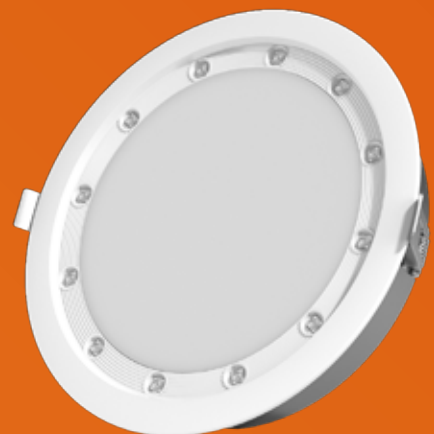# SunClean ™ Lighting

Just change the light!

Easily prevent contamination!
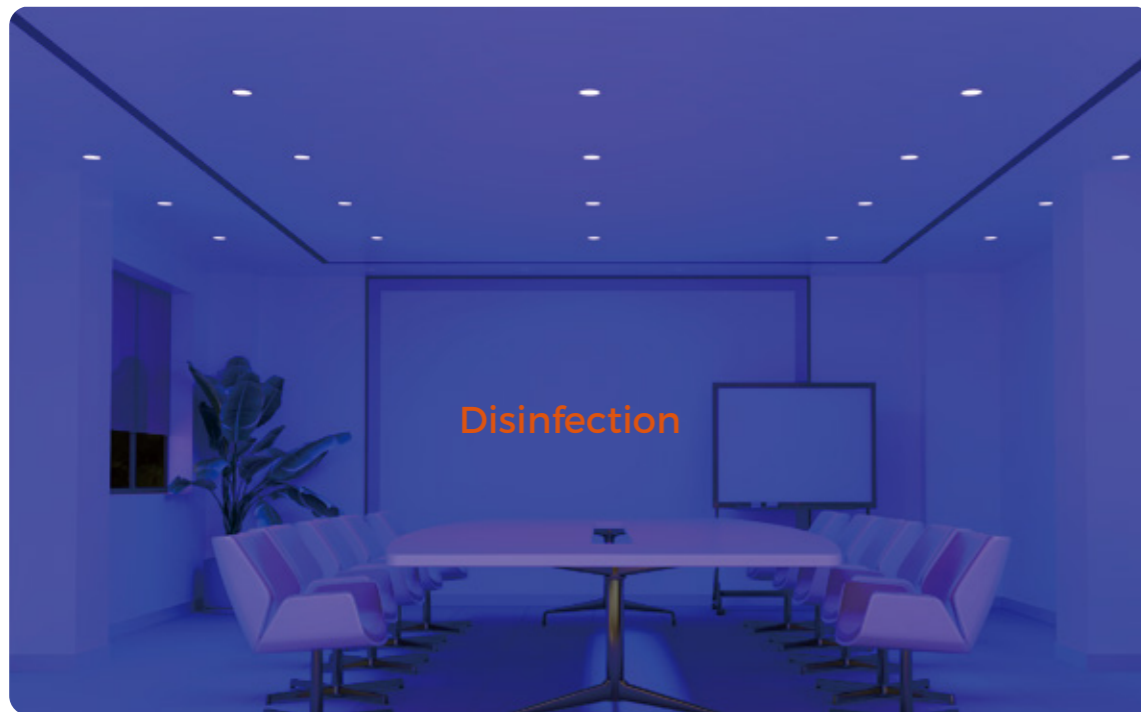Ensure the safety of family members and employees.

59S ®
GLOBAL LEADER
UVC DISINFECTION

SunClean™ Downlight

Just change the light!

Easily prevent contamination!
Ensure the safety of family members and employees.

Lighting

Disinfection

59S SunClean™ Lighting is blazing the trail in integrating UV-C disinfection into LED lighting. This series of unprecedented health-protecting lighting products provide the three-fold usage of surface disinfection, air-cleaning, and illumination. Boasting a disinfection rate up to 99.9%*—with no excess radiation, no ozone produced, and no residual chemicals—and a military-grade radar sensor to detect anyone around, SunClean™ is designed to keep people safe and healthy.

What is SunClean™?

Illuminates when people come.
Disinfects when people leave.

Intelligent, Automatic Disinfection, Air-Cleaning, and Lighting 3-in-1.

Radar
Light
UV-C + UV-A

UV-C + UV-A + Lighting

3-in-1
Intelligent, Automatic Disinfection, Air-Cleaning, and Lighting.

Simple Replacement
Just Change Your Light.

Intelligent Operation
Illuminates when people come. Disinfects when people leave.

Safe and Reliable
Military-grade radar and radar self-diagnosis. No chemical residue.

Keep Spaces Free of COVID-19
No extra manpower. Highly cost-effective.

Minimize Infection Spread
Disinfection occurs immediately after people leave the room.

UV-C battle COVID-19
all around the world

Hospital robots are disinfecting with UV-C

Buses are being disinfected with UV-C

Boeing aircraft are being disinfected with UV-C

New York City subways are being disinfected with UV-C

Just change the light!

Easily prevent contamination !
Ensure the safety of family members and employees.

Upgrade

Restaurants

Bars

Toilets

Meeting rooms

Elevators

Gyms

Applications: restaurants, bars, barber shops, restrooms, meeting rooms, banks, gyms, elevators, hotels, clinics, nursing homes, convenience stores, supermarkets, retail stores, entertainment venues, etc.

Superior Safety

1. Advanced 5.8G military-grade radar

Each SunClean™ Lighting product is equipped with a military-grade 5.8G radar with a detection distance of 7-10 meters that automatically stops disinfection when people are nearby.

2. Self-check safety system

Before each disinfection cycle, a self-diagnosis is performed to ensure safe product performance. If the radar fails, disinfection stops automatically.

3. No dangerous ozone produced

Operates with a UV-C disinfection wavelength of 260~285nm, well above the 240nm or less that decomposes oxygen into ozone that can damage the respiratory tract.

