



# raycop LITE

# MANUAL

## RE-100



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**Thank you for purchasing RAYCOP.**





- Please carefully read [Safety Instructions] (P.2) and [How to Use RAYCOP] (P.6) before using, for the safety and proper use.
- The exterior and specifications of RAYCOP is subject to change for quality improvement without prior notice.



# BEFORE USE









## SAFETY INSTRUCTIONS

The following instructions are designed for the safety and proper use of RAYCOP to prevent potential damage and loss.


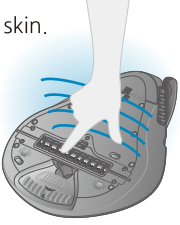

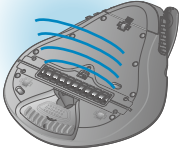


 <b>Warning</b> Injuries and death may occur if proper use is not followed.	 <b>Caution</b> Property damage or loss may occur if proper use is not followed.
 <b>Strictly prohibited actions.</b> Prohibited	 <b>Strongly recommended actions.</b> Strongly recommended

### Warning


#### The Power cord

 Prohibited	<b>Do not use the product if the power cord is damaged or the power outlet is loose.</b> ► This may result in a fire or electric shock.
 Prohibited	<b>Do not forcibly fold the power cord, or place heavy materials on the power cord.</b> ► A damaged power cord may result in a fire or electric shock.
 Prohibited	<b>Do not use water directly on the product or volatile liquids such as benzene, thinner and alcohol.</b> ► This may cause malfunction and result in a fire or electric shock.
 Prohibited	<b>Do not touch the power plug pins when plugging the power plug in or out of the outlet.</b> ► This may result in a fire or electric shock.
 Prohibited	<b>Do not plug the power cord with multiple appliances.</b> ► This may result in a fire or electric shock.
 Prohibited	<b>Each country may use differently-shaped power plugs and outlet.</b> ► If used with other power voltage, this may cause damage or a fire. (If you use a transformer purchased overseas, it is not covered by our warranty.)
 Strongly recommended	<b>Make sure the power plug pins are tightly plugged into the outlet.</b> ► Dust clinging on exposed power plugs may cause humidity, resulting in a fire or electric shock.
 Strongly recommended	<b>Stop operation instantly if the power cord is damaged.</b> ► It must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid any hazards.



#### The UV Lamp

 Prohibited	<b>Do not touch the UV lamp during operation or after use.</b> ► It is hot and can burn your skin. 
 Prohibited	<b>Use the product in a proper way.</b> (e.g. While turning the product upside down, forcibly turn on the UV lamp.) ► This may cause inflammation, skin diseases or harm the eyes or skin. (If you experience any abnormal symptoms, please consult your doctor immediately for help.) 
 Prohibited	<b>Do not directly project the ultraviolet rays into the eyes or onto the skin of humans or animals.</b> ► This may cause inflammation, skin diseases or harm the eyes or skin. (If you experience any abnormal symptoms, please consult your doctor immediately for help.) 



#### How to Use

 Prohibited	<b>Do not allow children and infants to use the product.</b> ► They might get hurt.
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## How to Use

 Prohibited	<p><b>Do not use the product to pick up volatile liquids such as water, benzene, thinner, or sharp materials such as blades, pins, hot ashes and toner powder.</b></p> <p>► This may cause fire or electric shock by malfunction or harm beds or beddings.</p>
 Prohibited	<p><b>Do not lean against the product or be careful not to expose the product to a strong impact by dropping whilst in operation or moving the product.</b></p> <p>► If the product is broken or dropped, damage may occur. (If an accident occurs, the manufacturer is not responsible for any possible damage and loss.)</p>

## Consumable Parts




 Prohibited	<p><b>Use only manufacturer authorized parts.</b></p> <p>► Unauthorized parts may result in reduced performance and cause electric shock or malfunction.</p>
 Prohibited	<p><b>Do not disassemble the product except when replacing parts.</b></p> <p>► This may cause electric shock or malfunction.</p>

## Care


 Prohibited	<p><b>Do not remodel the product.</b></p> <p>► This may cause electric shock or malfunction.</p>
 Prohibited	<p><b>Do not use the product if the surface is damaged.</b></p>

## Caution




### The Power Cord









 Prohibited	<p><b>Before moving the product, make sure the power cord is unplugged from the outlet.</b></p> <p>► Overheating of the UV lamp or the product may result in malfunction or a fire.</p>
 Prohibited	<p><b>Plug must be removed from the socket-outlet before cleaning or maintaining the appliance.</b></p> <p>► Dust clinging on exposed power plugs may cause humidity, resulting in a fire or electric shock.</p>
 Prohibited	<p><b>Do not pull RAYCOP by its cord from the power outlet.</b></p> <p>► Directly pulling the power cord may harm surrounding objects.</p>

### The UV Lamp

 Strongly recommended	<p><b>Keep the lamp protective tube clean.</b></p> <p>► If the lamp protective tube is dusty, the transmission rate of ultraviolet rays could be lowered.</p> <p>► If you experience any abnormal symptoms such as skin redness or swelling or blisters and develop skin disease, please consult your doctor immediately for help.</p>
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## How to Use

 Prohibited	<p><b>Do not use the product outdoors. For household use only.</b></p> <p>► This may cause malfunction or damage.</p>
 Prohibited	<p><b>Do not repeatedly change the operation mode.</b></p> <p>► This may shorten the lifespan of the product.</p>
 Prohibited	<p><b>Do not leave the product in the same place in operation mode.</b></p> <p>► This may cause discoloration in the surface.</p>

