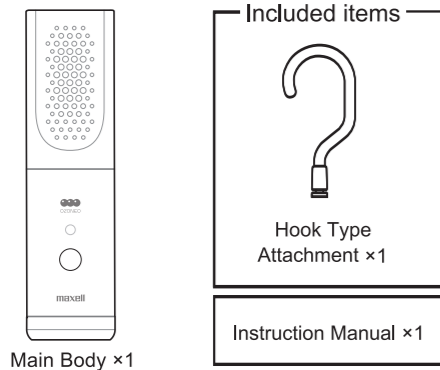


Anti-Bacterial Deodorizer  
MXAP-ARS50

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. If additional information is included in other attached documents, make sure to see it.

Confirmation of packaged items



1 Introduction

Keep the following in mind when reading the Instruction Manual.

- This Instruction Manual may be subject to change without prior notice.
- In order to improve the product, external appearance or part of the specifications may be subject to change without prior notice.
- Unauthorized duplication of part or all 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

- We assume no responsibility for any damage caused by fire, earthquake, action by any third party, other accidents, customer's intention or fault, incorrect use, or use under other abnormal conditions.
- We assume no responsibility for any damage caused by any usage not described in this Instruction Manual.
- We assume no responsibility for any damage caused by malfunction due to combination with connection equipment and devices.
- This product is not intended for use with equipment and devices related to human life such as medical equipment and devices, nuclear equipment and devices, aerospace equipment and devices, transportation equipment, and equipment and devices which require a high standard of reliability. We assume no responsibility if this product is used for the control systems of these types of equipment and devices and if any injury or fire occurs due to failure of the product.

Influence of ozone on human body

| Ozone concentration (ppm) | Influence                                                                                                                                           |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 0.01                      | Person who has a sensitive sense of smell senses ozone odor.                                                                                        |
| 0.02                      | Senses ozone odor (acclimates after a while).                                                                                                       |
| 0.06                      | Environmental baseline concentration of photochemical oxidant (Japan Ministry of the Environment)                                                   |
| 0.1                       | Senses strong ozone odor. Irritation to nose and throat.<br>Acceptable concentration in working environment (Japan Society for Occupational Health) |

\* With reference to the ozone handbook of the Japan Ozone Association  
 ※ Ozone concentration of the product is designed to be 0.06ppm or less.  
 (When the product is used in a space described in the recommended applicable range of the installation method in "How to use.")

2 Safety Precautions

Make sure to observe the following in order to use the product safely.

- WARNING** Indicates the degree of danger in which incorrect handling may result in death or serious injury\*1 to a user.
- CAUTION** Indicates the degree of danger or the state of damage in which incorrect handling may result in slight injury\*2 to a user or damage to property\*3.

\*1: Serious injury means injury with aftereffects such as loss of sight, burns, electric shock, bone fracture or poisoning and injury which requires hospitalization or long-term hospital visits for medical treatment.  
 \*2: Slight injury means injury, burns, or electric shock which does not require hospitalization or long-term hospital visits for medical treatment.  
 \*3: Damage to property means consequential damage related to house, household goods and livestock or pets.

| Examples of Symbol | Symbol | Content                                                                                                                                                                                                                      |
|--------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ⊘                  | ⊘      | Symbol ⊘ prohibits an action in handling of the product. Specific prohibited content is shown in or near the symbol by picture or words. (Example: ⊘ Do Not Disassemble)                                                     |
| ●                  | ●      | Symbol ● forces a user to perform an action based on the instruction in handling of the product. Specific content forced is shown in or near the symbol by picture or words. (Example: ● Disconnect a plug from the outlet.) |

**WARNING**

- Do not use the product in a place where a ventilation system is not available.
- Do not place any object within 30cm from the ozone outlet.
- Do not bring your face close to the ozone outlet.
- Confirm the recommended applicable range, and do not use the product in a space narrower than this range.  
 → See the recommended applicable range of the installation method in "How to use." Use of the product in an improper environment may result in a hazard to the human body or pets, and damage to property.
- Do not use the product in a place where there is any oily smoke, inflammable gas or metallic dust. Otherwise, ignition or smoking may occur.
- 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 any 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 use 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.

