Vendi222 FAR UVC LIGHT 222nm

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HANDGO-222 120W

A smart system of human body surface sterilization

Specifications



Remote Controller



Power Adapter



Dimensions:	500x237x1381mm
Weight:	21.45kg
Wattage:	120W
UV Wavelength:	FAR UVC 222nm
Effective UV Intensity:	1000μ W/cm ² - 5 sec Disinfection
Input Voltage:	DC24V(with AC/DC Adapter)
Disinfection Time:	3-5S
Center Irradiation:	1200 µ W/cm ²
Ambient Operating Temperature Range:	-10°C to+50°C
Safety Requirement:	Mercury-Free
Storage Environment:	Dry, and Ventilation Environment
Optional Function:	Motion Sensor and Timer Module
Material:	High Purity Quartz Glass
	Aluminum Alloy

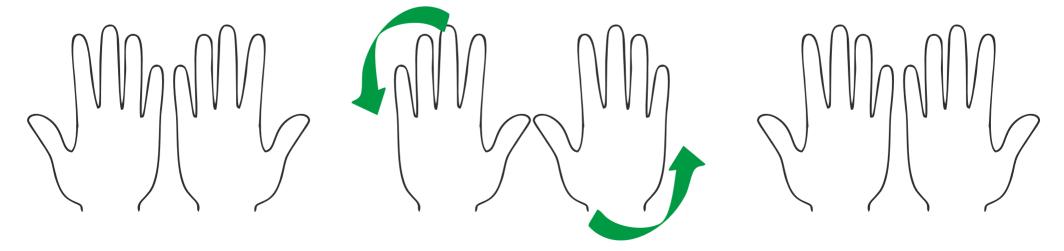
How to use?



