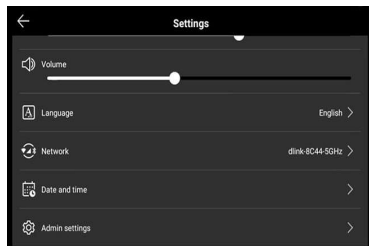
To use the door sensor, select [Door sensor] in the Settings menu.

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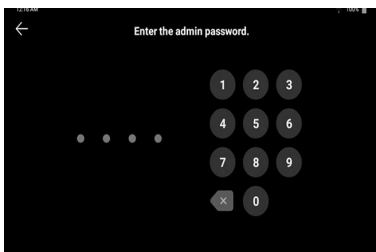
	1 Input the MAC Address on the back of the sensor and press [Connect]. If the status information changes to [Connected], it is normally connected.  Note y Press [A] (Previous) to go back to the Settings menu.
---	--

Entering administrator settings mode

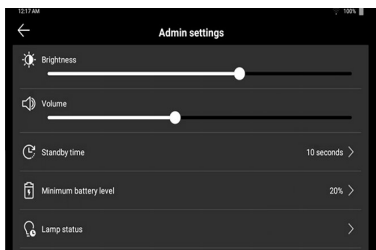
The Settings menu includes locked items that are available to the administrator only. To change the administrator settings, enter Admin Settings as follows.



- 1 Select [Admin Settings].
The administrator password input window will appear.



- 2 Enter the 4-digit password.



- 3 The Admin Settings menu will open.

Note

Press [A] (Previous) to go back to the Settings menu.

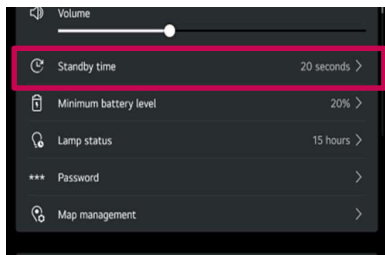
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화면
으로
돌아가기

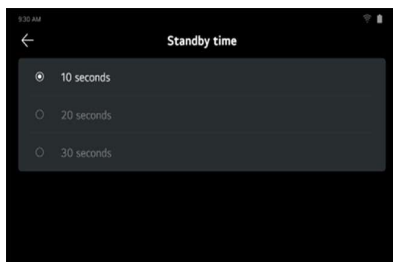
Setting standby time

Before starting UV processing, set the standby time until the lamp is turned on so that the user can leave the working area.

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- 1 Select [Standby Time] from the Admin Settings menu.



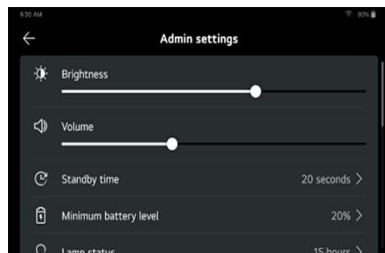
- 2 Select the desired standby time from [10 seconds], [20 seconds] and [30 seconds].

Note

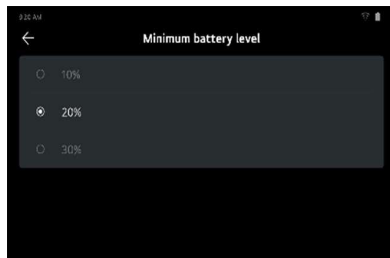
Press [A] (Previous) to go back to the Settings menu. The change will be saved.

Setting battery level for battery status notification

You can set the battery level to trigger the low battery notification when reached.



- 1 Select [Minimum battery level] from the Admin Settings menu.



- 2 Select the battery level at which to display the low battery notification. You can select from [20%], [30%] and [40%].

Note

- y When the set battery level is reached, the low battery notification pop-up window will appear.
- y When linked with the APP, the low-battery notification generated by the robot is also displayed in the APP.
- y If UV processing is in progress, the notification will be displayed after UV processing is complete.
- y Press [A] (Previous) to go back to the Settings menu. The change will be saved.



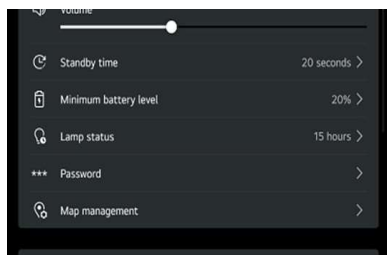
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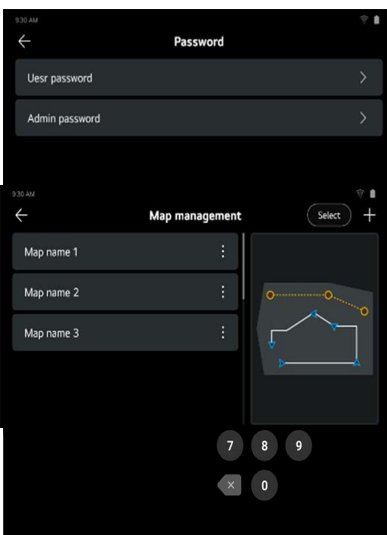
Setting password

You can set access passwords for users and administrators.

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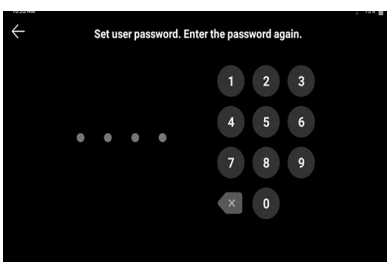


- 1 Select [Password] from the Admin Settings menu and press the set password. Password setting options will appear.



- 2 Select [User Password] or [Admin Password] as desired.

- 3 Enter a 4-digit password.



- 4 Re-enter the 4-digit password to confirm. The password will be newly set.

[User password]

Required to enter the menu screen from the standby screen.

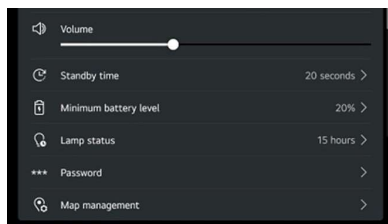
[Admin password]

Required to enter the admin mode to make various administrator settings.

Map Management (UV processing paths)

Adding map of robot's UV processing paths

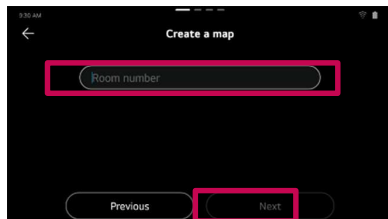
You can add UV processing paths for a specific space such as banquet hall.



- 1 Select [Map Management] from [Admin Settings].



- 2 Press [+] (Add map). This will start creating a map of the space to be killed bacteria.



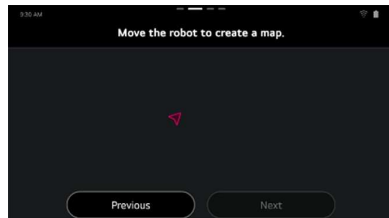
- 3 Enter the name of the map to create and press [Next].

Note

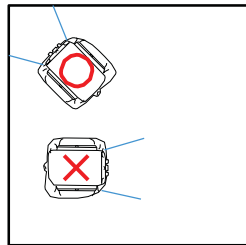
To cancel, press [Previous]. A window will appear asking if you want to cancel the process. Press [Yes] to cancel the process. Press [Cancel] to continue the process.

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- 4 Manually move the robot around within the UV processing target space and scan the entire place with the robot so that it can register the layout and obstacles using its sensor. (See page [18](#).)

Note

y You can use two fingers to pinch zoom-in and zoom-out within the map area.

y When you create a map

y Put the robot on the corner facing the wall and start.

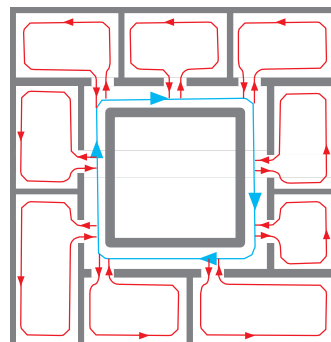
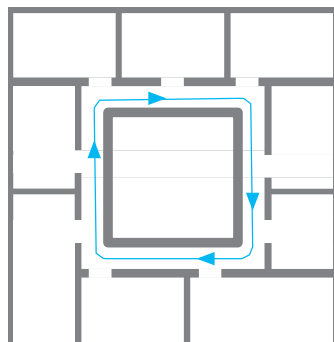
y Avoid transparent or reflecting objects (e.g., glass, full-body mirrors, etc.) 20 cm from the y floor.

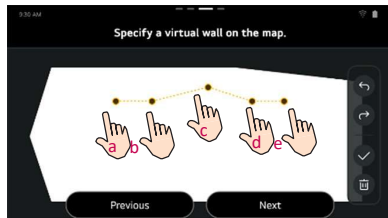
y When creating a map of a large area, scan the map of the entire area and scan the detailed map..

y Map creation can only be completed normally in an environment where walls or specific objects can be detected within a radius of 8m in the front and side of the y-robot.

If the map is not created properly, you can calibrate the map by moving 2m more after creating the map to the point where you started creating the map.

- A map can be created more accurately if it is created at the speed at which a person walks slowly (especially when changing directions).
- Driving may not be completed if there are obstacles in the path. Set the driving route in an area free of obstacles.





- 5 Set up a virtual wall on the scanned map to limit the robot's movement within a certain range. Touch spots on the map to set up the virtual wall. Multiple virtual walls can be set.

Note

You can use the robot without setting up a virtual wall. If you do not want to set up a virtual wall, press [Next].

[↶ Undo]

Undo the spot for virtual wall if you have misplaced it or to return to the previous state.

[↷ Redo]

Redo the undone change to recover the last test spots.

[✓ Save]

Save the virtual wall set by the selected spots. If you input a new touch after saving the virtual wall, it is identified as the next virtual wall.

The Save button is only active when there are changes on the screen.

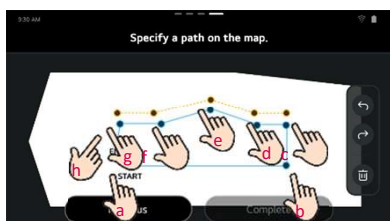
[🗑 Delete]

Delete the selected virtual wall. Use this option to reset the virtual wall. The Delete button is activated only when a saved virtual wall is selected.

