Vendi222 FAR UVC LIGHT 222nm



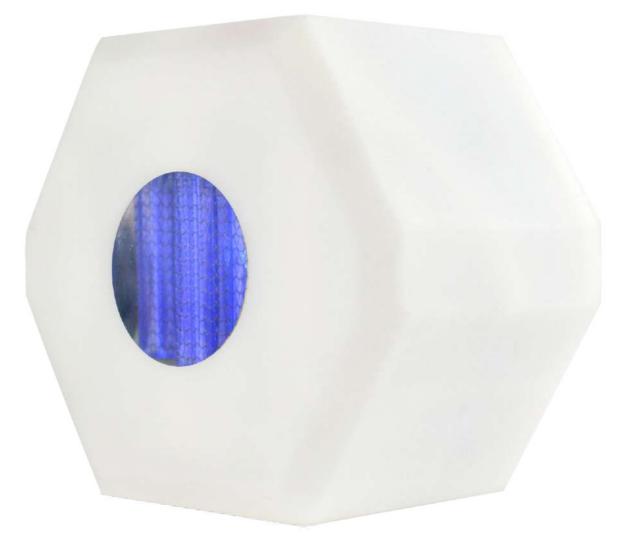




HEXAGON 3.7V

A smart system of human body surface sterilization

Specifications



Dimensions:	93x65x88mm
Weight :	0.2kg
Wattage:	2-Watt
UV Wavelength:	Far-UVC 222nm
Effective UV Intensity(with Filter):	800µW/cm²(0cm)
Nominal Capacity	3000mAh
Maximum Input Power	11.1Wh
Nominal Voltage:	3.7V
Charge Voltage:	5V 1A
Powered by:	Rechargeable & USB Powered(TYPE-C)
Battery type :	Lithiumion polymer
Ambient Operating Temperature Range:	-10°C to+50°C
Expected Life span:	3000+Hours
Safety Requirement:	Mercury-Free
Storage Environment:	Dry, and Ventilation Environment
Beam Angle:	60°
Material:	Quartz Glass

How to use?



NOTE: 1) Fully charge your portable Excimer lamp before using it for the

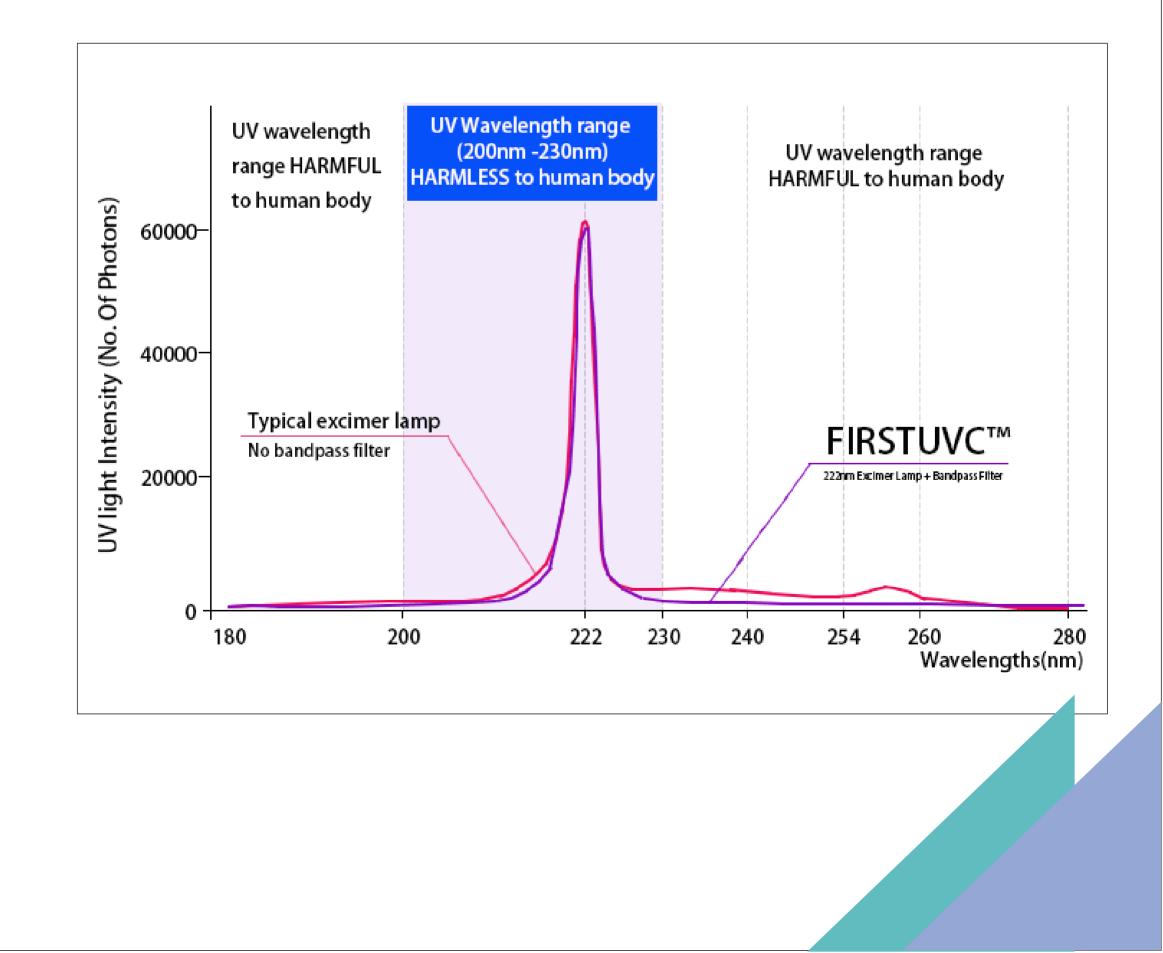
first time. Charging takes about 4-5 hours.