*Ozone will corrode the mucosa of the respiratory tract and cause serious damage to the respiratory tract.
*UV below 240nm will decompose oxygen in the air to form ozone.

Easy operation

Convenient Installation
Remove the old bulb light and install your SunClean™ bulb light just like any other.

Control Mode
Toggle the switch ON and OFF to control.

Lighting Mode
Flip the switch ON to turn on.

Disinfection Mode
· **3-Hour Disinfection Mode:** Flip the switch ON-OFF-ON within 3 seconds to turn on.
Disinfection stops automatically after 3 hours.
· **30-Min Auto-Disinfection Mode:** Flip the switch ON-OFF-ON-OFF-ON within 3 seconds to turn on. Illuminates when people come. Disinfects when people leave.

The measurement standard of SunClean™ Lighting for killing germs

*Representative colonies: S. aureus, E.coli，they are the standard representative colonies in the UV-C disinfection tests of the WHO, representing 99.9% of bacterial characteristics.

Under normal circumstances, the WHO stipulates that it is necessary to pass the test of these two kinds of bacteria, so that the disinfection ability of the UV equipment can be determined to be qualified.

Measurement formula for killing germs

UV Dose µj/cm^2= µw/cm^2 x seconds	Disinfection Rate
1000 µJ/cm^2	99%*
1500 µJ/cm^2	99.90%*
2000 µJ/cm^2	99.95%*
4000 µJ/cm^2	99.99%*

*Staphylococcus Aureus. The preceding data is derived from reports obtained from third-party laboratory testing.

Measurement Formula

1.UV Dose (µJ) = UV Concentration (µW/cm^2) x Time(Seconds)

2.UV Concentration (µW/cm^2) = $\dfrac{\text{UV Power (µW)}}{\text{Area (cm}^2)}$

* $1mW = 10^3 µW$, $1m^2 = 10^4 cm^2$

Example: at a height of 3m the SunClean Downlight takes just 25 minutes to eliminate 99.9% of germs in a 3x3m(9m^2) space.

SunClean™ Downlight UV Power is 180mW, Disinfection Area is 9m^2

1.UV Concentration: $\dfrac{180mW}{9m^2}$ = 20mW/m^2= 2µW/cm^2

2.Time required for 99.9%: $\dfrac{1500µj}{2µw/cm^2}$ = 750sec (12.5mins)

Area	Disinfection Rate	Time
3x3m	99.9%	12.5min

Area	Disinfection Rate
3x3m	99.9%

International UV Safety Threshold	SunClean™ Downlight UV Energy	Max Safe Exposure Time
30J/m^2 (3000µJ/cm^2)	2µW/cm^2	25min

UV Radiation Limits and Calculations

According to IEC62471 of the International Electrolyst Institute and the CDC's National Institute for Occupational Safety and Health, people should not be exposed to more than 30J/m^2 of UV radiation.

Table DVC.2.1.2 – Permissible ultraviolet exposures	
Effective irradiance, E. (µW/cm^2)	Duration Of expose per day
0.8 µW/cm^2	1 h
1.7 µW/cm^2	30 min
3.3 µW/cm^2	15 min
5 µW/cm^2	10 min
10 µW/cm^2	5 min
50 µW/cm^2	1 min
100 µW/cm^2	30 s

Example:

SunClean™ downlights have a UV concentration of 2µW/cm^2, thus applying the formula to a SunClean™ Downlight.

The safety threshold would be calculated as: $\dfrac{3000µJ/cm^2 \ (30j/m^2)}{2µW/cm^2}$ = 1500sec (25mins)

Just change the light!

Easily prevent contamination!
Ensure the safety of family members and employees.

LED Downlight 4"/5"/6"/8"   **Upgrade to**   59S Downlight 4"/5"/6"/8"

LED Downlight 2.5"/3"/4"/5"/6"   **Upgrade to**   59S Downlight 2.5"/3"/ 4"/5"/6"(Entry-level)

LED Downlight(American) 4"/6"   **Upgrade to**   59S Downlight(American) 4"/6"

LED E26/E27 Bulb Light   **Upgrade to**   59S E26/E27 Bulb Light-A19 | 59S E26/E27 Bulb light-BR30

LED E26/E27 Bulb Light   **Upgrade to**   59S E26/E27 Bulb Light T80/T100/T120/T140

LED E26/E27 UFO Light   **Upgrade to**   59S E26/E27 UFO Light

LED Panel Light   **Upgrade to**   59S Panel Light

LED Ceiling Light   **Upgrade to**   59S Ceiling Light

Elevator Light   **Upgrade to**   59S Elevator Button Sanitizer | 2.5" Elevator Space Sanitizer | 2.5" Elevator Space Sanitizer (pro)

59S High Power UV-C Light LED 16 pcs   59S High Power UV-C Light LED 25 pcs

59S Door Handle Series

Others

SunClean™ Downlight

Intelligent, Automatic Disinfection, Air-Cleaning, and Lighting 3-in-1.

LED Downlight 4"   LED Downlight 5"   LED Downlight 6"   LED Downlight 8"

