



Anti-Bacterial Deodorizer  
MXAP-AE400

PA1676-02EN

Instruction Manual

Thank you for purchasing this MAXELL product. Before use, make sure to read this Instruction Manual and use the product correctly and safely.

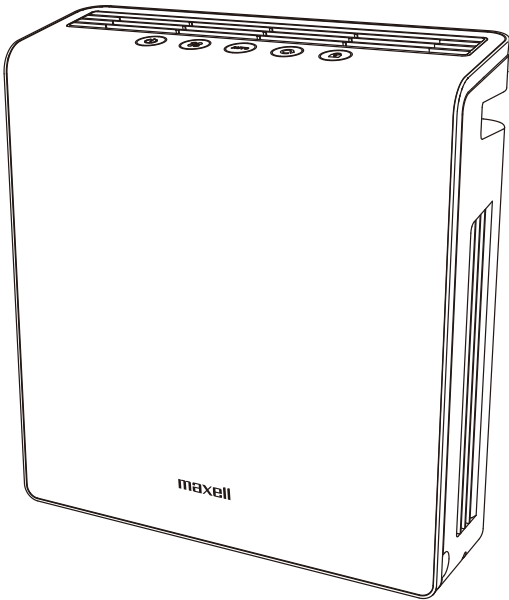


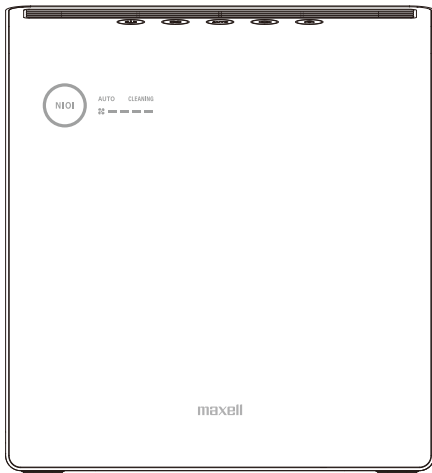
Table of contents

1	Introduction .....	2
2	Safety precautions .....	3
3	Name of each part .....	6
4	How to use .....	8
5	Maintenance .....	12
6	Troubleshooting .....	13
7	Specifications .....	14

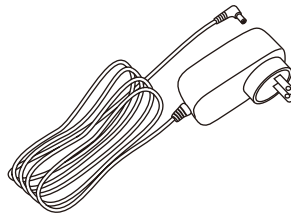
This product is for use in Japan only.

The illustrations used in the instruction manual (this document) may differ from the actual product.

# Contents of the package



Main Unit ×1



AC Power Adapter × 1

User Manual  
(This  
Document)

## 1 Introduction

### About the user manual



- This Instruction Manual may be subject to change without prior notice.
- In order to improve the product, the appearance or part of the specifications may be subject to change without prior notice.
- Unauthorized duplication of all or part of this Instruction Manual without permission is prohibited, except for the case of personal use. In addition, do not reprint this Instruction Manual without permission.

### Disclaimer (See the warranty certificate for details of the warranty.)

- Maxell shall not be responsible for any damage caused by fires, earthquakes, action of a third party, any accidents, intended or unintended misuse or other usage under abnormal conditions.
- The warranty stated in the warranty certificate is all we warrant, and we do not warrant anything except for this warranty including express warranty and implied warranty.
- Maxell shall not be responsible for failure due to any damage caused by usage other than described in the instruction manual.
- Maxell shall not be responsible for damage caused by malfunction due to combination with connected equipment.
- This product is not being designed to be any equipment or device which could be concerned with human life such as medical device, nuclear device, astronomical device, transportation device etc., nor equipment or devices which requires high reliability. In case this product is used for the above equipment and/ or systems, Maxell do not responsible for any injuries or fire accident cause by the failure of this product.

# 2 Safety Caution




Please strictly follow

	<b>Warning</b> If it is handled incorrectly, it is assumed that the user may suffer death or serious injury* <sup>1</sup>
	<b>Caution</b> If it is handled incorrectly, it is assumed that the user may suffer minor injury* <sup>2</sup> or there is a possibility that property damage* <sup>3</sup> may occur

\*1: Severe injury is indicated by those that have after effects such as blindness, injury, burns (high temperature/low temperature/chemical), electric shock, fracture, poisoning, etc. and those requiring hospitalization or long-term regular hospital visits for treatment.

\*2: Minor injury refers to hurt, burnt, electric shock, etc. which do not result in hospitalization or long-term follow-up consultation.

