



## Virus killer-Safety in Use

270-280nm Ultraviolet Disinfection  
Build a healthy defense



Portable Sterilizer UV Light  
Easy to carry, Disinfecting Anytime Anywhere



Disinfect quickly in 5-30S



Toy



Socks & shoes



Baby Clothes



Underwear



Mattress quilt



Sofa



Car interior



Dinner Ware

## Portable UVC+UVA LED Sterilizer

### Anti-germ 99.9%:

The UV disinfection light destroys the molecular structure of DNA or RNA of viruses with light wavelength in the range of 270 ~ 280nm.

### Portable, Sterilize Anytime:

with compact design and light weight super convenient to stored it in backpack or suitcase for use while traveling and outings. It's your personal health expert especially in the critical period.

### Disinfecting Quick and Effective:

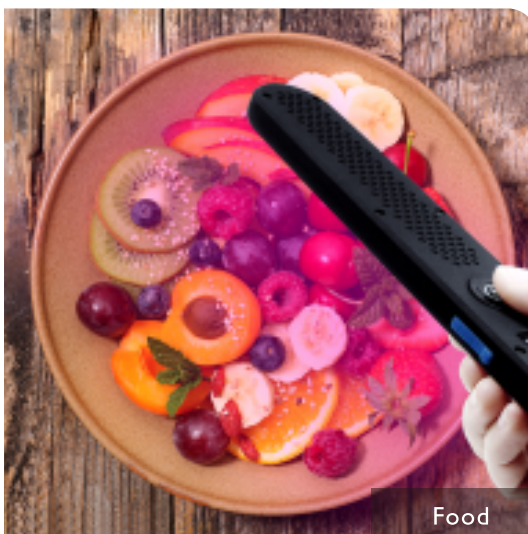
Turns on the UV sterilizer light, simply sweep the UV light sanitizer wand across the surface or stuff you desire to clean, it makes the environment safe and clean within 30 seconds. Please keep 3-5cm distance to the items need disinfecting, stay longer (30s-50s) and the effect better. More delighting news is it brings no damage to any surfaces, creates non-toxic, no residue, no odor or harsh chemical.

### One-button Start & Widely Used:

With one button to control can't be more simple! Led sanitizer light tube equipped green indicator light on the back, no need checking if the UV lights working with your eyes, avoid any potential harmful. Very widely used to clean your daily stuff like phone, keyboard, kitchen, living room or baby items, deeply disinfecting your clothes, couch and beddings.

### Quality & Safety Guarantee:

UVA+UVC LED comes with high transmittance quartz glass to ensure obvious sterilization effect and durable, Led UV Lamp lifespan more than 10000+ hours.





# LED Ultraviolet Sterilizer



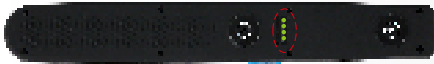
Flashlight

Bacteria Sterilize  
**99.9%**

UVC+UVA LED

UVC 270-280nm & UVA 390-410nm

Sterilizer time & battery indicator



Quartz glass package

DC charging port

LED  
WORKITN LAMP

Power Button

G-Sensor

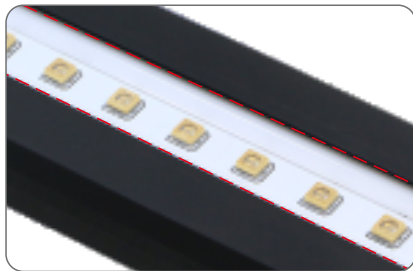
Turns off automatically when flipped up





### Button switch :

Press one time to turn on/off UVA/UVC Sterilizer  
Hold 3s to turn on/off flashlight



### UVC+UVA LED

UVC 270-280nm & UVA 390-410nm  
Led lifespan more than 10000+ hours.



### DC charging port

DC5V 1A



### G-Sensor

Turns off automatically when flipped up



### Flashlight

120lm high brightness flashlight for urgent use



### Magnet

Free your hand with the magnet.