 Prohibited	<p><b>Do not use the product with the inlet or outlet clogged by dust.</b></p> <p>► This may overheat the product and result in malfunction or fire.</p>
 Prohibited	<p><b>Do not use the product on embroidered or uneven fabrics, anti-dust mite textile, leather materials or electric pads.</b></p> <p>► This may harm the product or fabrics. (If an accident occurs using the product, the manufacturer is not responsible for any damages.)</p>
 Prohibited	<p><b>Do not use or leave the product near heating devices such as stoves or heaters, and inflammable materials such as ignitable sprays.</b></p> 
 Strongly recommended	<p><b>Use the product only for fabric materials such as mattresses, bed covers, blankets, pillows, cushions, carpets and sofas.</b></p> <p>► If used for other materials than fabric materials above, a risk of damage to the product or fabrics may occur. (If an accident occurs, the manufacturer is not responsible for any potential damage occurring.)</p>
 Strongly recommended	<p><b>Ensure the dustbox filter and dust box are installed correctly into the product.</b></p> <p>► Foreign substances such as dust in the motor may cause damage or fire.</p>
 Strongly recommended	<p><b>If there are any abnormal noises, smells or fumes expelled from the product, stop operation instantly and contact an authorized service center.</b></p> 

# SAFETY DESIGN FOR HUMAN

## UVC(Ultraviolet ray C wave) Lamp Safety Sensors (P.5)

As a safety feature, the lamp automatically turns off, if the product is lifted away from the surface. If you put the product on the surface again, the lamp will automatically switch back on.

## Run Time Control System

After 29 minutes, an alarm begins to sound and the  power button lamp flashes to warn you that RAYCOP will automatically switch OFF after 30 minutes.

## Lock / Unlock System (P.6)

RAYCOP has a child protection system to prevent unsupervised operation.

## Motor Overheat Protection Operation (P.13)

After you use the product for more than 30 minutes continuously in a single use or the filters are completely filled by house dust which blocks air circulation, RAYCOP will automatically turn off.

# FREQUENTLY ASKED QUESTIONS

Powder type dust is found on the dust box filter. **What is this?**

The dust is the result of dust mites, and their wastes and human skin debris.

When is it more effective to use RAYCOP, **before going to bed or after getting up?**

RAYCOP can be used for both before going to bed and after getting up. However, it is more effective to use RAYCOP to clean your bed before sleep, because house dust in your bed would disturb your good night sleep.

Does the blanket cover need to **be removed?**

You can use RAYCOP with a blanket cover remaining. Because dust mites and their waste are extremely small, RAYCOP can pick them up through the fabrics of the blanket cover.

I am not sure if the UV lamp is flashing on, should I **turn the product upside down to check?**

The lamp light can be checked through the UV lamp window on the front of the product. The ultraviolet ray is not emitted through the window. Directly projecting the ultraviolet rays into eyes or onto human or animal skin may cause harm.


Can RAYCOP **be used overseas** if used with a transformer?

The use of a transformer may result in damage or fire. Manufacturer is not responsible for any possible damage.




# KNOWING EACH PART OF RAYCOP Check your parts


Please purchase only manufacturer-authorized parts from the authorized resellers.



Power Cord Pouch

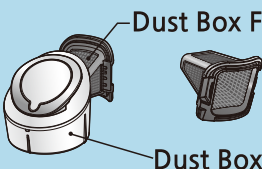


Start Guide



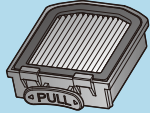
Manual

**Dust Box and Dust Box Filter**

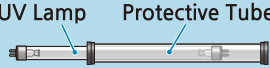


※ Install the dust box and dust box filter into the product.

● Parts installed in the product when purchased.

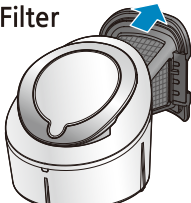


Micro HEPA Filter



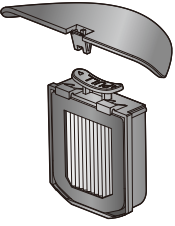
UV Lamp and Protective Tube (UV Lamp Set)

**Dust Box Filter (P.9, 15)**



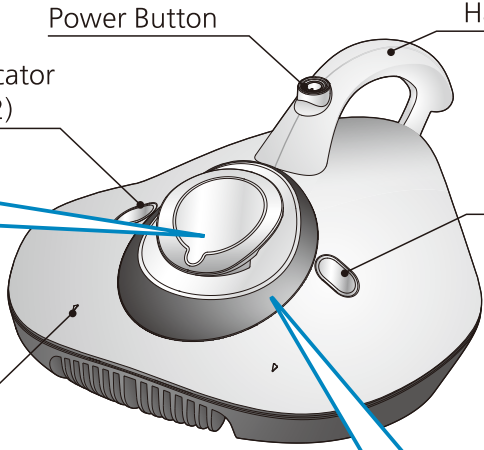
**Dust Box (P.9)**

※ Install the dust box into the product until you hear a “click” sound.