\*3: Property damage refers broad damages to houses or properties and domestic animals/ pets.

KEY		△ stands for caution to fire, explosion, high temperature when handling the product. Details will be illustrated inside the symbol. (e.g. △ Electric shock)
		⊘ stands for prohibited actions when handling the product. Details will be illustrated inside or next to the symbol or with written description next to it. (e.g. ⊘ Do not decompose)
		● stands for instruction which must be followed. Details will be illustrated inside or next to the symbol or with written description next to it. (e.g. ● Remove plug from socket)

## WARNING

- Do not use the product in a place where a ventilation system is not available.
- The coverage area of this product is about 10-30 tatami (~16.5-49.5m<sup>2</sup>). Check the size of the room to be used before installing. Do not use in a space less than the specified coverage area. If used in an improper environment, it may cause harm to humans and pets and damage to property.
- When using or storing the product, keep it out of the reach of children. Otherwise, electric shock or injury may occur.
- When using the product in an environment where a small animal may live, pay special attention to the condition of the small animal.
- Note that items that rust easily and natural rubber will easily deteriorate if they are exposed to ozone.
- When concerned about an ozone-specific odor or feeling any change in physical condition such as a headache during use, stop using of the product and ventilate the room. Also, consult a doctor.
- A person having an existing medical condition such as asthma should consult a doctor before use.
- Use at least 30cm away from the air outlet. (Do not place anything within 30 cm of the air outlet.)
- Do not use in places where there is oily smoke, flammable gas or metallic dust. It may cause ignition or smoke.

## WARNING

### Abnormality / Malfunction

- **Stop using immediately and disconnect the power plug from the outlet**

If this product emits smoke, unusual an odor, unusual sound, or water or a foreign object enters inside, please stop using immediately and disconnect the AC adapter. Continued use may cause smoke, ignition, fire, electric shock, etc.



### Main unit and AC adapter

- Do not repair, modify or disassemble.  
It may cause fire, electric shock or injury.



---

- **Keep dry**

Do not wet these parts with water or pour water on them. Otherwise, electric shock, fire or failure may occur.



---

- **If dropped or damaged, please stop using immediately**

Continued use may cause overheating, ignition, electric shock, fire or injury.



---

- **Use and store it out of reach of children**

It may cause electric shock or injury.

---

- **Do not put into a fire**

Do not throw into a fire or heat them. Otherwise, fire, heat generation, breakage, or injury may occur.

---

- **Do not place it in refrigerator**

It may cause failure.



---

- **Do not place in cooking appliances such as microwave ovens or high-pressure containers**

It may cause smoke, heat, or ignition.

---

- **Do not use with wet hands**

Otherwise, overheat, electric shock or malfunction may occur.



---

## Main body

- **Do not use power supply other than the provided AC adapter**

Using other power supply may cause overheating, ignition, malfunction or injury.

- **Do not put fingers or foreign objects (metal, etc.) into the air outlet or air inlet**

It may cause electric shock or injury.



- **Do not put drinking water, tobacco ash or flammable materials into the product from the air outlet or air inlet**

It may cause electric shock or fire.

- **Do not cover the air outlet and air inlet with hands or any objects.**

It may cause electric shock or malfunction.

---

## AC Adapter

- **Do not use at a voltage other than the rated power supply voltage**

It may cause electric shock or fire. The input voltage of the AC adapter of this product is AC100V ~ 240V.

- **Do not use with loose power socket**

When the AC adapter is plugged in, do not use with a loose power socket. It may cause fire or electric shock.

- **Do not cover the AC adapter with a cloth or cover**

Overheating may deform the case, causing a fire or electric shock.



- **Do not use a damaged AC adapter**

It may cause electric shock or fire.

- **Do not remove the AC adapter from the power socket side**

The AC adapter is designed to be removable from the power socket side. However, please do not remove it. It may cause electric shock or fire.

---

- **Make sure the AC adapter is fully inserted**

If it is not fully inserted, it may cause electric shock or fire.



---

## Installation/ Operation

- **Do not use in places where are not ventilated**
  - **Do not use in spaces smaller than the coverage area**
  - **Do not place anything within 30cm from the air outlet**  
The product is used in the improper environment, it may cause harm to humans, pets and damage to property.
  - **Do not use in places where there is oily smoke, flammable gas or metallic dust**  
It may cause ignition or smoke.
- 
- **Do not use the product in humid places.**  
Do not use in the bathroom, seashore, waterside or outdoors. Moreover, please do not using in a room where a humidifier is operating excessively. Doing so may cause fire or electric shock.
  - **Do not use in places where water may splash the product**  
It may cause fire or electric shock.
- 



## Maintenance

- **Be sure to turn off the power switch on the bottom and unplug the AC adapter when cleaning**  
It may cause electric shock or fire.
- 
- **Remove dust from the AC adapter regularly**  
Remove dust and dirt regularly.  
Moisture may cause insulation failure and cause a fire.
  - **Be sure to disconnect the AC adapter when not in use for a long period of time**  
It may result in electric shock or electric leakage fire due to insulation deterioration.



