

GOLDENSEA **UV**

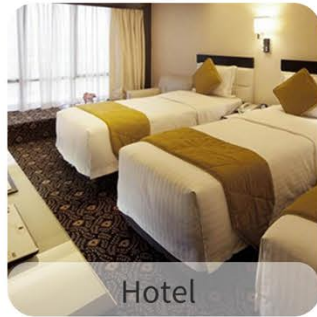
ULTRAVIOLET DISINFECTION UNIT FOR LARGE SPACES

UVM432



VIRUSES AND BACTERIA ARE EVERYWHERE

Hotels, schools, studios, theaters, gymnasia, factories, workshops, warehouses and clinics can be hotbeds of bacteria and viruses, which cannot be recognized by the naked eye. These are potential health threats!



Hotel



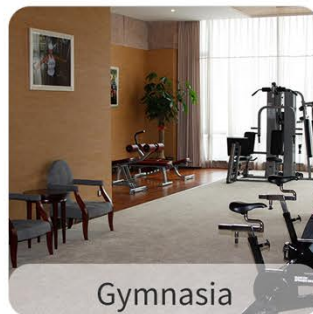
School



Studio



Small theater



Gymnasia



Workshop

ULTRAVIOLET DISINFECTION IS A BETTER METHOD

Compared with familiar disinfection methods using liquid and powder based disinfectants, ultraviolet disinfection lamps are widely used, extremely efficient and more convenient to operate. UV light does not only disinfect surfaces, air and water, but also eliminates mildew and mites.



UVC proven to inactivate COVID 19

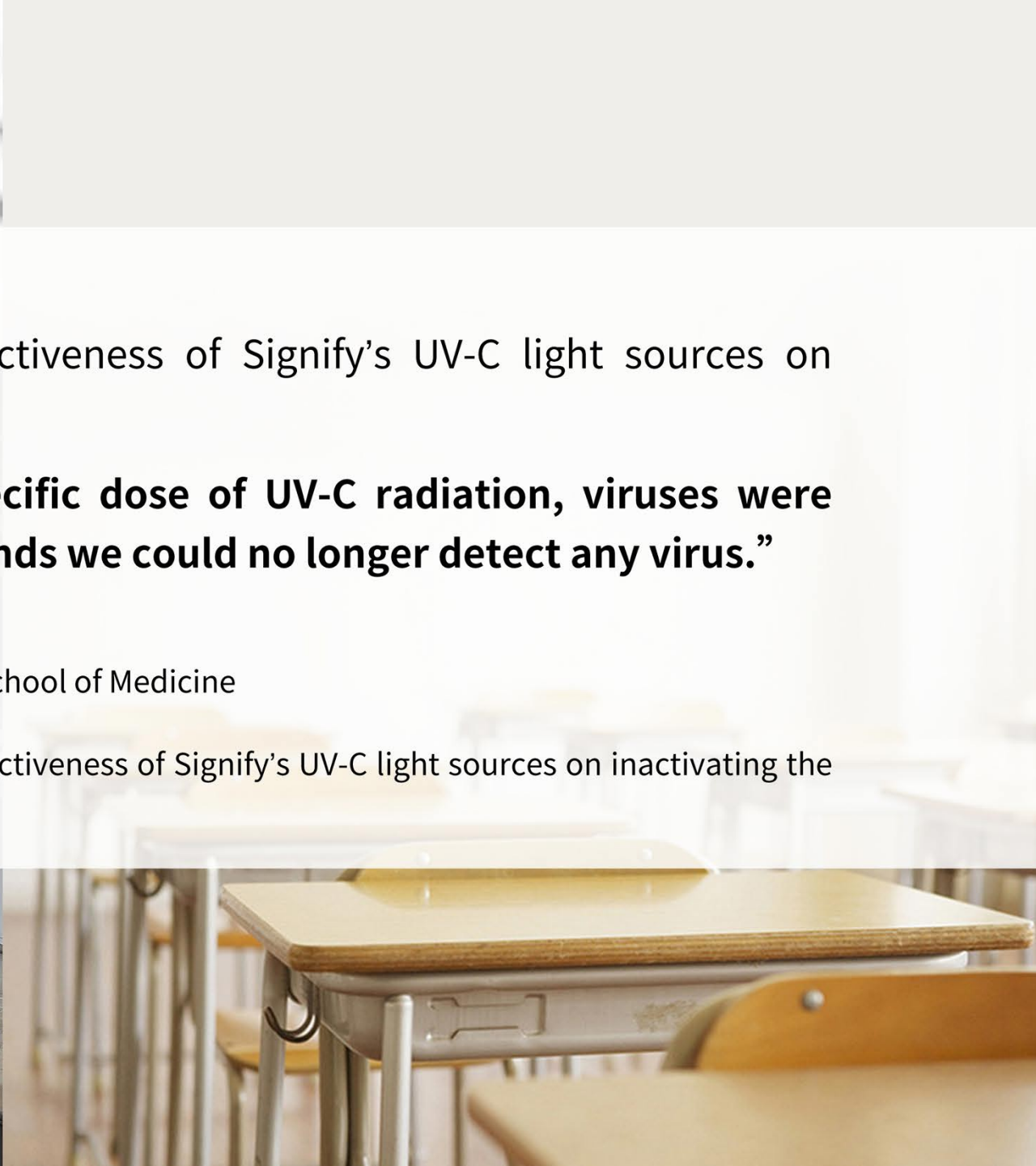
Signify and Boston University validate effectiveness of Signify's UV-C light sources on inactivating the virus that causes COVID-19.