Upgrade to   Upgrade to   Upgrade to   Upgrade to

4" Size: Φ149mm   5" Size: Φ174mm   6" Size: Φ184mm   8" Size: Φ215mm

Radar   Driver

99.9% Kills up to 99.9% of all Germs

Military-gradar radar sensor ensures safe use

	4" Size: Φ149mm	5" Size: Φ174mm	6" Size: Φ184mm	8" Size: Φ215mm
Lighting Specifications				
Power	14W	18W	18W	22W
Luminous flux	>1120 lm	>1440 lm	>1440 lm	>1760 lm
CCT	3000K/4000K/5000K/6000K	3000K/4000K/5000K/6000K	3000K/4000K/5000K/6000K	3000K/4000K/5000K/6000K
Color Temperature Adjustable	NO	NO	NO	NO
CRI	>80	>80	>80	>80
Lamp Lifespan	>35,000 hrs	>35,000 hrs	>35,000 hrs	>35,000 hrs
UV Specifications				
Diode Type	UV-C LED	UV-C LED	UV-C LED	UV-C LED
Power	18W	18W	20W	20W
UV Energy	180mW	180mW	200mW	200mW
Disinfection Area	3 x 3m (9m^2)	3 x 3m (9m^2)	3 x 3m (9m^2)	3 x 3m (9m^2)
Disinfection Modes	20-min automatic mode 2-hour intensive mode	20-min automatic mode 2-hour intensive mode	20-min automatic mode 2-hour intensive mode	20-min automatic mode 2-hour intensive mode
Detection Sensor	5.8G	5.8G	5.8G	5.8G
Beam Radius	90°	90°	90°	90°
Wavelength	260-285nm	260-285nm	260-285nm	260-285nm
Lamp Lifespan	>10,000 hrs	>10,000 hrs	>10,000 hrs	>10,000 hrs
Electrical Specifications				
Voltage	100-240Vac 50/60Hz	100-240Vac 50/60Hz	100-240Vac 50/60Hz	100-240Vac 50/60Hz
Operation Modes	Manual switch mode / radar sensor automatic mode	Manual switch mode / radar sensor automatic mode	Manual switch mode / radar sensor automatic mode	Manual switch mode / radar sensor automatic mode
Physical Specifications				
Body	Die cast aluminum	Die cast aluminum	Die cast aluminum	Die cast aluminum
Body Color	Dark gray and white	Dark gray and white	Dark gray and white	Dark gray and white
Dimension	Φ149x35mm	Φ174x35mm	Φ184x35mm	Φ215x35mm
Cut out	Φ130-140mm	Φ155-165mm	Φ165-175mm	Φ196-205mm
Weight	345g	435g	500g	575g
Operating Temperature	-10°C~40°C	-10°C~40°C	-10°C~40°C	-10°C~40°C
Certifications and Warranty				
Certifications	FCC, CE	FCC, CE	FCC, CE	FCC, CE
Warranty	2 Years	2 Years	2 Years	2 Years

SunClean™ Downlight

Intelligent, Automatic Disinfection, Air-Cleaning, and Lighting 3-in-1.

LED Downlight 2.5"
LED Downlight 3"
LED Downlight 4"
LED Downlight 5"
LED Downlight 6"

Upgrade to | Upgrade to | Upgrade to | Upgrade to | Upgrade to

2.5 " Size: Φ89mm
3" Size: Φ110mm
4" Size: Φ149mm (Entry-level)
5" Size: Φ174mm (Entry-level)
6" Size: Φ184mm (Entry-level)

Radar

99.9%   **Kills up to 99.9%** of all Germs

Military-gradar radar sensor ensures safe use

	2.5 " Size: Φ89mm	3" Size: Φ110mm	4" Size: Φ149mm (Entry-level)	5" Size: Φ174mm (Entry-level)	6" Size: Φ184mm (Entry-level)
Lighting Specifications					
Power	5W	7W	11W	11W	13W
Luminous flux	>500 lm	>600 lm	>880 lm	>880 lm	>1040 lm
CCT	3000K/4000K/ 5000K/6000K	3000K/4000K/ 5000K/6000K	3000K/4000K/ 5000K/6000K	3000K/4000K/ 5000K/6000K	3000K/4000K/ 5000K/6000K
Color Temperature Adjustable	NO	NO	NO	NO	NO
CRI	>80	>80	>80	>80	>80
Lamp Lifespan	>15,000 hrs	>15,000 hrs	>15,000 hrs	>15,000 hrs	>15,000 hrs
UV Specifications					
Diode Type	UV-C LED	UV-C LED	UV-C LED	UV-C LED	UV-C LED
Power	6W	7W	9W	9W	11W
UV Energy	60mW	70mW	90mW	90mW	110mW
Disinfection Area	2 x 2m (4m^2)	2 x 2m (4m^2)	2 x 2m (4m^2)	2 x 2m (4m^2)	2 x 2m (4m^2)
Disinfection Modes	30-min automatic mode 3-hour intensive mode	30-min automatic mode 3-hour intensive mode	30-min automatic mode 3-hour intensive mode	30-min automatic mode 3-hour intensive mode	30-min automatic mode 3-hour intensive mode
Detection Sensor	5.8G	5.8G	5.8G	5.8G	5.8G
Beam Radius	90°	90°	90°	90°	90°
Wavelength	260-285nm	260-285nm	260-285nm	260-285nm	260-285nm
Lamp Lifespan	>5000 hrs	>5000 hrs	>5000 hrs	>5000 hrs	>5000 hrs
Electrical Specifications					
Voltage	100-240Vac 50/60Hz	100-240Vac 50/60Hz	100-240Vac 50/60Hz	100-240Vac 50/60Hz	100-240Vac 50/60Hz
Operation Modes	Manual switch mode / radar sensor automatic mode	Manual switch mode / radar sensor automatic modee	Manual switch mode / radar sensor automatic mode automatic mode	Manual switch mode / radar sensor automatic mode automatic mode	Manual switch mode / radar sensor automatic mode automatic mode
Physical Specifications					
Body	Plastic	Plastic	Plastic	Plastic	Plastic
Body Color	White	White	White	White	White
Dimension	Φ89x51.4mm	Φ110x51.4mm	Φ149x56.5mm	Φ174x59mm	Φ184x59mm
Cut out	Φ70-80mm	Φ90-100mm	Φ130-140mm	Φ155-165mm	Φ165-175mm
Weight	125g	150g	220g	275g	290g
Operating Temperature	-10°C~40°C	-10°C~40°C	-10°C~40°C	-10°C~40°C	-10°C~40°C
Certifications and Warranty					
Certifications	FCC, CE	FCC, CE	FCC, CE	FCC, CE	FCC, CE
Warranty	1 Year	1 Year	1 Year	1 Year	1 Year

SunClean™ Downlight (American)

