

Nugens Virus Nemesis UVC Transformer Sterilizer

99.9% Germ Eliminating

Made in Taiwan

Protect yourself and others by making disinfection a habit

Model: UVC-100

User Manual

Aug 8, 2022



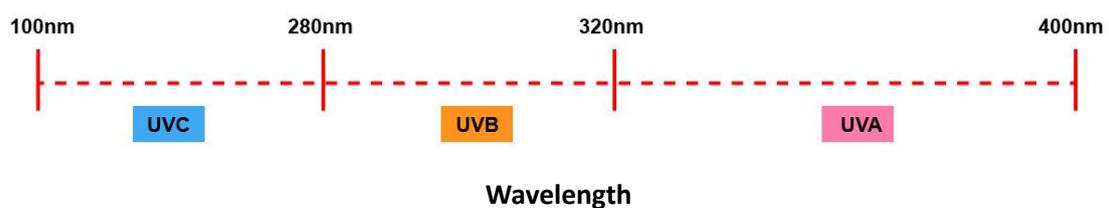
Contents

i.	Features	5
ii.	Product Appearance	7
iii.	Instructions.....	7
	(1) Child Safety Lock.....	7
	(2) Handheld Mode	8
	(3) Bracket Mode.....	9
	(4) Battery Charging	9
	(5) Indicator Light Status.....	10
iv.	Product Size	10
v.	Troubleshooting	12
vi.	Specification.....	12
vii.	Precautions.....	13
viii.	Warranty.....	14

Ultraviolet disinfection technology is commonly used in hospitals, bacteriological research, and military and aviation fields. UV-C ultraviolet rays use a purely physical sterilization method, which can destroy the DNA and RNA of microorganisms such as bacteria, killing 99.9% of the bacteria and making them lose reproduction and viability. Effectively removes odors and eliminates particles that cause pneumonia, asthma, and allergies.

Why does UV light kill bacteria?

Ultraviolet light has a wavelength of 100-400nm, which can effectively destroy the DNA of microorganisms, causing them to lose reproduction and perish. UVC ultraviolet rays have a wavelength of 265nm~280nm, which is the best wavelength for sterilization.



According to the Taiwan Consumer Foundation report, the wavelength is recommended to be below 280nm to achieve the bactericidal effect.

The influence of factors such as wavelength, intensity and irradiation time should also be evaluated to achieve a good sterilization effect. In theory, if

sufficient conditions are met, bacteria, molds, viruses, etc. within the irradiation range can be killed.

The Consumer Base Association pointed out: "User is difficult to know whether the UV-C sanitizer is useful." "Do you know the distance between the sterilizer stick and the object need to be?" "How long does it take to be fully illuminated?" "User cannot just scan the object and thought that the sterilization is done!"

UV dose is the product of irradiation intensity and irradiation time: K (sterilization dose) = I (irradiation intensity) * t (irradiation time), irradiation time and intensity will directly affect the sterilization effect.

According to the formula, the impact of high-intensity short-time irradiation and low-intensity long-time irradiation is the same.

i. Features

- Dual-mode – wireless or wired mode, even if the battery is out stock, it can still be powered by the USB-C cable.
- Exclusive seat bracket, two height designs to ensure effective sterilization time range
- Built-in 2 high-wattage UVC-grade 280nm professional-grade sterilization and disinfection UV lamps
- Low voltage protection, over current protection, charging protection, overheating protection
- Child Safety Lock (Power Button)
- Exclusive hands-free stand, automatic timing of irradiation time and intensity to ensure the best sterilization and disinfection effect.
- Effective sterilization and disinfection according to laboratory reports to avoid threats such as Corona, Enterovirus, Influenza, and Norovirus
- Applicable to various fields such as hospitals, clinics, classrooms, offices, shops, restaurants, and public areas.
- Applicable to various items such as mobile phones, tablets, documents, banknotes, cards, small objects, microphones.

Where to use?



【Electronics】



【Clothing】



【Baby Products】



【Office Supplies】

ii. Product Appearance



iii. Instructions

(1) Child Safety Lock

To avoid accidents caused by accidental contact by children, this product has a safety lock. If the safety lock is not turned on, this product cannot be used.

To use this product, please turn the switch to the ON position to unlock it.