## CAUTION

- **Do not place in direct sunlight or places with abnormally high temperatures**  
This may cause deterioration of the device surface and parts and may also cause a fire. Do not place the product in a closed vehicle, in direct sunlight or near a heater such as a stove.
- **Do not place in an unstable place**  
Do not place the product on a unstable table or on an inclined surface.  
It may drop or fall, resulting in injury or malfunction.
- **Do not place in a humid or dusty place**  
Do not place near a bathroom, humidifier or worktop, or in other dusty places.  
Doing so may cause electric shock or fire.
- **Do not place near a TV or radio**  
Image distortion or noise may occur.
- **If condensation occurs on this product, do not turn on the power**  
Sudden changes in ambient temperature may cause condensation inside the product.  
If condensation occurs, leave the unit for a while without turning on the power.
- **When moving or carrying the product, please must hold the handle**  
If you hold the product without using the handle, the product body may be damaged, fall or cause unexpected injury.



---

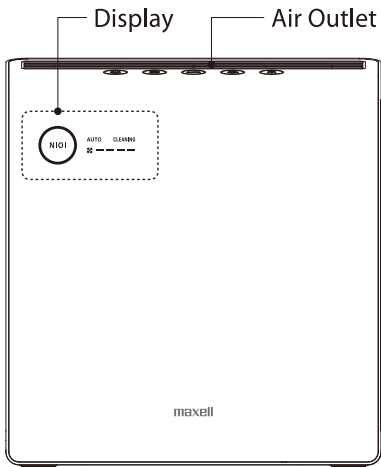
## Cleaning

- **Do not use chemicals**  
Do not wipe the main unit with benzene, thinner, alcohol etc.  
Also, do not use contact cleaner. The product surface may deteriorate, and the parts may melt.

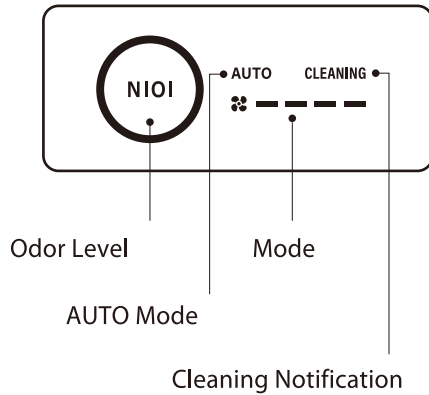


### 3 Name of each part

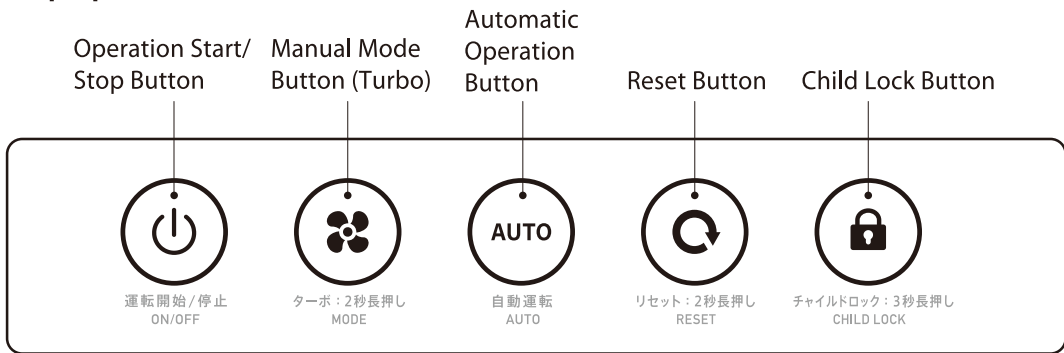
[ Front ]



