

Omni-directional UVC Upper Air Purification system

Product description

This UV-C purification lamp with 4-sides emission for upper-room air, can be installed with the method of ceiling mounted or pendant, and widely used for air purification. The UV-C beam is controlled by a specific reflector and grid, which allows the air to be purified while daily business activities working under the area where the product is installed.

Applications: Office, Retail, Hotel, School, Bank, Bathroom · · ·

Product Features

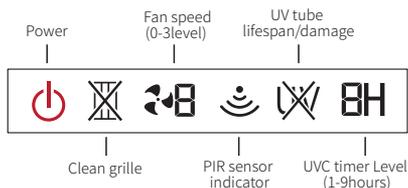
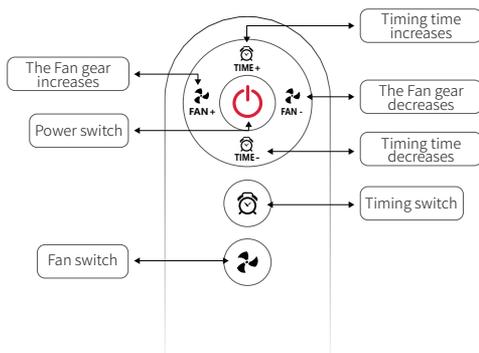
- 4 built-in PIR sensors make UV-C automatically turned off when a biological body exceeds the height of UV horizontal radiation area.
- The built-in fan creates forced ventilation which increases purification rate within a certain time.
- UV-C lamp includes 4*30W UV-C tubes.
- The shortwave ultraviolet radiation emits at the peak of 253.7nm (UV-C).
- Ceiling mounted or pendant.
- Comply with IEC62471 (photobiological safety of lamps).

Product Specification

Size(mm)	595*595*168mm
Voltage	100-277V AC
Frequency	50/60Hz
Wattage	150w ± 10%
UV Tube Quantity	4x30W
UV Tube life span	>8000H
IK rating	IK02

IP rating	IP20
Installation	Ceiling or pendant
Reflective material	Aluminum
PIR Detection distance	≥2M
Operating temperature	-5°C~+40°C
Radiation (1 meter distance)	100μW/cm ² (Ambient temperature 25°C)
Installation height	≥2.5M

Remote control operation and LCD screen display instructions



	Reset sign after replacing the UV lamp
	Reset sign after cleaning

	Sign light "ON" means power on
	Sign light on means cleaning of grille
	Sign light on, shows the speed level of the fan
	Flicker means the organism is detected by PIR.
	Sign light on for long time means the UV-C tube need to be replaced.
	when flashing the UV-C tube is broken or poor contact.
	Start the mode of timing

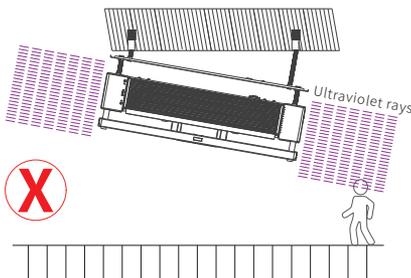
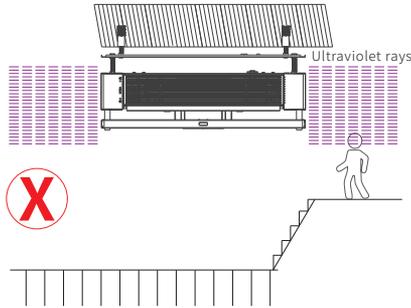
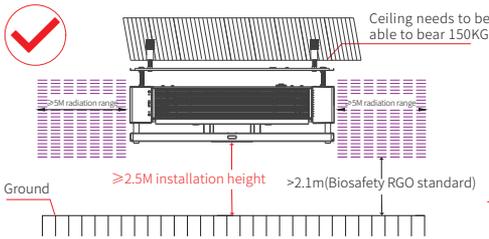
Other Functions Instruction

- ☒ Sign light for a long time, it is recommended to replace the UV tube (countdown 5000 hours).
- ☒ Sign light for a long time, recommended cleaning grille (countdown 1500 hours).
- When any one of the PIR senses detect a person, all the UV-C lights go off, and then automatically turn on the lights again after no one detected in 2 minutes.
- PIR sensor detect distance $\geq 2\text{m}$.
- The fixture has a memory function, and the last setting value will be automatically activated when it is restarted.
- PIR can work normally after preheating for 15S.