## LED-UVC Disinfection

# VS

## Mercury lamp

Saved 95% ✓

Power

✗ High

Mercury-free ✓

Environmental

✗ With Mercury

instant on ✓

Start time

✗ Warm Up

5-30 S ✓

Disinfecting time

✗ 15-30mins

No ✓

Ozone

✗ With

Compact ✓

Size

✗ Big

Low ✓

Temperature

✗ High

Durable ✓

Damaged

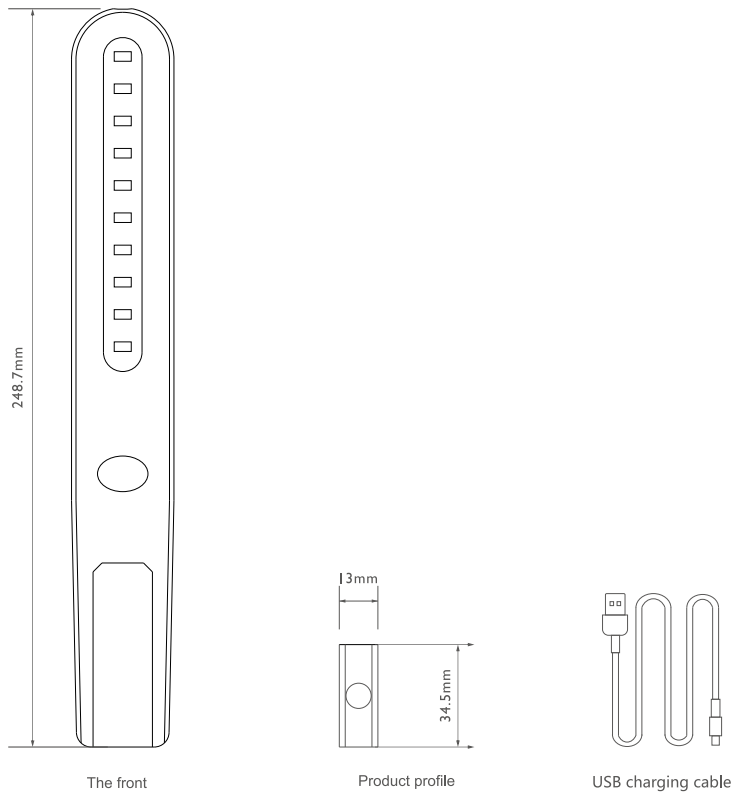
✗ Fragile



Disinfect quickly in 5-30s


Please keep 3-5cm distance to the items need disinfecting, stay longer (5-30s)

## Portable UVC+UVA LED Sterilizer



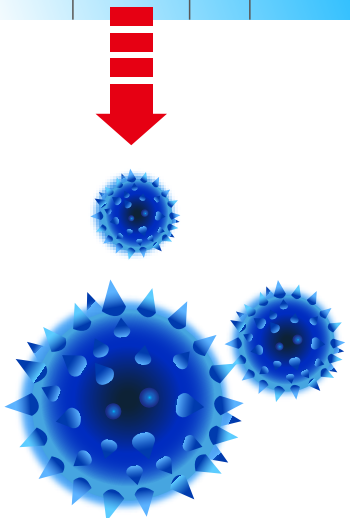
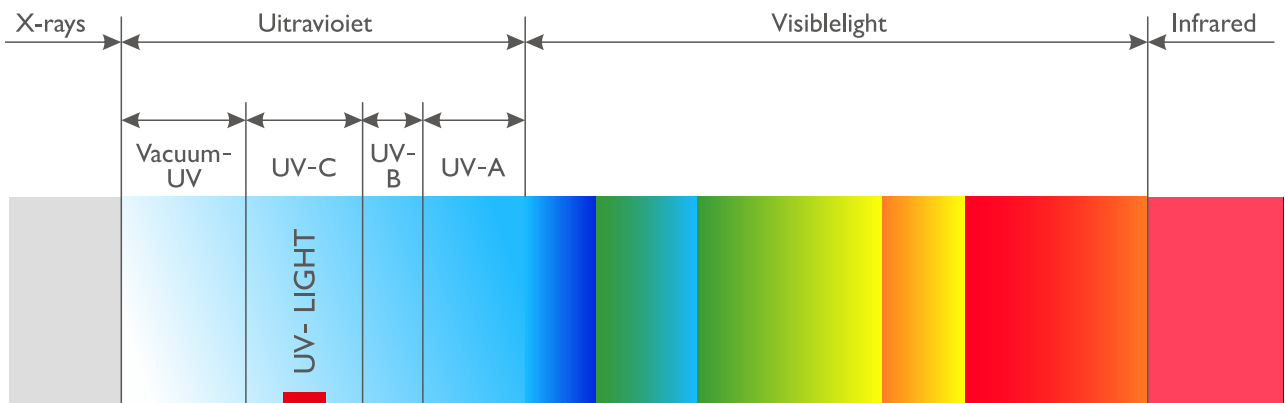
Item:	Portable Sterilizer UV Light	Battery life:	≥80% after 300 cycles
Size:	248.7x34.5x13mm	Charging time:	120min
Power:	3W	Flashlight:	120lm
LED QTY:	10PCS	UVC Radiant Flux $\phi_e$ (mW):	30-40mW
UVA:	390-410nm	UVA Radiant Flux $\phi_e$ (mW):	1200-1600mW
UVC:	270-280nm	Viewing angle:	120°
Working time:	>2500S	LED Life:	10000 hours
Flashlight:	>7000S	Charging / working temperature:	0-30°C
Battery capacity:	3.7V/600mA	Storage temperature:	-10-40°C