2) Usage hours 4-5 hours.

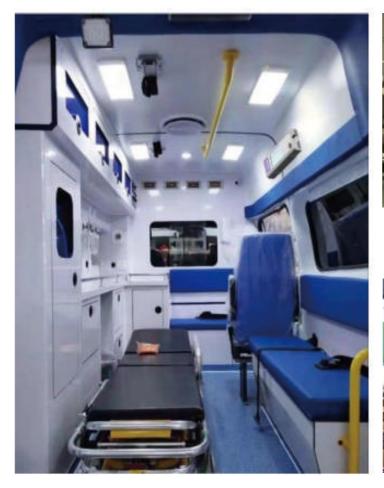
Press on button	Light on	
Press button again	Light off	
Fullcharge	Green light	
Charging	Red light	

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)



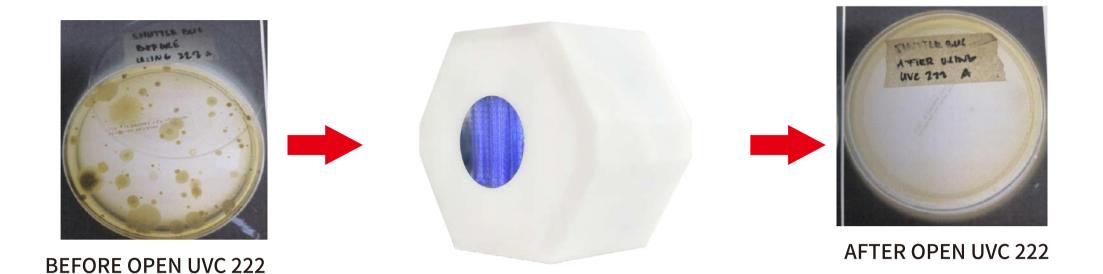


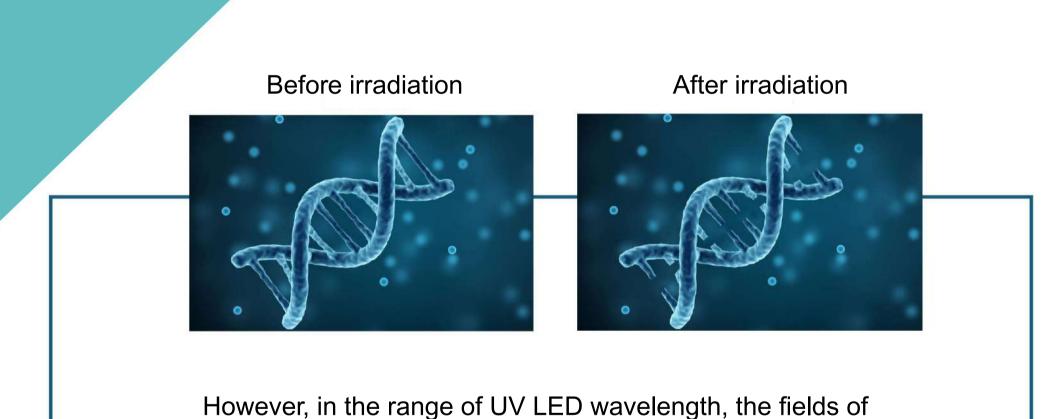
Haemolytic streptococci (Tonsillitis)

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

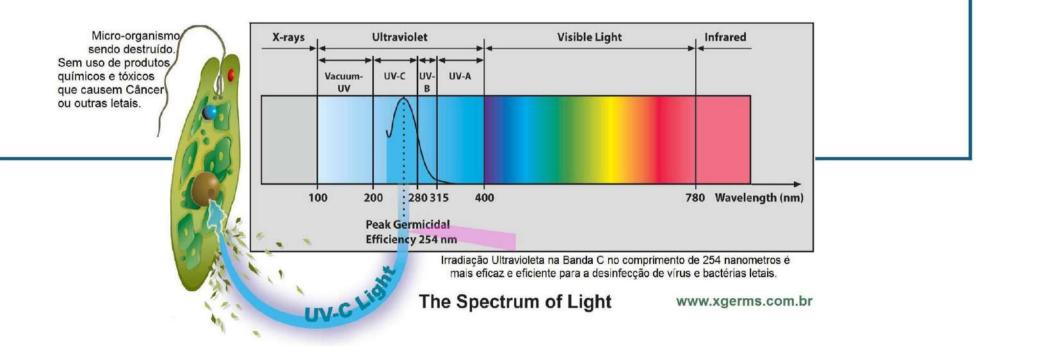
Eliminate bacterial reproduction

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.





application vary as energy intensity differs .

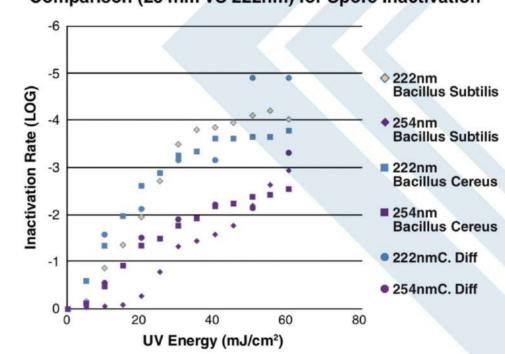


Far ultraviolet light 222nm