- 6 Once you have set up the virtual wall, press [Next].

Note

To cancel, press [Previous]. A window will appear asking if you want to cancel the process. Press [Yes] to cancel the process. Press [Cancel] to continue the process.



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- 7 Set a path for UV processing by touching spots on the map.

Note

The first touch point becomes the starting position, and the Start icon is displayed. If you press Done after specifying the path, the End icon is displayed.

[Undo]

Undo the spot for UV processing path if you have misplaced it or to return to the previous state.

[Redo]

Redo the undone change to recover the last test spots.

[Delete]

The entire path is deleted.

- 8 Once you have set the UV processing path, press [Done].
A map will be generated with the settings applied.

Note

To cancel, press [Previous]. A window will appear asking if you want to cancel the process. Press [Yes] to cancel the process. Press [Cancel] to continue the process.

Renaming map

You can rename the map created.

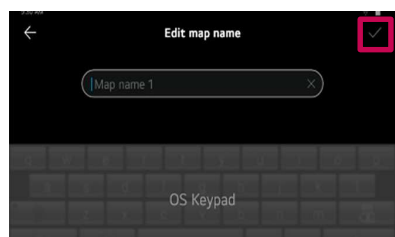


- 1 On the [Map Management] screen, press [] (See More) for the desired map on the map list.
A menu list will appear.
- 2 Press [Change Name].
The Edit Map Name window will appear.



3

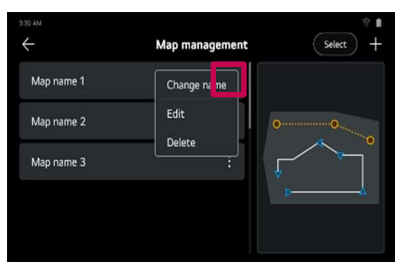
이 단계를
완료한 후
다음 단계를
진행합니다.



- 3 Enter a new name for the map and press [] (OK).
This will rename the map and direct you back to the Map Management screen.

Editing map

You can edit the traveling paths and the virtual wall on a map created.

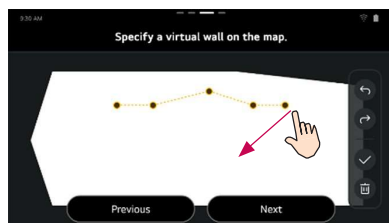
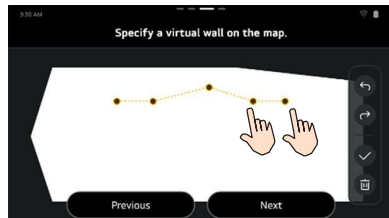


- 1 On the [Map Management] screen, press [] (See More) for the map to edit on the map list.
A menu list will appear.



- 2 Press [Edit].
The map editing screen will appear.

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3 You can delete, move or add spots for the virtual wall.

- To delete a spot, select the spot and press [Delete].
- To add a spot, tap on the desired point.

[↶ Undo]

Undo the spot for virtual wall if you have misplaced it or to return to the previous state.

[↷ Redo]

Redo the undone change to recover the last test spots.

[✓ Save]

Save the virtual wall set by the selected spots.

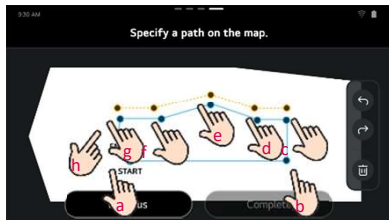
[🗑 Delete]

Delete the selected virtual wall. Use this option to reset the virtual wall.

4 Once you have set up the virtual wall, press [Next].

Note

To cancel, press [Previous]. A window will appear asking if you want to cancel the process. Press [Yes] to cancel the process. Press [Cancel] to continue the process.



- 5 Set a path for UV processing by touching spots on the map.

Note

The first spot becomes the starting position.

[Undo]

Undo the spot for UV processing path if you have misplaced it or to return to the previous state.

[Redo]

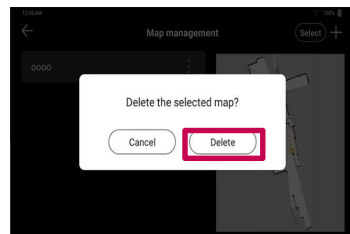
Redo the undone change to recover the last test spots.

- 6 Once you have set the UV processing path, press [Done].
A map will be generated with the settings applied.

Note

To cancel, press [Previous]. A window will appear asking if you want to cancel the process. Press [Yes] to cancel the process. Press [Cancel] to continue the process.

You can delete the maps created.



Deleting one map

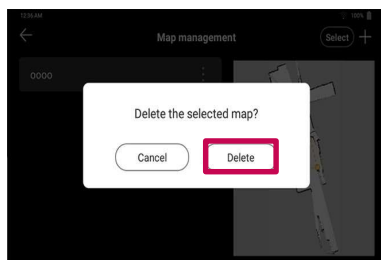
You can select and delete a desired map.



- 1 On the [Map Management] screen, press [] (See More) for the map to delete on the map list.
A menu list will appear.
- 2 Press [Delete]. A pop-up will appear for confirmation.

Note

To cancel, press [Cancel].



- 3 Press [Delete] on the pop-up window. The selected map will disappear from the list.

Note

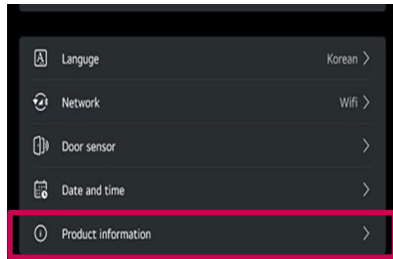
To cancel, press [Cancel].

3

하위 항목들
하위 항목들
하위 항목들

Viewing product information

You can view various types of information of the robot.



Select [Product Information] from the Admin Settings menu. The Product Information window will appear.

[Robot Information]

View the HW and SW information of the robot.

[Legal Information]

View detailed legal information.

- Terms and Conditions
- Open Source License
- Software License Agreement

[Initialization]

Initializes the robot.

Note

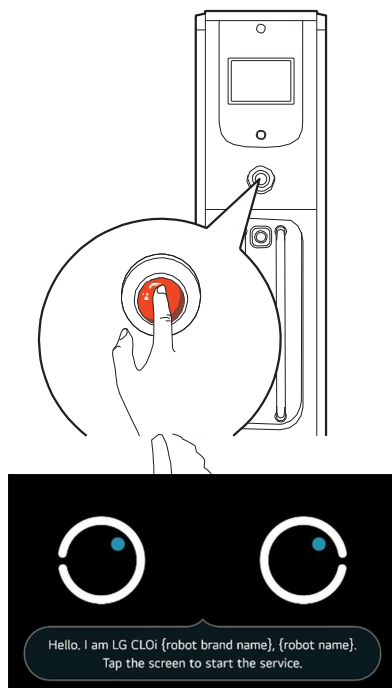
y To cancel, press [Cancel].

y Press [A] (Previous) to go back to the Settings menu.

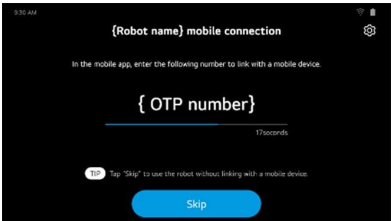
UV processing

General UV processing along the wall

You can use this feature to kill bacteria in enclosed places(ex) room, meeting room). The robot operates the target space while detecting walls and obstacles.



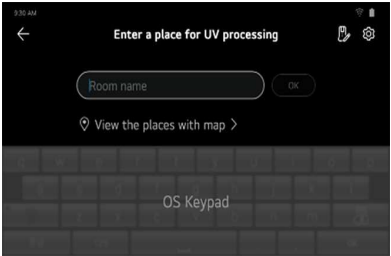
- 1 Move the robot to the UV processing target space. (See page 17.)
- 2 The robot drives along the left wall. In order to recognize the starting position normally and not stop near the door when UV Processing is finished, place it at a distance of at least 1m from the door and 20~30cm close to the left wall.
- 3 Touch the screen on the robot.
Enter the password, then an OTP number for registering the robot on your mobile device will appear.



- 4 Enter the OTP number on the mobile device where the control app is installed. Once the robot is registered on the mobile device, a screen will appear for you to set the UV processing target space.

Note

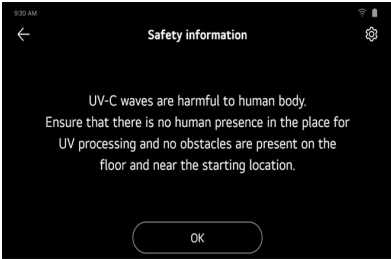
- Press [Skip] to proceed to UV processing without registering the robot on the mobile device.



- 5 Enter a name for the target space and press [OK].

Note

- For the target space name, you can enter the room number, place name, etc.
- Press [Previous] to move back to the previous screen.



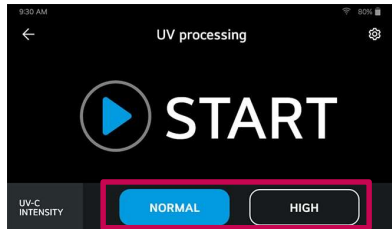
- 6 A warning about UV-C will appear. Check for presence of persons and obstacles on the floor within the UV processing target space and press [OK].

Warning

- Since UV-C is harmful to the human body, you must check for presence of any persons or obstacles on the floor in the UV processing target space. If there is any person or animal within the UV processing target space, move them out of the space before starting UV processing.

Note

- Press [Previous] to move back to the previous screen.



- 7 Set the intensity of UV processing. You can select the UV processing intensity level from [Normal] , [High].

[NORMAL]

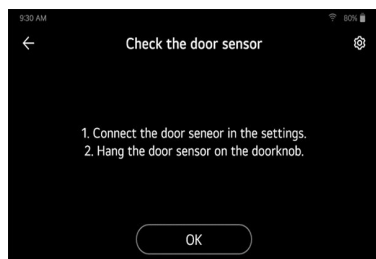
It takes about 15 minutes for UV processing of a 25 square meter space.