Human Safe FAR-UVC Hand Sanitizing Solution



Reduce the Spread of Viruses and Bacteria in Seconds

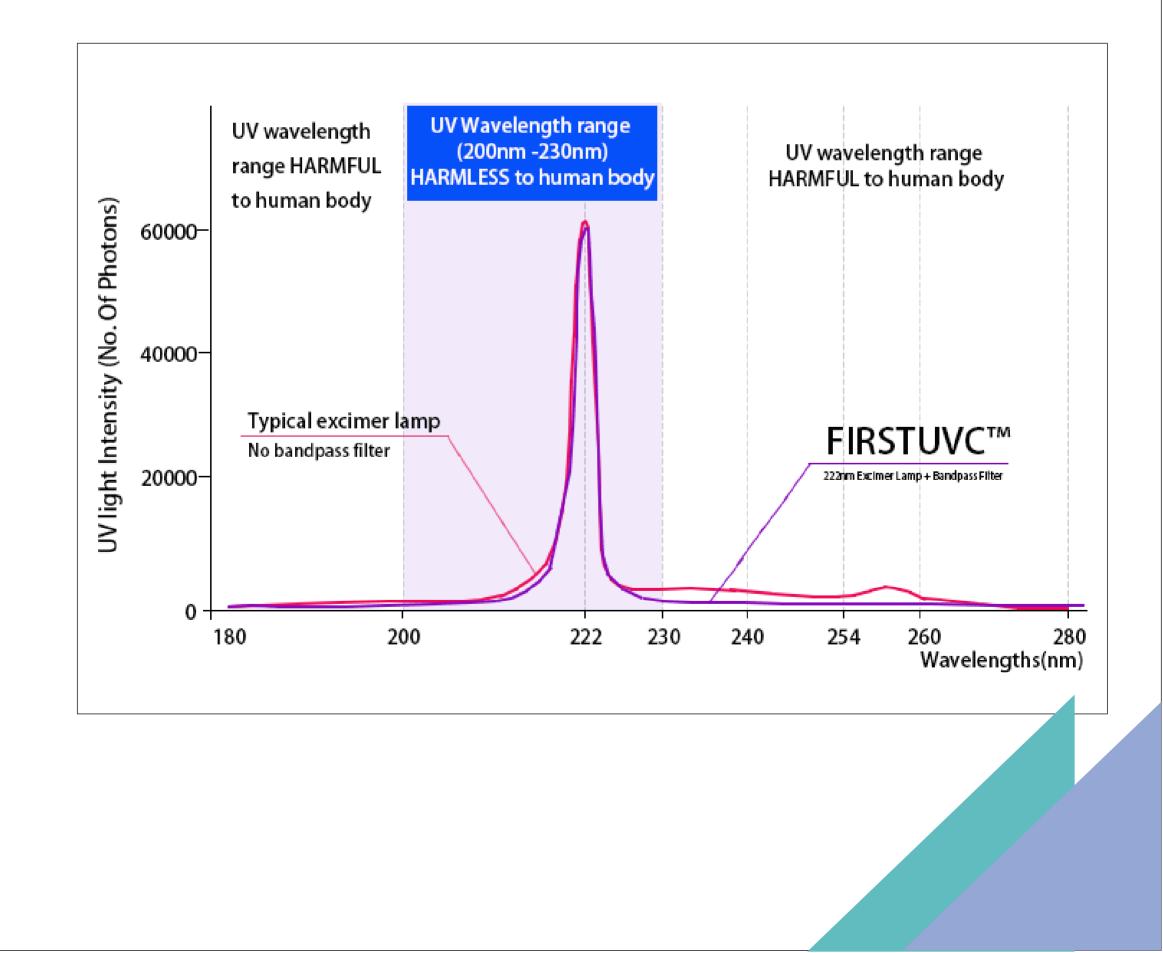


Put your hands in the hand sanitation & Sensor will turn FAR-UVC lamp on.

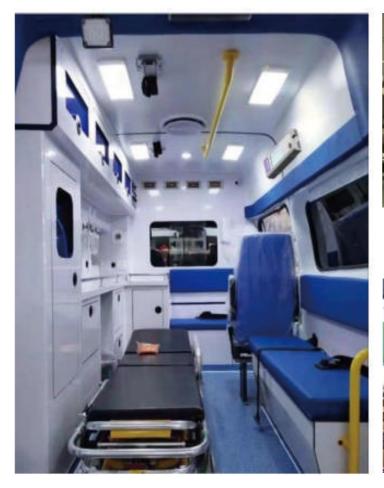
Rotate hands, palms up , palms down with fingers stretched out. Light will be automatically switch off in 5 sec, indication sanitation is complete.

Vendi222 BANDPASS FILTER

Proprietary Safety Filter Technology Included to Ensure Narrowband 222nm Emission



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



Ambulance



Restaurant



Office



School



Hospital





Shopping Center Entrance



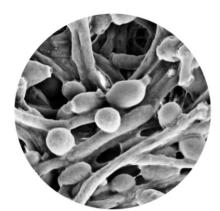


Meat Processing Factory



VendiGlobe 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 faruvc 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.