**Micro HEPA Filter Cover (P.12)**

**Micro HEPA Filter (P.12,15)**



Power Button

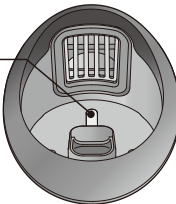
Handle (P.7)

UV Lamp Indicator Window (P.12)


UV Lamp Indicator Window (P.12)

Suction Range (P.7)


**Dust Box Lamp (P.4)**

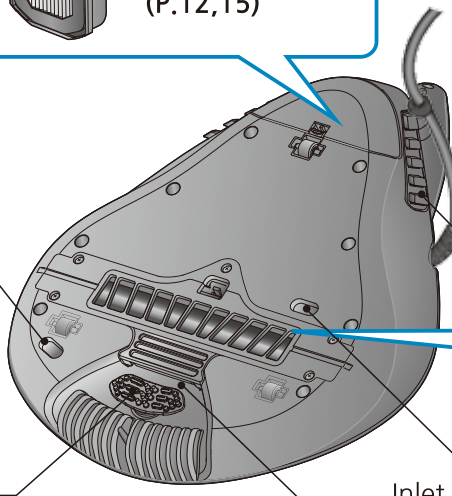


**UV Lamp Grill / Frame (P.10,11)**



**UV Lamp Set (P.11,15)**





UV Lamp Safety Sensors (P.4)

Vibration Pad

Air Vent

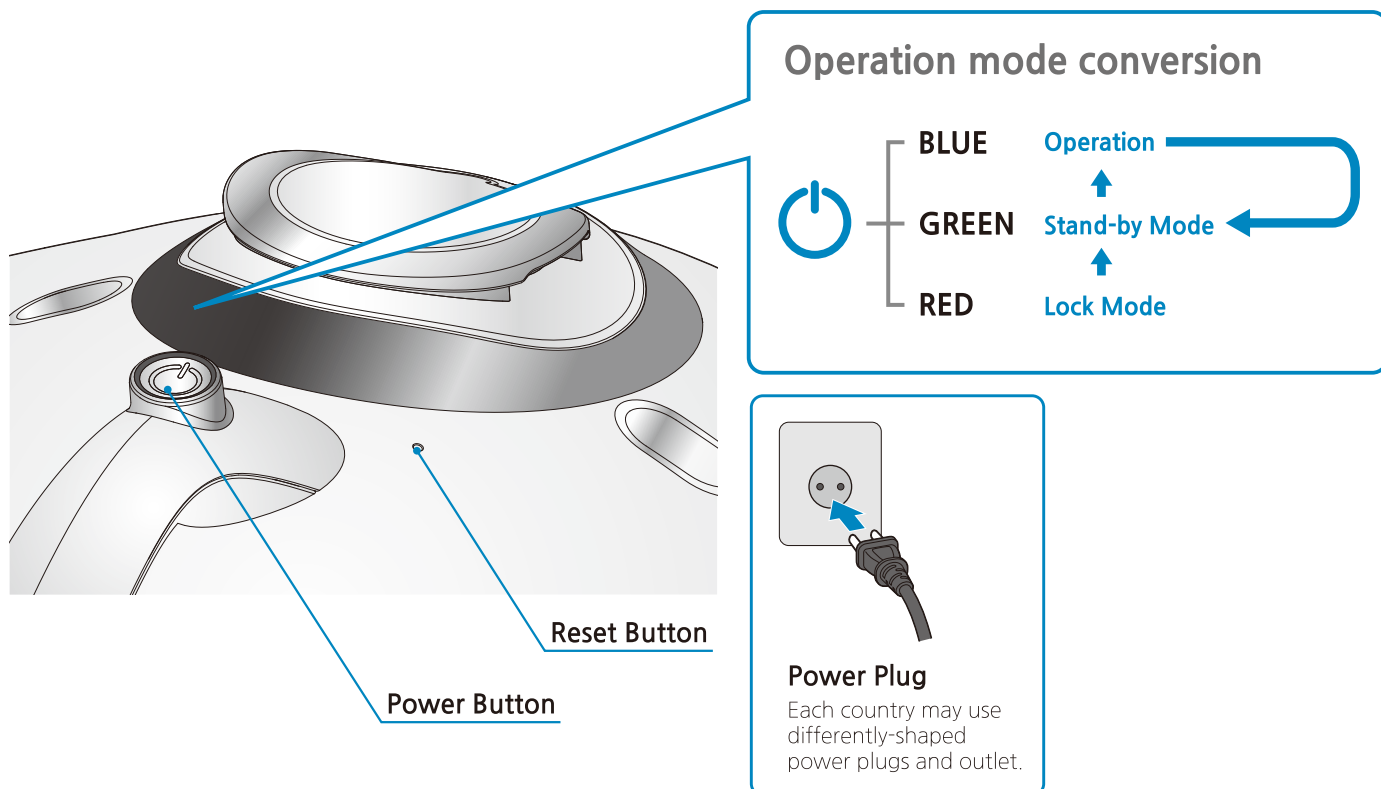
UV Lamp Safety Sensors (P.4)

Inlet (P.10)

BEFORE START

# HOW TO USE

## BASIC OPERATION



### ■ Operation mode conversion

- 1 Plug the power plug into the outlet. The power button (🔌) flashes in red with a “beep” sound and the lock mode is applied.
- 2 To apply the stand-by mode (🔌 GREEN), push the power button (for about three seconds) until you hear a “beep” sound.
- 3 Push the power button to apply the operation mode (🔌 BLUE).

### How to stop

Push the power button in the operation mode to apply the stand-by mode.

※ When the product remains idle for more than one minute, the lock mode is automatically applied. Follow **No.2** above to release the lock mode.

