Vendi222 FAR UVC LIGHT 222nm



VE28B-20W

A smart system of human body surface sterilization

Specifications



Remote Controller



Power Adapter



Dimensions: 307*117*48mm

Wattage: 20W

UV Wavelength: FAR UVC 222nm

Effective UV Intensity(with Filter): 3000 μW/cm²

Input Voltage: DC24V

Voltage: AC100V~240V(with AC/DC Adapter)

Ambient Operating Temperature Range: -10°C to+50°C

Expected Lifespan: 4000+H

Safety Requirement: Mercury-Free

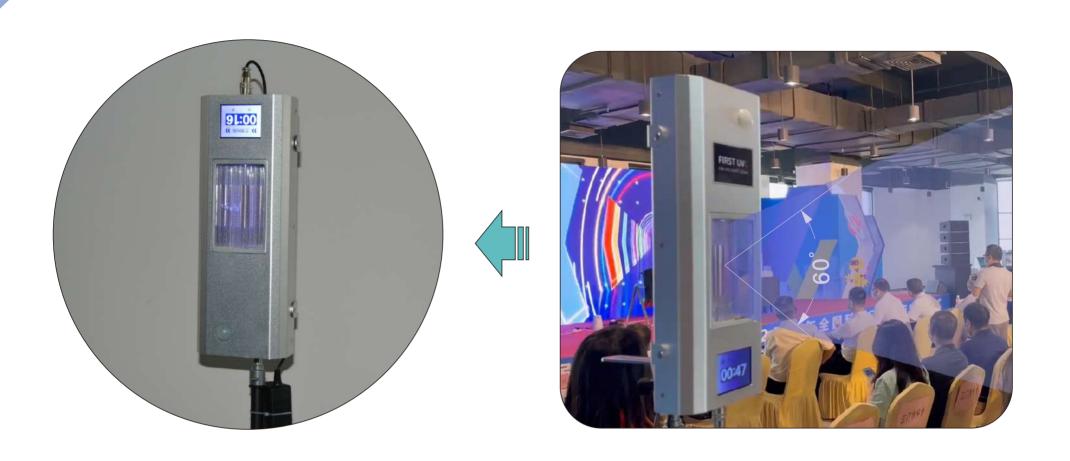
Storage Environment: Dry, and Ventilation Environment Optional Function: Motion Sensor And Timer Module;

Material: High Purity Quartz Glass

Sandblasting Oxidation(Silver)

Aluminum Alloy

How to use?



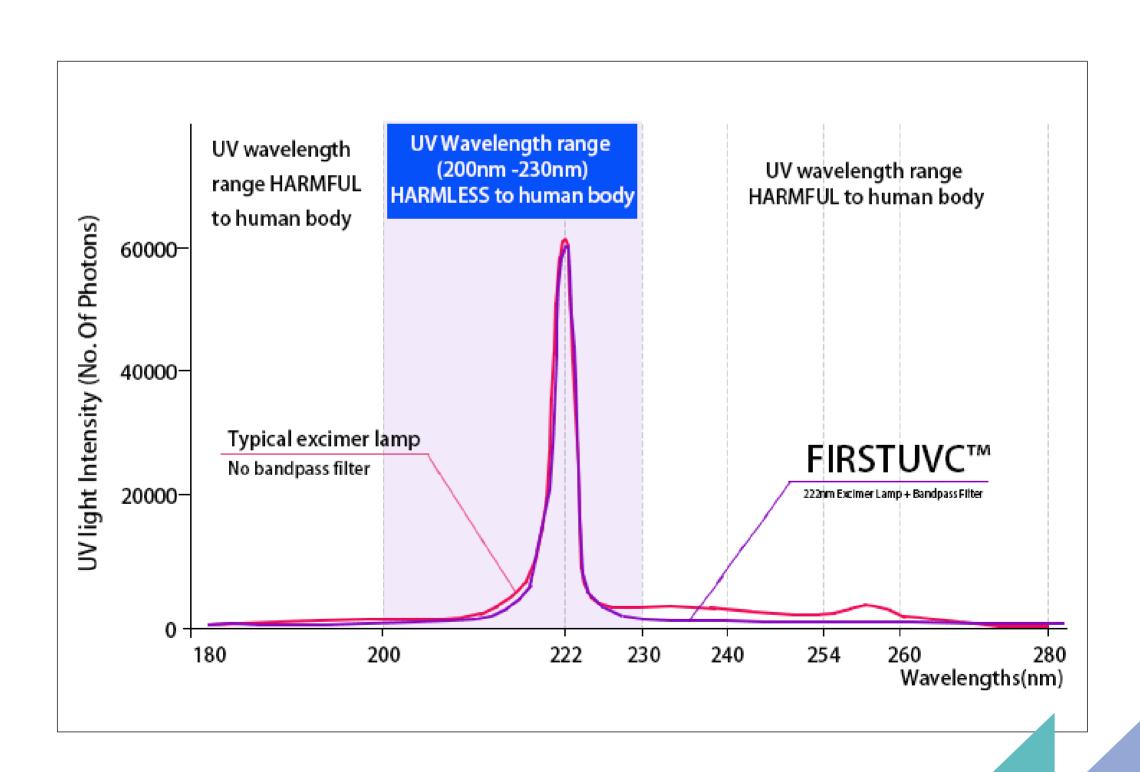
Installed on a tripod, which is convenient for various occasions.