Intelligent, Automatic Disinfection, Air-Cleaning, and Lighting 3-in-1.
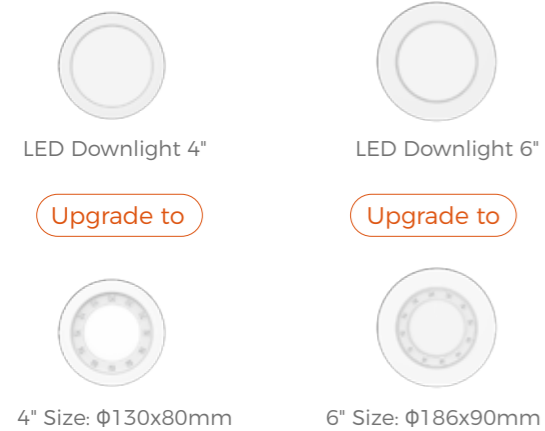
LED Downlight 4"

(Upgrade to)

4" Size: Φ130x80mm

LED Downlight 6"

(Upgrade to)

6" Size: Φ186x90mm

99.9% Kills up to 99.9% of all Germs

Military-gradar radar sensor ensures safe use

Radar

	4 " Size: Φ130x80mm	6" Size: Φ186x90mm
Lighting Specifications		
Power (Optional)	11W, 14W	12W, 16W
Luminous flux	>750 lm	>850 lm
Color Temperature	Warm white, cool white, and natural white	Warm white, cool white, and natural white
CCT	3000K, 4000K, 5000K	3000K, 4000K, 5000K
Color Temperature Adjustable	Yes	Yes
CRI	>80	>80
Lamp Lifespan	>35,000 hrs	>35,000 hrs
UV Specifications		
Diode Type	UV-C LED	UV-C LED
Power	18W	18W
UV Energy	180mW	180mW
Disinfection Area	3 x 3m (9m²)	3 x 3m (9m²)
Disinfection Modes	20-min automatic mode, 2-hour intensive mode	20-min automatic mode, 2-hour intensive mode
Detection Sensor	5.8G	5.8G
Beam Radius	90˚	90˚
Wavelength	260-285nm	260-285nm
Lamp Lifespan	>10,000 hrs	>10,000 hrs
Electrical Specifications		
Voltage	100-240Vac 50/60Hz	100-240Vac 50/60Hz
Operation Modes	Manual switch mode / radar sensor automatic mode	Manual switch mode / radar sensor automatic mode
Physical Specifications		
Body	Die cast aluminum	Die cast aluminum
Body Color	White	White
Dimension	4"Φ130x80mm (5.12 x 3.15in)	6"Φ186x90mm (7.32 x 3.54in)
Weight	230g (8.11oz)	305g (10.76oz)
Operating Temperaturev	-10~40˚C (14-104˚F)	-10~40˚C (14-104˚F)
Certifications and Warranty		
Certifications	FCC, CE	FCC, CE
Warranty	2 Years	2 Years

The Dawn of a New Era of Lighting SunClean™ has Arrived

Tungsten lamp

CFL lamp

LED lamp

SunClean™ 3 in 1

1879
Edison invented the electric light, and the first generation of tungsten lighting was launched.

1978
The second generation of lighting, high efficiency energy-saving fluorescent lamps, was popularized

2008
The third generation of lighting, LED white lights, become available.

Nov. 2020
SunClean™ Lighting is created.

UV-C LED used to be an expensive technology, costing more than their weight in gold

UV-C LEDs were originally developed by Sensor Electronic Technology, Inc. in the USA to disinfect water for astronauts. The cost of each diode was about US $1,400/PCS at that time. As recently as 2017 the price of each diode was still US $20/PCS.

Nowadays, driven by 59S's innovative technology, UV-C LEDs are becoming consumer products and coming into our lives.

Scan & See in Action

UV-C Disinfection Principle

UV-C: 100-285nm, (UVC LED produces UV lights at wavelength between 260-285nm that can destroy DNA/RNA of germs and bacteria effectively)

UV-B: 285-315nm, Protein analysis, Light therapy in medicine mostly

UV-A: 315-400nm, Curing of polymers and printer inks
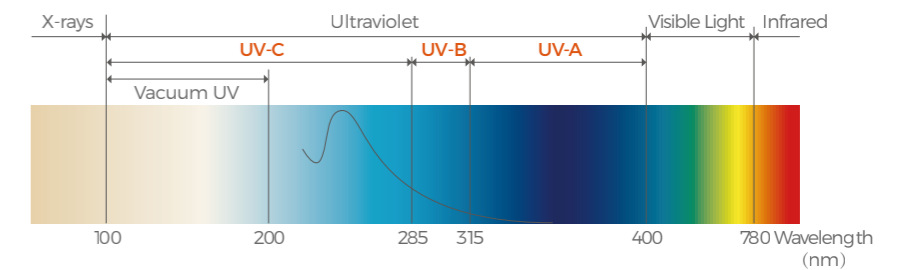
X-rays	Ultraviolet			Visible Light	Infrared
	UV-C	UV-B	UV-A		
	Vacuum UV				

100   200   285 315   400   780 Wavelength (nm)

SunClean™ Bulb Light (E26/E27)

Intelligent, Automatic Disinfection, Air-Cleaning, and Lighting 3-in-1.