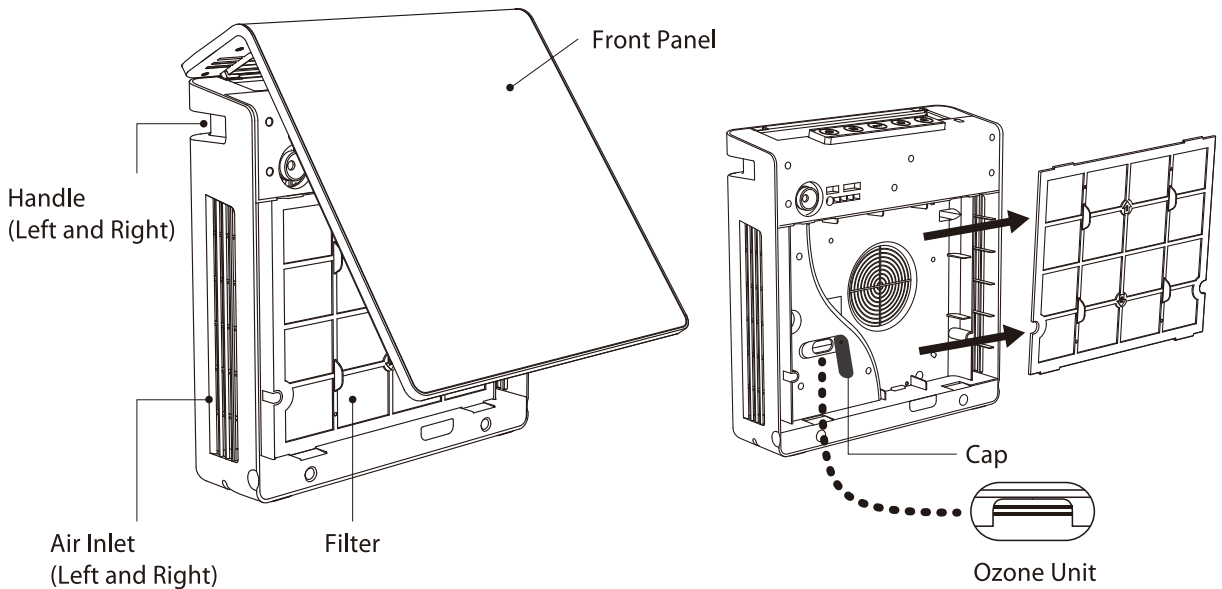
[ Display ]



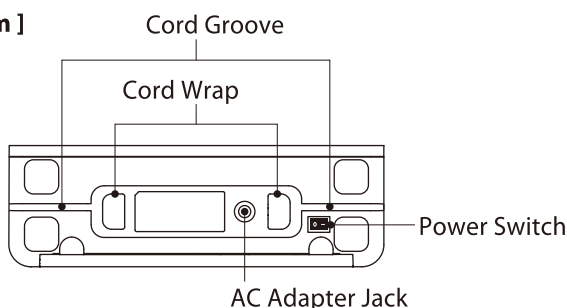
[ Top/Operation Panel ]



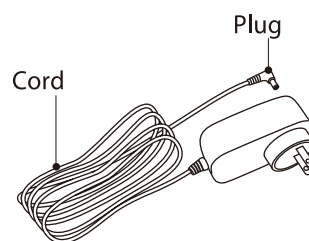
[ Side ]



**[ Bottom ]**



**[ AC Adapter ]**



**Caution**

The AC adapter is designed to be removable from the power socket side. However, please do not remove it. Doing so may cause electric shock or fire.

**[ Installation conditions for use ]**

When using this product, please setup by the assigned administrator and operate correctly.

**[ Coverage area ]**

Mode		Coverage area
Manual Mode	Mode 1	10 tatami (~16.5m <sup>2</sup> ) <sup>※1</sup>
	Mode 2	20 tatami (~33m <sup>2</sup> ) <sup>※1</sup>
	Mode 3	30 tatami (~49.5m <sup>2</sup> ) <sup>※1</sup>
	Turbo Mode	—
AUTO Mode		10-30 tatami (~16.5-49.5m <sup>2</sup> ) <sup>※1</sup>

- Based on our test results, the above-mentioned coverage area is set according to the spatial concentration of 0.05ppm or less (0.06ppm is the standard of Basic Environmental Law), so please observe the coverage area conditions.
- Do not use in places where it is not ventilated.
- The above coverage area is the condition of use for one product. Do not use multiple units.
- US at least 30cm away from the air outlet. (Please do not place any objects within 30cm from the air outlet)
- Ozone may have its peculiar odor, however, this is not abnormal. In rare cases, even if the level is less than the environmental standard of 0.06ppm, some people may feel a change in physical condition such as headache due to personal differences. In that case, stop using immediately and ventilate. (See Table 1 for ozone concentration and its effect on the human body.)
- For other precautions, please be sure to read the instruction manual.