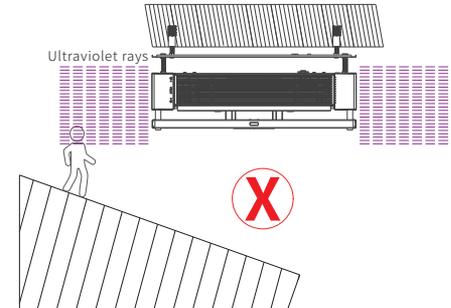
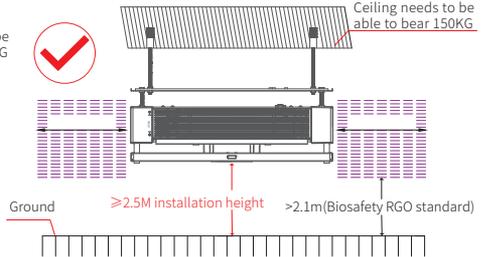
Installation Precautions

- Minimum Installation height $\geq 2.5\text{M}$.
- The upper flat layer is 2.1M high, and the horizontal diameter 10M has ultraviolet rays. Please pay attention to whether the installation environment meets the requirements during installation.
- UVC lamps must be installed by professional electricians.
- Installation ceiling wall should be able to withstand a tensile force of 150KG.

Embedded installation diagram:



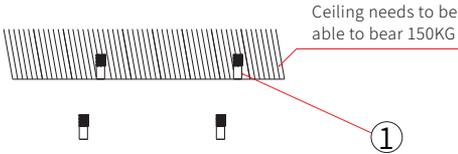
Hoisting diagram



Installation one (Ceiling type)

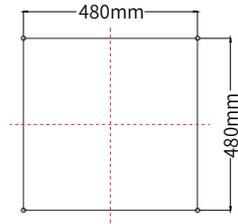
Required components for ceiling installation:

- 4pcs bursting bolts;
- 8pcs M8*100mm bolts;
- 16pcs M8 flange nuts.

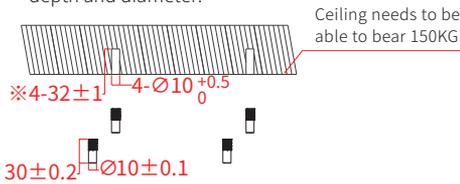


Step ①: Fix the 4 bursting bolts in the 4 pre-drilled holes in the ceiling.

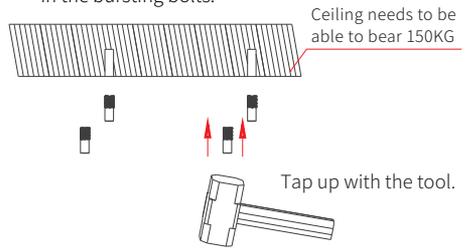
a Drilling dimension diagram:



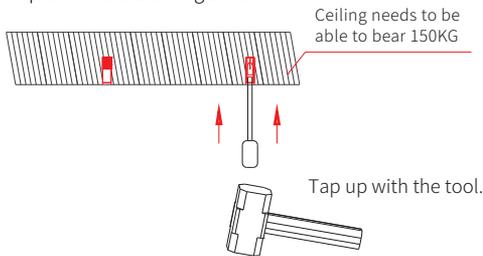
b Schematic diagram of drilling depth and diameter:



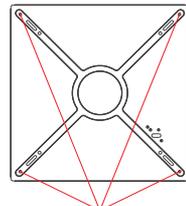
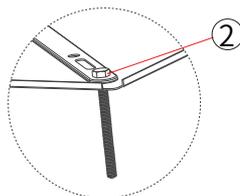
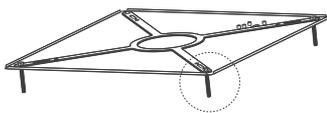
c Schematic diagram of knocking in the bursting bolts:



d Schematic diagram of the knock-in plane of the bursting bolts:

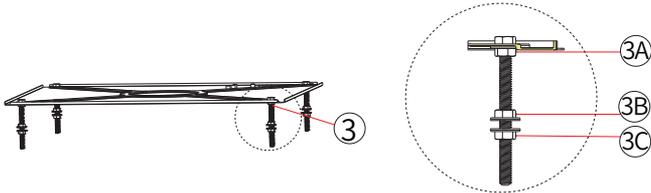


e Schematic diagram of bursting bolts expansion and opening:



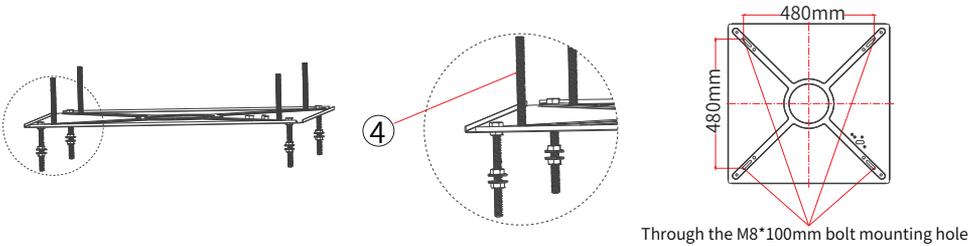
Step ②: Assemble the 4pcs M8*100mm bolts into the holes corresponding to the four corners of the mounting plate.

Installation one (Ceiling type)



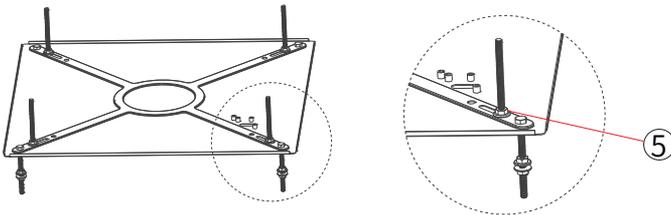
Installation sequence diagram

Step ③: Assemble the 12 pcs M8 flange nuts and M8*100mm bolts in sequence, install the 3 pcs M8 flange nuts for each M8*100mm bolt.
Installation sequence: first install 3A--> then 3B--> last 3C, refer to the installation sequence diagram for the direction of the flange surface.

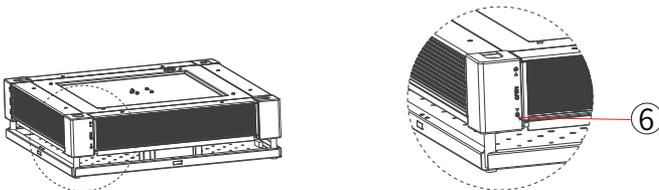


Through the M8*100mm bolt mounting hole

Step ④: Insert the 4 pcs M8*100mm bolts into the holes corresponding to the four corners of the mounting plate.

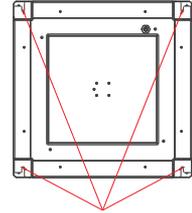
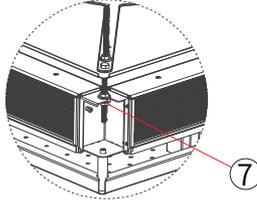
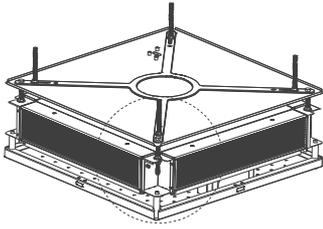


Step ⑤: Assemble the 4 pcs M8 flange nuts and M8*100mm bolts in sequence, Then use a tool to tighten the 4 pcs M8*100mm bolts with the bursting bolts in the ceiling, and then use a tool to fasten the 4 pcs M8 flange nuts.



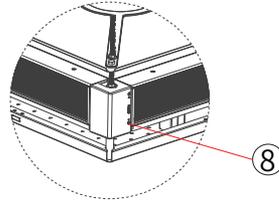
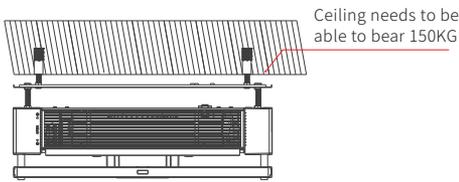
Step ⑥: Use tools to remove the four corner guards on the four corners of the fixture.

Installation one (Ceiling type)



M8*100mm bolt hole position

Step ⑦: Hang the fixture between the upper and lower flange nuts of the M8*100mm bolts on the mounting plate, and use tools to fasten the M8 flange nuts at the four corners up and down.