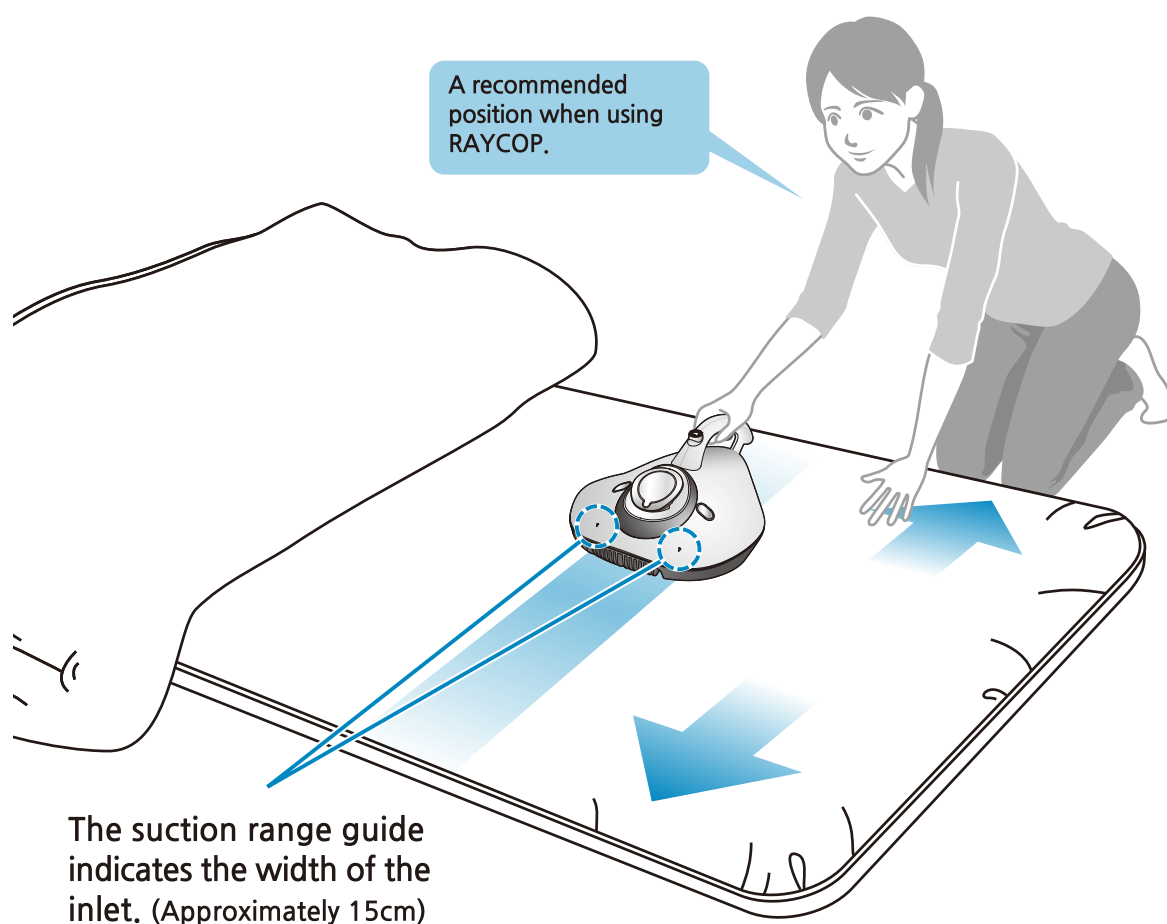
### Caution

When finishing cleaning, apply the stand-by mode and unplug the power plug from the outlet.

★ See P.12 for the use of the Micro HEPA Filter reset button.

## HOW TO CLEAN EFFECTIVELY

After applying the operation mode, hold the handle to move RAYCOP forwards and backwards(not pushing the blanket) and slide RAYCOP smoothly and steadily. (10 seconds for one round cleaning)

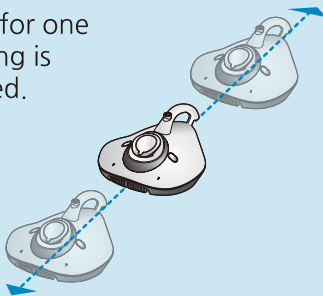




## Everyday Simple RAYCOP (about one minute)

Use RAYCOP every day before going to bed to have a pleasant sleep.

Ten seconds for one round cleaning is recommended.

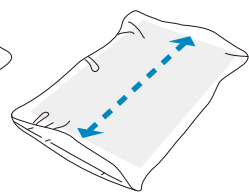
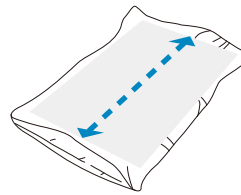


※ Based on Single bed width.

1

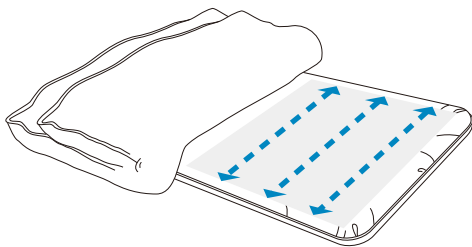
(Front Side)

(Back Side)



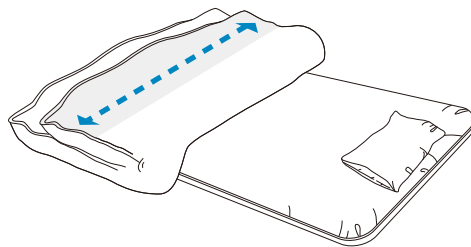
Move RAYCOP backwards and forwards once on the both sides of a pillow.

2



Move RAYCOP smoothly backwards and forwards three to five times on the upper part of the blanket.

3



Move RAYCOP smoothly backwards and forwards once on the upper part of the blanket that touches your face.



## Once a week Complete RAYCOP (about five minute)

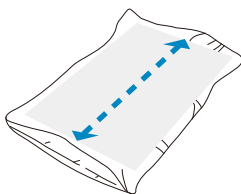
Cleaning your beddings completely once a week.

