

## Intelligent UV & OZONE Sterilization Box ULTIMATE

VVP101R



**2**  
years  
warranty



UVC LED



275nm UVC



120°



Center box  
Irradiance:  
240 $\mu$ W/cm<sup>2</sup>



Hand-held  
Irradiance:  
5000 $\mu$ W/cm<sup>2</sup>



60mg/m<sup>3</sup>  
27ppm



2cm  
Sensor distance



7.4V/2600 mAh  
Li-ion



UV: 3-3.5h  
O<sub>3</sub>: 15-16h



3-4h



IP20



245x155x121mm



1.2kg



5V  $\approx$  2A



Max 11W



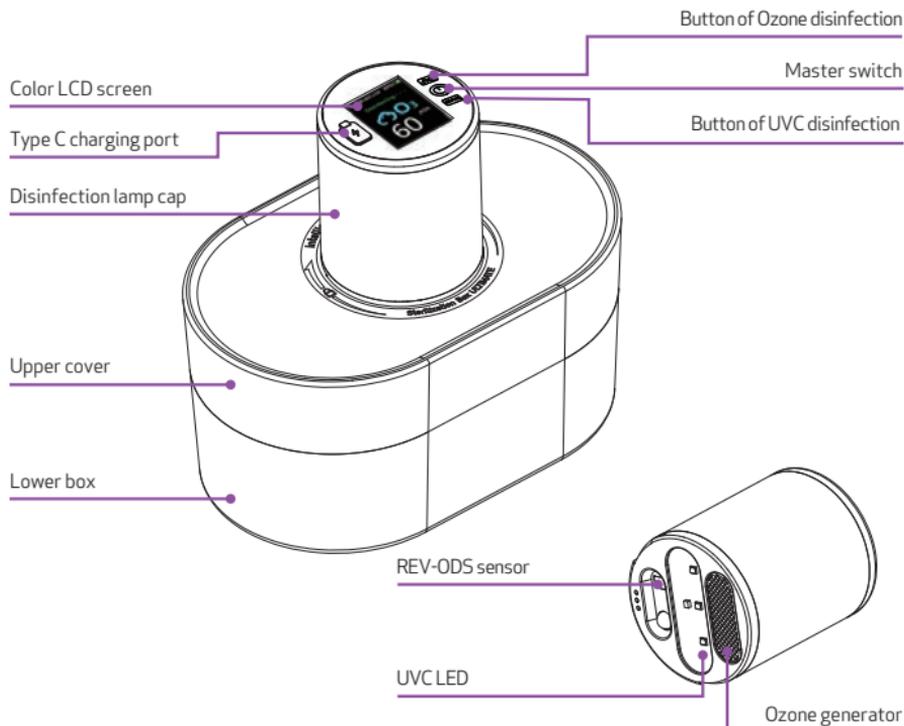
Type C

Work light specifications

## Product Features:

- Double-effect disinfection combination, fully reflect the high efficiency of ULTRAVIOLET disinfection and 360° no blind angle of OZONE disinfection.
- A multi-purpose box can meet the using demands of whole family along with realizing the classified disinfection and mobile disinfection.
- The metal deposition in the disinfection box can strengthen the reflection efficiency and realize 360° all-round sterilization and disinfection without blind angle.
- The inside of disinfection box is equipped with the interlayer, which can increase the disinfection area to the backside of articles after the ultraviolet is reflected from the inner bottom of box.
- The design of Hall Switch for the disinfection box, opening the box will automatically stop the disinfection work, which can effectively avoid the damage of ultraviolet or ozone to human body.
- During the hand-held using, REV-ODS intelligent Reverse Obstacle Detection System will start automatically. If detecting the distance between the light source of disinfection light head and the surface of articles to be disinfected exceeds 2cm, it will automatically stop the disinfection work, and reach the safe energy-efficient effects.
- In case of disinfecting the surface of articles by independently hand-held using, it is usually able to kill 99.9% bacteria and virus on the surface or articles within 3 to 5 seconds.
- With the intelligent button operation interface, it is able to independently select and adjust the disinfection mode and disinfection time.
- Color LCD screen can display the information e.g. disinfection mode, disinfection time and state of charge etc. in real time.
- UVP101R has the memory function. After starting the machine each time, the screen will display the mode and time of disinfection work for the last time.
- Type-C charging, portable and durable.