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	
Vegetative Bacteria	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 0157	大腸菌O-157			9	5
	Salmonella typhimurium	ネズミチフス菌			10	4
	Campylobacter 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 ・ (^{芽胞)} ディフィシル		(芽胞)	30	60
73	Candida albicans	カンジダ・アルビカンス		24	40	
s and	Penichillium expansum	アオカビ			50	50
Molds and Yeasts	Aspergillus niger	黒色麹菌	Hypha Spore		>1000 >500	>700 >700
Virus	MS2	バクテリオファージMS2		452	23	50
	Feline calicivirus Influenza virus	ネコカリシ インフルエ			24 6	24 6



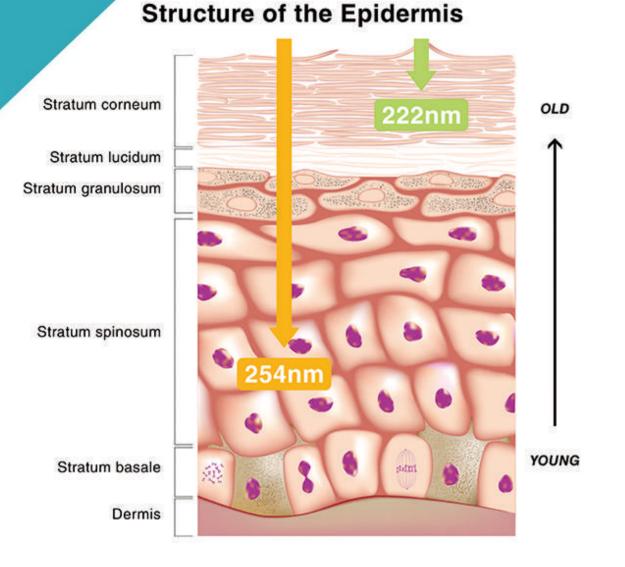
Comparison (254nm VS 222nm) for Spore Inactivation