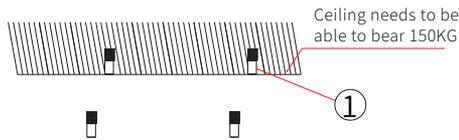


Step ⑧: Reinstall the disassembled 4 corner guards with tools.

Installation two (hanging type)

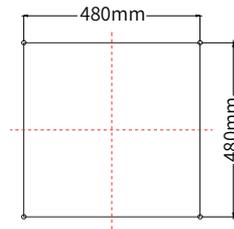
Required components for hanging installation :

- 4pcs bursting bolts;
- 4pcs M8*700mm screw rods (4pcs M8*700 screw rods, 4pcs M8 extended hexagon nuts, 8pcs M8 flange nuts are required for extension);
- 4pcs M8*100mm bolts;
- 20pcs M8 flange nuts.

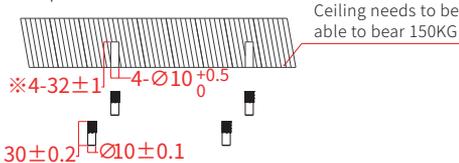


Step ①: Fix the 4pcs bursting bolts in the 4 pre-drilled holes in the ceiling.

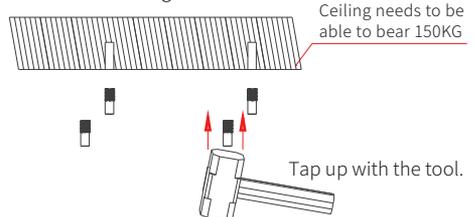
a Drilling dimension diagram:



b Schematic diagram of drilling depth and diameter:

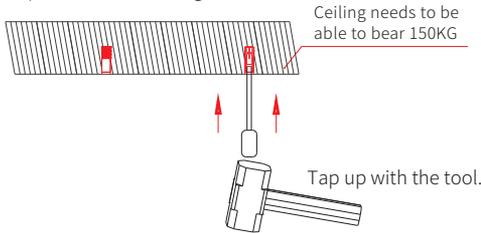


c Schematic diagram of knocking in the bursting bolts:

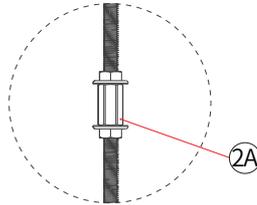
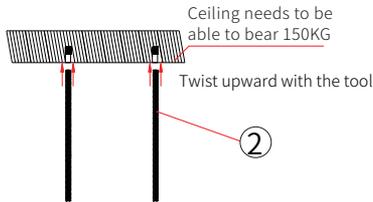


Installation two (hanging type)

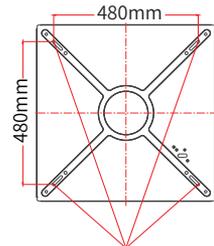
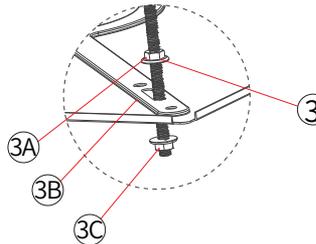
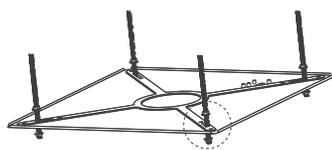
- d** Schematic diagram of the knock-in plane of the bursting bolts:



- e** Schematic diagram of bursting bolts expansion and opening:

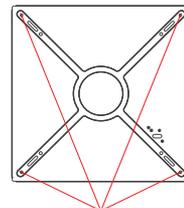
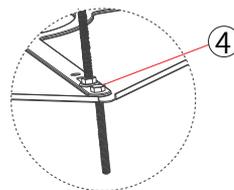
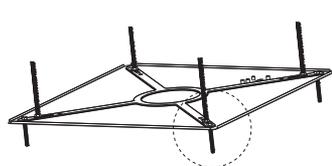


Step ②: Use tools to tighten the 4pcs M8*700mm screw rods with the bursting bolts in the ceiling. If the length of a single M8 screw is not enough, you can use an M8 extended hexagon nut to connect two M8 screws, and each of the two M8 screws can be twisted into the M8 extended hexagon nut by half the depth to achieve the effect of lengthening. The M8 extended hexagon nut is install one M8 flange nut up and down each to prevent the M8 extended hexagon nut from loosening. 2pcs M8 screw rods with 1pcs M8 extended hexagon nut and 2pcs M8 flange nuts, the schematic diagram is in 2A. Tighten up with the tool.



