

Portable 20W

Far UV 222nm Light

Installation Manual

Portable 20W is designed to help reduce airborne germs in small to medium rooms.

PRECAUTIONS

WARNING - According to the Photobiological Safety Test IEC/EN62471, humans should not be exposed to 222nm ultraviolet radiation over 22mJ in a day. The time humans can be exposed to 222nm is related to the power of light and distance to the light source. Ready the label and any operation manual before using

FIRT AIR INSTRUCTIONS:

In case of injury, consult a medical doctor.

The use of this device is a supplement to and not a substitute for standard infection control practices; users must continue to follow all current infection control practices, including those practices related to cleaning and disinfection of environmental surfaces.

SAVE THIS INSTRUCTION MANUAL FOR FUTURE REFERENCE

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Portable Far UV 222nm Light





Description

Now you can reduce germs using portable Far UV even in occupied indoor spaces. Conventional UV-C lights (254nm mercury lamps or 260-280nm LEDs) are limited in that they can only be used safely in unoccupied spaces or completely contained with no leakage. Far UV cannot penetrate the active layer of human skin and is adsorbed by the top layer of dead skin cells. The eyes' tear layer works to block Far UV, protecting them. This means that portable Far UV can target air and surfaces even while people are present.



- * Filtered 222nm Far UV light
- * Targets both air and surfaces in line-of-sight
- * 150° angle adjustability
- * Discreetly install on the wall or ceiling, or handheld
- * Continuous use and vacancy sensor modes
- * Interior reflectors increase UV intensity

Product Specifications

Battery operation Model	
Model	JK-FUVC222-WB-YD-30W
Dimensions	368*96*72.9mm
Input Voltage	12 VDC
Input Power	21W
Peak wavelength	222nm (with filter)
Battery charging time	3 hours
Battery operating time	Approx. 75 min
Lamp type	KrCl far UVC excimer lamp
UV Lifespan	Up to 5000 hours
Installation	Handheld /Ceiling wall/ Tripod mounted
Irradiance at 1cm	1631 uW/cm2
Irradiance at 0.1m	239 uW/cm2
Storage temperature	-20 - 50°C

Charger Input voltage	110-240VAC (50/60HZ) (UL certified)	
charger output voltage	12VDC	
Charge output current	1A or 2A	
Accessories included	Adaptor, adjustable bracket, 4 screws,	
Warranty	2 years	
Materials	Aluminum casing, powder coated bracket, crystal quartz glass	
iviaterials	bandpass filter	
Adaptor operation Model		
Dimensions	368*96*72.9mm	
Adaptor Input Voltage	110-240 VAC (50/60HZ)	
Adaptor Input Power	21W	
Adaptor output Voltage	12VDC (2A max)	
Wavelength	222nm (with filter)	
Lamp type	KrCl excimer lamp	
UV Lifespan	Up to 5000 hours	
Installation	Handheld /Ceiling wall Tripod mounted	
Irradiance at 1cm	1631 uW/cm2	
Irradiance at 0.1m	239 uW/cm2	
Storage temperature	0-50°C	
Assessaries included	110-240VAC (50/60HZ) - 12VDC(UL certified) charger	
Accessories included	power cord, handle bracket, wall mount kit,	
Warranty	2 years	
Materials	Aluminum casing, powder coated bracket, crystal quartz glass	
ivialeridis	bandpass filter	

Installation Precautions

- * Cut off the power supply before installation, make sure the switch is turned off to prevent electric shock, and do not touch the surface of the lamp after the lamp is on. Avoid installing this lamp in places with heat sources and hot steam and corrosive gases, so as not to affect the lifespan.
- * Install securely and flat with no shaking, vibrations, or fire hazards that could cause the device to fall, collide with other objects, or swing and hit something
- * Product must be installed by a professional electrician
- st The wall or ceiling with the installed lamp must be able to withstand a tensile force of 10kg
- * If left unused for a long time, store the lamps in a cool, dry, and clean environment. They must not be stored in humid or high temperature areas or in areas at risk of fire and explosions
- * Try to avoid installing the lamp in the position directly facing a large change of air flow (such as: cold / hot gas outlet, exhaust fan outlet, near the electric heater, etc.).

Installation Instructions

portable can be used in three methods, hand-held/ceiling/wall.

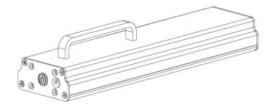
The following accessories are included in the package.

A device with handle, one adjustable bracket with 4 screws, an adaptor

1. Handheld

When using the UV wand for surface treatment, there are two working modes: mains and battery. To operate with mains, ensure that the cord is connected firmly to the device and the mains. Switch on the device by using the button located on the side of the device until it turns green. For battery operation, disconnect the cord from the mains and device, and use the adaptor to charge the battery. Once the battery is fully charged, disconnect the adaptor from the device, hold the handle of the device and keep it face down. Press the on/off switch until it turns green, and the device is ready to use. Note: The device will operate for approximately 75 minutes when the battery is fully charged.