Installed on the roof of offices, supermarkets, etc. for effective disinfection.

Vendi222 BANDPASS FILTER

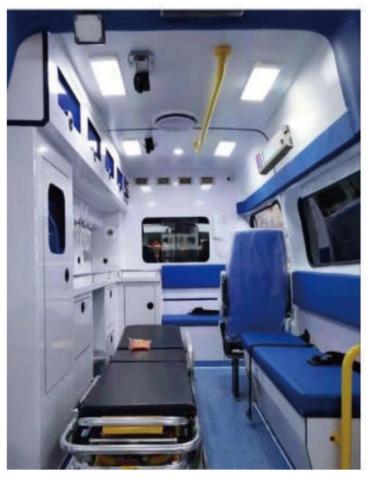
Proprietary Safety Filter Technology Included to Ensure Narrowband 222nm Emission



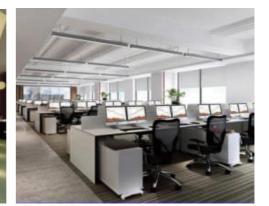
VendiGlobe

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Occasion of intensive crowds/ time of air pollution are health hazardous







Restaurant

Office

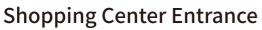




Ambulance

School Hospital













Bank

FAR UVC sterilization

FARUVC has strong bactericidal ability. After irradiation, It can destroy the bacterial DNA structure and lose its vitality and fecundity.



Candida albicans (Hand, foot, and mouth disease (HFMD), Fever)

E. coli (Diarrhea, vomit)





Salmonella Typhimurium (Acute gastroenteritis)

Staphylococcus aureus (Cough, pneumonia)





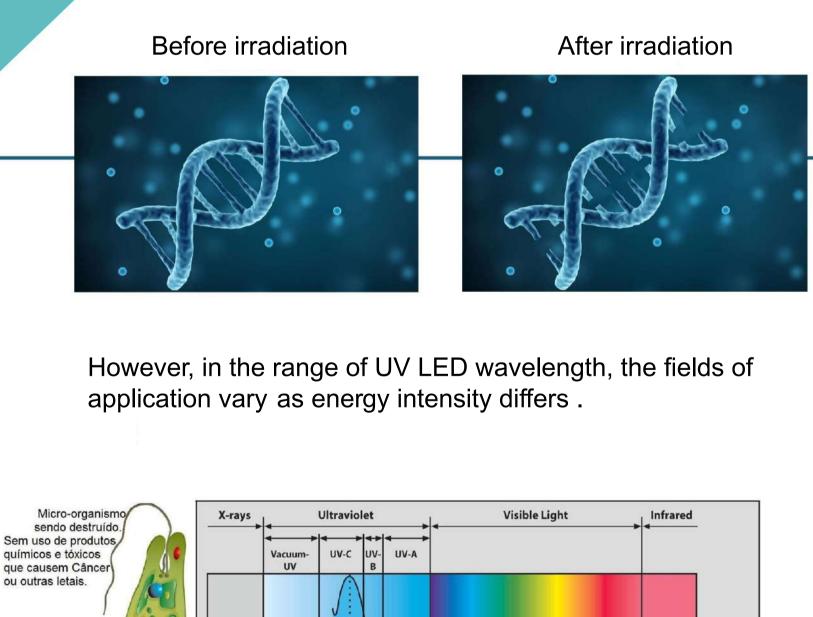
Haemolytic streptococci (Tonsillitis)