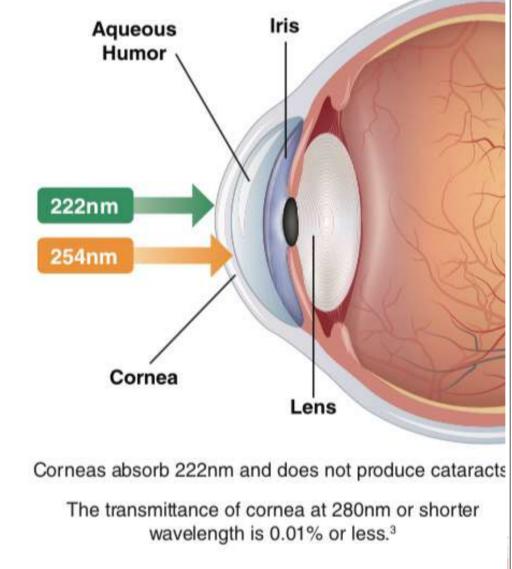
Germicidal irradation, benefits, and differences of ULTRAVIOLET LIGHT

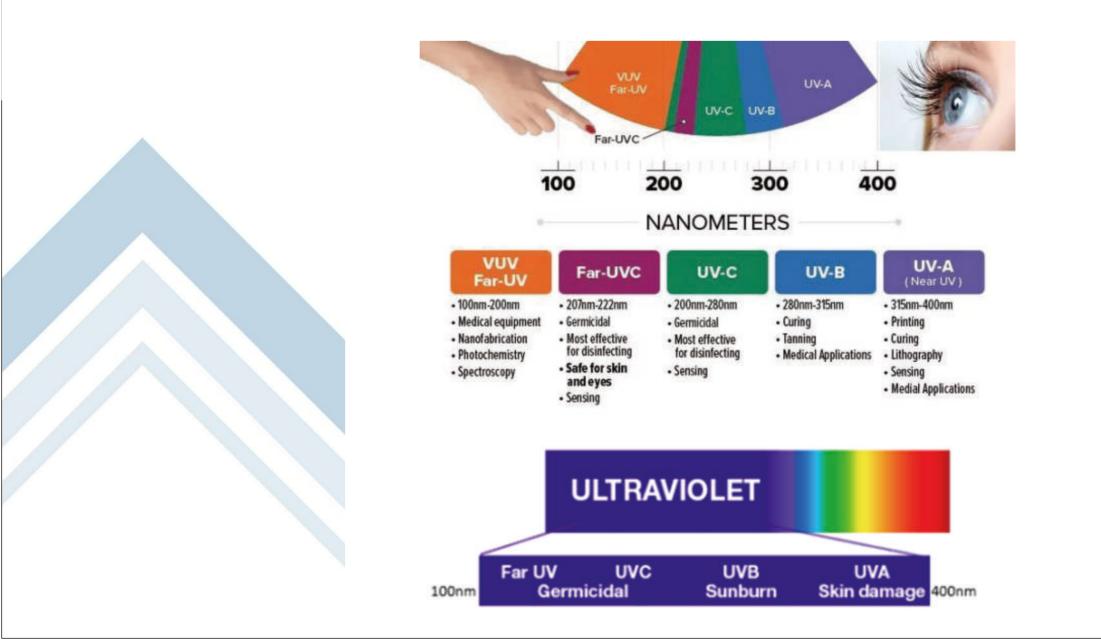
UV type	NANOMETERS (nm)	SAFE for skin and eyes	RAPID DEGRADATION on materials like plastic and rubber	PRACTICAL USES	
VUV Far-UV	100-200	YES	YES	Medical equipment	
Far-UVC	207-222	YES	YES	Germicidal, most effective for disinfecting, sensing	
UV-C	200-280	NO	YES	Germicidal, most effective for disinfecting,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