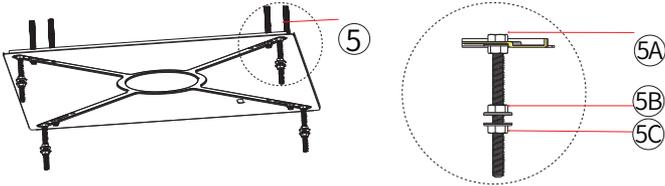
Through the M8 screw hole

Step ③: First assemble the 4pcs M8 flange nuts and the M8 screw that has been tightened with the bursting bolts, then insert the mounting plate into the M8 screw, and finally assemble the 4pcs M8 screws. The M8 flange nuts are twisted on the M8 screw rod, and the 8pcs M8 flange nuts that have just been twisted in are fastened with a tool, and each screw rod is equipped with 2pcs M8 flange nuts. Installation sequence: first 3A (flange nut) → 3B (installation plate) → last 3C (flange nut)



Step ④: Assemble the four M8*100mm bolts into the holes corresponding to the four corners of the mounting plate.

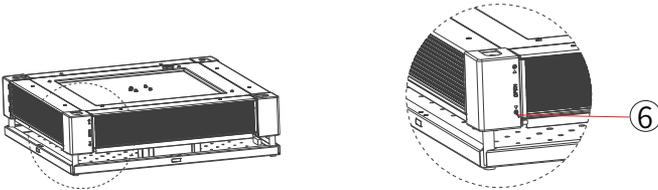
Installation two (hanging type)



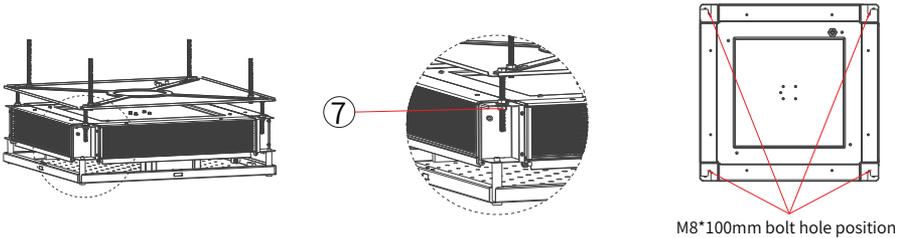
Installation sequence diagram

Step ⑤: Assemble 12pcs M8 flange nuts and M8 bolts in sequence, and install 3pcs M8 flange nuts for each M8 bolt.

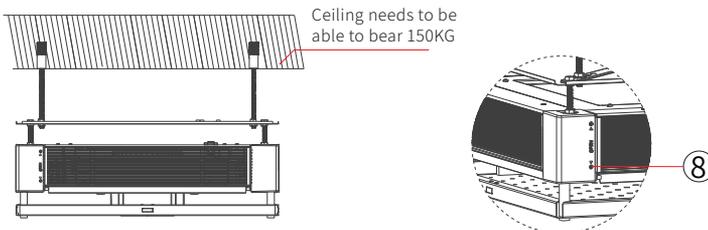
Installation sequence: first install 5A-> then 5B--> last 5C, refer to the installation sequence diagram for the direction of the flange surface.



Step ⑥: Use tools to remove the four corner guards on the four corners of the lamp body.



Step ⑦: Hang the lamp body between the upper and lower flange nuts of the M8 bolts on the mounting plate, and use tools to fasten the M8 flange nuts at the four corners up and down.

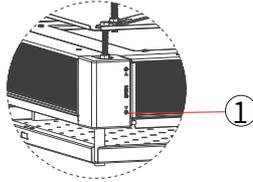
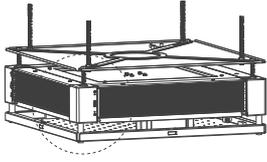


Step ⑧: Reinstall the disassembled 4 corner guards with tools.