Currently there are no bacteria that are found by all scientists and biologists in the world to be imperishable by UVC LED.

Eliminate bacterial reproduction

Experiments show that faruve can destroy the DNA structure of bacteria, make it lose its vitality and fecundity, and then die, so as to achieve the purpose of sterilization and disinfection.





100

200

280 315

Peak Germicidal Efficiency 254 nm 400

The Spectrum of Light

780 Wavelength (nm)

www.xgerms.com.br

Irradiação Ultravioleta na Banda C no comprimento de 254 nanometros é mais eficaz e eficiente para a desinfecção de vírus e bactérias letais.

Vendi222

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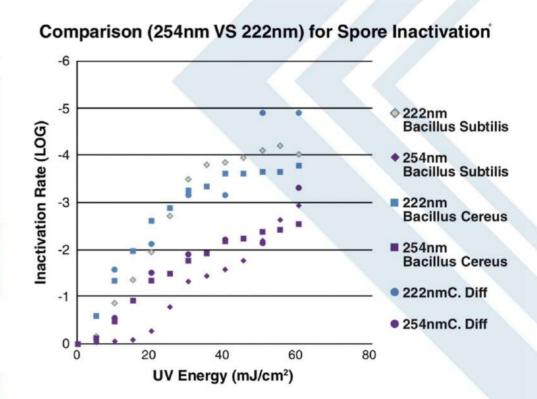
Far ultraviolet light 222nm

Far ultraviolet light (222 nm) can effectively kill pathogens such as coronavirus without damaging exposed human tissues. This is because, due to its strong absorption in biomaterials, far ultraviolet light can not even penetrate the outer layer (non living layer) of human skin or eyes. However, because bacteria and viruses are micron or smaller in size, far ultraviolet rays can penetrate and inactivate them.



Disinfection effect: comparison between 222 nm and 254 nm

Domain		Species			Dose for 3ld [mJ/	og reduction cm2]
		•			222 nm	254 nm
	MRSA	メチシリン	耐性黄色	ブドウ球菌	15	10
	Pseudomonas aeruginosa	緑膿菌			8	4
	Escherichia. coli O157	大腸菌0-1	57		9	5
	Salmonella typhimurium	ネズミチフ	ス菌		10	4
tive	Campylobacter jejuni	カンピロバ	クター		4	4
Vegetative Bacteria	Bacillus subtilis	枯草菌		Vegetative cell (栄養型)	7	8
	Bacillus cereus	セレウス菌			44	90
	Bacillus subtilis	枯草菌		Spore	30	60
	Clostridium difficile	クロストリ ディフィシ		(芽胞)	30	60
75	Candida albicans	カンジダ・	アルビカン	ンス	24	40
s an	Penichillium expansum	アオカビ			50	50
Molds and Yeasts	Aspergillus niger	黒色麹菌	Hypha		>1000	>700
	MES	ボクニロナ	Spore		>500	>700
Virus	MS2	バクテリオ		YI52	23	50
viius	Feline calicivirus Influenza virus	ネコカリシ インフルエ			24 6	24 6