[HIGH]

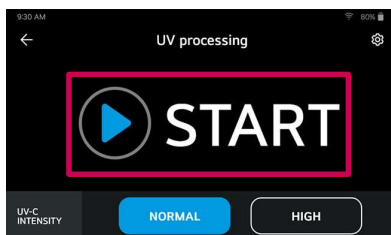
UV processing ability is higher than NORMAL mode. It takes about 30 minutes for UV processing of a 25 square meter space.

Note

Press [◀] (Previous) to move back to the previous screen.

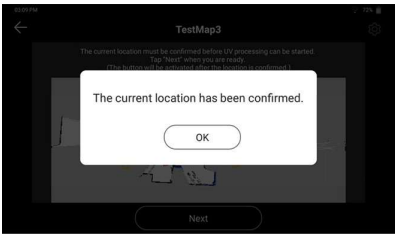
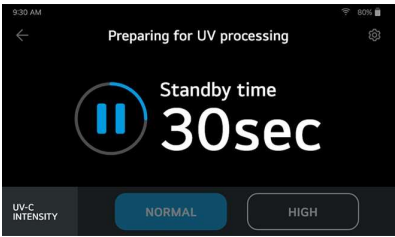


- 8 Before starting UV processing, install the door sensor on the door handle and press [OK]. If the door sensor is turned off or not paired, the guidance screen is displayed as shown below.



- 9 Press [Start].
The UV processing-ready screen will appear.
The robot waits for the set amount of time to allow the user and all other persons to exit the target space before starting UV processing.

4
Operation

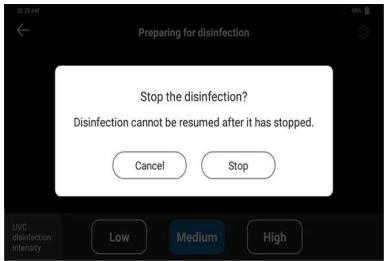


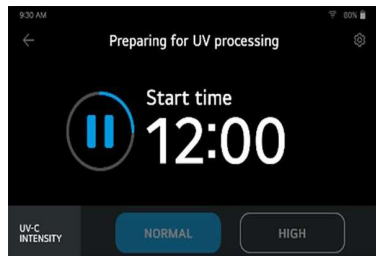
>Warning

- y UV processing started by entering a room number will take up to 30 minutes.
If you have selected a mapped space for UV processing, UV processing will take up to 2 hours. If the robot is not linked to a mobile device, never enter the UV processing target space before the maximum UV processing time has passed.
- y If the robot is connected to the APP, you can check the start time, room number, and UV strength in the APP as well.
- y UV processing can be stopped with the APP during operating.

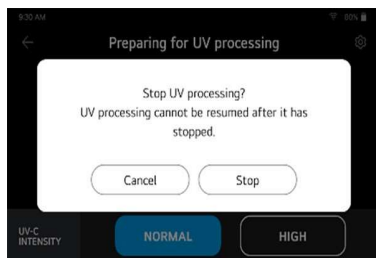
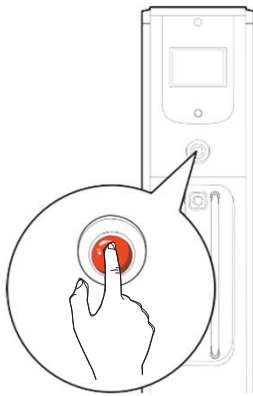
,Note

- y You can adjust the standby time in the Settings menu. (See page 30.) The default value is 20 seconds.
- y Pausing standby will stop the countdown timer and initialize the standby time.
- y Press [Previous) to cancel the operation and move back to the previous screen.
- y If you need to stop UV processing due to an urgent reason and the robot is not linked to a mobile device, press [Stop] on the screen. UV processing will stop. Press [Cancel] to close the pop-up.

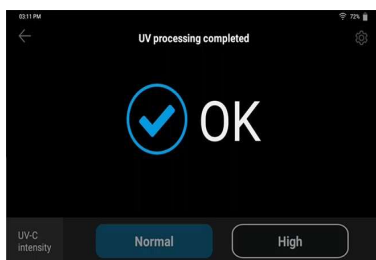




- 10 To stop UV Processing, press the emergency stop button, or press the pause button if it is not on the standby screen.



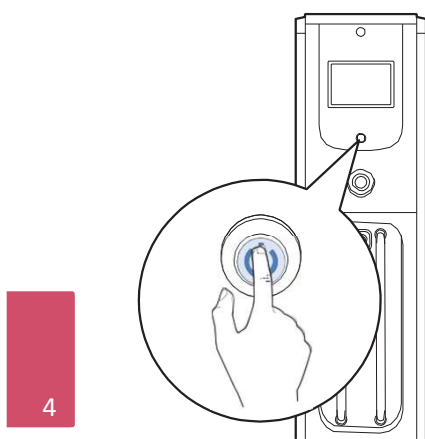
- To completely stop UV Processing, press the [] button (previous) and then click [Stop] in the pop-up window. UV Processing is stopped. Press [Cancel] to close the pop-up.



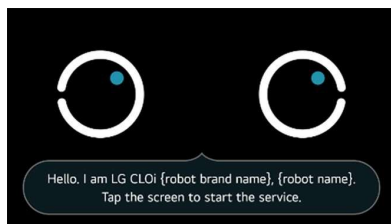
- 11 After UV processing is complete, click [OK].
- 12 To continue UV processing, move the robot to the next target space. To end UV processing, turn off the robot, attach and fasten the UV-C lamp protective covers and store the robot in a safe place.

UV processing mapped location

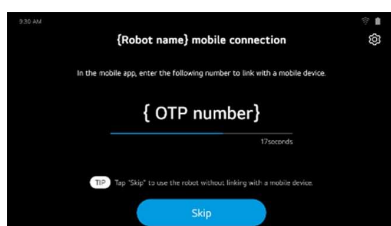
You can use this feature to disinfect mapped locations. The robot disinfects the paths designated on the map.



- 1 Move the robot to the UV processing target space. (See page 17.)
- 2 Remove the UV-C lamp protection covers from the robot. (See page 17.)
- 3 Turn on the robot.



- 4 Touch the screen on the robot.
An OTP number for registering the robot on your mobile device will appear.



- 5 Enter the OTP number on the mobile device where the control app is installed. Once the robot is registered on the mobile device, a screen will appear for you to set the UV processing target space.

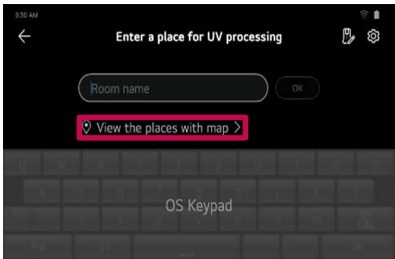
Note

Press [Skip] to proceed to UV processing without registering the robot on the mobile device.

- 6 Press [View the places with map]. A list of set maps will appear.

Note

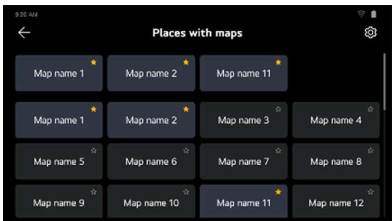
Press [] (Previous) to move back to the previous screen.



- 7 Select the map of the UV processing target space from the map list. The selected map will appear.

Note

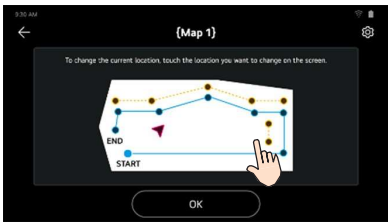
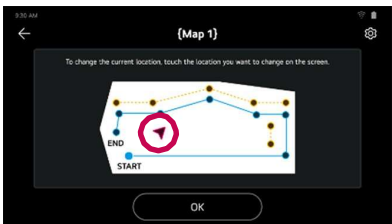
Press [] (Previous) to move back to the previous screen.

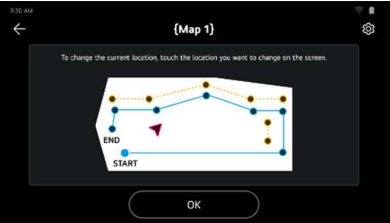


- 8 Position the robot close to the starting point (within 1 meter).
- 9 Once you position the robot, the spot is marked on the map. Select the robot's current position on the map. The robot's current position will be reset.

Note

Press [] (Previous) to move back to the previous screen.



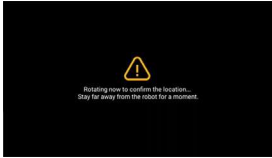


10 Press [OK] and move away from the robot.
The robot will rotate to find its current position.

>Warning

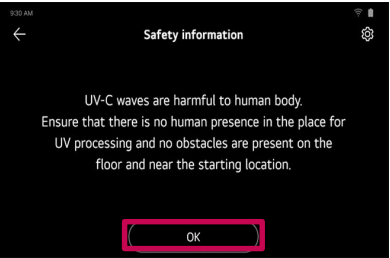
y If the robot hits a person while it rotates, the person may be injured, and the robot

may be damaged. Stay away from the robot while it locates itself.



,Note

y If the robot fails to find the current location, position the robot to face a wall structure with peculiarity, and try again. (Avoid areas surrounded with glass sheets.)



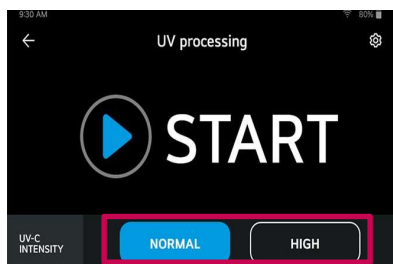
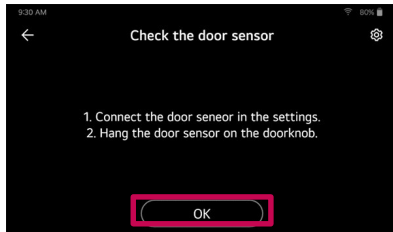
11 A warning about UV-C will appear. Check for presence of persons and obstacles on the floor within the UV processing target space and press [OK].

>Warning

y UV-C 파장은 인체에 유해합니다. 사람이 나 동물이 진입하지 않도록 주의해 주세요.