LED Bulb Light
A19

Upgrade to

A19
Size: Φ62mm

BR30
Size: Φ94mm

99.9% **Kills up to 99.9%**
of all Germs

Military-gradar radar
sensor ensures safe use

Radar

	A19 Size: Φ62mm	BR30 Size: Φ94mm
Lighting Specifications		
Power	8W	11W
Base Type	E26/E27	E26/E27
Luminous flux	>650lm	>800lm
CCT	3000K / 4000K/5000K/6000K	3000K / 4000K/5000K/6000K
Color Temperature Adjustable	NO	NO
CRI	> 80	> 80
Lamp Lifespan	>15,000 hrs	> 15,000 hrs
UV Specifications		
Diode Type	UV-C LED	UV-C LED
Power	6W	9W
UV Energy	60mW	90mW
Disinfection Area	2 x 2m (4m^2)	2 x 2m (4m^2)
Disinfection Modes	30-min automatic mode, 3-hour intensive mode	30-min automatic mode, 3-hour intensive mode
Detection Sensor	5.8G	5.8G
Beam Radius	90°	90°
Wavelength	260-285nm	260-285nm
Lamp Lifespan	>5000 hrs	>5000 hrs
Electrical Specifications		
Voltage	100-240Vac 50/60Hz	100-240Vac 50/60Hz
Operation Modes	Manual switch mode / radar sensor automatic mode	Manual switch mode / radar sensor automatic mode
Physical Specifications		
Body	Plastic-coated aluminum	Plastic and aluminum alloy
Body Color	White	White
Dimension	Φ62 x 114mm	Φ94x132.5mm
Weight	135g	150g
Operating Temperature	-10~40℃	-10~40℃
Certifications and Warranty		
Certifications	FCC, CE	FCC, CE
Warranty	1 Year	1 Year

SunClean™ Bulb Light (E26/E27)

Intelligent, Automatic Disinfection, Air-Cleaning, and Lighting 3-in-1.

LED Bulb Light   LED Bulb Light   LED Bulb Light   LED Bulb Light

(Upgrade to)   (Upgrade to)   (Upgrade to)   (Upgrade to)

T80
Size: Φ80mm

T100
Size: Φ100mm

T120
Size: Φ120mm

T140
Size: Φ140mm

59S

99.9% **Kills up to 99.9%** of all Germs

Military-gradar radar sensor ensures safe use

Radar

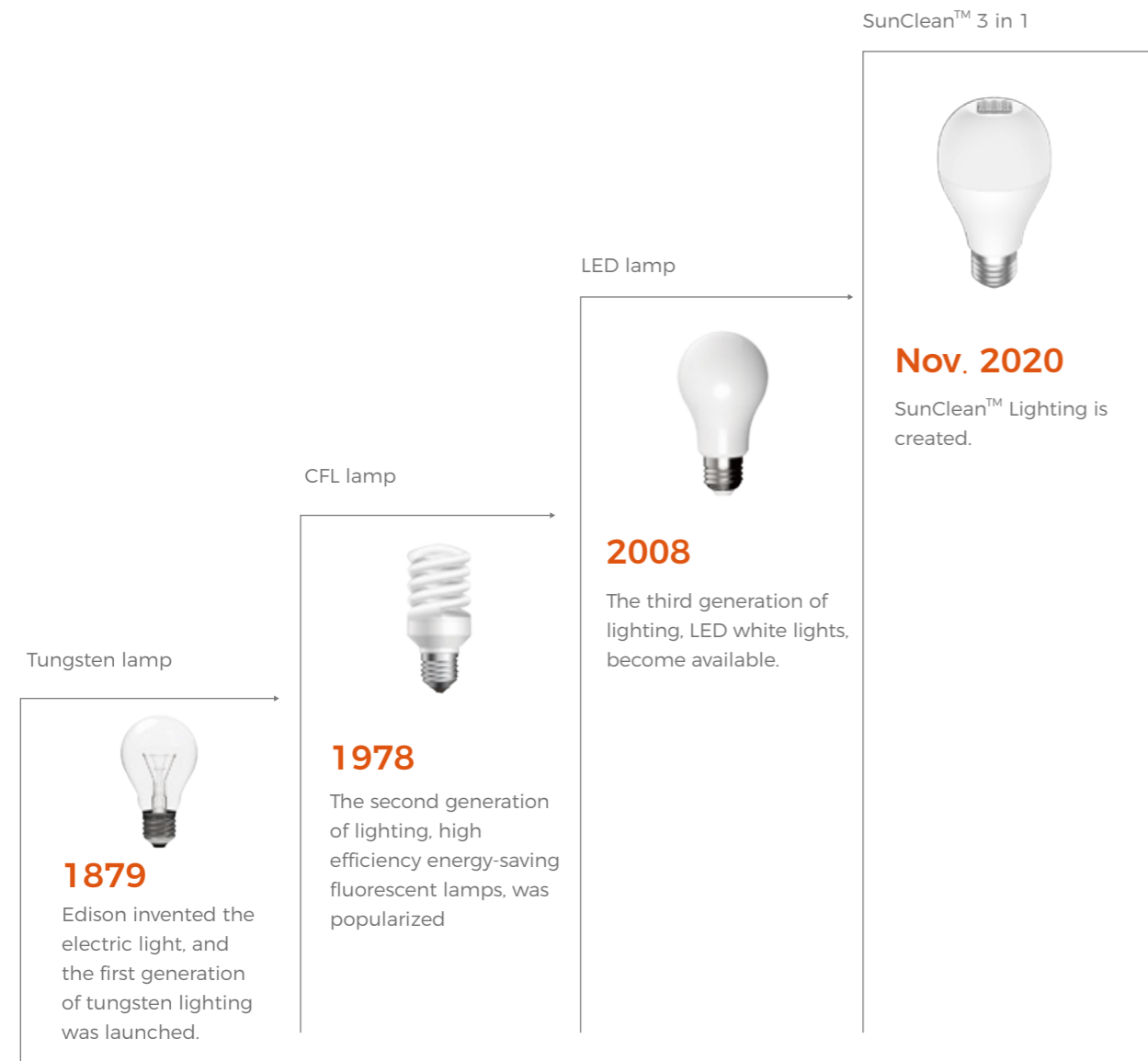|	T80 Size: Φ80mm	T100 Size: Φ100mm	T120 Size: Φ120mm	T140 Size: Φ140mm
Lighting Specifications				
Power	20W	25W	40W	50W
Base Type	E26/E27	E26/E27	E26/E27	E26/E27
Luminous flux	>1600 lm	>2000 lm	>3400 lm	>4250 lm
CCT	3000K/4000K/5000K/6000K	3000K/4000K/5000K/6000K	3000K/4000K/5000K/6000K	3000K/4000K/5000K/6000K
Color Temperature Adjustable	NO	NO	NO	NO
CRI	>80	>80	>80	>80
Lamp Lifespan	>15,000 hrs	>15,000 hrs	>15,000 hrs	>15,000 hrs
UV Specifications				
Diode Type	UV-C LED	UV-C LED	UV-C LED	UV-C LED
Power	9W	9W	12W	12W
UV Energy	90mW	90mW	120mW	120mW
Disinfection Area	3 x 3m (9m²)	3 x 3m (9m²)	3 x 3m (9m²)	3 x 3m (9m²)
Disinfection Modes	30-min automatic mode, 3-hour intensive mode	30-min automatic mode, 3-hour intensive mode	30-min automatic mode, 3-hour intensive mode	30-min automatic mode, 3-hour intensive mode
Detection Sensor	5.8G	5.8G	5.8G	5.8G
Beam Radius	90°	90°	90°	90°
Wavelength	260-285nm	260-285nm	260-285nm	260-285nm
Lamp Lifespan	>5000 hrs	>5000 hrs	>5000 hrs	>5000 hrs
Electrical Specifications				
Voltage	100-240Vac 50/60Hz	100-240Vac 50/60Hz	100-240Vac 50/60Hz	100-240Vac 50/60Hz
Operation Modes	Manual switch mode / radar sensor automatic mode	Manual switch mode / radar sensor automatic mode	Manual switch mode / radar sensor automatic mode	Manual switch mode / radar sensor automatic mode
Physical Specifications				
Body	Plastic-coated aluminum	Plastic-coated aluminum	Plastic-coated aluminum	Plastic-coated aluminum
Body Color	White	White	White	White
Dimension	Φ80x143mm	Φ100x173mm	Φ118x199.9mm	Φ137.6x233.4mm
Weight	170g	225g	275g	340g
Operating Temperature	-10~40℃	-10~40℃	-10~40℃	-10~40℃
Certifications and Warranty				
Certifications	FCC, CE	FCC, CE	FCC, CE	FCC, CE
Warranty	1 Year	1 Year	1 Year	1 Year