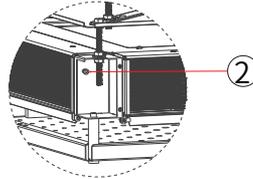
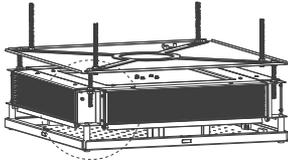
Operating instructions for UV-C tube replacement

Precautions for UV-C tube replacement:

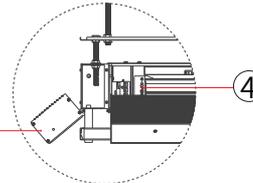
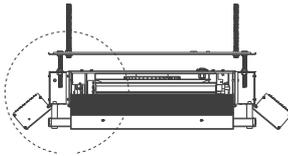
- UV-C tube must be installed and replaced by professionals
- If there is any abnormality after replacing the UV-C tube, please refer to the troubleshooting items in this manual.
- Disconnect the power supply during replacement to prevent electric shock.
- Non professionals shall not carry out to repair.



Step ①: Remove the four corner protectors of the lamp with a tool.

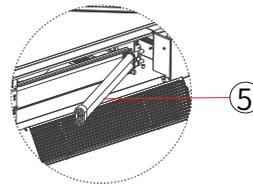
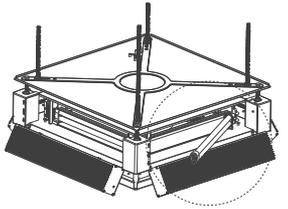


Step ②: Unscrew the screws on the four corners of the lamp body with a tool.

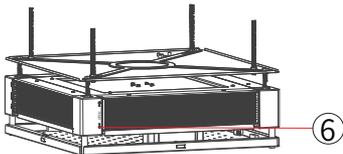


Step ③: Rotate to open the upper plane component.

Step ④: Remove the fixing plate at the end of the UV-C lamp with a tool.



Step ⑤: Hold the UV-C tube by hand and move it to the end of the tube for disassembly.



Step ⑥: after the UV-C tube is removed, replace the new UV-C tube and install the removed parts with tools.

Instructions For Fan Gear Adjustment

- This product controls the wind speed by adjusting the fan gear. Increasing the wind speed can increase the killing rate per unit time.
- The wind speed is divided into 3 gears, 1st gear, 2nd gear and 3rd gear respectively. The 1st gear has the smallest wind speed and the 3rd gear has the highest wind speed. The wind speed can be adjusted according to the actual application scenario.

Gear Parameters		
Gear	Air Volume(CFM)	Noise(dB)
Gear 1	277CFM	47.67dB
Gear 2	354CFM	50.83dB
Gear 3	394CFM	53.98dB

Note: This data comes from a third-party laboratory, the data is for reference only.

Recommended application, purification volume & time:

Fan gear	Category	Spatial scope	recommended purification time(h)
1	Purification volume corresponding to a single product (m ³)	168m ³	>3.5h
	Purification area corresponding to a single product (m ²)	56m ² (Irradiation size: 7.48*7.48m)	
2	Purification volume corresponding to a single product (m ³)	168m ³	>2.5h
	Purification area corresponding to a single product (m ²)	56m ² (Irradiation size: 7.48*7.48m)	
3	Purification volume corresponding to a single product (m ³)	168m ³	>2h
	Purification area corresponding to a single product (m ²)	56m ² (Irradiation size: 7.48*7.48m)	

Note: Based on wall mounting installation in enclosed space, for detailed specs, please refer to the exact application; It is recommended to keep this device on always to purify the air.

Trouble shooting

NO	Failure analysis	Solutions
1	No response when press remote control	Check if the lamp is powered on, check if the remote control battery expired
2	Audio prompt but screen no display	Return to the factory for repair
3	Screen is display but no audio prompt	Check if the remote control battery is expired. If not, return it to the factory for repair
4	Infrared symbol flashing, UV-C off	When there is no living organisms around, the light will automatically turn on after 2 minutes
5	The UV-C tube doesn't work after replacement	Check the connection between UVC tube and socket
6	Non-human trigger lights off	Check if the situation is in the "Notes" in this manual. Check if the ambient temperature exceeds the working temperature. If not, please return to the factory for repair
7	Symbol "❌" keep light after UV-C tube replacement	Press the reset button on the remote control +
8	Symbol "⊗" keep light after cleaning grille	Press the reset button on the remote control +