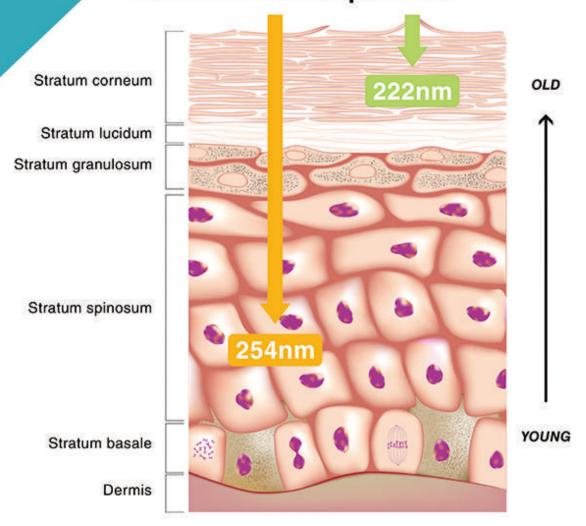


Germicidal irradation, benefits, and differences of ULTRAVIOLET LIGHT

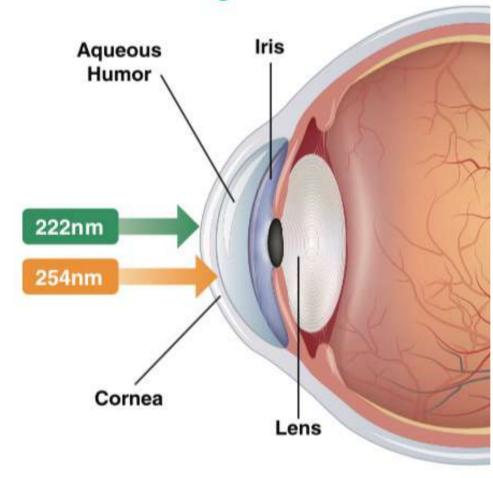
UV type	NANOMETERS (nm)	SAFE for skin and eyes	RAPID DEGRADATION on materials like plastic and rubber	PRACTICAL USES
VUV Far-UV	100-200	YES	YES	Medical equipment
Far-UVC	207-222	YES	YES	Germicidal, most effective for disinfecting, sensing
UV-C	200-280	NO	YES	Germicidal, most effective for disinfecting, sensing
UV-B	280-315	NO	YES	Curing, tanning, medical applications
UV-A	315-400	NO	NOT TYPICALLY	Curing, printing, lithography, sensing, medical applications