Clean the back side of your blanket once a month.

1

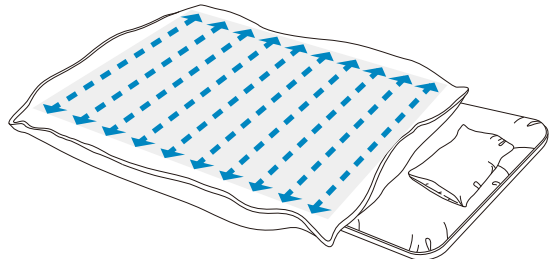
(Front Side)

(Back Side)



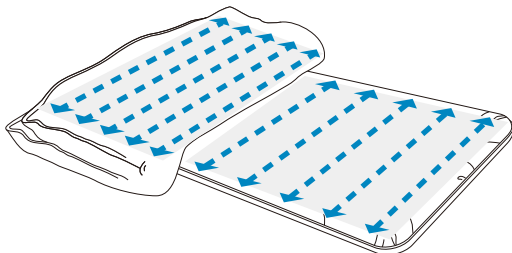
Move RAYCOP backwards and forwards once smoothly and steadily on the both sides of a pillow.

2



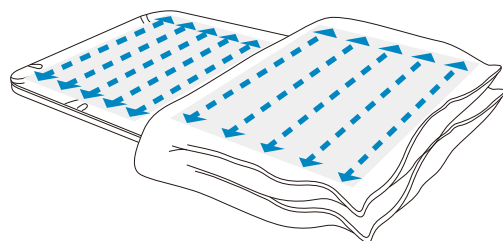
Move RAYCOP backwards and forwards ten to twelve times smoothly on the surface of a blanket.

3



Fold the blanket in half and repeat the cleaning smoothly ten to twelve times.

4



Turn the blanket upside down and repeat the cleaning smoothly ten to twelve times.

# HOW TO CARE

## ■ How to clean the body


Unplug the power plug from the outlet and wipe the surface with a dry fabric.

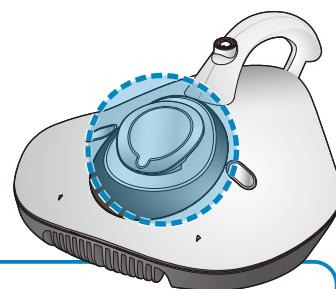
## ■ How to clean the dust box filter and dust box

Dust accumulated on the dust box filter may reduce the suction power.

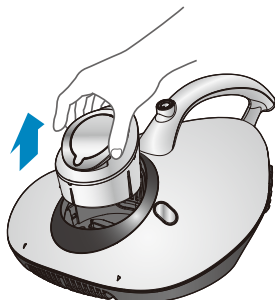
After use, please follow below steps.

For optimized performance, it is recommended to clean after every use.

 **Warning** When you clean the dust box, ensure RAYCOP is unplugged from the power outlet.



- 1** Pull out the dust box as shown in the image.



- 2** Place the dust box with the dust box filter into water and pull out the filter in water to rinse to prevent dust from being scattered.



- 3** Remove dust on the surface using water to clean the dust box filter and dust box.

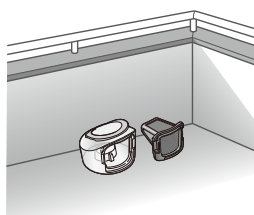


**If dust is accumulated on the dust box filter, suction power performance will be weakened.**

Dust can be effectively removed if you place the dust box in water diluted with detergent in small quantities (Ratio - water 9 : detergent 1 ) for five minutes and then rinse it with a smooth brush.



- 4** Dry the dust box filter and dust box completely in the shade.

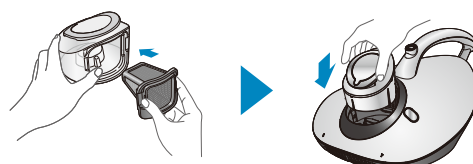


### **Caution**

Do not dry the dust box filter using a washing machine or a hot air blower, which may cause deformation.

- 5** Push back the filter to the end until you hear a “click” sound, and reposition the dust box back in the product.

※ Install the dust box into the product until you hear a “click” sound.



### **Caution**

The dust box filter is consumable. If you use the filter everyday for 10 minutes, the replacement period is approximately 5~6 months. If the filter is torn or clogged by foreign materials, please purchase only manufacturer-authorized parts from the authorized resellers.



# HOW TO CARE

## ■ How to clean the inlet

Dust or hair in the inlet may result in reduced performance.

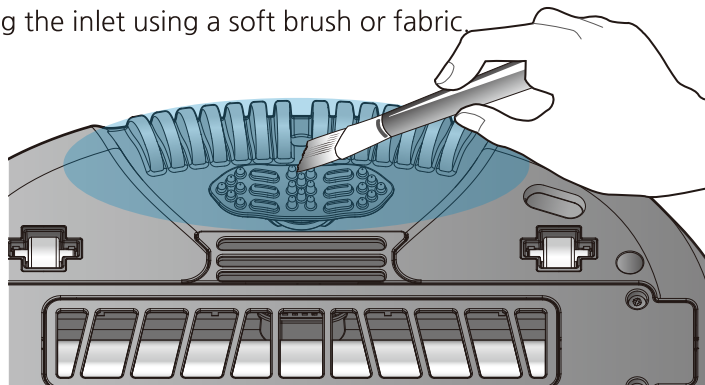
Clearly remove foreign materials blocking the inlet using a soft brush or fabric.

### ⚠ Warning

Before cleaning, ensure that RAYCOP is unplugged from the power outlet.