SunClean™ Bulb Light (E26/E27)

Intelligent, Automatic Disinfection, Air-Cleaning, and Lighting 3-in-1.

LED Bulb Light or LED Bulb Light or UFO Light

Upgrade to

or UFO Size: Φ150mm or UFO Size: Φ175mm UFO Size: Φ200mm

99.9% **Kills up to 99.9%** of all Germs

Military-gradar radar sensor ensures safe use

Radar

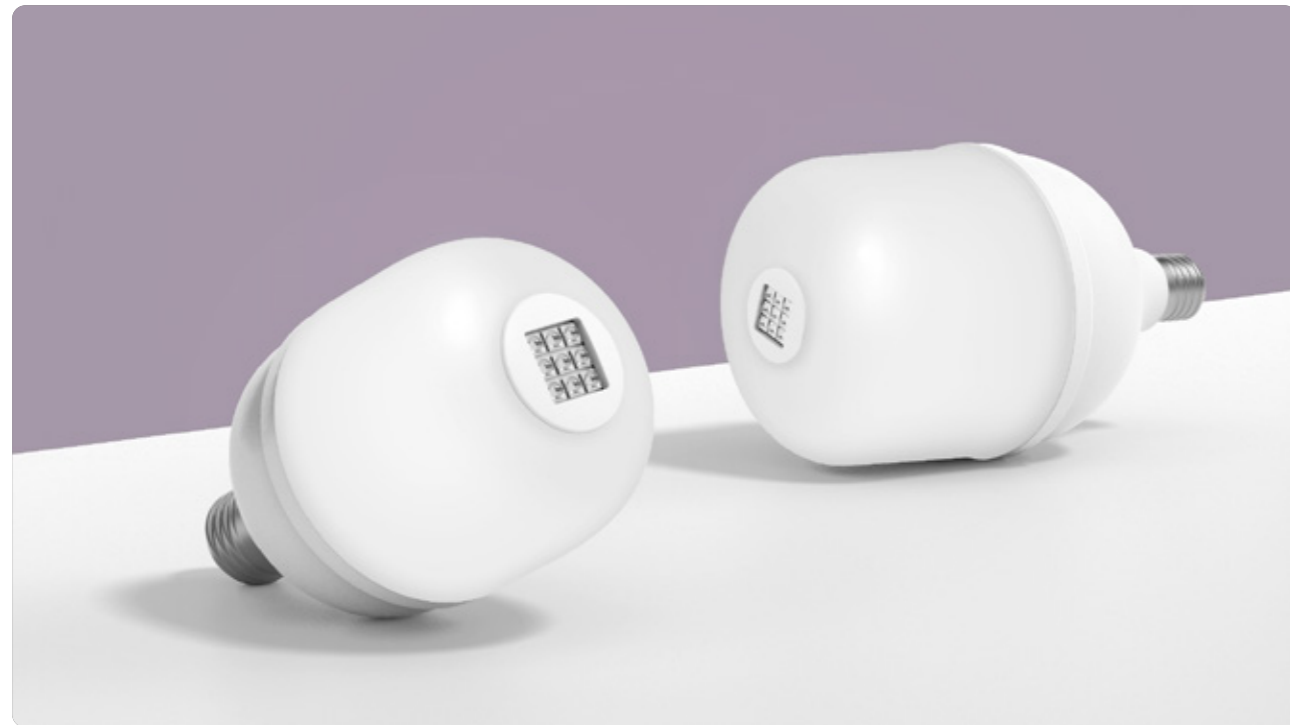|	UFO Size: Φ150mm	UFO Size: Φ175mm	UFO Size: Φ200mm
Lighting Specifications			
Power	18W	24W	30W
Base Type	E26/E27	E26/E27	E26/E27
Luminous flux	>1530 lm	>1920 lm	>2550 lm
CCT	3000K/4000K/5000K/6000K	3000K/4000K/5000K/6000K	3000K/4000K/5000K/6000K
Color Temperature Adjustable	NO	NO	NO
CRI	>80	>80	>80
Lamp Lifespan	>15,000 hrs	>15,000 hrs	>15,000 hrs
UV Specifications			
Diode Type	UV-C LED	UV-C LED	UV-C LED
Power	18W	18W	18W
UV Energy	180mW	180mW	180mW
Disinfection Area	4 x 4m (16m^2)	4 x 4m (16m^2)	4 x 4m (16m^2)
Disinfection Modes	30-min automatic mode, 3-hour intensive mode	30-min automatic mode, 3-hour intensive mode	30-min automatic mode, 3-hour intensive mode
Detection Sensor	5.8G	5.8G	5.8G
Beam Radius	90°	90°	90°
Wavelength	260-285nm	260-285nm	260-285nm
Lamp Lifespan	>5000 hrs	>5000 hrs	>5000 hrs
Electrical Specifications			
Voltage	100-240Vac 50/60Hz	100-240Vac 50/60Hz	100-240Vac 50/60Hz
Operation Modes	Manual switch mode / radar sensor automatic mode	Manual switch mode / radar sensor automatic mode	Manual switch mode / radar sensor automatic mode
Physical Specifications			
Body	Plastic	Plastic	Plastic
Body Color	White	White	White
Dimension	Φ150x72mm	Φ175x72mm	Φ200x72mm
Weight	240g	290g	330g
Operating Temperature	-10~40°C	-10~40°C	-10~40°C
Certifications and Warranty			
Certifications	FCC, CE	FCC, CE	FCC, CE
Warranty	1 Year	1 Year	1 Year