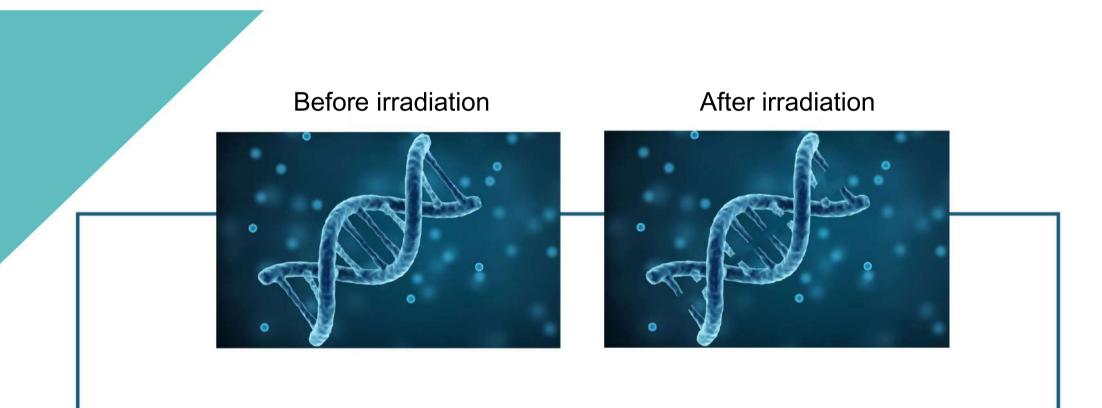


BEFORE OPEN UVC 222

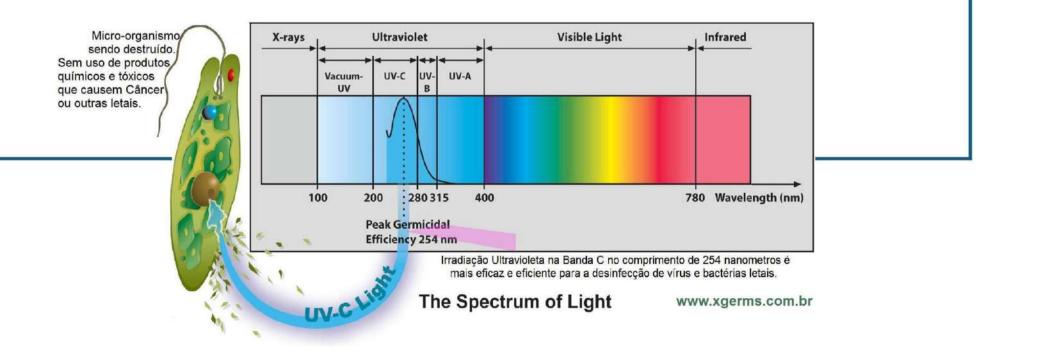




AFTER OPEN UVC 222



However, in the range of UV LED wavelength, the fields of application vary as energy intensity differs .

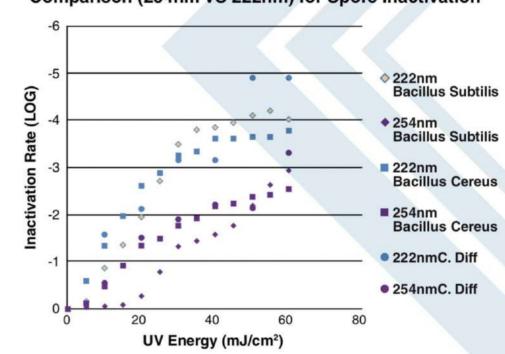


Far ultraviolet light 222nm

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 3log reduction [mJ/cm2]		
					222 nm	254 nm
	IRSA メチシリン耐性黄色ブ		ブドウ球菌	15	10	
Vegetative Bacteria	Pseudomonas aeruginosa	緑膿菌		8	4	
	Escherichia. coli 0157	大腸菌O-157		9	5	
	Salmonella typhimurium	ネズミチフス菌		10	4	
	Campylobacter jejuni	npylobacter jejuni カンピロバクター			4	4
	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	クロストリジウム・ ⁽³ ディフィシル		(芽胞)	30	60
Molds and Yeasts	Candida albicans	カンジダ・	カンジダ・アルビカンス		24	40
	Penichillium expansum	アオカビ			50	50
	Aspergillus niger	黒色麹菌	Hypha Spore		>1000 >500	>700 >700
Virus	MS2	バクテリオ	ファージ	452	23	50
	Feline calicivirus Influenza virus	ネコカリシ インフルエ			24 6	24 6



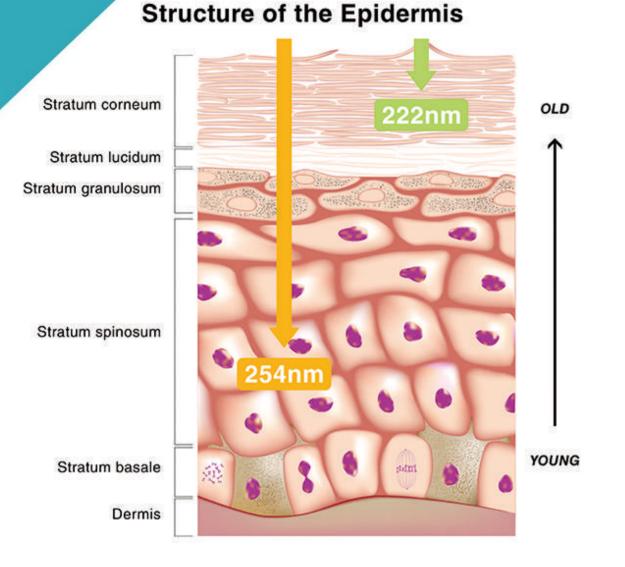
Comparison (254nm VS 222nm) for Spore Inactivation



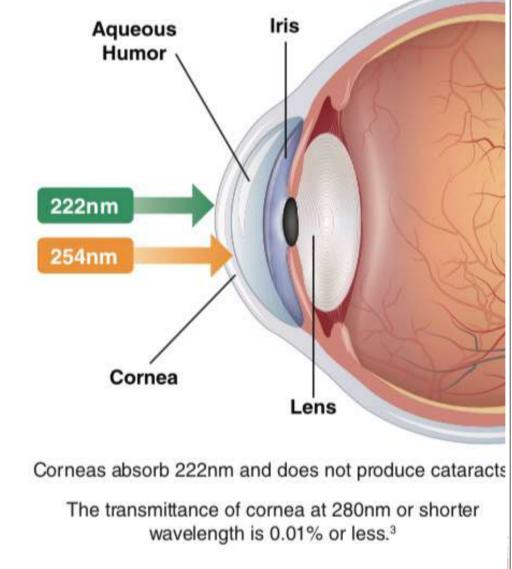
Germicidal irradation, benefits, and differences of ULTRAVIOLET LIGHT