**WARNING**

**Device**

- **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, heat generation, electric shock or failure may occur.
- **Do not put into a fire**  
Do not throw these parts into a fire or heat them. Otherwise, heat generation or ignition may occur.
- **Do not use these parts with wet hands**  
Otherwise, electric shock or failure may occur.
- **Do not place the product in direct sunlight or in a place with abnormally high temperatures**  
Otherwise, the surface of the device and parts may deteriorate, and additionally, heat generation or ignition may occur. Do not place the product in a closed vehicle, in direct sunlight or near a heating appliance such as a stove.
- **Do not touch any leaked liquid**  
If liquid leaked from the main unit comes into contact with eyes, wash with clean water without rubbing and seek immediate medical attention. It may cause blindness etc.
- **Do not put these parts into a refrigerator**  
Otherwise, failure may occur.
- **Do not put these parts into a cooking appliance including a microwave oven or a high pressure container**  
Otherwise, smoking, heat generation or ignition may occur.
- **When using or storing these parts, keep them out of the reach of children and animals**  
Otherwise, electric shock or injury may occur.
- **Do not insert your finger or any foreign substance (such as metal) into the ozone outlet**  
Otherwise, electric shock or injury may occur.
- **Do not put drinking water, cigarette ash or combustible objects into the inside of the main body from the ozone outlet**  
Otherwise, electric shock or ignition may occur.
- **Do not cover the ozone outlet with a hand or an object**  
Otherwise, electric shock or failure may occur.

**WARNING**

**About batteries**

- To prevent heat generation, leakage, and rupture of batteries; observe the followings (Cause of injury, malfunction, surrounding contamination)
- Be sure to follow any safety instructions displayed on batteries.
- Use batteries within the recommended usage date
- Check the (+) (-) terminals and insert it correctly.
- Periodically inspect for liquid leaks.
- When not using for an extended time, be sure to remove the batteries and store them in a safe place.
- When replacing the batteries, ensure all four new batteries are the same type of batteries
- Do not use different types of batteries or mix new batteries and old batteries together.

**When an abnormal condition or failure occurs**

- **Stop use of the product immediately when an abnormal condition or failure occurs, remove the battery from product**  
When smoke, abnormal odor or noise emits from the product, or when water or a foreign substance has entered inside the product, immediately stop use of the product and remove the battery from the device.  
Use of the product as it is may result in smoking, heat generation, ignition or electric shock.
- **Stop use of the product immediately at the time of dropping or breaking**  
Use of the product as it is may result in heat generation, ignition, electric shock or injury.

**Installation and use**

- **Do not use the product in a place where a ventilation system is not available**
- **Do not use the product in a place where there is any flame, oily smoke, inflammable gas or metallic dust**  
Otherwise, ignition or heat generation may occur.
- **Do not use the product in a humid place**  
Do not use the product in a bathroom, on a beach, on a waterfront or outdoors. In addition, do not use the product in a room where a humidifier operates excessively. Otherwise, electric shock or ignition may occur.
- **Do not use the product in a place where water may be splashed over the product**  
Otherwise, electric shock or ignition may occur.

**Maintenance**

- **When maintaining, be sure to remove the battery holder from the device.**  
It may cause electric shock or injury.

**CAUTION**

**Installation and use**

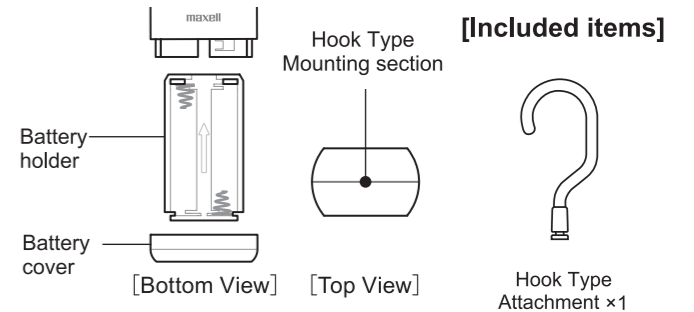
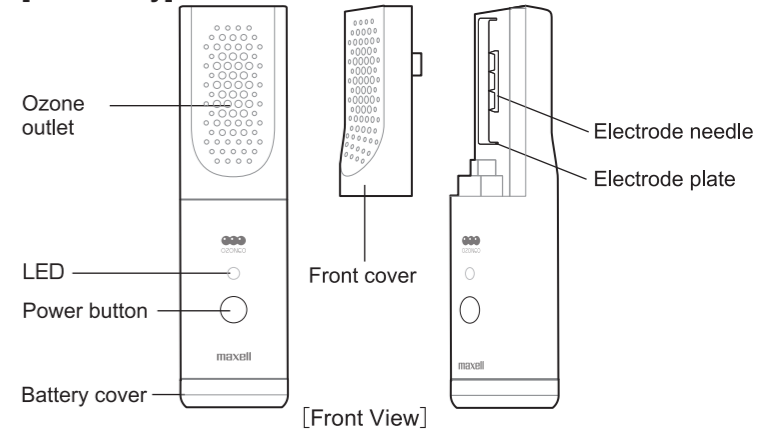
- **Do not place the product in an unstable location**  
Do not place the product on an uneven stand or on an inclined surface. Otherwise, the product may drop or fall, resulting in injury or failure. In addition, essential oil may spill or splash from the spraying port, and may contaminate the surrounding area.
- **Do not place the product in a humid or dusty place**  
Do not place the product in a bathroom, near a humidifier or cooking counter or in a dusty place. Otherwise, heat generation, ignition or electric shock may occur.
- **Do not turn on the product when condensation occurs on the product.**  
A rapid change in environmental temperature may result in condensation inside the product. When condensation occurs, leave the product for a while with the power off.
- **Use within the temperature range of 5 to 40 ° C**  
Use of product at temperatures outside of the recommended range may cause malfunction.
- **When not using for an extended time, be sure to remove the battery**  
Fluid leakage may cause failure.