## INSTRUCTIONS

 Do not use the lamp to irradiate eyes or skin, and keep out of children.

1. Press the button to turn ON/OFF and the four indicator lights on the back flash at the same time for 3S to display the current power, then it start to the working mode.  
The working duration of each time of the lamp is 99S, and the indicator lights goes off from right to left.
2. Sterilization effect: 10-30S scanning back and forth, keep 3-5CM away from the articles, the closer the scan, the longer the sterilization effect is better.
3. This lamp is equipped with a gravity protection switch, which can automatically turn on to work when tilted downward or 45 degrees, can also automatically turn off when the lamp towards the side or upward.
4. Press and hold the button for 3S to turn ON/OFF the flashlight.
5. Indicator lights: charging indication, power indication, sterilization time indication;

Ultraviolet comes with A/B/C/D wavelength,  
UV-C Radiation is the best for disinfection



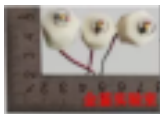
**Warm tips:**  
avoid direct ultraviolet lamp when disinfecting eyes  
Do not use ultraviolet lamp to illuminate human body and other animals

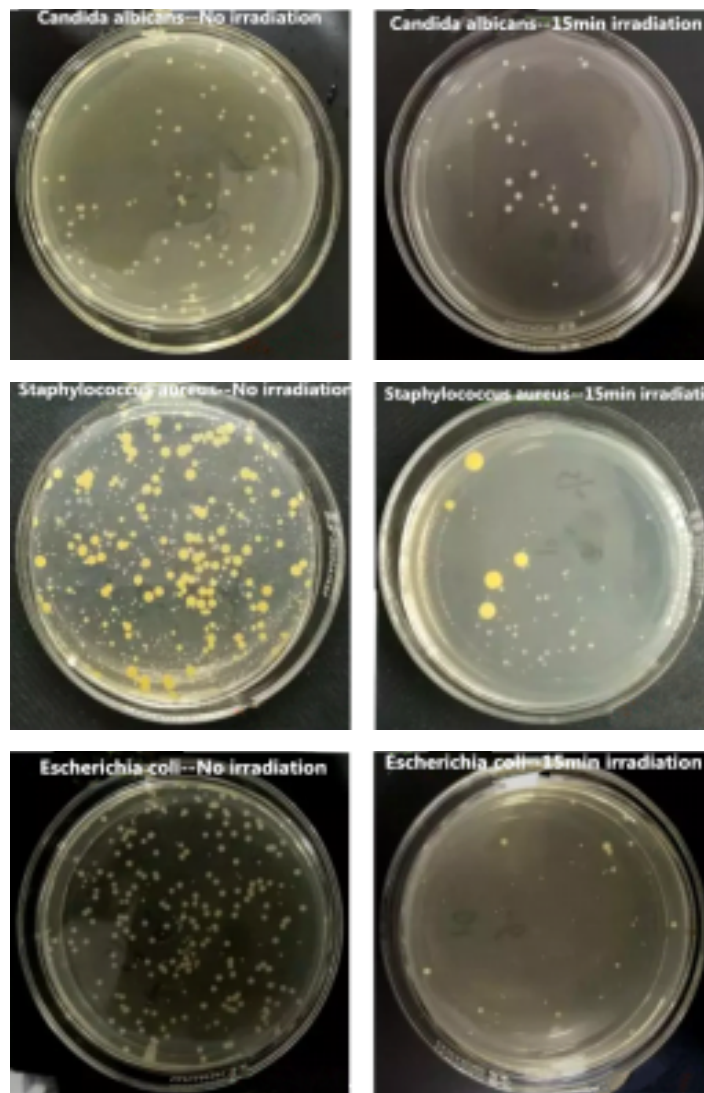


Comparison of bactericidal effect of the same product on different strains

Testing sample : UV LED\*3 275nm,at 1meter irradiation distance, the radiation intensity is 98μW/cm 2.