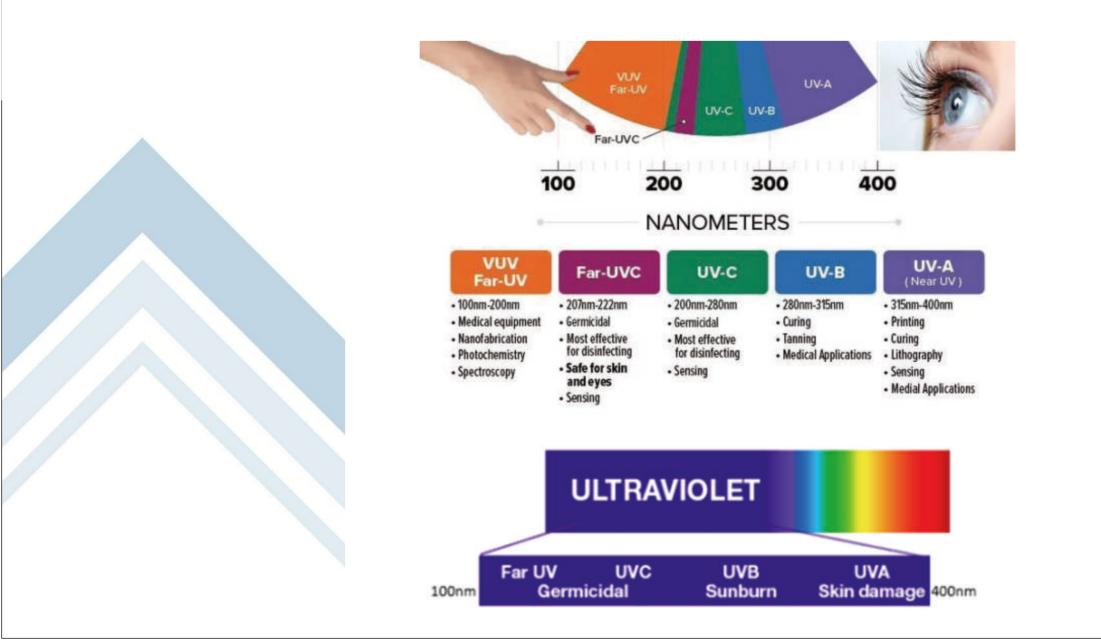
UV type	NANOMETERS (nm)	SAFE for skin and eyes	RAPID DEGRADATION on materials like plastic and rubber	PRACTICAL USES	
VUV Far-UV	100-200	YES	YES	Medical equipment	
Far-UVC	207-222	YES	YES	Germicidal, most effective for disinfecting, sensing	
UV-C	200-280	NO	YES	Germicidal, most effective for disinfecting, 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



Damage of Cornea





UV-C Comparsion Studies

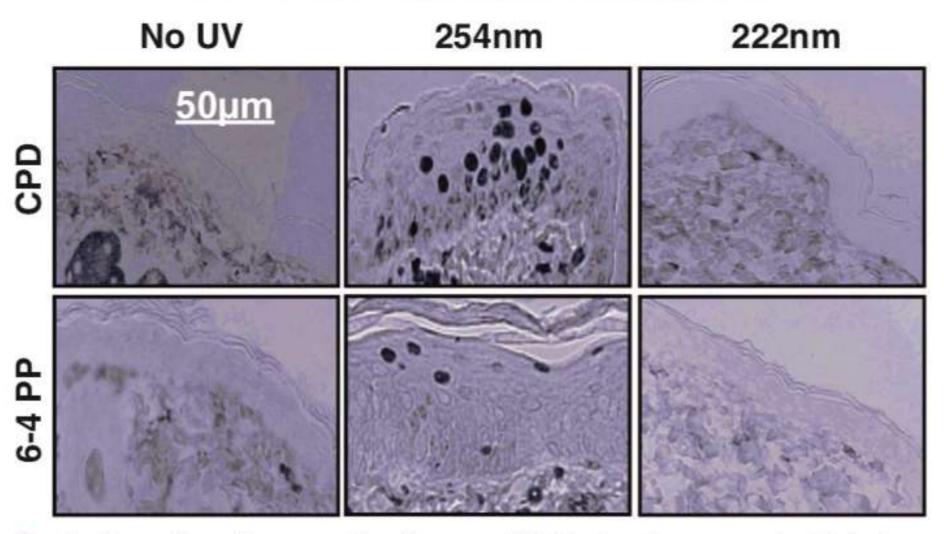


Fig. 1 Comparison of cross-sectional images of UVC-induced premutagenic skin lesions CPD (cyclobutane pyrimidine dimers) and 6-4PP (photoproducts) in the dorsal epidermis of mice. A UV dose of 157 mJ/cm2 was used for both 254 and 222 nm¹.