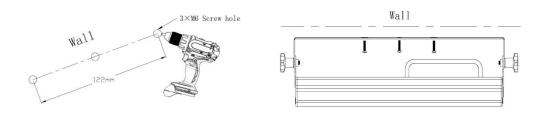
Hold the handle of the device by hand with the face down and keep it one centimeter away from the object to be targeted. Switch on the power and move it at 1 cm per second along the object. It achieves more than 3mJ/cm2 dosage. Keep moving back and forth along the same surface for a higher dosage.



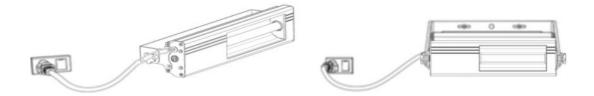
Note: More distance needs more duration to achieve the appropriate dosage to disinfect viruses and bacteria.

2. Wall mounting

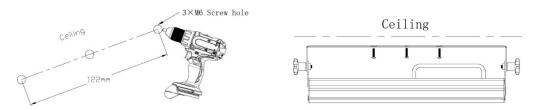
- 2.1 Locate the place of the device to be installed. It shall be at least one meter above the occupant.
- $2.2\,$ Assemble the provided adjustable bracket with the 4 screws onto the device.
- 2.3 Drill holes in the wall according to the distance between the two circular holes of the wall bracket, use the appropriate screws or drywall anchors, fix the bracket to the wall, and finally adjust the angle of the light emitted, ensuring the UV light is pointing in the appropriate direction. Tighten the thumb wing screws at both sides.



2.4 Insert the lamp power plug into the wall outlet. Turn on the device by switching on the on/off button. Switch on the outlet. The device is operating.



- 3. Ceiling mounting
- 3.1 Locate the place of the device to be installed. It shall be at least one meter above the occupant.
- 3.2 Assemble the provided adjustable bracket with the 4 screws onto the device.
- 3.3 Drill holes in the wall according to the distance between the two circular holes of the wall bracket, use the appropriate screws or drywall anchors, fix the bracket to the wall, and finally adjust the angle of the light emitted, ensuring the UV light is pointing in the appropriate direction. Tighten the thumb wing screws at both sides.



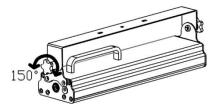
3.4 Insert the lamp power plug into the wall outlet. Turn on the device by switching on the on/off button. Switch on the outlet. The device is operating.



- 4. Tripod mounting
- 4.1 Prepare a tripod with a bar fixed to the tripod. The bar shall be prepared to have the holes for M6 screws with distance of 122mm.
- 4.2 Fix the bracket to the bar with screw and nuts firmly.



4.3 Adjust the angle of bracket with the supplied thumb screws to ensure the UV light is pointing in the appropriate direction. Tighten the thumb wing screws at both sides.



4.4 Insert the lamp power plug into the wall outlet. Turn on the device by switching on the on/off button. Switch

on the outlet. The device is operating.

Note: The luminaire shall be at least 1 meter above the occupant when it is installed at the tripod.



- 1. From the date of purchase, warranty for the entire luminaire is 2 years. If the product is damaged due to manufacturing or technical defects, you can get free warranty service.
- Free warranty service cannot be obtained under the following circumstances: It is past the effective free warranty service period
- Man made damage caused by improper use such as: improper installation, not used according to instructions, damaged caused by incorrect use, etc. Damage caused by transportation or other accidents.
- 4. Damage caused by a force majeure (such as natural disasters, power disruption, etc.) Normal product aging, wear, etc. but does not affect normal use of the product.

Safety Precautions

- * UVC 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.
- * Dispose of the unit and excimer lamp in accordance with regional requirements. Far UV excimer lamp does not contain mercury.
- * The lamps shall be installed by a qualified electrician and the wiring connection shall meet IEE electrical standards or local special requirements.
- * When installing or maintaining the luminaire, use ESD gloves to avoid marks on the fixture.
- *To remove dirt and spots, use the following methods:
 - ° Dust: Use lint-free fabric only
 - ° Fingerprints: Use detergent made of synthetic materials with antistatic properties.

Disclaimer

- 1. The ultraviolet rays of this product cannot be used for conventional lighting purposes or in applications or activities which may cause and or lead to death, injury to people or animals, and/or damage to the environment.
- 2.UVC fixtures must only be sold, installed, and replaced by professionals according to safety and legal requirements.
- 3. When using this UVC product indoors, it is advised to keep doors and windows closed. Keep the room clean and dry, and reduce dust and moisture.
- 4. The use of this device is a supplement to and not a substitute for standard infection control practices; users must continue to follow all current infection control practices, including those practices related to cleaning and disinfection of environmental surfaces.

- 5. There is a UVC radiation emitting lamp inside the fixture. No one except professionals should attempt to disassemble and open it except for professionals as it may cause injury when UV rays are directly exposed to eyes and skin. Maintenance personnel need to wear UV protection goggles and cover skin before servicing the unit
- 6. This UVC product is not intended for and must not be used for medical purposes.
- 7. 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 the UVC 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 UVC 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.
- 8. The product must be designated by the manufacturer's professional and technical personnel, other personnel are not allowed to dismantle or replace without authorization.



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FIRST AID INSTRUCTIONS: In case of injury, consult a medical doctor.

Dispose of the unit and excimer lamp in accordance with regional requirements. Far UV excimer lamp does not contain mercury.