,Note

y Press [←Previous) to move back to the previous screen.



12 Before starting UV processing, install the door sensor on the door handle and press [OK].

If the door sensor is turned off or not paired, the guidance screen is displayed as shown below.

13 Set the intensity of UV processing. You can select the UV processing intensity level from from [Normal] and [High].

[Normal]

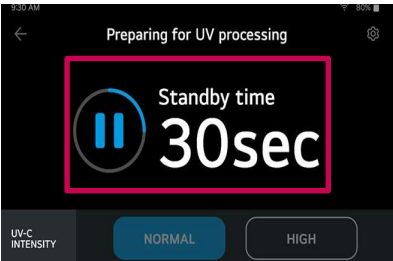
It takes about 15 minutes for UV processing of a 25 square meter space.

[HIGH]

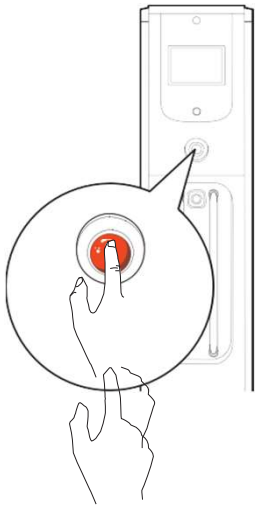
UV processing ability is higher than NORMAL mode. It takes about 30 minutes for UV processing of a 25 square meter space.

Note

Press [←] (Previous) to move back to the previous screen.



4
Operation



14 Press [Start].

The UV processing-ready screen will appear.

The robot waits for the set amount of time to allow the user and all other persons to exit the target space before starting UV processing.

>Warning

UV processing started by entering a room number will take up to 30 minutes.

If you have selected a mapped space for UV processing, UV processing will take up to 2 hours. If the robot is not linked to a mobile device, never enter the UV processing target space before the maximum UV processing time has passed.

If the robot is connected to the APP, you can check the start time, room number, and UV strength in the APP as well.

UV processing can be stopped with the APP during operating.

Note

You can adjust the standby time in the Settings menu. (See page 30.)

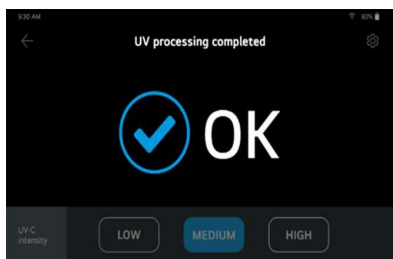
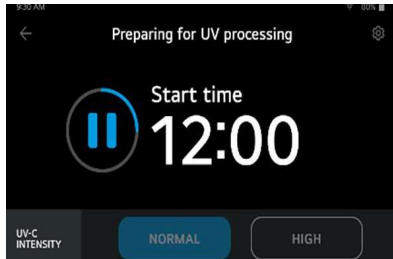
Pausing standby will stop the countdown timer and initialize the standby time.

Press [Previous] to cancel the operation and move back to the previous screen.

If you need to stop UV processing due to an urgent reason and the robot is not linked to a mobile device, press [Stop] on the screen. UV processing will stop. Press [Cancel] to close the pop-up.

15 To stop UV Processing, press the emergency stop button, or press the pause button if it is not on the standby screen.

To completely stop UV Processing, press the [] button (previous) and then click [Stop] in the pop-up window. UV Processing is stopped. Press [Cancel] to close the pop-up.



16 After UV processing is complete, click [OK].

17 To continue UV processing, move the robot to the next target space. To end UV processing, turn off the robot, attach and fasten the UV-C lamp protective covers and store the robot in a safe place.

Using Control App

Installing app

Install the control app on your mobile device. The control app is provided by the seller with the robot.

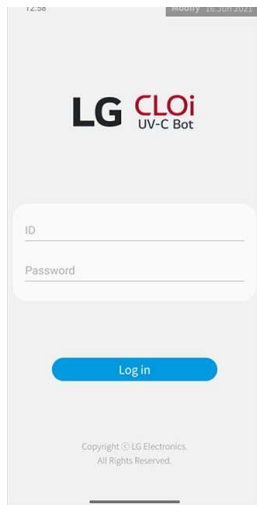
For information on installing the app, please contact the seller.

Initial setup of app

When using the app for the first time, check the terms and conditions and register the robot in the app.

4

Operation



- 1 Log in to the control app using the ID and password given by the administrator.

Note

Only administrators can assign IDs and passwords.

- 2 A notice on the access rights will appear. Read the notice and press [OK].

Note

Depending on the OS of the mobile device, the access rights notice may or may not appear.

For iOS, a message for allowing push notifications will appear. You may choose to (or not to) receive push notifications.

iOS pop-up message for allowing push notifications

{LG CLOi Cloud Station logo}

You must agree to the Terms and Conditions to use the service.

☐ Agree to all

☐ Terms and Conditions (Required) [View](#)
Description Text Text Text

☐ Privacy Policy (Required) [View](#)
Description Text Text Text

☐ Terms and Conditions for Using LG software (Required) [View](#)
Description Text Text Text

Next

- 3 Accept the terms and conditions and press [Next].

Note

If the robot is not registered in the app, the following message will appear.

Registered robots do not exist.
Tap the "+" button on the top-right to register a robot.

<Administrator>

Registered robots do not exist.
Contact your manager.

<General>

If you are logged in to the app as a manager, you can register the robot.

4

Operation

12:58 Modify 16 Jun 2021

LG CLOi
UV-C Bot

You must agree to the Terms and Conditions to use the service.

☐ Agree to all

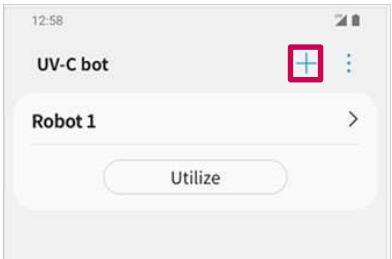
☒ Terms and Conditions(Required) [View](#)

☐ Software license agreement(Required) [View](#)

OK

Registering robot in app

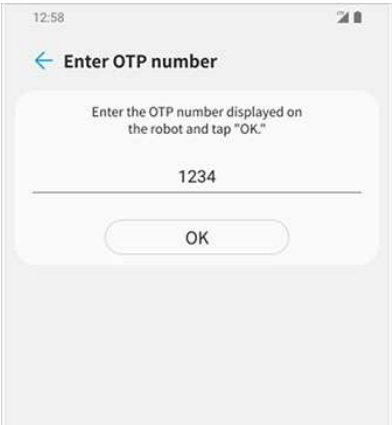
You can register and manage multiple robots on the control app.



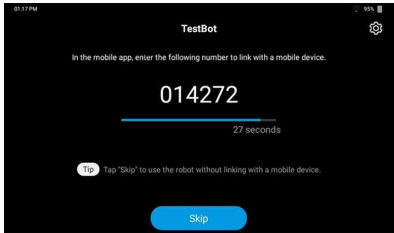
- 1 Press [+].
The OTP input screen will appear.

Note

Only administrators can register robots.

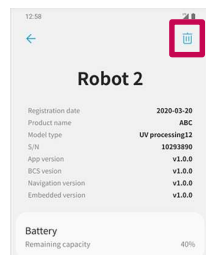
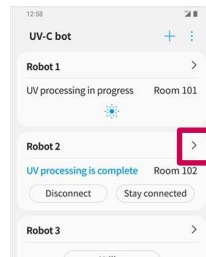


- 2 Turn on the robot you want to register, enter the OTP displayed on the robot screen into the app and press [OK]. The robot will be registered in the app.



Deleting registered robot from app

You can delete robots from the list of robots registered in the control app.



- 1 Press [>] for the robot you want to delete from the robot list.
The robot information screen will appear.

Note

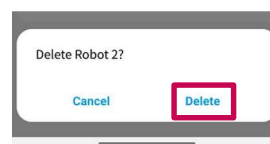
Only administrators can delete robots from the robot list.

- 2 Press []. A pop-up will appear for confirmation.

- 3 Press [Delete] on the pop-up window. The selected robot will disappear from the list.

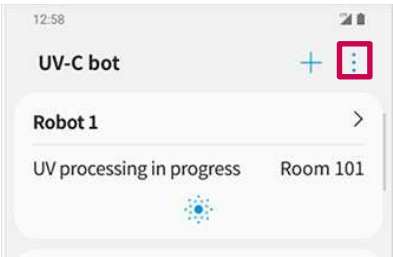
Note

To cancel, press [Cancel].



Managing app users

You can add or delete app users and edit user password.



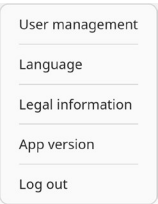
Adding app user

- 1 Press [⋮] (See More). A menu list will appear.

Note

Only administrators can manage app users.

- 2 Press [User Management]. The app user management screen will appear.



- 3 Press [+]. The user creation screen will appear.



- 4 Select a user type between [Manager] and [User].
When you select the user type, an ID is automatically generated.

Note

y IDs are automatically created according to the ID rule and the selected user type and cannot be modified.

y An ID can contain English and special characters as well as numbers.

y ID rule: Store name _Taget_Manager or user_N (e.g. CES_AA_Manager_1, CES_AA_User_2, ...)

- 5 Enter a password to use for the generated ID.

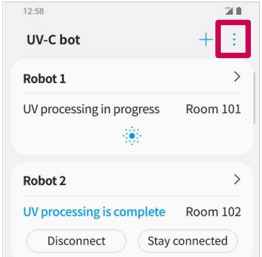
Note

y A password must contain at least 8 characters including at least three of the following types: English uppercase letters (26), English lowercase letters (26), numbers (10) and special characters (32).

- 6 Press [Save].
The ID will be created according to the settings.

Note

y To cancel, press [Cancel].



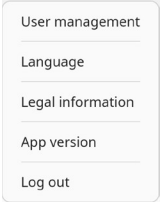
Deleting app user

- 1 Press [⋮] (See more). A menu list will appear.

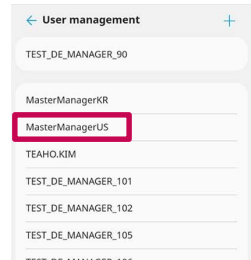
Note

Only administrators can manage app users.