“Our test results show that above a specific dose of UV-C radiation, viruses were completely inactivated: in a matter of seconds we could no longer detect any virus.”

Dr. Anthony Griffiths

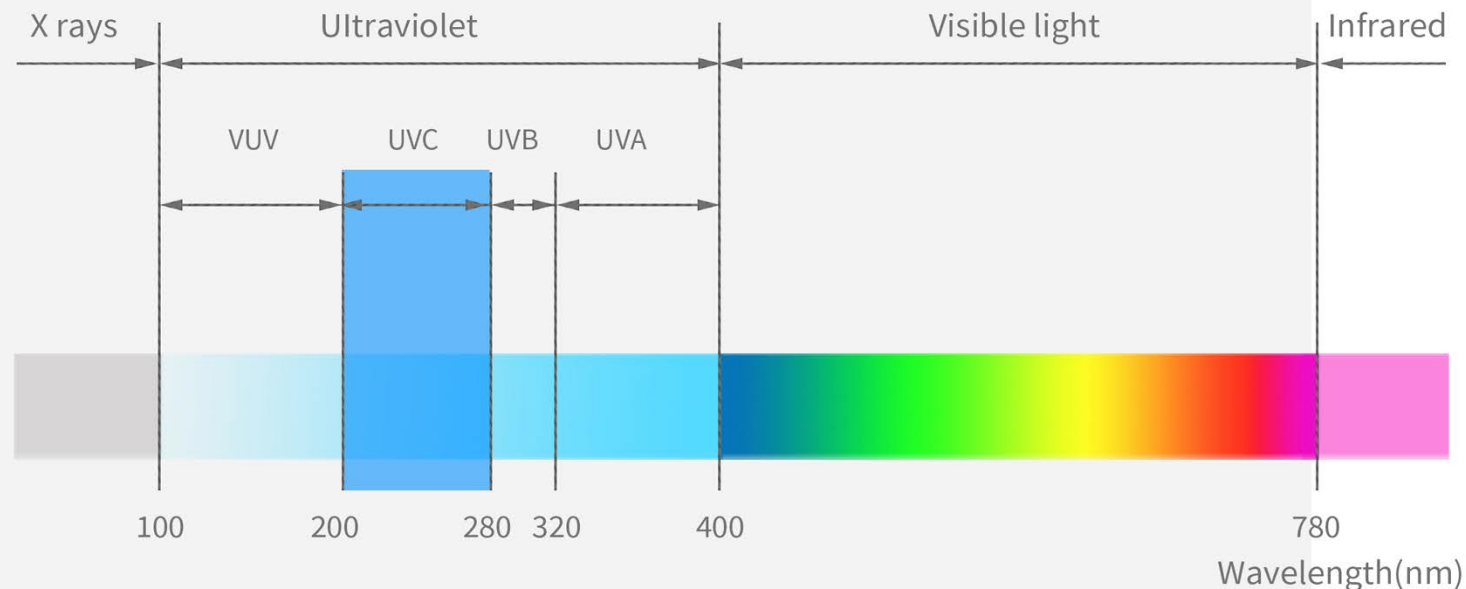
Associate Professor of Microbiology at Boston University School of Medicine