Table 1

Ozone Concentration [ppm]	Effects
0.01	Sensitive people will feel the smell of ozone
0.02	Feel the smell of ozone (will be accustomed)
0.06	Environmental standard concentration of photochemical oxidant (Ministry of the Environment)
0.1	Feel strong ozone irritates nose and throat
	Tolerable concentrations in the working environment (Japan Society for Occupational Health)

\*Japan Ozone Association Ozone Handbook

※ 1: Based on our test results

Confirmed under the condition of ventilation rate (0.5 times/hour) in the living room of a house conforming to the Building Standards Law. (0.5 times / hour means that 1/2 of the volume of the room is replaced in one hour) The effect depends on the using environment such as temperature and humidity, usage time and usage space.

## 4 How to use

### [ Installation ]

The coverage area of this product is about 10-30 tatami(~16.5-49.5m<sup>2</sup>)※2. Check the size of the room to be used before installing. Do not use in a space less than the specified coverage area.

※2: Based on our test results. The effect depends on the surrounding environment and operating time.

#### Caution

When moving or carrying the product, please hold the handle securely. Otherwise, the product may be damaged, fall and cause unexpected injury.

### [ The operation of the odor sensor ]

The odor sensor installed in this product reacts to the surrounding odor.

In AUTO mode, the product automatically switches between four different levels according to the odor level detected by the odor sensor.

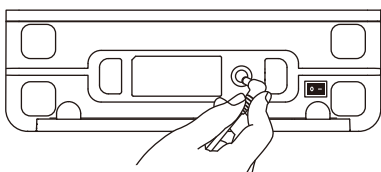
Operation	Display		Odor Level	Notes
During warm-up	Pink	Flashing	—	Flashes for about 5 minutes after starting
During normal operation	Pink	Light On	Low	
	Light Blue	Light On	Medium	
	Yellow	Light On	High	
	Orange	Light On	Max	

#### Caution

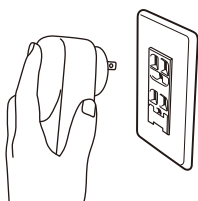
Due to the characteristics of the odor sensor, the operation may be different from the odor that people smell.

### [ How to Connect ]

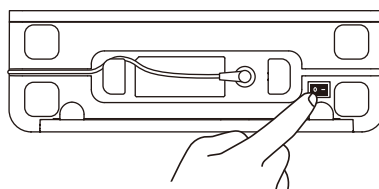
1. Connect the plug of the provided AC adapter to the AC adapter jack on the bottom. (If necessary, wrap the cord around the cord wrap. Pass the cord through the cord groove on the bottom. Otherwise, the main unit will not be stable, and it will be easy to fall over.)



2. Plug the AC adapter into a power outlet.



3. Turn on the power switch on the bottom.



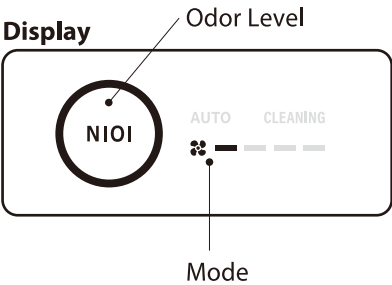


[ How to Operate ]

When press the button on the operation panel, the button will respond and the operation will change accordingly, the 'beeping' sound will be heard.

1. Press the operation Start/Stop button, the manual mode button lights and the odor level display flashes. The fan starts running and operation starts in mode 1 of the manual mode.  
(The flashing of the odor level display repeats for about 5 minutes. Since the odor sensor is based on the odor level at that time, it is recommended to start operation in an environment where there is a low level of odor around.)

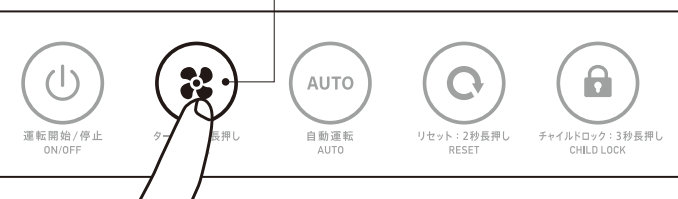
Operation Panel



2. Manual Mode: When the manual mode button is light on.  
The operation mode switches each time the manual mode button is pressed.  
( Mode 1→Mode 2 →Mode 3 → Mode 1 → Mode 2 ...)