Recognized by 1,100 Hospitals around the world

The UV-C LED company that has made the greatest contributions to the fight against COVID-19
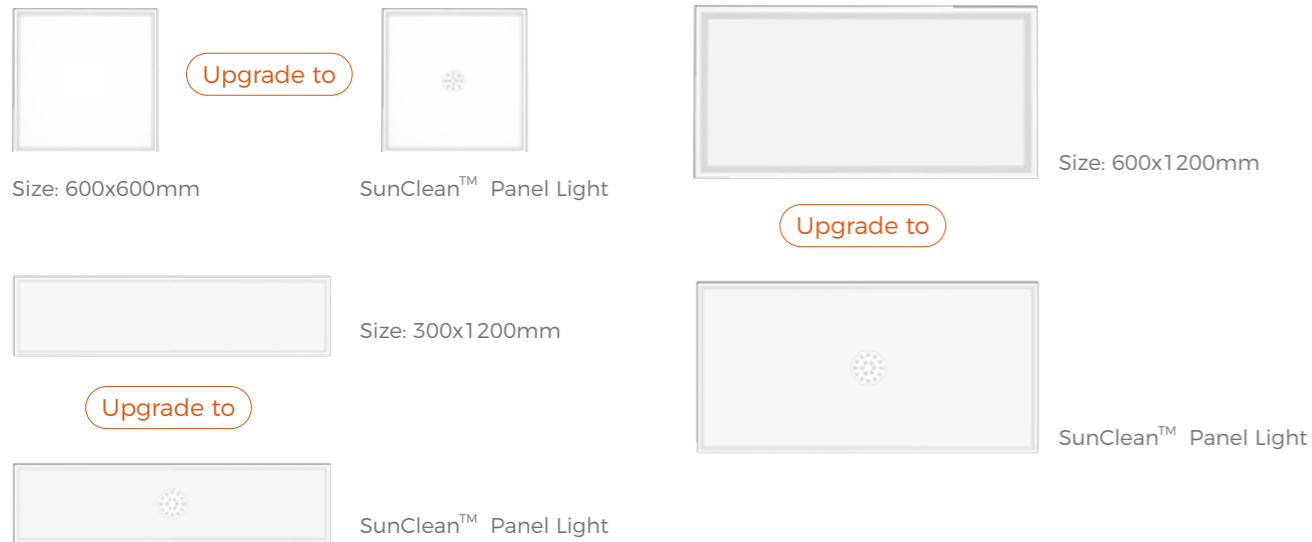