### ⚠ Caution

A blocked inlet may cause abnormal sounds or overheating, which may result in malfunction or fire.



※ The brush shown in the image is not included in the product. Please prepare a small brush by yourself.

## ■ How to clean the UV Lamp

Foreign substances clinging onto the lamp may reduce performance.

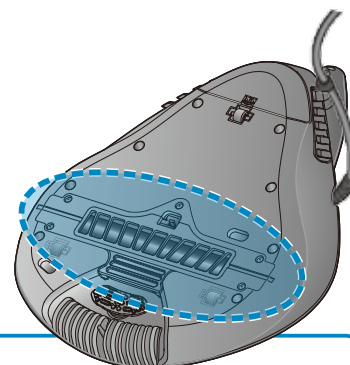
Please clean the lamp on a regular basis.

### ⚠ Warning

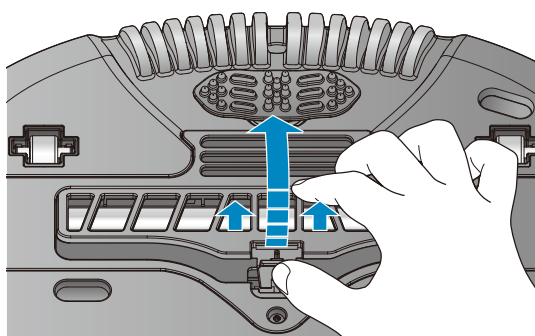
Before cleaning, ensure that RAYCOP is unplugged from the power outlet.

### ⚠ Caution

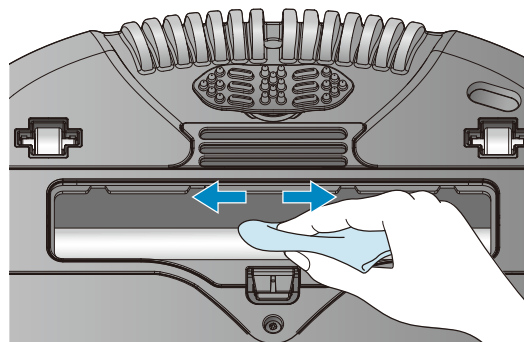
When cleaning, please make sure the UV lamp protective tube (P.15) is not broken.



- 1 Push the hook to remove the UV lamp grill in the direction of the arrow.



- 2 Use dry fabrics or cleaning towels to clean the surroundings of the UV lamp protective tube.



※ The cleaning towel shown in the image is not included in the product. Please prepare a towel by yourself.

※ The silver bead in the lamp is a part of the lamp. Therefore, the rolling bead sound may occur and is not abnormal.

# HOW TO REPLACE PARTS

## ■ How to replace the UV lamp

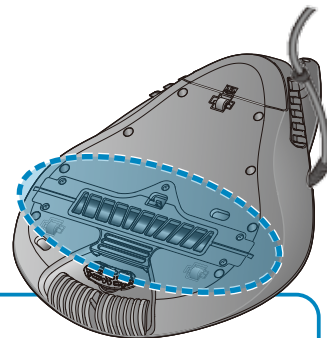
The UV lamp is consumable. Please purchase and replace the UV lamp if it does not turn on.

### ⚠ Warning

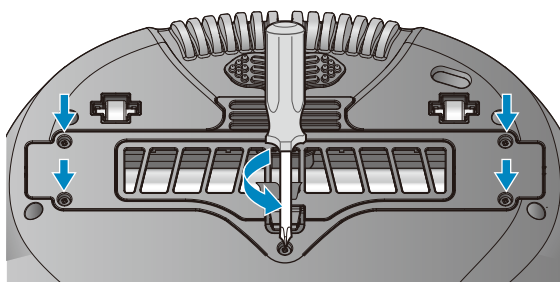
When you replace the UV lamp, ensure RAYCOP is unplugged from the power outlet.

### 🔍 Caution

The UV lamp is consumable. Please purchase only manufacturer-authorized parts from the authorized resellers.

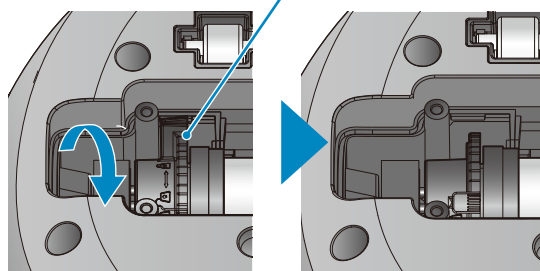


- 1 Use a screwdriver to unscrew five locking screws. Disassemble the UV lamp grill and frame.

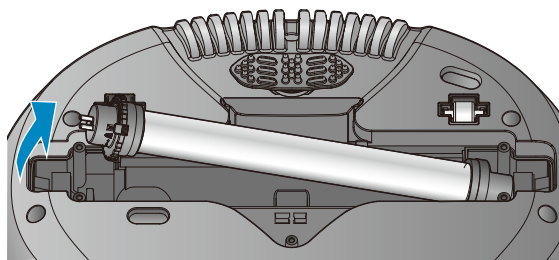


- 2 Rotate the detachable lever of the UV lamp to unlock.

Detachable Lever

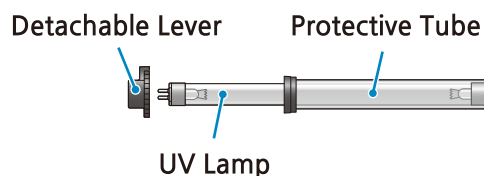


- 3 Pull out the UV lamp set from the detachable lever side.