Skin Absorption Penetration Showing 222nm vs. 254nm

Structure of the Epidermis

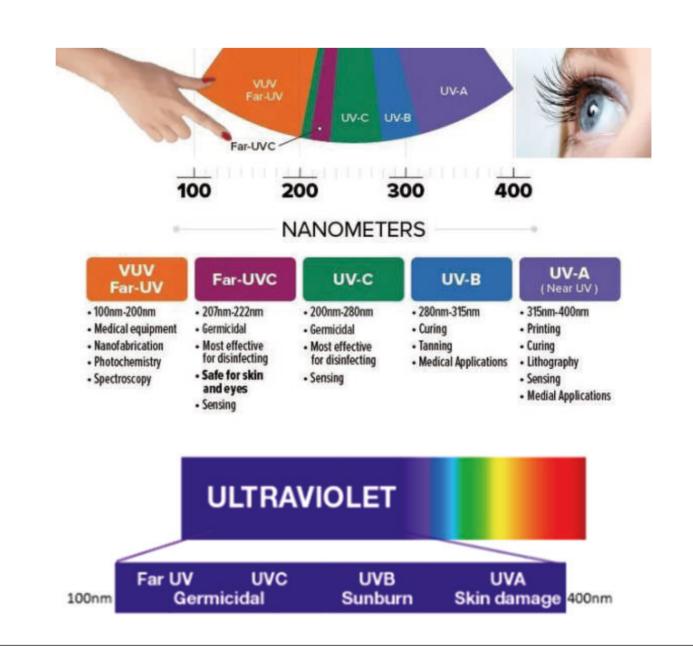


Damage of Cornea



Corneas absorb 222nm and does not produce cataracts

The transmittance of cornea at 280nm or shorter wavelength is 0.01% or less.³



UV-C Comparsion Studies

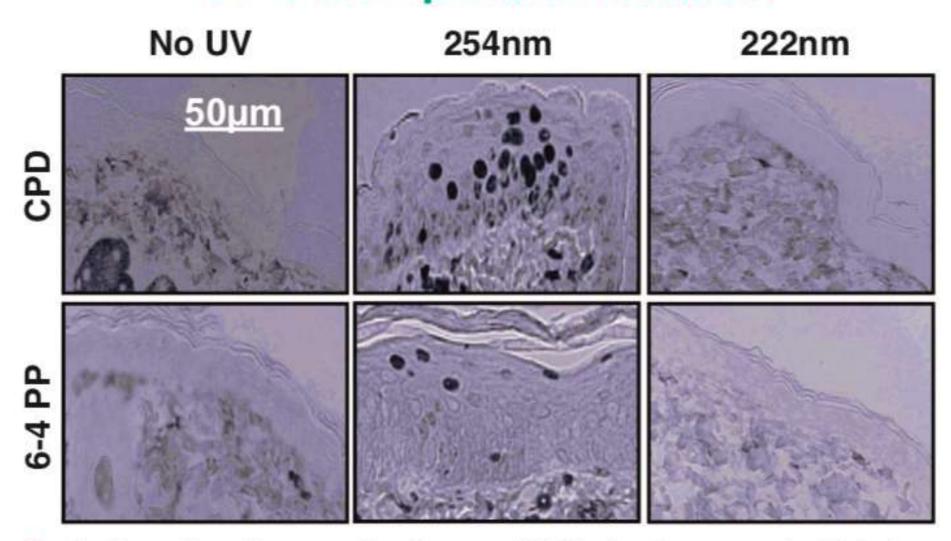


Fig. 1 Comparison of cross-sectional images of UVC-induced premutagenic skin lesions CPD (cyclobutane pyrimidine dimers) and 6-4PP (photoproducts) in the dorsal epidermis of mice. A UV dose of 157 mJ/cm2 was used for both 254 and 222 nm¹.

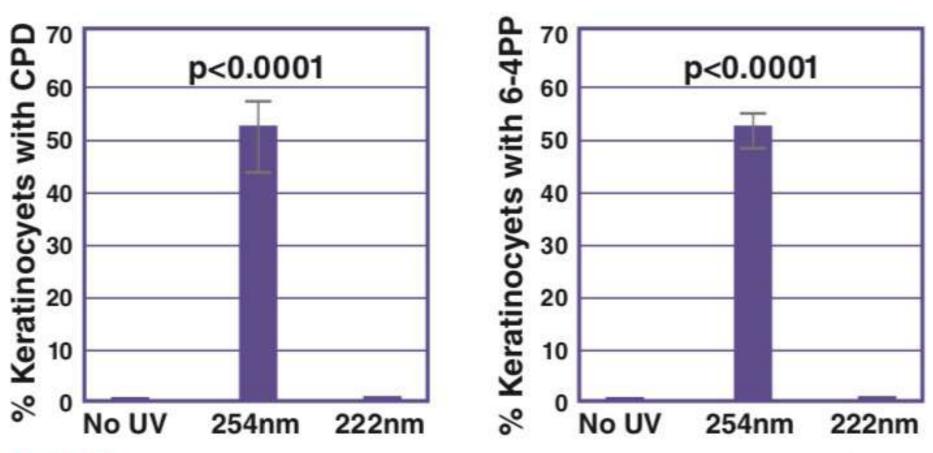


Fig. 2 & 3 Average percent of keratinocyte cells exhibiting dimers (Fig 2. - right CPD; Fig 3. - left 6-4PP) measured in UVC-induced premutagenic DNA lesions in nine randomly selected fields of view per mouse (n=3)¹.