Warranty

- If the UV-C tube of this product is damaged due to manufacturing process, technology, etc. within 1 year of the purchase date, you can get free warranty service.
- Except for UV-C tube consumable parts, if other components are damaged due to manufacturing process, technology, components and other products within 3 years of the purchase date, you can get free warranty service.
- The free service cannot be obtained under the following circumstance:
 - Beyond the effective service or free maintenance period.
 - Man-made damage caused by improper use. Such as improper installation, not in accordance with the instructions, damage caused by incorrect use, etc. Damage caused by transportation or other accidents. Damage caused by other causes of force majeure (such as natural disasters, abnormal voltage, etc.).
 - Normal product aging, wear, etc., but does not affect the normal use of the product.

safety precaution

- UV-C product, as a device in the application site, shall meet the relevant installation and operation requirements of such products in the application site in addition to meeting all the safety precautions specified in the product installation instruction and operation guide.
- UV-C tube contains mercury, in case of accidental broken, it should be ventilated for 30 minutes, should be put on gloves to remove debris, put in sealed plastic bags, bring it to the local waste disposal point for safe treatment do not use a vacuum cleaner.
- The lamps shall be installed by a qualified electrician and the wiring connecting shall meet IEE electrical standards or local special requirements.
- When installing or maintaining a luminaire, using ESD gloves to avoid marks on the luminaire
- To remove dirt and spots, using the following methods:
 - Dust: Use fleece free fabric only.
 - Fingerprint: using detergent made of synthetic materials with antistatic properties.

Disclaimer

1. The ultraviolet rays of this product cannot be used for lighting purposes and in applications or activities which may cause and or lead to death, personal or animals injury and/or damage to the environment.
2. UV-C luminaires systems must only be sold and installed and replaced by professionals according to our stringent safety and legal requirements.
3. When using this UVC product for indoor, please close the doors and windows, keep the room clean and dry, and reduce dust and moisture.
4. When UVC is irradiated on the object for a long time, it will cause irreversible damage to the object that is not UV resistant, and the object may undergo chemical or physical changes, such as the plastic items that are not UV resistant will become brittle and breakable. When using this UVC product, if there are UV-sensitive items such as oil paintings, plants, and utensils that are within the range of the upper air UV radiation, they should be covered, otherwise, they may be aged or damaged.
5. The installation height of the UVC upper air device should refer to the user manuals and/or the mounting instructions. Within the range of ultraviolet radiation, if the wall or ceiling is a smooth reflective surface (such as mirrors, bright stainless steel, etc.), there is a risk that the ultraviolet rays will be reflected the safety area of below 2.1m.
6. We do not promise or warrant that the use of the Products will protect any user from or prevent infection and/or contamination with any viruses, bacteria, protozoa, fungi, illness or disease.
7. There is high efficiency UVC generating device inside. No disassemble and open it except the professionals, as it may cause injury when ultraviolet rays are directly exposed to eyes or skin. Maintenance personnel need to wear professional uv protection goggles and skin protection before repair.
8. The UVC Products are not intended for and must not be used for medical purposes.
9. In addition to and without limitation of any exclusions or limitations of liability of us as set forth in any agreement for the sale, distribution or otherwise making available of the UV-C lamp/fixture/devices, we shall have no responsibility or liability whatsoever for any claim or damage that may arise from or relate to any use of the UV-C lamp/fixture/devices outside of their intended use or contrary to their installation and operation instructions, each as described in this document, the user manuals and/or the mounting instructions.
10. The product must be designated by the manufacturer's professional and technical personnel, other personnel are not allowed to dismantle or replace without authorization.

Warning

1. UV-C is harmful to humans or animals, please do not directly irradiate the skin or eyes, please leave the irradiation Purification range as soon as possible after lighting.
2. If you feel uncomfortable after being irradiated, please leave the UV-C light source as soon as possible.
3. In severe cases, headache, dizziness, increased body temperature, eye irritation or vision loss, skin redness, swelling, itching, scaling, etc., please seek medical advice in time.

	 Warning
	UV-C light is emitted from this product, avoid Eyes and skin are directly irradiated, follow the installation instructions and user manual.