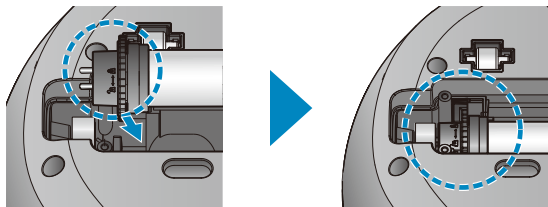


### ⚠ Caution

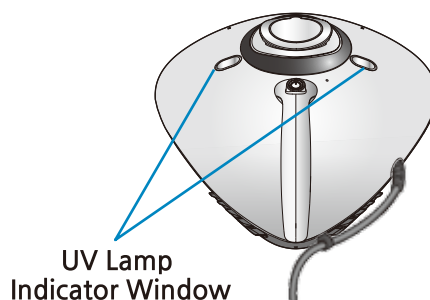
When disassembling tightly hold the protective tube to prevent dropping the UV lamp.




- 4** Align the detachable lever to a new UV lamp set in the opposite order and correctly put the rubber in place. Rotate by 90 degrees to correctly install until you hear a “click” sound and a green indicator shows up.



- 5** After plugging the power cord into the outlet, check if the UV lamp operates normally in the operation mode through the lamp indicator window.



## ■ How to replace the micro HEPA filter

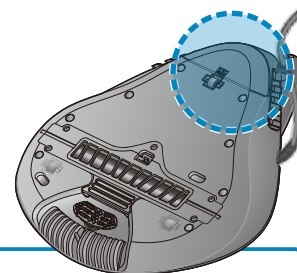
If you use the filter everyday for 10 minutes, the replacement period is approximately one year. But RAYCOP will alarm you, when needed. An alarm goes off five times when in operation and a red color indicator on the  power button will begin to flash. Please make sure the micro HEPA filter is replaced in the order as below.

### Warning

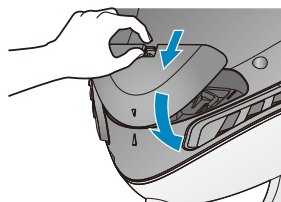
When you replace the micro HEPA filter, ensure RAYCOP is unplugged from the power outlet.

### Caution

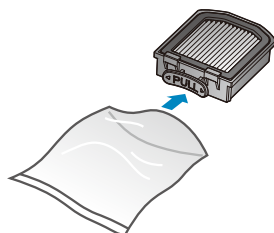
The micro HEPA filter is consumable. Please purchase only manufacturer-authorized parts from the authorized resellers.



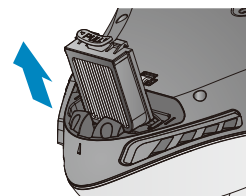
- 1** Push down the hook to remove the micro HEPA filter cover.



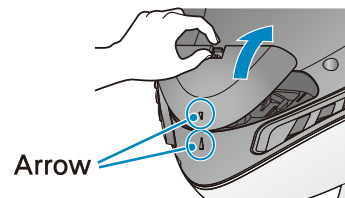
- 3** Replace the micro HEPA filter with a new one in the opposite order.



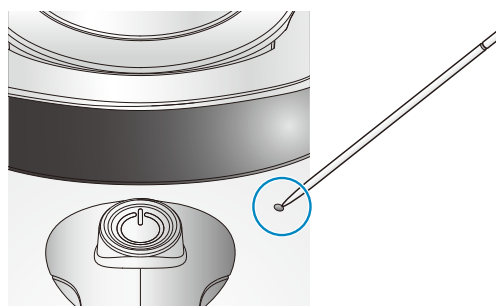
- 2** Disassemble the micro HEPA filter.



- 4** Align the direction of the arrow and close the cover.



- 5** After applying the lock mode, use sharp materials such as a ball point pen to press the reset button for more than one second until you hear a “beep” sound.



### Warning

Do not push the reset button before the micro HEPA filter replacement alarm begins to sound.

# REFERENCES



## MALFUNCTION SELF-DIAGNOSIS

Before contacting customer service, please check the following.

**If you experience problems such as :**

**RAYCOP is not working.**

**You need to check the following :**

- Check if  lights up in red. If  is off, make sure the power cord is completely plugged into the outlet.
- Check to make sure the power rating.
- Check to ensure the outlet works normally by plugging the power plug of other electronic appliances into the outlet.

**The suction is not working.**

- The product is protected from the motor overheat. Operation may stop temporarily in these situations.
  1. The filters are completely filled by dust which block air circulation.
  2. The inlet is clogged.
  3. After you use the product for more than 30 minutes continuously, RAYCOP will automatically shut off.
    - ▶ It is a safety mechanism to prevent overheating, if this happens, unplug RAYCOP and clean the dust box filter, and the clogged inlet then wait for two hours before using it again.
  4. If the filters are completely filled by dust.
    - ▶ Dust can be effectively removed as you place the dust box in water diluted with detergent in small quantities (Ratio - water 9 : detergent 1) for five minutes and then rinse it with a smooth brush. If suction power does not improve, please purchase a new dust box filter.
  5. The dust box filter is consumable. If you use the filter everyday for 10 minutes the replacement period is approximately 5~6 months. If the filter is torn or clogged by foreign materials, please purchase only manufacturer-authorized parts from the authorized resellers.
- After 30 minutes, operation will be automatically stopped by the run time control function.

**The suction power looks weak.**

- RAYCOP is designed to eliminate house dusts in your beddings in an optimized way. Therefore, please do not concern. If you need an assistance, please contact the authorized resellers.