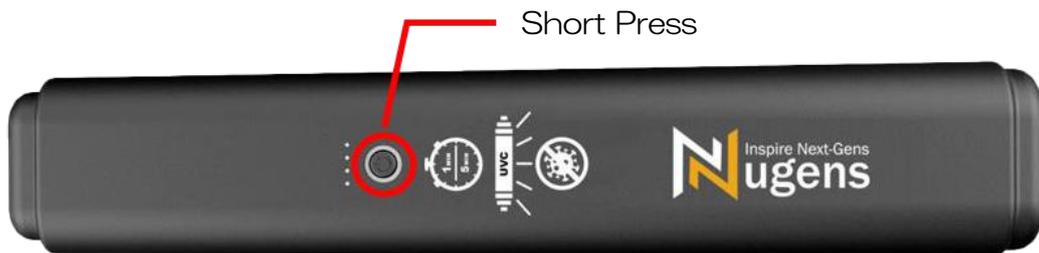
(2) Handheld Mode

- Before use, please turn the child safety lock to the [ON] position to unlock it.

Note: When using, do not irradiate the UVC light towards people to avoid harming the human body.

- 1-min Sterilization Mode

Short press the [sterilization button] , the indicator light will light up in white, enter the sterilization mode, and automatically shut down after 1 minute.



If you want to turn it off in the middle of the sterilization process, please long press the [sterilization button]  until it is turned off.

- 3-min Sterilization Mode

Press and hold the [sterilization button]  for 3-sec, the indicator light will turn on red, enter the sterilization mode, and automatically shut down after 3-min.

If you want to turn it off in the middle of the sterilization process, please long press the [sterilization button]  until it is turned off.

(3) Bracket Mode

The sterilizer can be fixed on the bracket for hands-free sterilization.

There are 2 height designs on the bracket, which can adapt to the sterilization needs of different items.



When using the Bracket Mode for sterilization, you can also plug in the charging cable to the sterilizer to charge and use it at the same time.

(4) Battery Charging

Charge the Nugens UV-C sterilizer by using the provided USB Type-C cable, we recommend you use the 5V/2A adapter.

*You can charge and use the device at the same time.