After irradiating for 15minutes,the comparison of bactericidal effect of Candida albicans,Staphylococcus aureus,Escherichia coli

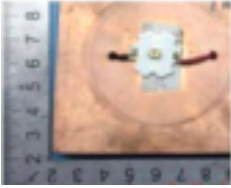
Sample	Bacterial Strains	LEDs current	Testing Condition		Total number of colonies in the control group ( CFU/mL )	Colony counts in experimental group ( CFU/mL )	Sterilizing rate (%)
			irradiation distance	irradiation time			
	Candida albicans	3*330mA	1.0m	15min	$3.55 \times 10^5$	$3.2 \times 10^4$	15min
	Staphylococcus aureus	3*330mA	1.0m	15min	$3.35 \times 10^5$	$5.0 \times 10^1$	15min
	Escherichia coli	3*330mA	1.0m	15min	$8.2 \times 10^5$	$2.4 \times 10^2$	15min

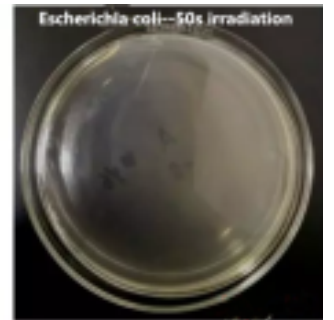
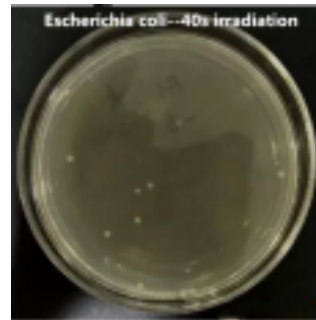
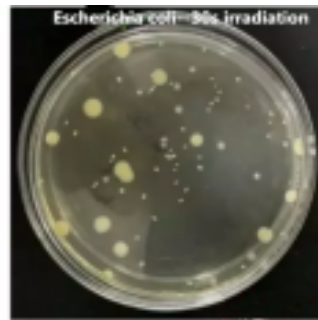
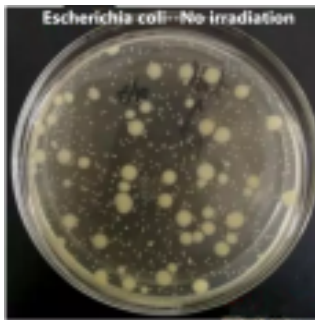


### Comparison of bactericidal effect of the same product in different duration time

Testing sample : UV LED 280nm, at 5cm irradiation distance

After irradiating for 15minutes, the comparison of bactericidal effect of Candida albicans, Staphylococcus aureus, Escherichia coli


Sample	Bacterial Strains	LEDs current	Testing Condition		Colony counts after testing ( CFU/mL )	Sterilizing rate (%)
			irradiation distance	irradiation time		
	Escherichia coli	-	No irradiation		$4.8 \times 10^4$	-
		350mA	5cm	30S	$7.5 \times 10^2$	98.44%
		350mA	5cm	40S	$1.4 \times 10^2$	99.74%
		350mA	5cm	50S	<1	>99.99%