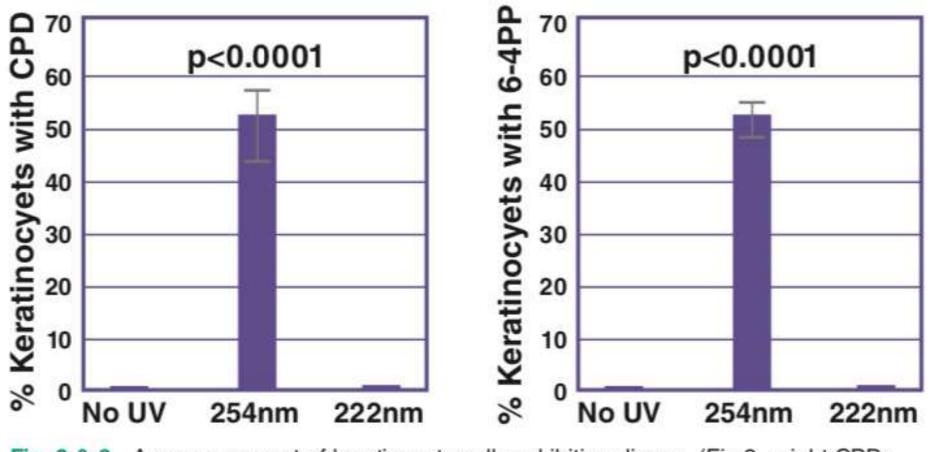


Fig. 2 & 3 Average percent of keratinocyte cells exhibiting dimers (Fig 2. - right CPD; Fig 3. - left 6-4PP) measured in UVC-induced premutagenic DNA lesions in nine randomly selected fields of view per mouse (n=3)¹.

White mouse test (eyes/skin)

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

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REPORT FOR ANALYSIS 現当前号 2021SF00466801a	低目単位 Gaugedong Excision Opporteminic 消波 A/F, No.5 Panling Exol, Tonyuan Terchnology Ca, LTD. Advance Applicant Aball solution is for test Read Reg Quantity H 高規管 Reg Quantity H 高規管 Reg Quantity H 高規管 Reg Quantity	The air and cycs of mice were Date <u>Areits 2021</u> irradiated with 222mn UNC <u>Areits 2021</u>	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Report No. 2021 Symposion (0.1) a 作品 名称 EXCIMER 222mm Sterilizer Name of Sample	Bit Mark 19 122: 00 DP 2815-2000 DC24V Station of the Chromotopic Market and the Chromotopic Market and	 Tots ubstance: Excitner 222nm stritter. Animala A statia (20 km) Tables (20 km) Table	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$
委員任部位 Guangdong Excimer Optoelectronic Technology Co., LTD. 人	200811 Bun Toroid The skin and eyes of mice were irradiated with 222nm UVC	 Main instruments and segrete Electronis Balance (OW-CAV0), Andyle Balance (OW-RAV0), BELME Roury Sicing Machine (OW-A-000), Automatic Inne Electricity, Marine (OW-A-040), Annunet Lappin, Machine (OW-A-600), Automatic Dysing Machine (OW-A-6005, Tissue Dewnerer (OW-A-6006,Biological Microscope (OW-B-C008). 	Table 2 Skin Pehological Examination Score Record Onder Nn The Pepdemin The Damin Housing Other Other Other The Score The Damin Number Housing Other Other 1 4 4 4 1 4 4 4 2 4 4 2 4 4 4 4
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For For Sector Design Design Communication Sector S	Bell: EManufacturer: Guanglong Exciner Ophonelectric Technology Co., LTD. (provided by the Ranuals Applicant).		IV. Conclusion After 12 days of 222am IVIC institution seconding to the method given by the Applicant, ill minute drank and an secondly, and an atomorphic year found in their behavior. No damage was found in the akis and eyes after dairy observation. Pathological extransion from an other leasion. $(III)^{2} F II)$
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No lesions found

Certificate









ABOUT US

VendiGlob 222nm FAR-UVC Disinfection **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