- 2 Press [User Management].
The app user management screen will appear.



- 3 Press the ID of the user you want to delete from the user ID list.



- 4 Press [Delete]. A pop-up will appear for confirmation.

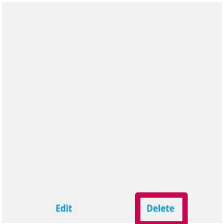
Note

The ID currently using the robot cannot be deleted.

- 5 Press [Delete].
The ID will be deleted.

Note

To cancel, press [Cancel].



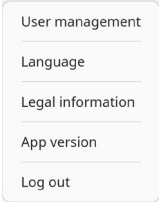
Editing user password

- 1 Press [] (See more). A menu list will appear.

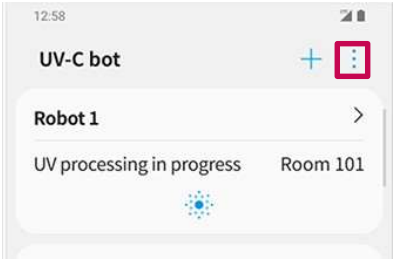
Note

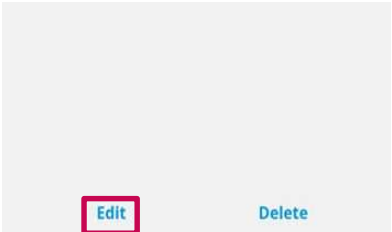
Only administrators can manage app users.

- 2 Press [User Management]. The app user management screen will appear.

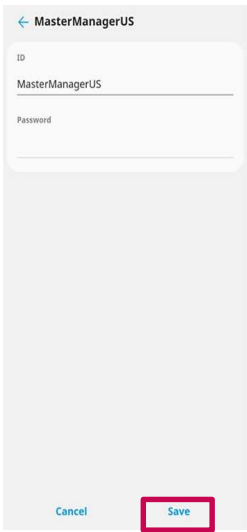


- 3 Press the ID of which the password you want to change.





4 Press [Edit]. A pop-up will appear for confirmation.



5 Enter a new password.

Note

A password must contain at least 8 characters including at least three of the following types: English uppercase letters (26), English lowercase letters (26), numbers (10) and special characters (32)

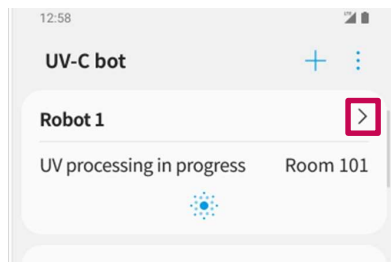
6 Press [Save].
The password will be changed.

Note

To cancel, press [Cancel].

Viewing information of robots registered in app

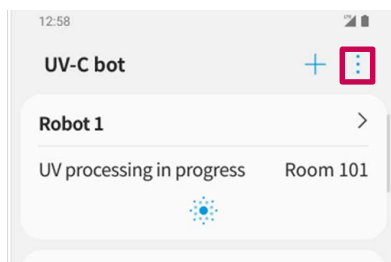
You can view various types of information of the robots registered in the control app such as their versions, S/N, battery levels and lamp use times.



From the robot list, press [] for the desired robot to view its information. The robot information screen will appear. You can view various types of information.

Note

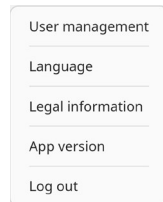
Only administrators can delete robots from the robot list.



Using See More menu

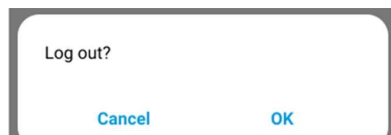
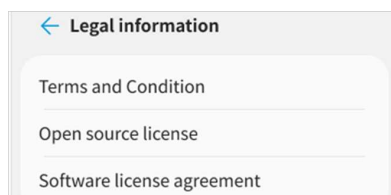
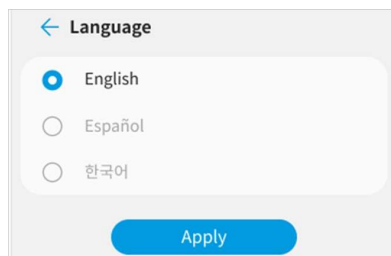
You can use this menu to select the app language, view legal information, check the app version or log out.

Press [] (See More). A menu list will appear.



Note

You can access [User Management] only if you are logged in as an administrator.



[Language]

Select the language for the app from [English], [Español] and [Korean].

[Legal Information]

View the legal information.

[App Version]

View the app version. If an updated version is available, you can upgrade the app.

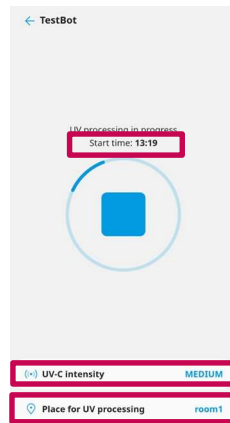
[Log out]

Log out of the app.

Checking robot movement and stopping the robot using an app

You can use a control app to check robot movement or stop the robot registered to the app.

4 Operation



Checking robot start time

You can check the start time for UV-C robot disinfection.

Checking the number of the room being disinfected

You can check the number of the room that the UV-C robot is disinfecting.

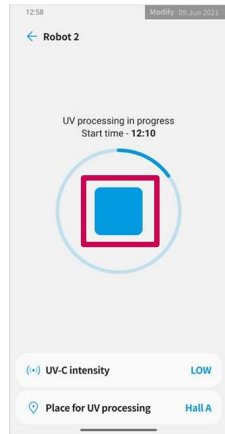
Checking the disinfection intensity

You can check the intensity of UV-C disinfection.

You can see [Normal] or [High] as disinfection intensity..

Note

You must use the control screen on the robot's body to start / resume UV processing. You cannot use the app for this.



Pausing UV processing

If you need to pause the robot during UV processing, press [■] (Pause). The robot will pause UV processing..

Stop UV processing completely?

No

Yes

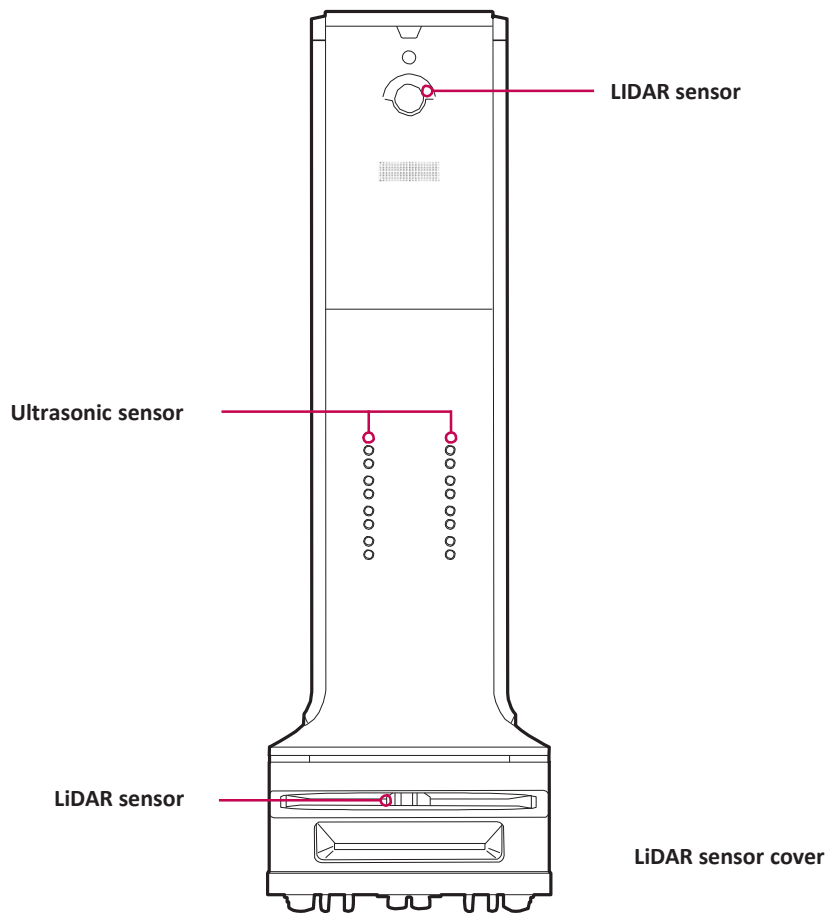
Cleaning Robot

If there are foreign matters on the robot's LCD screen, sensor or charging terminal, the robot may not operate properly.

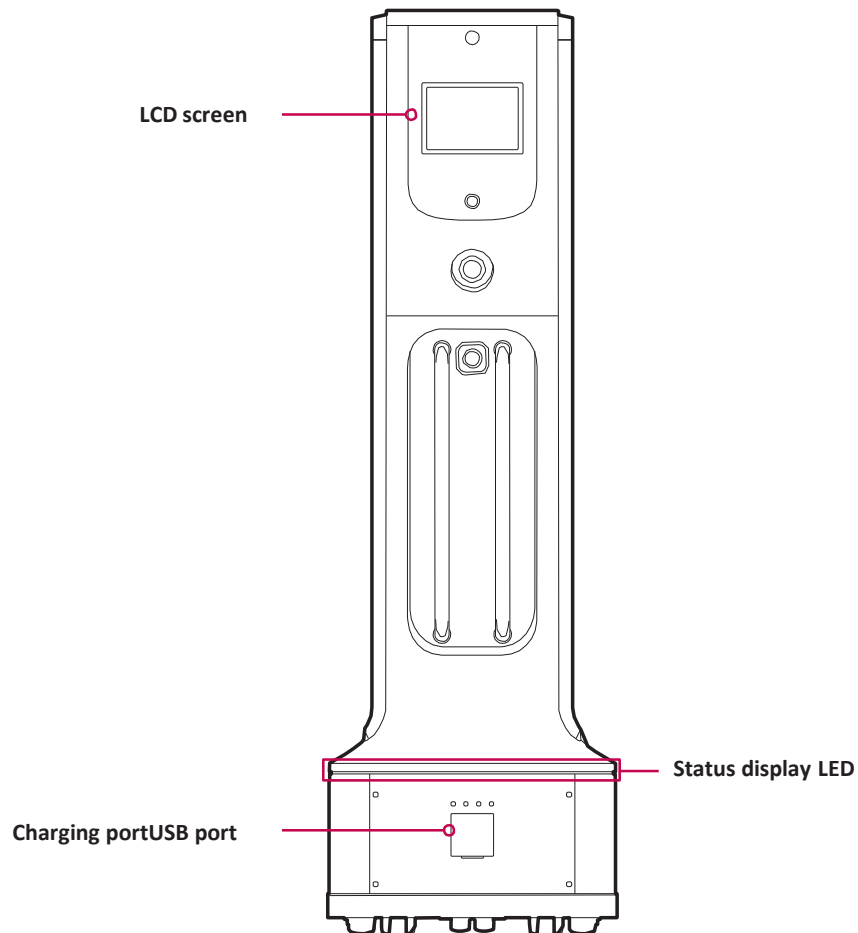
Spray the cleaner and wipe the LCD screen, sensor or charging terminal with a dry cloth.