---Excerpt from Signify and Boston University validate effectiveness of Signify's UV-C light sources on inactivating the virus that causes COVID-19



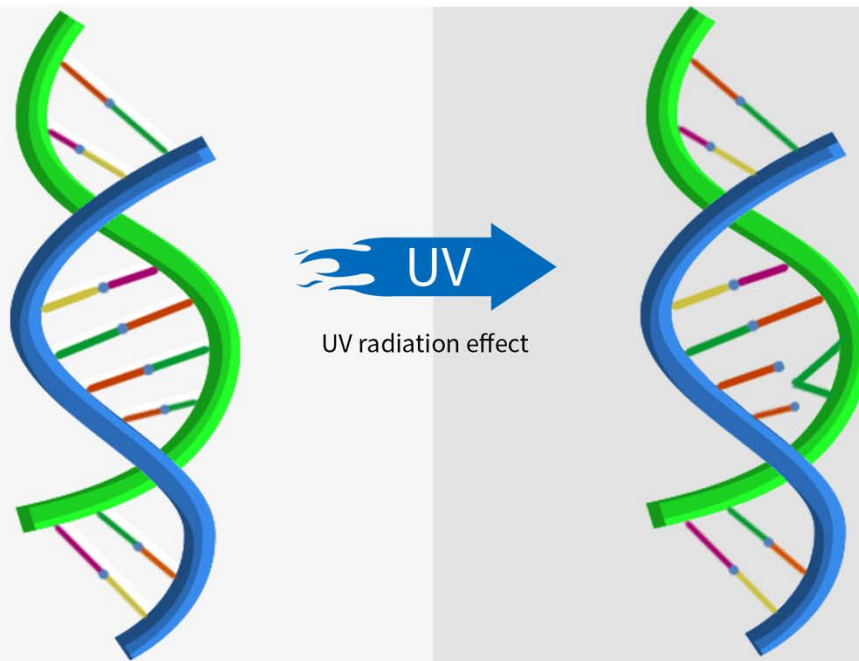
WHAT IS UV AND UVC?

Ultraviolet light is a form of radiation and an invisible part of the electromagnetic spectrum. It has a wavelength between 100nm-380nm. UVC with a wavelength of 200nm-280nm has proved to be the most effective disinfectant wavelength in the UV Spectrum. As we all know, UV Light is also found in sunlight.



GOLDENSEA UV uses the ultraviolet spectral wavelength 253.7nm. This belongs to the short-wave UVC spectrum and is an efficient and better choice for disinfection!

HOW DOES UVC KILL BACTERIA AND VIRUS



UVC (in particular 253.7nm) destroys the molecular structure of DNA (deoxyribonucleic acid) and RNA (ribonucleic acid) of microbial (bacteria and virus) cells, causing the death of growth cells and/or regenerative cells, thus achieving the effect of disinfection.



HIGH-POWER DISINFECTION FOR LARGE AREAS

Three timing options

Choose the disinfection time according to the area to be treated. After reaching the set time, the lamp automatically turns off.

30mins
120m²

60mins
240m²

180mins
480m²

Note: The calculation of the time is on the basis of the 99.99% killing rate of Staphylococcus aureus in the room of 4 meters high.

广微测
Gmicro Testing

广东省微生物分析检测中心

GUANGDONG DETECTION CENTER OF MICROBIOLOGY

分析检测结果

ANALYSIS AND TEST RESULT

报告编号 (Report No.): 2020FM03012R03

病毒名称	作用时间	试验序号	空气中病毒含量 (TCID ₅₀ /m ³)	杀灭率 (%)
甲型流感病毒 H3N2 宿主名称: MDCK 细胞	0 (CK)	1	1.70×10 ⁵	
		2	2.04×10 ⁵	
		3	2.29×10 ⁵	
	1h	1	<1.15×10 ²	>99.99
		2	<1.15×10 ²	>99.99
		3	<1.15×10 ²	>99.99