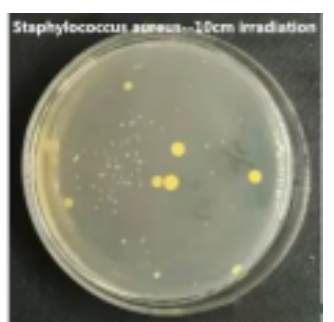
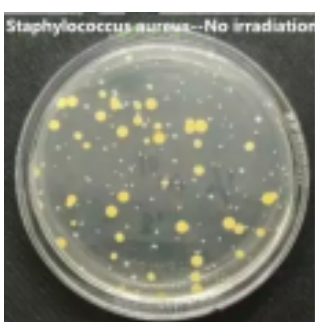


### Comparison of bactericidal effect of the same product on different strains

Testing sample : UV LED 275nm, irradiation height with 5cm, 7cm, 10cm different height

After irradiating for 60s, the comparison of bactericidal effect of Staphylococcus aureus

Sample	Bacterial Strains	LEDs current	Testing Condition		Colony counts after testing ( CFU/mL )	Sterilizing rate (%)
			irradiation distance	irradiation time		
	Staphylococcus aureus	-	No irradiation		$1.5 \times 10^4$	-
		300mA	5cm	60s	<1	>99.99%
		300mA	7cm	60s	$8 \times 10^2$	94.66%
		300mA	10cm	60s	$4 \times 10^2$	46.66%



Deep UV UV sterilization advantages:

1. High-efficiency sterilization: The sterilization and inactivation of bacteria and germs is generally completed within a few seconds, which occurs almost instantaneously.
2. Broad-spectrum sterilization: It can kill almost all bacterial viruses with high efficiency.
3. No secondary pollution: no other chemical pollutants are generated.

The sterilization efficiency of deep ultraviolet light on common bacterial viruses is as follows:

Type	Name	Time required for 100% sterilization (s)	Type	Name	Time required for 100% sterilization (s)
Bacteria	Bacillus anthracis	0.3	Bacteria	Mycobacterium tuberculosis	0.41
	Diphtheria	0.25		Vibrio cholerae	0.64
	Tetanus	0.33		Pseudomonas	0.37
	Botox	0.8		Salmonella	0.51
	Shigella	0.15		Intestinal fever	0.41
	E.coli	0.36		Typhoid	0.53
	Leptospira	0.2		To Heiella	0.28
	Legionella pneumophila	0.2		Staphylococcus	1.23
	Microbacterium	0.4-1.53		Streptococcus	0.45
Pathogens	Adenovirus	0.1	Pathogens	flu virus	0.23
	Phage virus	0.2		Poliovirus	0.8
	Coxsackie virus	0.08		Rotavirus	0.52
	Aike virus	0.73		Tobacco mosaic virus	16
	Acovirus type I	0.75		Hepatitis B virus	0.73
Mold spores	Aspergillus niger	6.67	Mold spores	Soft spores	0.33
	Aspergillus	0.73-8.80		Penicillium	2.93-0.87
	Macrofaeces	8		Penicillium toxin	2.0-3.33
	Mycobacterium	0.23-4.67		Penicillium other fungi	0.87
Algae	Blue-green algae	10-40	Algae	Paramecium	7.3
	Chlorella	0.93		Chlorella	1.22
	Nematode eggs	3.4		Protozoa	4-6.70
Fish disease	Fungl disease	1.6	Fish disease	Infectious pancreatic necrosis	4
	White spot	2.67		Viral hemorrhagic disease	1.6