Where to clean

Main body front



Main body rear



When cleaning robot

Use a soft, dry cloth to clean the product. If the surface is too dirty, use a little detergent or a soft wet cloth. Do not use strong chemicals such as alcohol, benzene and thinner as they may cause the product surface to deteriorate.

Keeping robot surface clean

- y Do not use volatile liquids such as pesticides.
- y Wiping the product surface hard can damage the product.
- y 장시간 동안 플라스틱 제품이나 고무 등이 제품에 닿지 않게 보관해 주세요.

Storing Robot

When storing the robot, check the following.

- y Check the storage space. Do not store the robot in the following places.
 - Place with excessively high or low temperature or humidity
 - Dusty place
- y If you are storing the robot for a long time, charge the battery periodically (every 6 months) to protect the battery.
- y Attach and fasten the UV-C lamp protection covers before storing the robot.
- y 장기 보관 시에는 배터리를 완전히 충전하고 배터리 스위치를 끈 후 보관하시고, 주기적(6개월)으로 충전해 주세요.

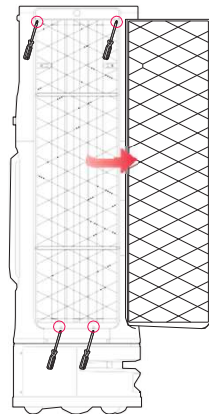
Replacing UV-C Lamp

The guaranteed use hours of the UV-C lamp is 4,000 hours.¹

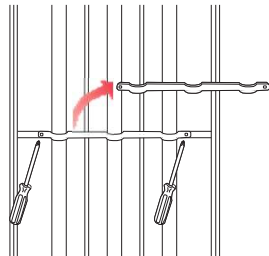
However, this is based on continuous use, and the actual life span of the lamp in the use environment may be different. It is recommended to replace the lamp every 1 to 1.5 years to maintain the illumination level necessary to secure UV processing power.

Replace the UV-C lamp according to the replacement cycle or when an error occurs.

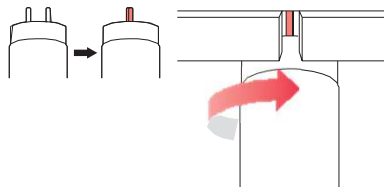
제품 규격에 명시된 램프(Philips TUV 36W/G36 T8) 로만 교체 바랍니다.



- 1 Remove the UV-C lamp protection net. Loosen the two fixing screws on each of the upper and lower parts of the UV-C lamp protection net.

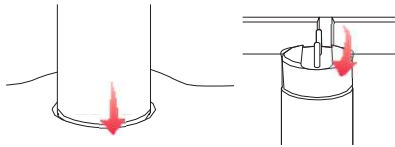


- 2 Remove the two fixing pins from the upper and lower parts of the UV-C lamp. Loosen the screws on the left and right of the pins fixing the UV-C lamp.

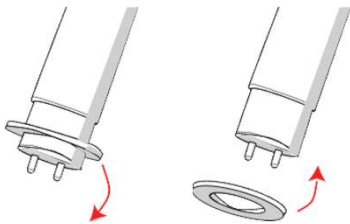


- 3 Turn the UV-C lamp to align the pins and the upper grooves.

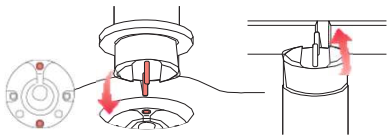
¹ 실사용 환경에 따라서 차이가 있을 수 있습니다.



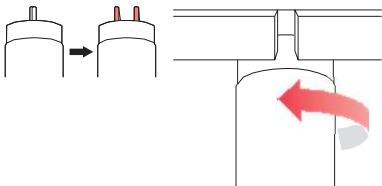
- 4 Press down on the lower part of the UV-C lamp, align the UV-C lamp pin with the upper groove, and then remove it.



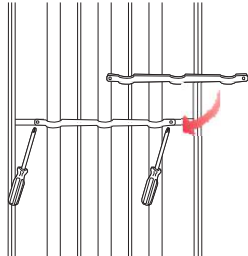
- 5 Remove the rubber ring and insert it into the UV-C lamp to be replaced.



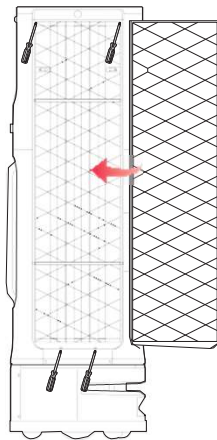
- 6 Fit a UV-C lamp pin into the groove on the lower connector and then the other one into the groove on the upper part of the UV-C lamp.



- 7 Turn the UV-C lamp to fix it.



- 8 Fix the UV-C lamp using the two fixing pins on the upper and the lower parts. Tighten the pins with screws.



- 9 Attach the UV-C lamp protection net and fix it with screws.

소프트웨어 업데이트

최신 소프트웨어 배포 시 업데이트가 진행됩니다.

소프트웨어 업데이트는 아래와 같은 조건이 만족되었을 때 자동으로 진행됩니다.

- 1 Wi-Fi 연결이 필요합니다.
- 2 충전 중이고, 배터리 잔량이 30% 이상이어야 합니다.

업데이트가 완료된 후에는 화면의 안내에 따라 로봇을 다시 시작해 주세요.

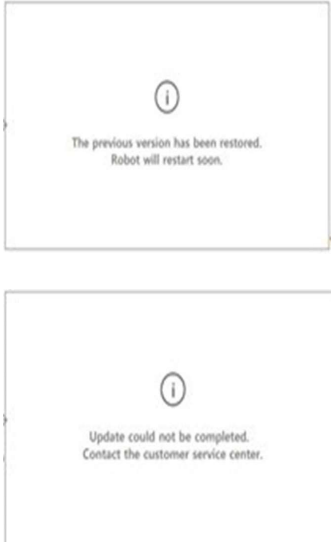
[주의]

- 업데이트 중에는 로봇을 끄거나 충전기를 분리하지 말아 주세요.

Emergency Situations and Measures

Emergency Message	Situation & Measures
Operation stopped due to an emergency. Please continue after the situation is cleared. Activate driving TIP 1. Turn the emergency stop button clockwise to resume the service. 2. Tap "Activate driving."	y The robot's emergency stop button is pressed. - Turn the red emergency stop button toward RESET to release it. - Press the Activate Travel button on the robot's LCD screen.
UV processing is not available at the moment. TIP If the robot must be manually moved, move the robot while pressing down the brake release button. 1. Turn off the robot and wait for 10 seconds. 2. Then, turn it on and see if it is operating properly. 3. Contact the customer service center if the problem persists.	
Title TIP 1. If the robot is being charged, manually disconnect the robot from the charging cable. 2. Turn off the robot, wait for 10 minutes before turning it back on, and then check the robot for proper operation. 3. If the problem persists, contact the customer service center.	y The robot is unable to drive due to a problem in itself. - After moving the robot to a safe place according to the on-screen guide, turn off the robot's power and turn it on again after 10 minutes to check normal operation. If the problem persists, please contact the service center.

Emergency Message	Situation & Measures						
Title 1. If the robot is being charged, manually disconnect the robot from the charging cable. 2. Turn off the robot, wait for 10 minutes before turning it back on, and then check the robot for proper operation. 3. If the problem persists, contact the customer service center. 	y Unable to charge due to a problem with the battery 1. When charging, disconnect the robot from the power cable first. 2. If it's not a battery temperature issue, Turn off the battery switch, then turn it on again after 10 minutes. 3. If the problem persists, contact customer service.						
Title 1. If the robot is being charged, manually disconnect the robot from the charging cable. 2. Turn off the robot, wait for 10 minutes before turning it back on, and then check the robot for proper operation. 3. If the problem persists, contact the customer service center.  <table><thead><tr><th>Status</th><th>Title</th></tr></thead><tbody><tr><td>Charger error</td><td>Check the charger for proper connection.</td></tr><tr><td>BMS Error</td><td>Proper operation is not available due to battery fault.</td></tr></tbody></table>	Status	Title	Charger error	Check the charger for proper connection.	BMS Error	Proper operation is not available due to battery fault.	y Charging failed due to a problem with the battery 1. When charging, disconnect the robot from the power cable first. 2. Turn off the battery switch, then turn it on again after 10 seconds. 3. If the problem persists, contact customer service.
Status	Title						
Charger error	Check the charger for proper connection.						
BMS Error	Proper operation is not available due to battery fault.						

Emergency Message	Situation & Measures
	y Charging failed due to some other problem 1. When charging, disconnect the robot from the power cable first. 2. Turn off the power switch and turn it on after 10 seconds to see if it works normally. 3. If the problem persists, contact customer service.
	y The robot's software update failed. - The previous version has been restored. Robot will restart soon - If restoration is failed, Contact the customer service center.

Troubleshooting

Before reporting a malfunction, check the following.