注: 去除率试验结果已消除微生物在空气中自然消亡因素的影响。

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分析人
日期
专用

广微测
Gmicro Testing

广东省微生物分析检测中心

GUANGDONG DETECTION CENTER OF MICROBIOLOGY

分析检测结果

ANALYSIS AND TEST RESULT

报告编号 (Report No.): 2020FM03012R02

作用时间	测试微生物	序号	空气中细菌总数 (cfu/m ³)	杀灭率 (%)
0 (CK)	大肠杆菌 (<i>Escherichia coli</i>) 8099	1	7.2×10 ⁴	
		2	7.1×10 ⁴	
		3	6.6×10 ⁴	
1h	大肠杆菌 (<i>Escherichia coli</i>) 8099	1	<7	>99.98
		2	<7	>99.98
		3	<7	>99.98
0 (CK)	肺炎链球菌 (<i>Streptococcus pneumoniae</i>) ATCC 49619	1	5.7×10 ⁴	
		2	5.8×10 ⁴	
		3	5.7×10 ⁴	
1h	肺炎链球菌 (<i>Streptococcus pneumoniae</i>) ATCC 49619	1	21	99.94
		2	14	99.96
		3	14	99.96

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广东省微生物分析检测中心

GUANGDONG DETECTION CENTER OF MICROBIOLOGY

分析检测结果

ANALYSIS AND TEST RESULT

报告编号 (Report No.): 2020FM03012R01

1.检测项目: 空气消毒效果模拟现场试验, 检测方法:《消毒技术规范》2002年版-2.13.4 空气消毒效果模拟现场试验

1.1 实验结果:

作用时间	测试微生物	序号	空气中细菌总数 (cfu/m ³)	杀灭率 (%)
0 (CK)	白色葡萄球菌 (<i>Staphylococcus albus</i>) 8032	1	5.6×10 ⁴	
		2	5.7×10 ⁴	
		3	6.4×10 ⁴	
1h	白色葡萄球菌 (<i>Staphylococcus albus</i>) 8032	1	14	99.96
		2	7	99.98
		3	14	99.97

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分析检测结果

ANALYSIS AND TEST RESULT

报告编号 (Report No.): 2020FM03012R01

2.检测项目: 空气消毒效果验证试验, 检测方法:《消毒技术规范》2002年版-2.1.3 现场试验

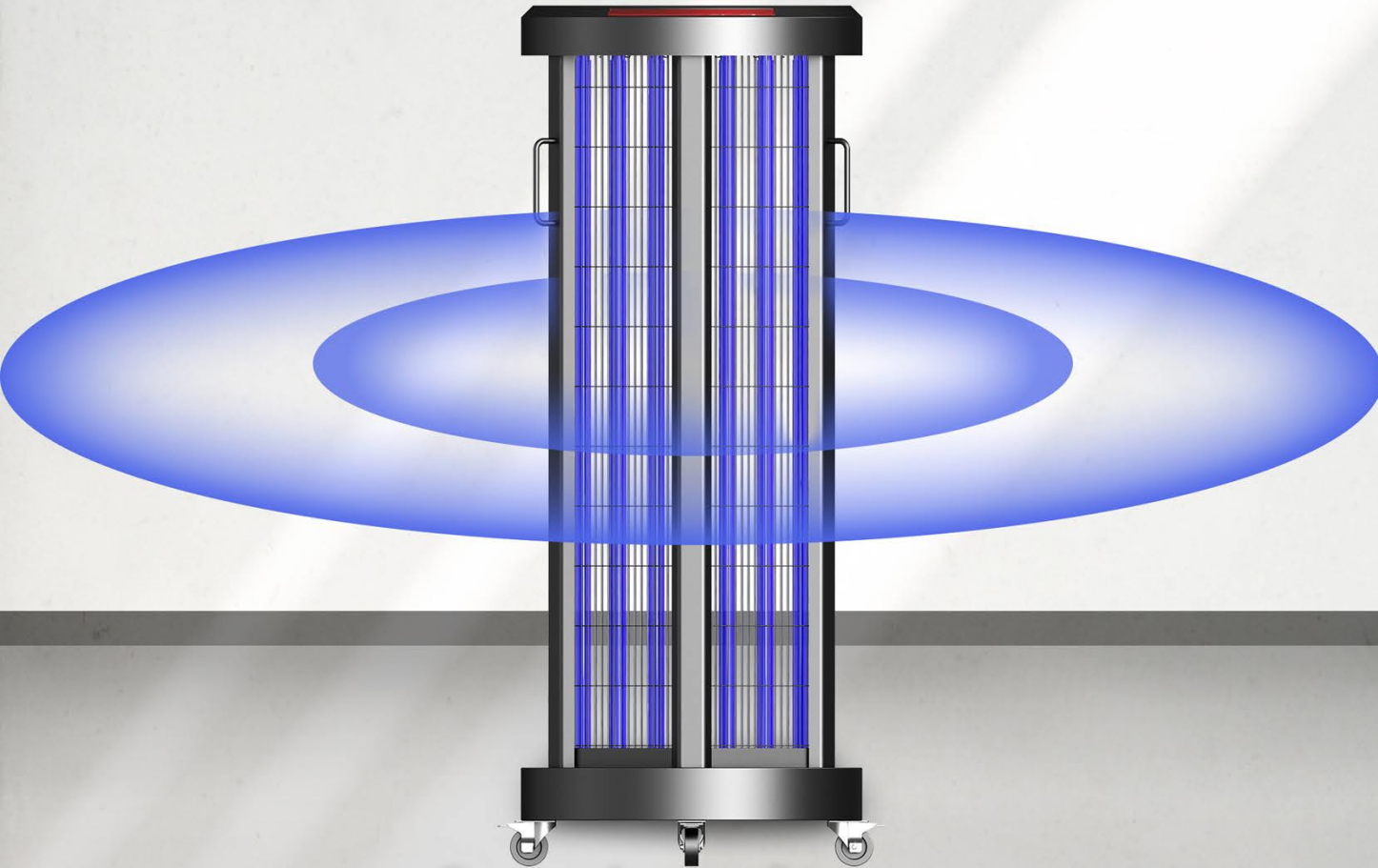
2.1 实验结果:

作用时间	试验菌种	序号	菌落总数 (cfu/m ³)	消亡率 (%)
0 (CK)	空气中自然菌	1	1.9×10 ³	
		2	2.0×10 ³	
		3	2.1×10 ³	
1h	空气中自然菌	1	1.7×10 ²	91.05
		2	1.5×10 ²	92.50
		3	91	95.67

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DISINFECTION RATE 99.9%

CREATE A CLEAN ENVIRONMENT FOR PUBLIC AREAS

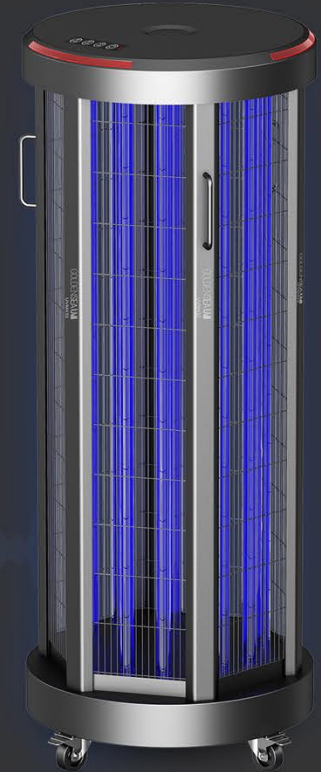


SAFETY BY DESIGN

A motion sensor will detect any movement within 3 meters and immediately deactivate the lamp and sound an alarm.

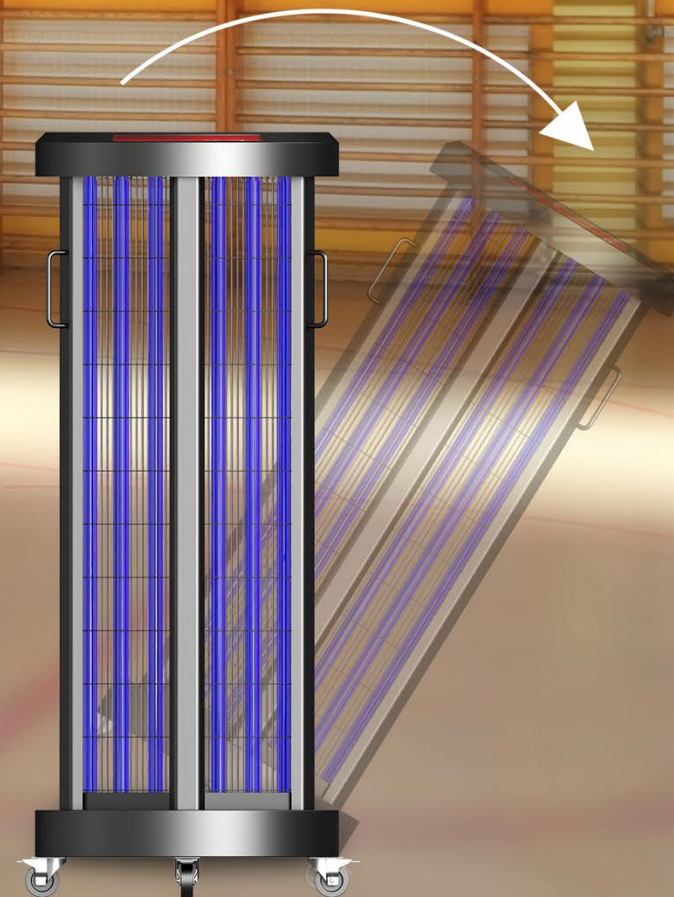
SAFE START- 3 MINUTES DELAYED START WITH AUDIBLE ALARMS