Operation Panel

Manual Mode Button (Turbo)



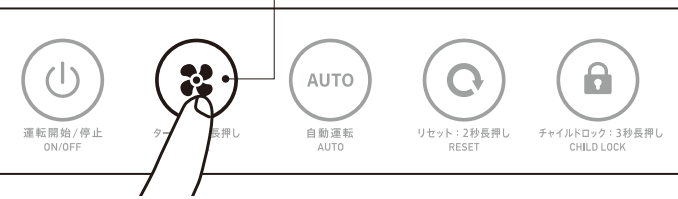
Mode	Display
Mode 1	■ ■ ■ ■
Mode 2	■ ■ ■ ■
Mode 3	■ ■ ■ ■

3. Turbo Mode※3  
To switch to turbo mode, press and hold the manual mode button for about 2 seconds.  
To switch from turbo mode to manual mode, press and hold the manual mode button again.

※3: Use when you want to de-odorize in a short time. Turbo mode will automatically end after operating for about one hour. After that, it will return to mode 1.

Operation Panel

Manual Mode Button (Turbo)

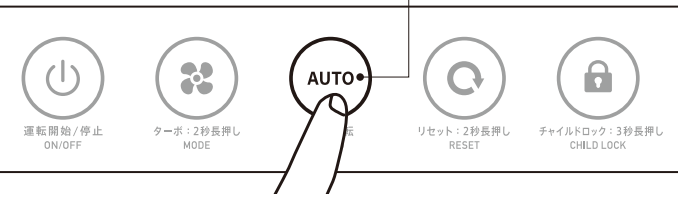


Mode	Display
Turbo Mode	■ ■ ■ ■

4. Each time the automatic operation button is pressed, the mode will be switched between "AUTO Mode" and "Manual Mode".

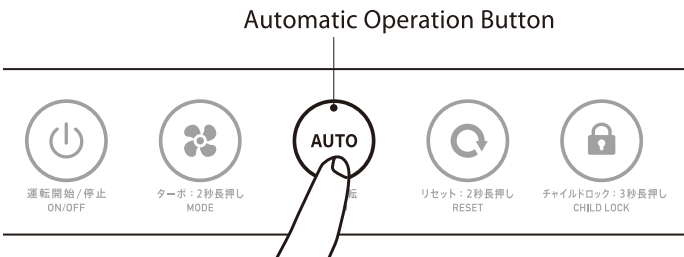
Operation Panel

Automatic Operation Button

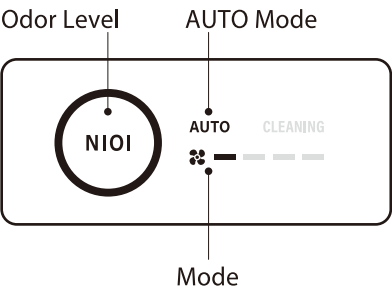


5. AUTO Mode: When the Automatic Operation Button is light on.  
 The AUTO mode display is lit up and operation starts in mode 1.  
 After that, the mode will be switched automatically according to the odor level of the odor sensor.

Operation Panel



Display



Display	Odor Level	Mode	Display
Pink    Light On	Low	Mode 1	■ ■ ■ ■ ■
Light blue    Light On	Medium	Mode 2	■ ■ ■ ■ ■
Yellow    Light On	High	Mode 3	■ ■ ■ ■ ■
Orange    Light On	Max	Turbo Mode	■ ■ ■ ■ ■

6. To stop the operation, press the Operation Start/Stop Button.  
 The Operation Start/Stop Button’s light turns off and operation stops.

※ In the following cases, pressing the button may not work.

- Pressing the button with a nail
- Wearing gloves or plasters
- Operating with dry fingers
- Touching other operation buttons
- A sticker is pasted on the operation panel
- The operation panel is dirty

CAUTION

The operation panel uses an electrostatic switch.  
 For this reason, when you press the operation button, it may react as if you pressed the button multiple times.

**WARNING**

• Do not use in places where it is not ventilated.

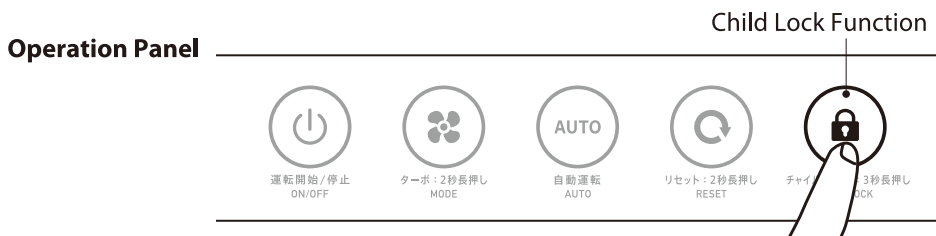
## [ Other Functions ]

### ■ Automatic Dimmer Function

If about 5 minutes without any button operation during operation, the buttons light and the LED on the display will automatically dim. Press the button again the buttons light and LED on the display will return to original brightness.