## Schematic Diagram of Product:



## Operation Instruction:

- After starting the machine, please select language: short press " "to select English
  - Long press both of " " and " " for more than 5 seconds, the unit will automatically switch off and reset the language selection, you can reselect language in the next use
- I. Disinfection lamp cap is fixed with upper cover of box and lower Box (Mode 1). (ULTRAVIOLET mode or OZONE mode are optional for disinfection)**
1. Long press " " for 1.5 seconds to start the machine, the screen displays "Double-click start / stop disinfection" for 5 seconds. If not performing any operation after starting the machine, it will automatically switch off after 30 seconds for the energy conservation and environment protection.
  2. The screen displays "Fixed use" to indicate the installation for disinfection lamp, upper and lower box of box is completed; If there is any separation between disinfection lamp cap, upper cover of box and lower box of box, and then the screen will display "Handheld use".
  3. Short or long press " " f to select "O3 60 min" or "O3 120 min" mode.
  4. Short or long press " " f to select "UVC 5 min", "UVC 10 min" or "UVC 30 min" mode.
  5. After selecting the disinfection mode, double-click " " f to start disinfection, the screen displays "Disinfecting...".
  6. In case of any separation between disinfection lamp cap, upper cover of box and lower cover of box in the course of disinfection, it will automatically stop the disinfection work, and the time will return to the preset time.
  7. In the progress of disinfection, double-click " " to stop working, and time will return to the preset time.
  8. Long press " " during the disinfection to switch off the machine.
  9. Short press any button during the disinfection will not be effective.
  10. It will automatically stop the ozone work in the last 10 minutes of preset time in the course of ozone disinfection, and activate the ultraviolet automatically to perform 10-minute ozonolysis.
  11. If the battery level is lower than 20% and the battery level displays in red " ", it is required to charge as soon as possible to avoid that the remaining battery power is insufficient to finish one complete disinfection.
  12. If the screen displays "Disinfection finished" and time displays the green number 0, it indicates the disinfection work is completed.
  13. After the disinfection work is completed, it will automatically switch off after 30 seconds if not performing any operation for the energy conservation and environment protection.
  14. The disinfection lamp cap has the memory function: After starting the machine each time, the screen will display the mode and preset time of disinfection work for the last time.
- II. Separate hand-held operation for disinfection lamp cap (Mode 2). (Only ULTRAVIOLET disinfection mode)**
1. Long press " " for 1.5 seconds to start the machine, the screen displays "Double-click start / stop disinfection" for 5 seconds. If not performing any operation after starting the machine, it will automatically switch off after 2 minutes for the energy conservation and environment protection.
  2. The preset mode is "UVC 60 min", double-click " " to start disinfection.
  3. The intelligent REV-ODS system will start automatically during the disinfection
    - If REV-ODS system doesn't detect the articles to be disinfected, the screen will display "Please move closer", and unit will automatically stop the disinfection work. It will automatically switch off after 2 minutes for the energy conservation and environment protection
    - If REV-ODS system detects the articles to be disinfected, unit will automatically resume the disinfection work, and screen will display "Disinfecting...", and unit will continue the previous work for time countdown
  4. In the progress of disinfection, double-click " " to stop working, and time will return to the preset time "60 min".
  5. Long press " " during the disinfection to switch off the machine.
  6. Short press any button during the disinfection will not be effective.
  7. If the screen displays "Disinfection finished" and time displays the green number 0, it indicates the disinfection work is completed.
  8. After the disinfection work is completed, it will automatically switch off after 30 seconds if not performing any operation for the energy conservation and environment protection.

## Suggested Time for Disinfection Articles (Mode-1, disinfection lamp cap is fixed with upper cover of box and lower box):

1. Time suggestion for ultraviolet disinfection:
  - As for the ordinary small-sized articles, such as mobile phone, watch, pen, key chain etc., it is suggested to disinfect for 5 minutes
  - As for the ordinary middle-sized articles, such as mask, milk bottle etc., it is suggested to disinfect for 10 minutes
  - As for the professional article disinfection, it is suggested to appropriately extend the disinfection time
2. Time suggestion for ozone disinfection:
  - As for the ordinary article disinfection, it is suggested to disinfect for 60 minutes
  - As for the professional article disinfection, it is suggested to appropriately extend the disinfection time

## Warning and Notice:

1. In order to ensure the usage of this product is safe and effective, please read and understand this User Manual before the usage.
2. Please avoid the electric shock hazard. It is prohibited to use this product in the environment with gas, flammable and explosive substances, and heat source.
3. Please don't disassemble, repair or modify without permission.
4. Please don't operate with wet hands.
5. This working light can only be used under the regulatory voltage and frequency.
6. Please don't look straight at the light source to avoid causing the damage to the eyes.
7. The children from 0 to 12 years old are prohibited to use this product.
8. UV light is prohibited to directly irradiate the skin and eyes within 15cm.
9. During the ozone disinfection, it is prohibited to open the box. If you need stop disinfection in the course of disinfection, please long press the master switch for 3 seconds to shut down, then open the box in the wide and ventilated environment.
10. Under the ozone disinfection mode, please don't perform the disinfection to the bright-colored articles e.g. lather, fabric, rubber etc.
11. Under the ultraviolet disinfection mode, please don't perform the disinfection to the bright-colored articles e.g. lather, fabric, rubber etc.
12. The parameters listed for this product are only the data tested in the standard laboratory, and the different environmental temperature will have impact to these parameters.
13. The battery can only be replaced by the service providers authorized by ALS, and replacing with the battery of incorrect model will have the explosion hazard.

## Warranty:

Two-year warranty (The battery and accessory shall not belong to the scope of warranty).

As for the product damage caused by the improper usage or the operation of not complying with this User Manual, our company will not undertake the corresponding responsibilities.



Patent Information



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