Symptom	Cause & Solution
If the product does not operate normally	- Turn the device on and off again. - Check the battery level of this device. If the battery is discharged, charge it before use.
If the power cannot be turned on	- Check the battery level of this device. If the battery is discharged, charge it before use. - Check the power switch of the device. If the switch is off, turn it on.
If the device cannot be charged	- Check the power cable of the charger. If the cable is not connect well, reconnect and start charging again. - Check the connection and response of the charging terminal and recharge the robot manually.
If robot does not travel at all	- Make sure the Emergency stop button is pressed. Release the Emergency stop button by turning right or pulling it, press the driving activation button on the screen, and then start driving again. - Check if there are any obstacles around, and if there is any, remove all.
If the robot travels abnormally	Wipe off foreign matters on the Ultrasonic sensor, LiDAR.
Robot was left without charging for a long time	Charge it first and then turn it on. If the robot still does not turn on, please refer to the below guide. 
If door sensor does not detect door open	- Turn the sensor on and off again. - Check the battery level of the sensor. If the battery is discharged, charge it before use.
If door sensor does not turned on	Check the battery level of the sensor. If the battery is discharged, charge it before use.
If pairing with door sensor is not possible	Check the setting in the user settings mode and re-pairing again.
If door sensor dose not charge	- Check the connection of charging cable with the sensor. If it is not connect well, reconnect and charging again. - Check whether the charger is 5V USB Charger.

Product Specifications

Robot

Item		Specifications
Model		LG CLOi UV-C Bot
Basic specifications	Dimensions (W x L x H)	51 x 53 x 161 cm
	Weight	75 kg
	Lamp	Philips TUV 36W/ G36 T8
	Lamp operating voltage	103 V
	Lamp operating current	0.44 A
	Lamp operating power	36 W
	Maximum speed	5 cm/s
	Operation voltage	DC 25 V
	Speaker output	< 6 W
Battery	Capacity	69Ah(MIN)
	Rated voltage	DC 25 V
	Continuous driving	About 6 hours
	Battery type	Rechargeable lithium battery
	Number of battery cells	56 (7S8P)
	Cell manufacturer	LG Chem
	Charging time	About 5 hours 30 minutes
	Charging method	Manual charging
Driving environment	Basic use	For indoors
	Floor material	Carpet, marble, wood, tile
	Maximum projection/(cliff) height for driving	2 cm/10 cm
	Illumination (Min - Max)	20 – 2000 lx
	Operation temperature (Min - Max)	0°C - 40°C (32°F - 104°F)
	Operating humidity (Max)	Relative humidity 85 %
Storage environment	Storage temperature (Min - Max)	-20 °C – 40 °C (-4 °F – 104 °F)
	Storage humidity (Max)	Relative humidity 85 %

Charger

Feature	Specifications
Power input	AC 100~240 V 50/60 Hz, 8 A Max.
Output power	28.8 VDC, 16.0 A
Operation temperature	0 ~ 35 °C (32 °F – 95 °F)
Dimensions	135 x 268 x 64 mm (W x D x H)
Weight	2.85 kg

WARNING – RISK OF PERSONAL INJURY

THIS EQUIPMENT IS DESIGNED FOR USE WITH GERMICIDAL LAMPS OR UV SOURCES AND MUST BE INSTALLED IN COMPLIANCE WITH COMPETENT TECHNICAL DIRECTIONS TO PREVENT THE USER'S EYE AND BARE SKIN FROM EXPOSURE TO HARMFUL UV OR OPTICAL RADIATION. DO NOT USE THIS EQUIPMENT IN A DWELLING.

EYE DAMAGE MAY RESULT FROM DIRECTLY VIEWING THE LIGHT PRODUCED BY THE LAMP IN THIS EQUIPMENT. ALWAYS TURN OFF LAMP BEFORE SERVICING. USE ONLY (TUV 3007 / 30107) LAMPS.



RISK GROUP 3

WARNING UV emitted from this product. Avoid eye and skin exposure to unshielded product.

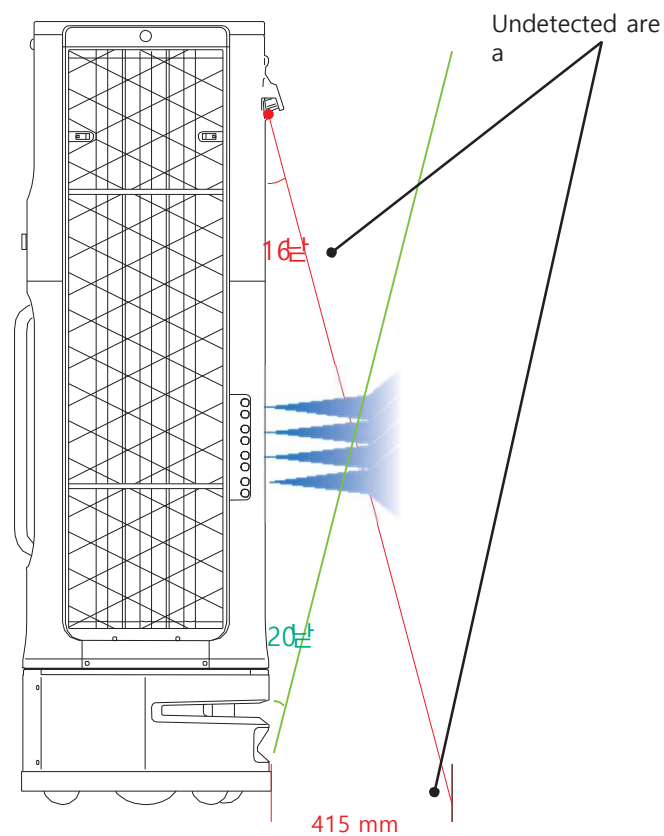
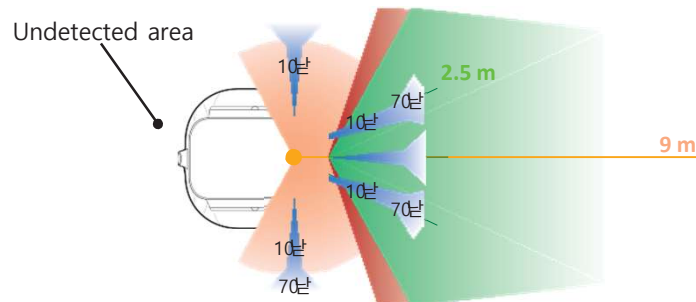
Exposure to UV-C (ultraviolet-C) can cause serious skin and eye damage. Do not expose your skin to UV-C and never look towards the source of UV-C light.

During UV processing, please control the space so that people and animals cannot access it, and operate only when people and animals do not enter.”

“Please use it by experienced workers who are fully aware of the risk of UV-C.”

About Sensor's Undetectable Range

The robot ensures safety of operation by checking the surrounding with its sensor. However, the sensor has dead angles and undetectable ranges depending on the robot's position. This could be a cause of collision or overturn.



LIMITED WARRANTY – USA
LG CLOi UV-C Bot RDIIM10 (“Product”)

ARBITRATION NOTICE: THIS LIMITED WARRANTY CONTAINS AN ARBITRATION PROVISION THAT REQUIRES YOU AND LG ELECTRONICS (“LG”) TO RESOLVE DISPUTES BY BINDING ARBITRATION INSTEAD OF IN COURT, UNLESS YOU CHOOSE TO OPT OUT. IN ARBITRATION, CLASS ACTIONS AND JURY TRIALS ARE NOT PERMITTED. PLEASE SEE THE SECTION TITLED “PROCEDURE FOR RESOLVING DISPUTES” BELOW.

Should your LG Product fail due to a defect in materials or workmanship under normal and proper use, during the warranty period set forth below, LG will, at its sole discretion, repair or replace the Product. This limited warranty is valid only to the original retail purchaser of the Product and applies only when lawfully purchased and used within the United States including U.S. Territories.

WARRANTY PERIOD	How Service is handled
One (1) year parts* and labor costs from the date of the original retail purchase. *Internal and functional parts only.	Please call (888) 865-3026 for instructions on obtaining Warranty Service for your Product. 1 Retain a copy of your proof of purchase to validate your warranty. 2 Have your model and serial number available.

- y Replacement Products and parts are warranted for the remaining portion of the original warranty period or ninety (90) days, whichever is greater.
- y Replacement Products and parts may be new, reconditioned, refurbished, or otherwise factory remanufactured or authorized.
- y Any replaced Product and/or parts will be the property of LG.

EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THE PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THE ABOVE LIMITED WARRANTY. UNDER NO CIRCUMSTANCES SHALL LG OR ITS U.S. DISTRIBUTORS/DEALERS BE LIABLE FOR ANY INDIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL, OR PUNITIVE DAMAGES, INCLUDING, WITHOUT LIMITATION, LOST GOOD WILL, LOST REVENUES OR PROFITS, WORK STOPPAGE, IMPAIRMENT OF OTHER GOODS, COST OF REMOVAL AND REINSTALLATION OF THE PRODUCT, LOSS OF USE, OR ANY OTHER DAMAGES WHETHER BASED IN CONTRACT, TORT, OR OTHERWISE. LG’S TOTAL LIABILITY, IF ANY, SHALL NOT EXCEED THE PURCHASE PRICE PAID BY YOU FOR THE PRODUCT.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE EXCLUSIONS OR LIMITATIONS MAY NOT APPLY TO YOU. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE.

THIS LIMITED WARRANTY DOES NOT COVER:

- y Service trips to deliver, pick up, install, educate how to operate, correct wiring, or correct unauthorized repairs. Costs and expenses associated with removal and reinstallation of your Product for repairs.
- y Damage or failure of the Product to perform during power failures and interrupted or inadequate electrical service.
- y Damage or failure of the Product resulting from operating the product in a corrosive atmosphere, or abnormal conditions where the temperature or humidity is not adequately controlled.
- y Damage or failure of the Product caused by accidents, pests and vermin, lightning, wind, fire, floods, acts of nature, or any other causes beyond the control of LG.
- y Damage or failure of the Product caused by unauthorized modification or alteration to Product, incorporation into any other product or system component, including "rooting" or other modifications to control the behavior of Product or its operating system.
- y Damage or failure of the Product caused by incorrect electrical current or voltage (including power surge), power failures, interruptions or inadequate electrical service, including incorrect or insufficient AC supply.
- y Damage or failure of the Product caused by transportation and handling, including scratches, dents, chips, and/or other damage to the finish of the Product, unless such damage is reported within one (1) week of delivery (Call: 1-888-865-3026).
- y Damage or failure resulting from misuse, abuse, improper installation, improper repair, or improper maintenance. Improper repair includes use of parts not authorized by LG. Improper installation or maintenance includes installation or maintenance contrary to the Product owner's manual.
- y Damage or failure of your Product caused by the use of detergents, cleaners, chemicals or tools other than those recommended in instructions supplied with this Product.
- y Damage or failure of the Product arising from use other than the normal and proper use as specified in the Owner's Manual.
- y Increases in utility costs and additional utility expenses.
- y Refurbished Product or any Product sold "As Is", "Where Is", "With all Faults", or similar disclaimer.
- y Products with original serial numbers that have been removed, altered, or cannot be readily determined.
- y Damage or missing items to any display, open box, or discounted Product.
- y Any noises associated with normal operation.
- y Any consumable parts or accessories.
- y Minor imperfections that do not materially alter or affect functionality.