### ■ Child Lock Function

Press and hold the Child Lock Button for about 3 seconds while operating is start or stop, the Child Lock Button lights up and other button operations will be disabled. Press and hold the Child Lock Button again to release the child lock function.



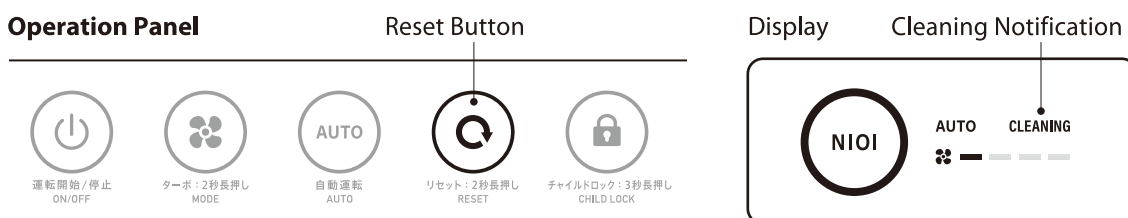
### ■ Cleaning Notification Function

About one month after the first use<sup>※4</sup>, the "Cleaning Notification Display" and "Reset Button" will light up.

Please refer "5 Maintenance" and follow the directions to clean the product.

After cleaning, press and hold the reset button for about 2 seconds. The "Cleaning Notification Display" and "Reset Button" will turn off, and the cleaning notification function is reset.

※4: Estimated when operated 24 hours a day



After about one month has passed after resetting the cleaning notification function, the "Cleaning Notification Display" and "Reset Button" will light up again. In that case please refer "5 Maintenance" and follow the instruction to clean the product.

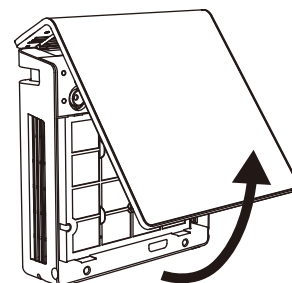
### ■ Automatic stop function (when the front panel is removed)

If the front panel is accidentally removed during operation, operation will stop.

Operation will resume by reinstalling the front panel.

### ■ Automatic stop function (when the product turns over)

If the main unit turns over during operation, operation will be stopped. Restart the operation by re-erecting the main unit and pressing the operation Start/Stop button.



### ■ Power failure resume function

If the operation is stopped due to a power failure during operation, when the power system recovered, it will automatically resume to the operation status before the power failure

(Example: During operation in mode 2 of the manual mode → stop operation due to power failure → recover from power failure → restart operation automatically (mode 2) in manual mode)

## 5 Maintenance

### Before cleaning

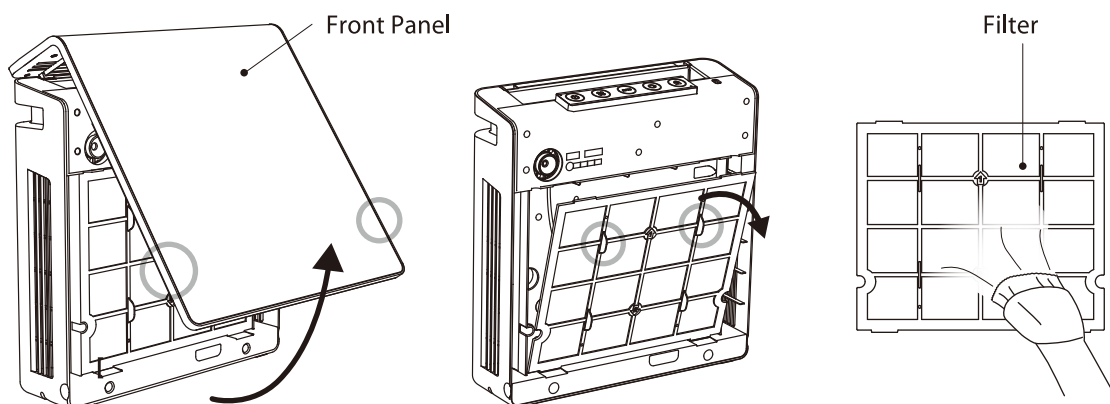
Before cleaning, be sure to stop operation, turn off the power switch on the bottom and disconnect the AC adapter from the power outlet.