Classification of UV bands

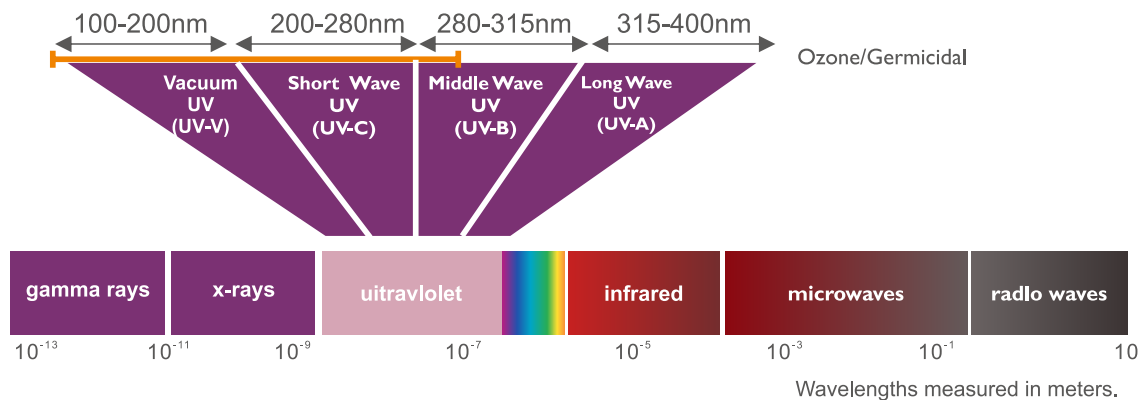
Divide the ultraviolet band according to the wavelength:

UVA: 315-400nm (near ultraviolet NUV365-400nm), applications include curing, photocatalytic purification, anti-counterfeiting and other fields.

UVB: 280-315nm, applications include light health / medicine, light regulation for plant growth, etc.

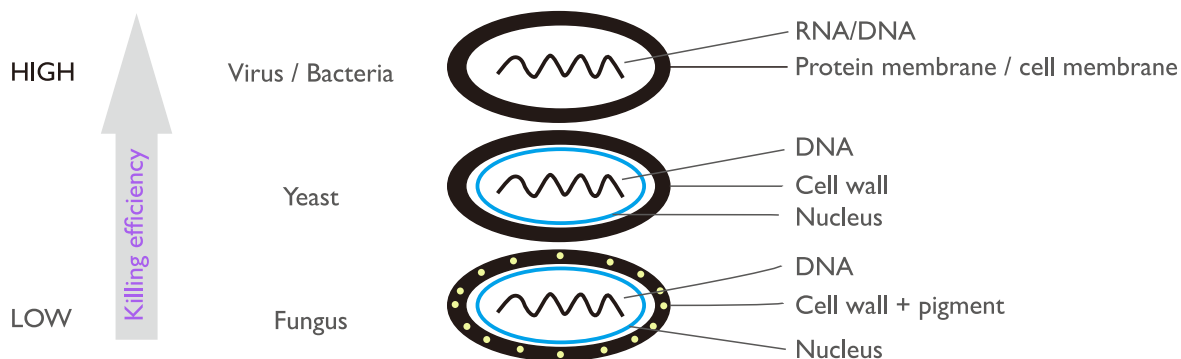
UVC: 200-280nm ("solar blind" ultraviolet light), used for disinfection and disinfection of water, air, etc.

## Electromagnetic Spectrum

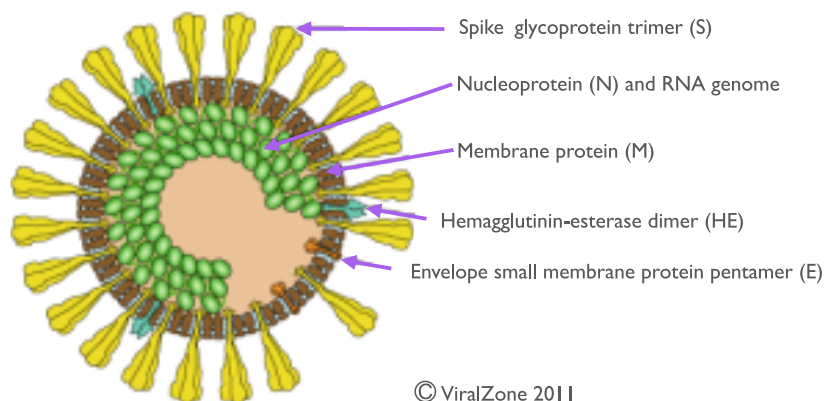


Third, the principle of ultraviolet disinfection

Ultraviolet disinfection technology is based on modern epidemiological, medical, and photodynamic research foundations, using specially designed high-efficiency, high-intensity and long-life UVC band ultraviolet lamps. Ultraviolet radiation damages microorganisms (pathogens such as bacteria, viruses, spores, etc.) and destroys nucleic acid functions, thereby killing microorganisms and achieving the purpose of disinfection and sterilization. The inactivation effect depends on the dose of ultraviolet radiation.