Skin Absorption Penetration Showing 222nm vs. 254nm



Damage of Cornea





UV-C Comparsion Studies

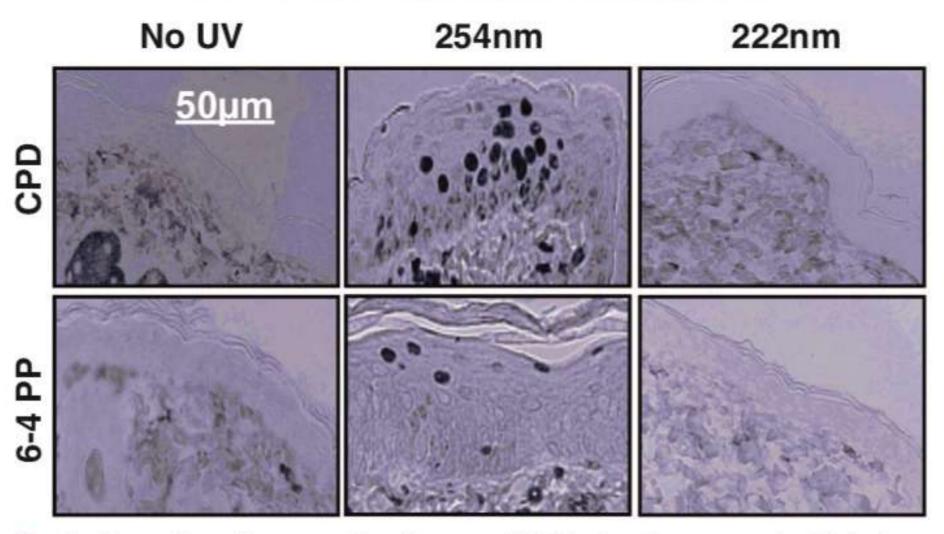


Fig. 1 Comparison of cross-sectional images of UVC-induced premutagenic skin lesions CPD (cyclobutane pyrimidine dimers) and 6-4PP (photoproducts) in the dorsal epidermis of mice. A UV dose of 157 mJ/cm2 was used for both 254 and 222 nm¹.

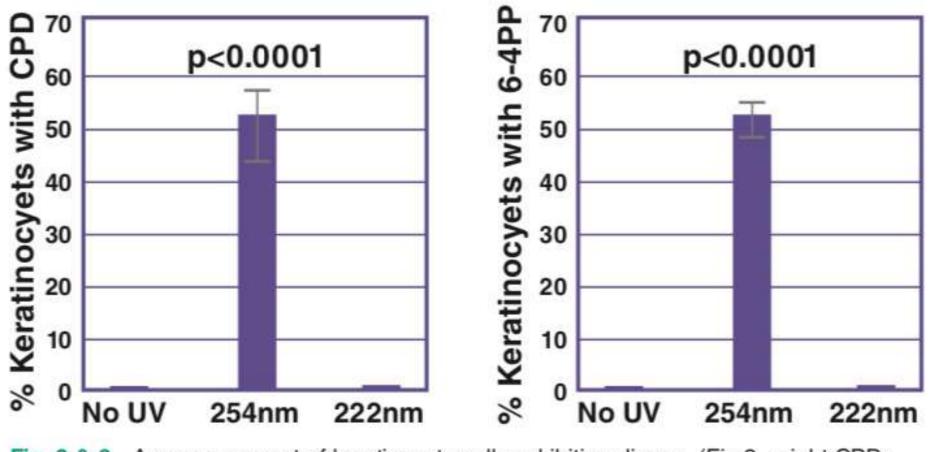


Fig. 2 & 3 Average percent of keratinocyte cells exhibiting dimers (Fig 2. - right CPD; Fig 3. - left 6-4PP) measured in UVC-induced premutagenic DNA lesions in nine randomly selected fields of view per mouse (n=3)¹.