### [ Main Unit ]

Clean with a cloth dampened with a neutral detergent or water and wipe with a soft, dry cloth. Do not use benzene, thinner or alcohol.

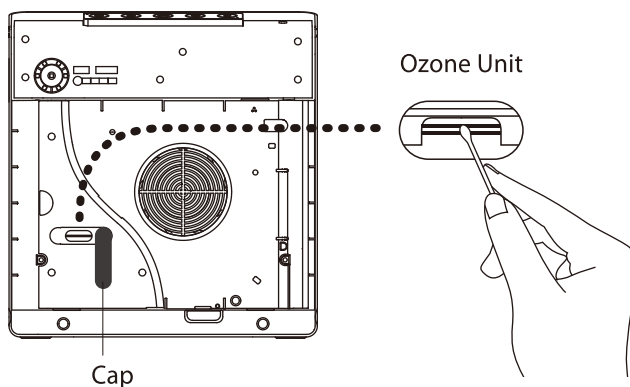
### [ Filter ]

Put your finger on the ○ position(left and right), lift the front panel and remove it. Next, hold the two knobs (○ position) of the filter, pull out and remove it. Use a vacuum cleaner, brush, etc. to remove dust.



### [ Ozone Unit ]

Open the cap and use a cotton swab to gently wipe the internal ozone unit.



After cleaning, close the cap. Hold the filter with two knobs (○ position) and fit the lower part of the filter first. Next, while holding the knob, bend the entire filter slightly, and then fit the top of the filter so that there is no gap with the main unit. Finally, put your finger on the ○ position(left and right) of the front panel and install it in the reverse order of removal.

### Caution

- Be careful that your hands or fingers do not get caught when attaching the front panel.
- Be careful not to damage the Ozone Unit.
- Be careful not to break the filter.
- After cleaning, be careful not to forget to close the cap and install the filter.

## 6 Troubleshooting (If failure is suspected, check the following)

Phenomenon	Cause	Solution
Does not operate. (The Operation Start/Stop Button does not light)	No power	Use the provided AC adapter
		Connect the AC adapter plug securely
		Connect the AC adapter to the power outlet securely
		Turn on the power switch on the bottom
	Front panel came off	Securely attach the front panel
	The main unit fell	Stand the unit upright
	Child lock is on	Press and hold the Child Lock Button to cancel the child lock function
Cannot operate	The operation panel is dirty	Remove dirt according to "5 Maintenance".
	Wearing gloves or bandages	Press the button directly with your finger
	Ambient temperature, humidity or user's personal condition are affecting	Change the environment used. Release your finger and press the button again or use a different finger
	Touching another operation button	Press one button each time
	Child lock is on	Press and hold the Child Lock Button to cancel the child lock function
"Cleaning notification" is light on	The cleaning notification function is ON	Follow the instruction of "4 How to use [Other functions] Cleaning notification function"
No deodorant effect (no ozone smell)	The air outlet or air inlet is blocked	Remove anything that is blocking the air outlet or air inlet
	Filter or ozone unit is dirty	Remove dirt according to "5 Maintenance".
	There is a strong odor source	Removes sources of odor. (If there is something that always emits a strong odor, you may not feel the deodorant effect)
The air from the outlet is weak	Remove anything that is blocking the air outlet or air intake	Remove anything that is blocking the air outlet or air intake.

## 7 Specifications

### [ Main Unit ]

Power Supply	DC24V / 1.5A
Dimensions	W340mm × D110mm × H370mm (excluding protrusions)
Weight	Approx. 4 kg
Operation temperature	0~40°C (no condensation)
Power consumption	Max. 36W
Ozone Generation	Max.10mg/h
Recommended application space	10-30 tatami (~16.5-49.5m <sup>2</sup> )

### [ AC Adapter ]

Input	AC100-240V 50/ 60Hz
Output	DC24V / 1.5A
Power Cord	Approx. 1.8m

※Deodorizing and anti-bacterial effectiveness is described on the following website.

[https://biz.maxell.com/ja/living\\_life\\_equipment/mxap-ae400.html](https://biz.maxell.com/ja/living_life_equipment/mxap-ae400.html)

(Effectiveness differs depending on the ambient environment and operating time.)

### ■ Disposal of product

When disposing of this product, please follow the instructions(local regulations) of each local government.

**Maxell, Ltd.**

30-13 Motoyoyogi-Cho, Shibuya-Ku, Tokyo 151-8527

<http://www.maxell.co.jp>