**Maintenance**

- **Do not use chemicals.**  
When wiping the main body, do not use benzene, thinner or alcohol, etc.

3 Name of Each Part

[Main Body]



4 Preparation before use

[Battery Preparation]

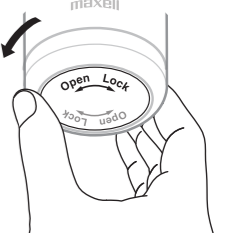
Please prepare 4 new AA size alkaline batteries  
 ※ Maxell alkaline battery recommendations

**Caution**

- Be sure to follow all the safety instructions displayed on the batteries.
- Use batteries within the recommended usage date.
- Do not use different types of batteries or mix batteries and old batteries together.

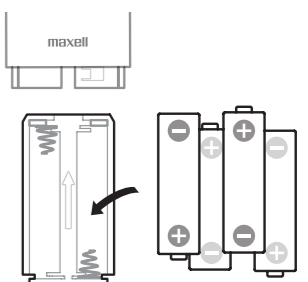
[How to insert batteries]

1. Follow the label on the bottom of the battery cover. Please rotate it in the Open direction and remove.

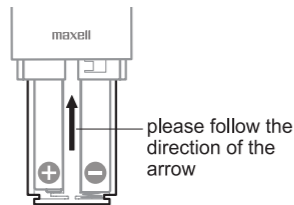


2. Remove the battery holder from the main unit and insert 4 batteries into the holder.

※ Insert the batteries with (+)(-) terminals of the batteries in the correct direction according to the instruction on the battery holder.



3. Please attach the battery holder to the main unit in the correct direction.



4. Please rotate the battery cover in the Lock direction according to the bottom label and install it.



### [Battery Replacement Indication]

If the main unit LED turns from green to red, or if the LED does not light even if you press the main unit power button, please replace batteries.

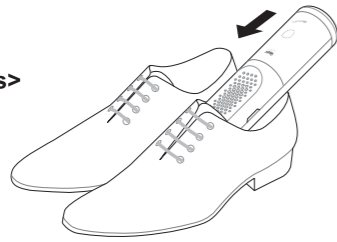
#### Caution

- Please remove used batteries immediately.
- Keep batteries out of reach of infants.
- Do not charge, disassemble, short, overheat, or put it in a fire.
- Do not contact (+) and (-) terminals of removed batteries with metal etc.

### [Installation and use]

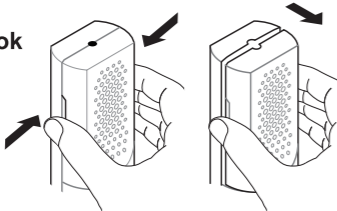
#### <Leather shoes and Sneakers>

1. Select the correct mode to use the main unit, insert the outlet in the foot side of the Leather shoes / Sneakers.  
 ※ This product is one piece.

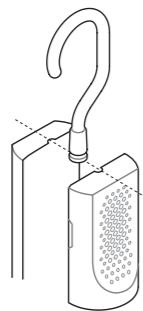


#### <Clothing (using attached hook type attachment)>

1. Pull the front cover forward while pushing the lock of the front side cover side and remove it from the main unit.

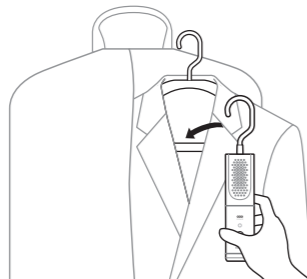


2. Insert the supplied hook type attachment in the hole on the top of the main unit and install the front cover until it clicks into position.