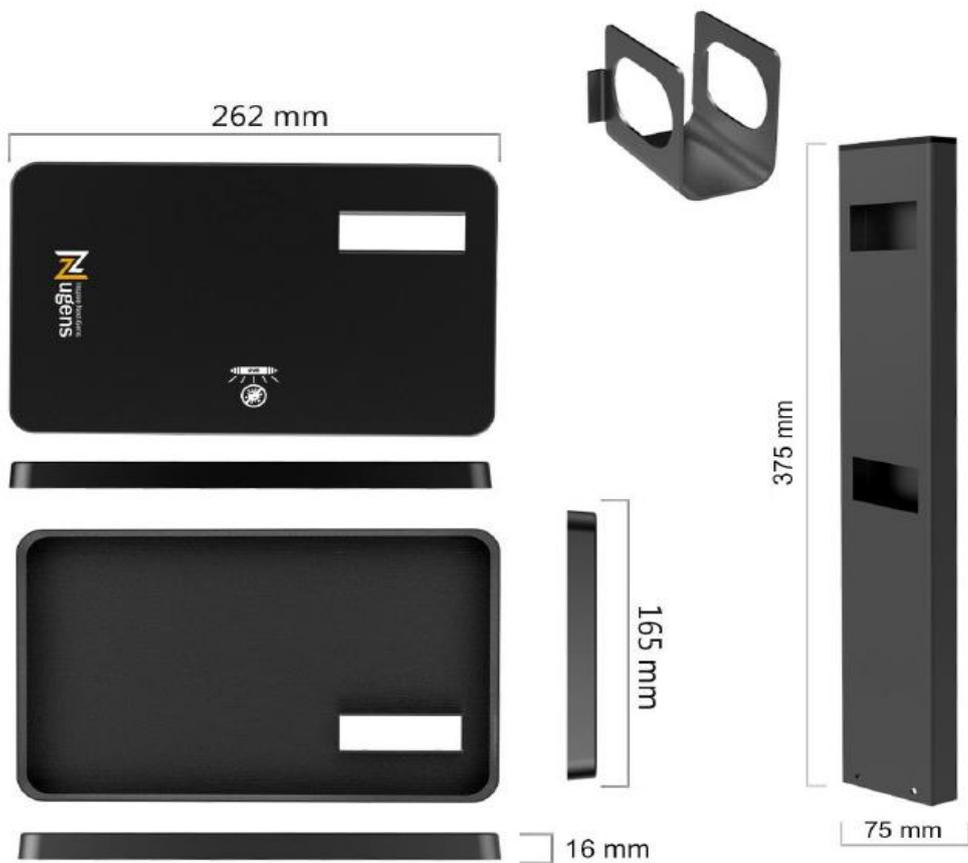


(5) Indicator Light Status

Indicator Light	Status
White Indicator	1-min Sterilization Mode
Red Indicator	3-min Sterilization Mode
Blinking White and Red Indicator Lights	The device starts thermal protection
Blue Indicator	Showing battery level: 100% full battery level is 4 blue indicators; every blue indicator has a 25% of battery
Blue Indicator Blinking	Charging battery

iv. Product Size





v. Troubleshooting

Problem	Troubleshooting
Sterilizer cannot be used	<ul style="list-style-type: none"> ● Please check the child safety lock ● Please check the battery level
Sterilizer cannot be charged	<ul style="list-style-type: none"> ● Please use 5V/2A adapter when charging ● Please double check the cable and see if it is in good condition, we recommend you use the original cable.

vi. Specification

Max. Irradiation Range	30x20cm
Recommended Disinfection Time	1~3cm-2 secs 3~15cm: 1 min 15cm~30cm: 3 mins
Effective Distance	0~30cm
LED Lifespan	>10000 hours
UVC Wavelength	265nm~280nm
UVC Specs	LD2AQNB (UVA+UVC)
UVC Lightbulb	2 Lightbulbs
Power Charging Port	USB Type-C
Auto Shut Down	1 min or 3 mins
Power Safety	Low voltage protection, over current protection, charging protection
Input Power	DC 5V,2A
Power Consumption	2W
Battery Capacity	3450mAh
Charging Time	2.5 hours, able to charge and use at the same time
Working Time	About 2 hours

Working Temp.	10°C~45°C (Include Battery Charging Temp.)
Storage Temp.	0°C~45°C
Working Humidity	5% ~90%
Storage Humidity	< 65% (Include Battery Storage Humidity)
Product Size	Sterilizer: 259x50x32mm Bracket: 262x165x16mm

vii. Precautions

- This product should be stored in a dry place, avoid direct sunlight, and avoid using in humid environments.
- Do not expose the product to moisture places.
- Keep UV rays away from eyes and skin when using.
- **Direct exposure to eyes and skin can cause skin burns and eye irritation.**
- Children should not use this product to prevent direct exposure to UV light.
- Do not use this product on pets or human
- Please wipe the product with a clean soft dry cloth.
- Do not use detergents to clean this product.
- This product is not suitable for irradiating any foods

ix. Warranty

1. The product warranty period is determined by the purchase certificate, and the product warranty period is 1 year.

2. Warranty Conditions:

- General Warranty: Consumers who buy this product are entitled to send it to our company for free repair or replacement within the warranty period. The replacement parts are mainly accepted products with the same or higher specifications.
- New product warranty: within 7 days (inclusive) of the invoice date, if the hardware fails, the packaging and accessories are in good conditions, and the new product can be replaced by the company with the invoice.
- Maintenance warranty: The company provides a 90-day warranty period for the repaired products. During this period, if the same failure reason occurs again, consumers can enjoy free maintenance services.
- This warranty does not apply to items that listed as free gifts or marketing materials.
- The ownership of the replacement parts, etc. when the company provides warranty and maintenance services 'all rights are reserved by u-Smart Technology Co., Ltd and Nugens Technology

3. Except for the machine itself, other accessories are regarded as consumables, (such as lamp beads, charging cables, wrist straps) are not covered by the warranty.

4. The appearance and printing of the machine are not covered by the warranty due to natural aging.

5. To ensure the rights of customers, please keep the proof of purchase documents, please do not remove, or smear the product serial number of this product to prevent it cannot be correctly identified.

6. If the product is caused by improper use, disassembly, and assembly without the written authorization of the company, any change in specifications, or the use of non-original accessories, the product is judged to be human-made damage, and we will have the right to terminate the warranty service.