Once the disinfection time is set, the lamp will be turned on after a delay of 3 minutes allowing people and pets to leave the room.



FALL PROTECTION AUTO POWER OFF

When lamp detects a movement of more than 45° , it will automatically power off, thus preventing heat damage to surrounding objects, should the lamp fall over.



NO OZONE SAFE AND HARMLESS LEAVE NO RESIDUE

Note: Only when used in accordance with
manufacturer instructions



GOLDENSEA UV



REMOTE
CONTROL
THROUGH
THE WALL



**HIGH-IMPACT GLASS TUBE
ALLOWS FULL TRANSMISSION
OF ULTRAVIOLET LIGHT**



PRECAUTIONS

1. Ultraviolet disinfection lamp products emitting UVC at 253.7nm must only be used in an environment with no living things present (humans, animals, plants). Ultraviolet light may cause skin redness, itching, peeling, and eye conjunctive damage caused by electro-optical ophthalmitis. Never look directly at the lamp without suitable eye protection when it is powered on and emitting light. It is essential that all people and pets leave the room before the lamp is turned on and only re-enter the room after the lamp has been turned off/ has finished its disinfection cycle.
2. Ultraviolet has a degrading effect on many materials including plastics, paper and cloth. Exposure to irradiation over long periods of time may cause the surface of the irradiated objects to change color and or become more brittle. Never use ultraviolet sterilization lamp products emitting direct irradiation on expensive clothing, ornaments, calligraphy, painting and other valuables.
3. The surface of the lamp tube should be kept clean when using the UV disinfection lamp. It is recommended to clean the lamp tube regularly when not in use (usually every 2 weeks). When cleaning, please use a soft clean cotton cloth with a small amount of alcohol to wipe the lamp tube surface, remove the dust and oil.
4. A side effect of disinfection can be an abnormal smell, similar to that of the sun drying wet bedding. We recommend that spaces are well ventilated for 10-15 minutes following disinfection.
5. UV lamps should be properly protected after disinfection and placed out of reach of children in a safe place.
6. Impact and strong vibration may cause the lamp tube to break. Should the lamp tube break, immediately turn off the power supply and dispose of the lamp, wearing protective gloves and according to your local toxic and harmful garbage rules. Should a lamp break, immediately open the windows for 10-15 minutes of ventilation.
7. Never disinfect areas with inflammable or explosive items as you may otherwise cause burning or explosion.
8. If the lamp tube needs to be replaced, replace only with the original brand of lamp tube and complete the operation according to the procedures in the user manual.

Results achieved only if used alongside existing routine cleaning and disinfection programs



PRODUCT INFORMATION

Product: ULTRAVIOLET DISINFECTION UNIT FOR LARGE SPACES

Model: UVM432

Light Source Wattage: 36W(T8)X12

Light Source Lifespan: Max. 9000h

Voltage: 100V-240V, 50/60Hz

Current: 5.5A

Control: Touch keys + remote control

Main Material: Aluminum alloy

Function: UV disinfection

Wavelength: 253.7nm

Cable Length: 1.8m

Compliance: CE, ETL, FCC

Application: large spaces: hotels, schools, studios, small theaters, gymnasias, workshops and other large public places.



About GOLDENSEA UV

GOLDENSEA UV is manufactured by industry leading hi-tech lighting design and manufacturer Golden Sea Professional. Our large team of experts ensures quality, safety and performance are of the highest level. All GOLDENSEA UV 's products are ETL, FCC and CE compliant and listed.

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