※If the front cover and the main unit are not installed correctly, the main unit may not operate.

3. Please operate the main unit by hooking it to a hanger within a suit bag etc.



## 5 How To Use

### [LED indication]

| Status        | LED         | Mode                             | Reference                                            |
|---------------|-------------|----------------------------------|------------------------------------------------------|
| Not Operating | Off         | —                                | —                                                    |
| Operating     | On (Green)  | Leather shoes                    | When the battery capacity is high                    |
|               | On (Blue)   | Sneakers                         |                                                      |
|               | On (Yellow) | Clothing                         |                                                      |
|               | On (Red)    | Leather shoes Sneakers/ Clothing | When the battery capacity is low (Below approx. 20%) |

※ In leather shoes mode, the LED lights for 10 minutes from start of operation, after that the LED lights flash at about 5 seconds intervals. In Sneakers / Clothing mode, the LED lights for about 15 minutes from the start of operation, after that the LED flashes at about 5 seconds intervals.

### [How To Operate]

1. Press the power button and hold down for about 3 seconds (long press) to start operation.
2. At the start of operation, the green LED is lit and operation starts in "Leather shoes mode". When the power button is pressed again (short press), the blue LED lights up and switches to "Sneaker mode". When the power button is pressed again (short press), the yellow LED lights up, switching to "Clothing mode", afterwards the three modes are switched in order.

※Leather shoes mode ⇒ Sneakers ⇒ Clothing ⇒ Leather shoes mode Repeat thereafter.

#### ■ Leather shoes:

The LED lights for about 10 minutes from the start of operation, and then the LED flashes at about 5 seconds intervals.

#### ■ Sneakers, clothing:

The LED lights for about 15 minutes from the start of operation, and then the LED flashes at about 5 seconds intervals.

3. If you press and hold down the power button for about 3 seconds (long press) during operation, the LED flashes twice and operation stops.

※ About mode switching: If mode switching is not commenced for about 30 seconds after starting operation, it will not be possible to switch the mode. To change the mode, please turn off the power and turn on the power again.

※ This product generates a slight operational noise, which is not abnormal. In high humidity environments, operating noise may increase.

※ When the operation becomes unstable due to dirt on the electrode plate or on the electrode needle, the LED turns off and the operation stops.

#### ■ Leather shoes mode

| Power Button                       | Operating Condition                         | LED                              |
|------------------------------------|---------------------------------------------|----------------------------------|
| Press and hold (Approx. 3sec)      | Stop                                        | Light off                        |
| ↓<br>No short press                | <Waiting for mode selection (about 30 sec)> | light on (green)                 |
|                                    | *No mode switching (Leather shoes)          | light on (green)                 |
|                                    | Operation Start (Leather shoes mode)        | Approx.10 mins light on (green)  |
| ↓<br>Press and hold (Approx. 3sec) | Operating                                   | Flashes once every 5 sec (green) |
|                                    |                                             | ⋮                                |
|                                    |                                             | Flashes twice                    |
|                                    | Not operating (power off)                   | Lights off                       |

#### ■ Sneakers

| Power Button                       | Operating Condition                         | LED                             |
|------------------------------------|---------------------------------------------|---------------------------------|
| Press and hold (Approx. 3sec)      | Stop                                        | Light off                       |
| ↓<br>Short Press (once)            | <Waiting for mode selection (about 30 sec)> | light on (green)                |
|                                    | *mode switching (Sneakers)                  | light on (green→blue)           |
|                                    | Operation Start (Sneakers mode)             | Approx.15 mins light on (blue)  |
| ↓<br>Press and hold (Approx. 3sec) | Operating                                   | Flashes once every 5 sec (blue) |
|                                    |                                             | ⋮                               |
|                                    |                                             | Flashes twice                   |
|                                    | Not operating (power off)                   | Lights off                      |

#### ■ Clothing

| Power Button                       | Operating Condition                         | LED                               |
|------------------------------------|---------------------------------------------|-----------------------------------|
| Press and hold (Approx. 3sec)      | Stop                                        | Light off                         |
| ↓<br>Short Press (Twice)           | <Waiting for mode selection (about 30 sec)> | light on (green)                  |
|                                    | *mode switching (Clothing)                  | light on (green→blue→yellow)      |
|                                    | Operation start (Clothing mode)             | Approx.15 mins light on (yellow)  |
| ↓<br>Press and hold (Approx. 3sec) | Operating                                   | Flashes once every 5 sec (yellow) |
|                                    |                                             | ⋮                                 |
|                                    |                                             | Flashes twice                     |
|                                    | Not operating (power off)                   | Lights off                        |

### [Operation time]

| Mode          | LED color | Operation time                      |
|---------------|-----------|-------------------------------------|
| Leather shoes | Green     | Operation stopped in approx. 1 hour |
| Sneakers      | Blue      | Operation stopped in approx. 2 hour |
| Clothing      | Yellow    | Operation stopped in approx. 6 hour |

### ! WARNING

- Do not use the product in a place where a ventilation system is not available.