White mouse test (eyes/skin)

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

/** 微測 Gmicro Testing	/ 微測 Gmicro Testing <i>f</i> 东省微生物分析检测中心	广"微测 Gmkro Testing 广东省微生物分析检测中心	「 [→] 微 週 Graiker Texting (第 = 10) (第 = 10)
广东省微生物分析检测中心 симовом ветсетох сахтаког масковнососу 分析检测报告	GLASHORD BETTE TOK CENTER OF MULCINBOLOGY 分析检测报告 BTTERTFERALATION 用意题型(Report No.) 2021SF004608D1a 检验吗(Verification Code): 16608295 利益在年 Nume of Simple: EXCLMER 222mm Service: 位振光型 Entrusted Test	GLANGERGE GETTETTER CONTRACT ON THE CONTROL OF A CONTROL	URL.NV III. Results Table 1 Eye Publicipal Examination Score Record Gender No. Wolf of Eye-Content Other View View View View View View View View
現当前号 2021SF00466801a	低目単位 Gaugedong Excision Opporteminic 消息 Aprican Aprican Gaugedong Excision Opporteminic 消息 Aprican Technology Ca, LTD. Adv Aprican The Applicant shall submit is for test Applicant shall submit is for test Technology Campbo H意思定意的 H意思定意的 H意思定意的 H意思定意的 H意思	The air and cycs of mice were Date Areits 2021 irradiated with 222mn UNC Areits 2021	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Report No. 2021 Symposium (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 strittere. Asimic A tota (7 d) Really Table: quice (SPF level), half made and half female, with an initial body weight range of 20 s²2₆, were selected and observed in the animal quarantian records for 3 days before the experiment. The animal exert from Gaugaloga. Medical Experimental Asimal Content SCNE (Gaugalong) 2016-0158, animal exertEnding number: 4400720007192 License No. 3 (SCXE (Gaugalong) 2216-0158, animation and the service of the service of	$ \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 html The skin and eyes of mice were irradiated with 222nm UVC	 Main instruments and negatorie Electronis Rulawa (OW-C-WH), Analyin: Balance GOW/R-WO), IBU140E Rulary Silicing Machine GW-A-4000, Automatic Inne Electriding Mathine GW-A-G000, Anomatic Lapping Machine QDW-A-G003, Automatic Dyeing Machine QDW-A-G005, Tissue Devoaterer QDW-A-G006,Biological Microscope QDW-B-G006. H. Method 	Table 2 Skin Pehological Examination Score Record Onder Nn The Pepdemin The Damin Housing Other Other Other The Score The Damin Helpsterms 4 Helpsterms 44 <th< td=""></th<>
松湖 先型 Entranted Test Test Type 単化地址: 广州市先型中語 100 号大院 46 号後 Address: Balling 65, N-10 Castral Man Lie Ried, Gaangzhen, China 前前時に、5, 907-9 Pastradei 电信号時に、(2020年7137566 Tell 代文句句、(2020年7137566	After 12 days of 222nm UVC irradiation according to the method given by the Applicant, all minuds drack and at resonably, and no shoremality use found in the kink and cyce after daily observations. Publicagical changes was found in the kink and cyce after daily observations. Publicagical changes was found in the kink and cyce after daily observations. Publicagical changes was publicagical changes in the cyce of the animal, observations found no ashoremal publicagical changes in the cyce of the animal, observations are after daily observations publicagical changes in the cyce of the animal, observations and addresses of addresses of the animal publicagical changes in the cyce of the animal, other leaves publicagical changes in the cyce of the animal, other leaves publicagical changes in the cyce of the animal, other leaves publicagical changes in the cyce of the animal, other leaves publicagical changes in the cyce of the advectory of the advector	1. For thesis: The method shall be provided by the Applicant. 2. To or basis: the method according to the method given by the Applicant, the back hair of all animals was removed 24b before the test, and the shaving area wars 5.5 square continuents: The mise were irradiated with the sample for 8 hours a day for 12 days. During the trainaide private hyper and draw that are thereby. The method increases was 117 ends, and the during days of the method gays of the during days of the during days of the during days of the during the during days of the dur	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$
For For Sector Design Design Communication (Sector Sector	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 was found in their behavior. No damage was found in the akis and eyes after dairy observation. Pathological extransion from an other leasion. $(III)^{2} F II)$
第16天4年	第2页尺 8 页	第3页月 8 页	第4回共主义



No lesions found

Certificate









ABOUT US

VendiGlobe 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