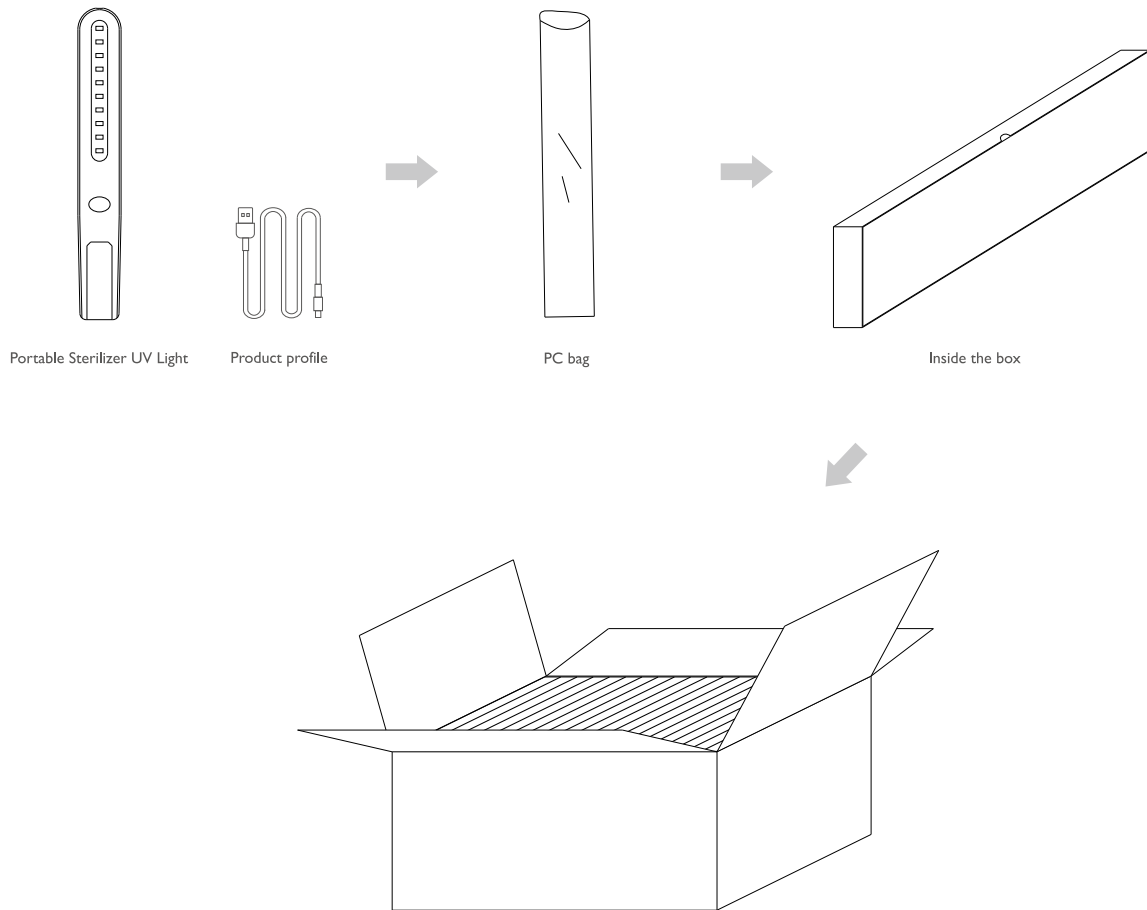
### Murine Hepatitis Virus (MHV)



From the main structure of various microorganisms, the simpler the structure, the easier it is to be inactivated. The new coronavirus is a single-stranded positive-strand RNA virus. It has no complete cell structure and is easily killed by ultraviolet rays.



Product packaging



Item	Model	CR-GL03
Box Size		281x84x30mm
Qty / Box		1 pcs
Carton Size		620x296x273mm
Qty / Carton		60pcs
G.W.		14.7Kg

Note: there may be tolerance on weight, please check with us for details.