## 6 Maintenance

### [Before Maintenance]

When doing the product maintenance, make sure to remove the battery holder from the device.

### [Maintenance for the main body]

Remove contamination using a cloth moistened with neutral detergent and water, and wipe with a soft and dry cloth. Do not use benzene, thinner or alcohol, etc.

### [Maintenance for the electrode ring and electrode needle]

In order to use the product comfortably, maintain for these parts regularly. When operation becomes unstable due to contamination on the electrode plate and electrode needle, the operation mode LED goes off and the operation is stopped. We recommend you maintain for these parts once or twice a month depending on the operating environment.

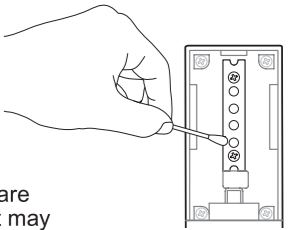
### Caution

- Be careful not to pinch or injure your fingers when removing or installing parts.
- Be careful not to be injured by touching the electrode needle.
- When cleaning the product, do not touch the electrode needle by finger or bend the electrode needle.
- When cleaning the electrode ring, do not damage it.
- Securely install the top cover and electrode ring. Insufficient installation may result in malfunction or failure.

## [Maintenance]

1. Stop operation, follow the label on the bottom of the battery cover and please rotate it in the Open direction and remove it.
2. Remove the battery holder from the product.
3. Pull the front cover forward while pushing the lock part of the front cover side and remove it from the main unit.

4. Remove any dirt or dust adhering to the electrode plate and electrode needle with a cotton swab or similar.



5. Install the front cover until it clicks into position.  
 ※If the front cover and the main unit are not installed correctly, the main unit may not operate.

6. Please attach the battery holder to the main unit in the correct direction.

7. Please rotate the battery cover in the Lock direction according to the bottom label and install it.

## 7 Troubleshooting

(If failure is suspected, check the following)

| Phenomenon                                           | Cause                                                     | Solution                                                                              |
|------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------------------|
| The product does not operate (LED does not light up) | Power is not turned on                                    | Press and Hold button (approx. 3 sec) ⇒ 5 Refer to [ How to use ]                     |
|                                                      | Battery is exhausted                                      | Replace the battery. ⇒ 4 Refer to [ How to insert batteries ]                         |
|                                                      | Attach the front cover is not installed correctly         | Attach the front cover correctly and securely. ⇒ 6 Refer to [ Maintenance ]           |
|                                                      | Battery cover is not installed correctly                  | Attach battery cover correctly and securely. ⇒ 4 Refer to [ How to insert batteries ] |
|                                                      | Battery is not inserted correctly into the battery holder | Insert the batteries correctly and securely. ⇒ 4 Refer to [ How to insert batteries ] |
| When noise emits from the product                    | Electrode plate or electrode needle is dirty              | Clean electrode plate and electrode needle. ⇒ 6 Refer to [ Maintenance ]              |

## 8 Specification

### [Main Body]

|                             |                                                                                                |
|-----------------------------|------------------------------------------------------------------------------------------------|
| Power                       | : AA x 4pcs size alkaline batteries<br>※Maxell alkaline battery recommendations                |
| Operation time              | : Leather shoes mode approx. 1hr<br>: Sneakers mode approx. 2hr<br>: Clothing mode approx. 6hr |
| Operation temperature range | : 5 ~ 40 °C (no condensation)                                                                  |
| Ozone Generation            | : Approx. 1 mg/h                                                                               |
| Outside Dimension           | : Width 45 × Depth 45 × Height 170mm<br>(excluding protrusions)                                |
| Weight                      | : Approx. 130g (not including battery)                                                         |

### [Included items]

Hook type attachment × 1, Instruction manual

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

[http://www.maxell.jp/consumer/mxap-ars50\\_01.html](http://www.maxell.jp/consumer/mxap-ars50_01.html)

Maxell, Ltd.  
 30-13 Motoyoyogi-Cho, Shibuya-Ku, Tokyo 151-8527  
<http://www.maxell.co.jp>