**The suction power becomes weaker and RAYCOP produces abnormal sounds.**

- Check to see if the inlet is clogged, the air vent is blocked the dust box filter, the dust box filter is full of house dust or dirt or whether the micro HEPA filter is contaminated. (P.9, 12)

**If you experience problems such as :**

**UV lamp turned off during use.**

**You need to check the following :**

- If the color of the cleaning surface is dark such as black or dark blue, the lamp may not work, because of Infra-red safety sensors.
- The UV lamp function will not operate if the product is lifted more than a certain distance from the surface because the sensors will automatically switch off the lamp. Check whether the product is close enough to the cleaning surface.
- If the sensors on the bottom of the product are contaminated by house dust or foreign substances, the UV lamp may not operate. Remove dust and foreign substances. (P. 5)

**There are abnormal noises as if a bead is rolling in the UV lamp.**

- The silver bead in the lamp is a part of the lamp. Therefore, the rolling bead sound may occur and is not abnormal.

**Others**

- The warm air expelled from the air vent through cooling motor is normal.
- There may be abnormal smells from the vent, but this case is normal in the below situation.
  - Approximately three months after purchase there may be smells like rubber.
  - If the micro HEPA filter is completely clogged by excessive dust, there may be abnormal smells. In this case, replace the filter earlier than the original replacement period. (P. 12)
- If you use the product for a long time, there may be discoloration on the surface of the UV lamp. This is due to the ultraviolet rays of the lamp, which is normal tear and wear.

## SPECIFICATIONS

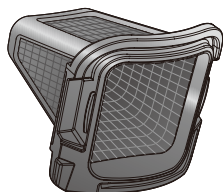
Model	RE-100	Weight	1.95Kg (Excluding power cord)
Rated Power Consumption	330W	Exterior Measurement	300 x 352 x 150.5 mm
UV Lamp	6W	Dust Collection Capacity	Approximately 0.3L
UV Wavelength	253.7nm	Vibrating Pad	3,300/min



# ADDITIONAL PRODUCTS

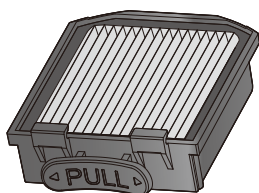
Please purchase only manufacturer-authorized parts from the authorized resellers.

## Consumable parts



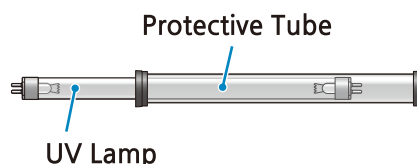
### Dust Box Filter (3EA)

If you use the filter everyday for 10 minutes, the replacement period is approximately 5~6 months. If the filter is torn or clogged by foreign materials, please replace the filter.



### Micro HEPA Filter (2EA)

If you use the filter everyday for 10 minutes, the replacement period is approximately one year. RAYCOP will alarm you when needed.



### UV Lamp Set

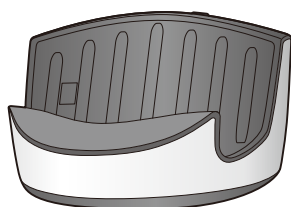
The UV lamp is consumable. Please purchase and replace the UV lamp if it does not turn on.



### Dust Box (1EA)

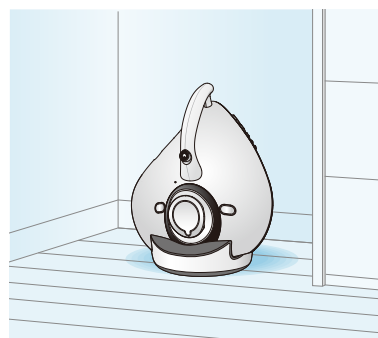
If the dust box is broken or you need an extra, please purchase and replace the dust box.

## Optional Accessories



### Cradle

Product No : RE-CRA01EWH (WHITE)  
RE-CRA01EBL (PASTEL BLUE)  
RE-CRA01EPK (BABY PINK)  
RE-CRA01EYL (HONEY YELLOW)



The cradle that is required to purchase additionally can store RAYCOP neatly.

# WARRANTY AND CUSTOMER SERVICE

## Free warranty service

This product is covered by a one year limited warranty if there is any malfunction of the product caused by manufacturing defect. Please retain your original receipt and warranty as a proof of purchase for receiving customer service.

## Paid warranty service

**Free warranty service is not covered even if the date of purchase is within 12 months in the following cases:**

1. The product malfunction occurs because a user pours liquids into the product or uses the product to pick up foreign substances.
2. If the product is broken because a user carelessly drops the product or subjects it to an external impact.
3. If the product is damaged or deformed because of the use of volatile liquids such as thinner, benzene.
4. The product malfunction occurs because of the use of unauthorized parts or consumable parts.
5. The product malfunction occurs because the product is used with a wrong power voltage.
6. If the parts of the product are lost or broken due to intentional disassembly.
7. The product malfunction occurs because the repair and remodeling of the product are not carried out by trained individuals from an authorized customer service center.
8. The product malfunction occurs because of natural disasters.
9. The product failure occurs because a customer does not follow [Safety Instructions]
10. If the product is used without the dust box filter or micro HEPA filter.
11. The product failure occurs because of the wrong usage or improper maintenance.

- Please replace RAYCOP parts on your own. If you have any difficulties, you can receive technical support at a cost.
- After one year warranty coverage, product repair can be carried out after examination upon the request of a customer. In this case, please understand the examination can also be delivered at a cost.
- Raycop Japan retains performance parts (for maintaining the product performance) of the product for 6 years after the cessation of manufacturing.











For warranty service, please contact the authorized RAYCOP resellers in your country.

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