The cost of repair or replacement in these excluded circumstances shall be borne by consumer.

TO OBTAIN WARRANTY SERVICE AND ADDITIONAL INFORMATION:

Call 888-865-3026 and select the appropriate option from the menu, or visit our [website at https://www.lg.com/us/business](https://www.lg.com/us/business)

Or by mail: LG Electronics Alabama, Inc. Attn: B2B Support
P.O. Box 240007, 201 James Record Road, Huntsville, AL 35824.

PROCEDURE FOR RESOLVING DISPUTES:

ALL DISPUTES BETWEEN YOU AND LG ARISING OUT OF OR RELATING IN ANY WAY TO THIS LIMITED WARRANTY OR THE PRODUCT SHALL BE RESOLVED EXCLUSIVELY THROUGH BINDING ARBITRATION, AND NOT IN A COURT OF GENERAL JURISDICTION. BINDING ARBITRATION MEANS THAT YOU AND LG ARE EACH WAIVING THE RIGHT TO A JURY TRIAL AND TO BRING OR PARTICIPATE IN A CLASS ACTION.

Definitions. For the purposes of this section, references to "LG" mean LG Electronics U.S.A., Inc., its parents, subsidiaries and affiliates, and each of their officers, directors, employees, agents, beneficiaries, predecessors in interest, successors, assigns and suppliers; references to "dispute" or "claim" shall include any dispute, claim or controversy of any kind whatsoever (whether based in contract, tort, statute, regulation, ordinance, fraud, misrepresentation or any other legal or equitable theory) arising out of or relating in any way to the sale, condition or performance of the product or this Limited Warranty.

Notice of Dispute. In the event you intend to commence an arbitration proceeding, you must first notify LG in writing at least 30 days in advance of initiating the arbitration by sending a letter to LG at LG Electronics U.S.A., Inc. Attn: Legal Department- Arbitration 111 Sylvan Ave, Englewood Cliffs 07632. You and LG agree to engage in good faith discussions in an attempt to amicably resolve your claim. The notice must provide your name, address, and telephone number; identify the product that is the subject of the claim; and describe the nature of the claim and the relief being sought. If you and LG are unable to resolve the dispute within 30 days, either party may proceed to file a claim for arbitration.

Agreement to Binding Arbitration and Class Action Waiver. Upon failure to resolve the dispute during the 30 day period after sending written notice to LG, you and LG agree to resolve any claims between us only by binding arbitration on an individual basis, unless you opt out as provided below. Any dispute between you and LG shall not be combined or consolidated with a dispute involving any other person's or entity's product or claim. More specifically, without limitation of the foregoing, any dispute between you and LG shall not under any circumstances proceed as part of a class or representative action. Instead of arbitration, either party may bring an individual action in small claims court, but that small claims court action may not be brought on a class or representative basis.

Arbitration Rules and Procedures. To begin arbitration of a claim, either you or LG must make a written demand for arbitration. The arbitration will be administered by the American Arbitration Association ("AAA") and will be conducted before a single arbitrator under the AAA's Consumer Arbitration Rules that are in effect at the time the arbitration is initiated (referred to as the "AAA Rules") and under the procedures set forth in this [section. The AAA Rules are available online at www.adr.org/consumer](#). Send a copy of your written demand for arbitration, as well as a copy of this provision, to the AAA in the manner described in the AAA Rules. You must also send a copy of your written demand to LG at LG Electronics, USA, Inc. Attn: Legal Department- Arbitration 111 Sylvan Avenue Englewood Cliffs, NJ 07632. If there is a conflict between the AAA Rules and the rules set forth in this section, the rules set forth in this section will govern.

This arbitration provision is governed by the Federal Arbitration Act. Judgment may be entered on the arbitrator's award in any court of competent jurisdiction. All issues are for the arbitrator to decide, except that issues relating to the scope and enforceability of the arbitration provision and to the arbitrability of the dispute are for the court to decide. The arbitrator is bound by the terms of this provision.

Governing Law. The law of the state of your residence shall govern this Limited Warranty and any disputes between us except to the extent that such law is preempted by or inconsistent with applicable federal law.

Fees/Costs. You do not need to pay any fee to begin an arbitration. Upon receipt of your written demand for arbitration, LG will promptly pay all arbitration filing fees to the AAA unless you seek more than \$25,000 in damages, in which case the payment of these fees will be governed by the AAA Rules. Except as otherwise provided for herein, LG will pay all AAA filing, administration and arbitrator fees for any arbitration initiated in accordance with the AAA Rules and this arbitration provision. If you prevail in the arbitration, LG will pay your attorneys' fees and expenses as long as they are reasonable, by considering factors including, but not limited to, the purchase amount and claim amount. Notwithstanding the foregoing, if applicable law allows for an award of reasonable attorneys' fees and expenses, an arbitrator can award them to the same extent that a court would. If the arbitrator finds either the substance of your claim or the relief sought in the demand is frivolous or brought for an improper purpose (as measured by the standards set forth in Federal Rule of Civil Procedure 11(b)), then the payment of all arbitration fees will be governed by the AAA Rules. In such a situation, you agree to reimburse LG for all monies previously disbursed by it that are otherwise your obligation to pay under the AAA Rules. Except as otherwise provided for, LG waives any rights it may have to seek attorneys' fees and expenses from you if LG prevails in the arbitration.

Hearings and Location. If your claim is for \$25,000 or less, you may choose to have the arbitration conducted solely on the basis of (1) documents submitted to the arbitrator,

(2) through a telephonic hearing, or (3) by an in-person hearing as established by the AAA Rules. If your claim exceeds \$25,000, the right to a hearing will be determined by the AAA Rules. Any in-person arbitration hearings will be held at a location within the federal judicial district in which you reside unless we both agree to another location or we agree to a telephonic arbitration.

Opt Out. You may opt out of this dispute resolution procedure. If you opt out, neither you nor LG can require the other to participate in an arbitration proceeding. To opt out, you must send notice to LG no later than 30 calendar days from the date of the first consumer purchaser's purchase of the product by either: (i) sending an e-mail to optout@lge.com, with the subject line: "Arbitration Opt Out" or (ii) calling 1-833-660- 0245. You must include in the opt out e-mail or provide by telephone: (a) your name and address; (b) the date on which the product was purchased; (c) the product model name or model number; and (d) the serial number (the serial number can be found (i) on [the product](#); or (ii) [online by accessing https://www.lg.com/us/support/repair-service/](https://www.lg.com/us/support/repair-service/) schedule-repair continued and clicking on "Find My Model & Serial Number").

You may only opt out of the dispute resolution procedure in the manner described above (that is, by e-mail or telephone); no other form of notice will be effective to opt out of this dispute resolution procedure. Opting out of this dispute resolution procedure will not affect the coverage of the Limited Warranty in any way, and you will continue to enjoy the full benefits of the Limited Warranty. If you keep this product and do not opt out, then you accept all terms and conditions of the arbitration provision described above..

FCC NOTICE

Federal Communications Commission (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.

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

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 Radio Frequency Interference Requirements

High power radars are allocated as primary users of the 5.25 to 5.35GHz and 5.65 to 5.85GHz bands. These radar stations can cause interference with and/or damage this device. This device cannot be co-located with any other transmitter.

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 with minimum distance 20 cm (7.8 inches) between the antenna & your body. Users must follow the specific operating instructions for satisfying RF exposure compliance.

Supplier's Declaration of Conformity

Trade Name	LG
Responsible Party	LG Electronics USA, Inc.
Address	111 Sylvan Avenue, North Building, Englewood Cliffs, NJ 07632
E-mail	lg.environmental@lge.com

Disposal of the old appliance



1. This crossed-out wheeled bin symbol indicates that waste electrical and electronic products (WEEE) should be disposed of separately from the municipal waste stream.
2. Old electrical products can contain hazardous substances so correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health. Your old appliance may contain reusable parts that could be used to repair other products, and other valuable materials that can be recycled to conserve limited resources.
3. You can take your appliance either to the shop where you purchased the product, or contact your local government waste office for details of your nearest authorised WEEE collection point. For the most up to date information for your country please see www.lg.com/global/recycling.

Disposal of the UV-C Lamp

The EPA recommends that lamps that contain mercury go to a local recycling center and dispose of them. Please check the state's disposal requirements for mercury-containing lamps at the following site and dispose of them.

[EPA Recommendations and State Regulations :https://www.epa.gov/cfl/recycling-and-disposal-cfls-and- other-bulbs-contain-mercury](https://www.epa.gov/cfl/recycling-and-disposal-cfls-and-other-bulbs-contain-mercury)

FDA Disclaimer

- LGE's robot is not intended to process medical devices and medical equipment surfaces.
- LGE's robot is a self-contained, open chamber UV radiation disinfection device that is intended to be used for whole room disinfection in a healthcare environment

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

Laser Safety Statement

FDA Notice

Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019. Caution! This product employs a laser system. To ensure proper use of this product, please read this owner's manual carefully and retain for future reference. Should the unit require maintenance, contact a LG Authorized Service Center. Use of controls, adjustments, or the performance of procedures other than those specified herein may result in hazardous radiation exposure. To prevent direct exposure to laser beam, do not try to open the enclosure or make direct contact with the laser.