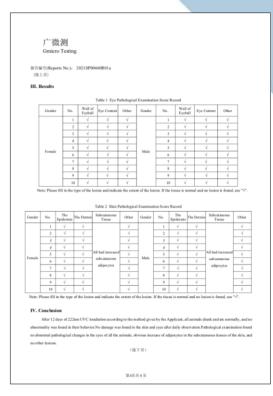
White mouse test (eyes/skin)

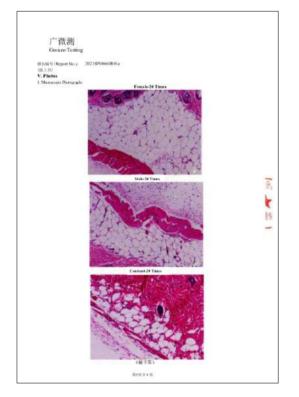
12 days, 8 hours of irradiation every day, irradiation distance of 1 meter



	广东省微生物	分析检测中心	>		
	GUANGBONG DETECTION o 分析检	ENTER OF MICROBIOLO 測报告	OGY		
	REPORT FO	RANALYSIS			
告编号 (Reports No) 2021SP00460R01a 校验例(Verificat	tion Code): 164082	95		
程品名称 Name of Sample	EXCIMER 222nm Sterilizer	检测类型 Test Type	Entrusted Test		
委托单位 Applicant	Guangdong Excimer Optoelectronic Technology Co., LTD.	10.1d: Address	4 / F, No.63 Panlong Road, Taoyuar Town, Heshan City, Guangdong Province, China		
料品來源 Sample Source	The Applicant shall submit it for test	利品效量 Sample Quantity	4 Units		
样品规格和批号 Spec and Let of Sample	DF28B-20W DC24V	样品状态和特性 State and Characteristic	Machine		
接样日期 Sample Received Date	2021-01-14	检测完成日期 Completion Date	2021-04-08		
检测依据和方法 Test Standard and Method	The method is provided by the Applicant				
检测项目 Item Tested	The skin and eyes of	of mice were irradiate	d with 222nm UVC		
位湖林油 Test Conclusion	After 12 days of 222nm UVC in unimals drank and ate normally, and no found in the skin and eyes after daily or pathological changes in the eyes of all subcutaneous tissues of the skin, and n	o abnormality was for observation. Pathologic the animals, obvious	cal examination found no abnormal		
	D Animal testing site: No. 790, Shenzhou Road, Huangpu District, Guangzhou City; Manufacturer: Guangdong Excimer Ophotoelectric Technology Co., LTD. (provided by the Applicant).				
		hou Road, Huangpu	District, Guangzhou City;		













No lesions found

Certificate









ABOUT US



VendiGlobe FAR UVC LIGHT 222nm

Vendiglobe, a company aimed at improving the safety and quality of the environments in which people work, travel, and live through the application of environmentally sound technologies. We are excited to debut a new product line of FUV 222nm Excilamps and doors using empirically-proven technology to reduce the presence of viruses and bacteria. For years, we have known that conventional ultraviolet light effectively kills bacteria and viruses; however, it is also a health hazard to humans preventing its widespread use. This new product line takes advantage of research that has identified a way of utilizing the effectiveness of ultraviolet light without the health concerns. At a wavelength of 222nm, these lights are unable to penetrate the skin's protective outside layer, making them safely deployable in public spaces.

The COVID-19 pandemic has illustrated the importance of ensuring safety, particularly for business, educational, and travel settings where people congregate in close proximity. With this line of Excilamps and doors, we hope to greatly improve safety and reduce transmission of dangerous viruses and bacteria. Our lamps have a wide operating temperature, power up in less than a second, are safe for people and animals. Our Far-UVC 222nm excimer light systems inactivate airborne and surface pathogens like SARS-CoV-2 (COVID-19) by damaging its RNA. The same light neutralizes bacteria by damaging its DNA.

















Website:https://222nm.org