59S donated UV-C disinfection bags worth 4 million RMB to Wuhan medical staff

SunClean™ Panel Light

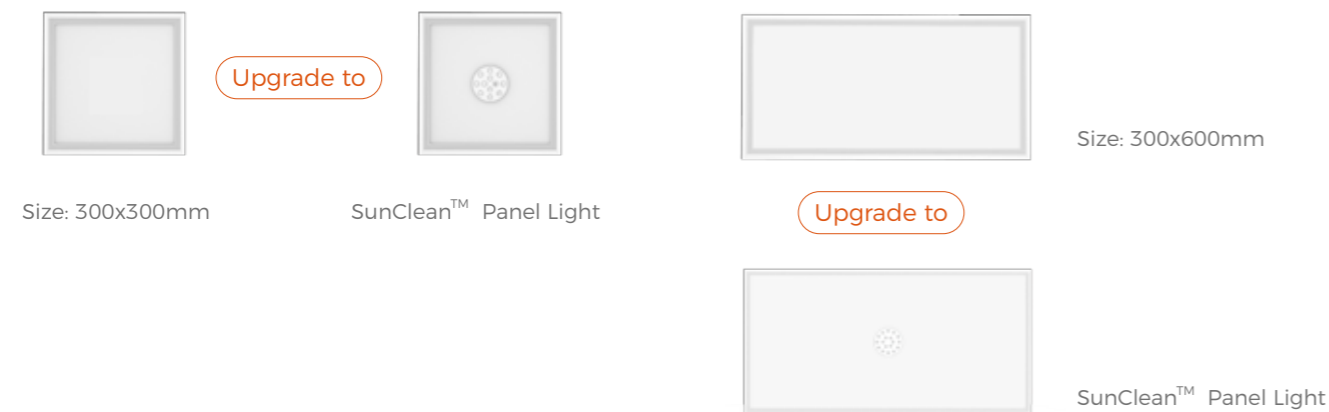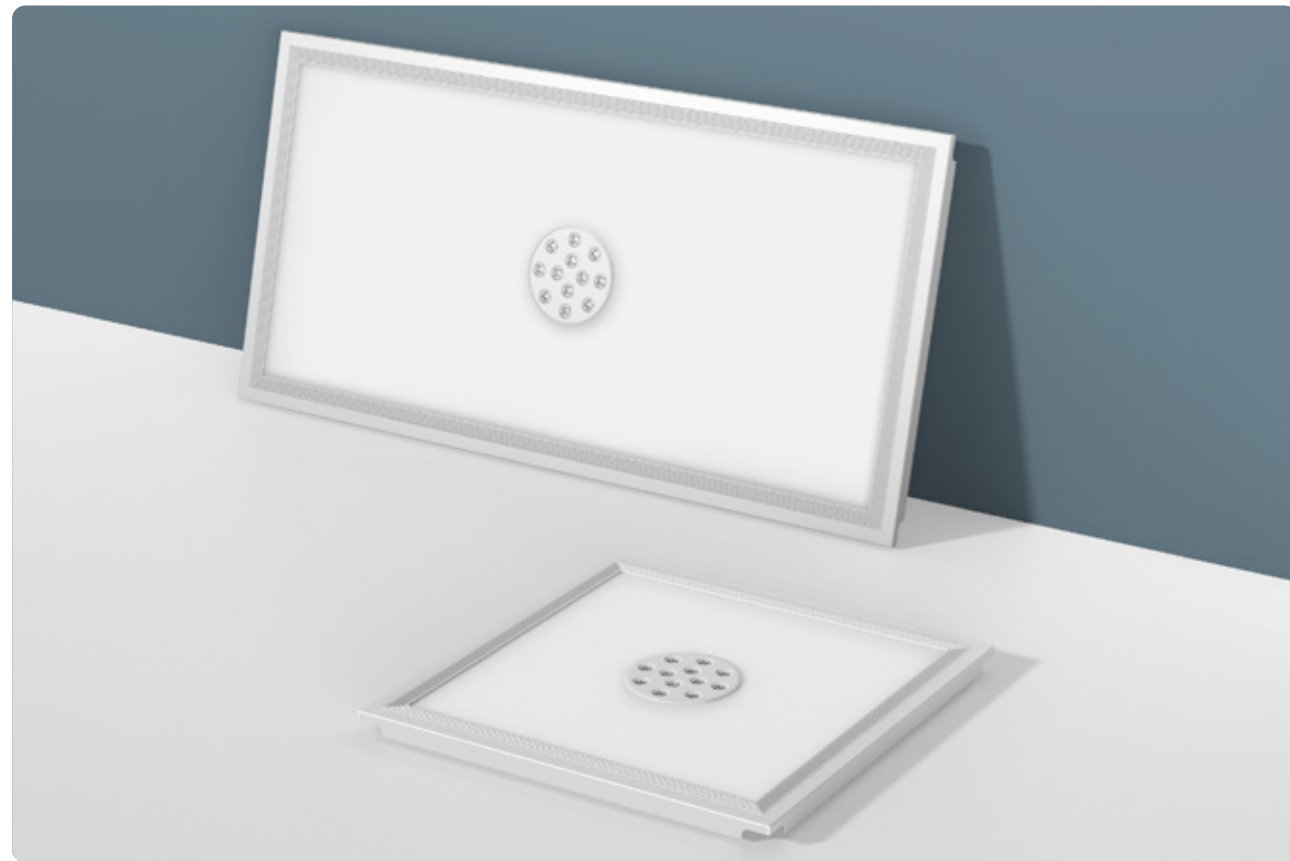Intelligent, Automatic Disinfection, Air-Cleaning, and Lighting 3-in-1.

Size: 600x600mm

Upgrade to

SunClean™ Panel Light

Size: 600x1200mm

Upgrade to

Size: 300x1200mm

Upgrade to

SunClean™ Panel Light

SunClean™ Panel Light

Radar

Driver

99.9% Kills up to 99.9% of all Germs

Military-gradar radar sensor ensures safe use

	Size: 600x600mm	Size: 300x1200mm	Size: 600x1200mm
Lighting Specifications			
Power	40W	40W	54W
Luminous flux	>4000 lm	>3200 lm	>5000 lm
CCT	3000K/4000K/5000K/6000K	3000K/4000K/5000K/6000K	3000K/4000K/5000K/6000K
Color Temperature Adjustable	NO	NO	NO
CRI	>80	>80	>80
Lamp Lifespan	>35,000 hrs	>35,000 hrs	>35,000 hrs
UV Specifications			
Diode Type	UV-C LED	UV-C LED	UV-C LED
Power	24W	24W	24W
UV Energy	240mW	240mW	240mW
Disinfection Area	3 x 3m (9m^2)	3 x 3m (9m^2)	3 x 3m (9m^2)
Disinfection Modes	20-min automatic mode, 2-hour intensive mode	20-min automatic mode, 2-hour intensive mode	20-min automatic mode, 2-hour intensive mode
Detection Sensor	5.8G	5.8G	5.8G
Beam Radius	90°	90°	90°
Wavelength	260-285nm	260-285nm	260-285nm
Lamp Lifespan	>10,000 hrs	>10,000 hrs	>10,000 hrs
Electrical Specifications			
Voltage	100-240Vac 50/60Hz	100-240Vac 50/60Hz	100-240Vac 50/60Hz
Operation Modes	Manual switch mode / radar sensor automatic mode	Manual switch mode / radar sensor automatic mode	Manual switch mode / radar sensor automatic mode
Physical Specifications			
Body	Aluminum alloy and stainless iron	Aluminum alloy and stainless iron	Aluminum alloy and stainless iron
Body Color	White	White	White
Dimension	595x595mm/600x600mm/ 603x603mm	295x1195mm/300x1200mm/ 303x1213mm	595x1195mm/600x1200mm/ 603x1213mm
Weight	1980g	1800g	4100g
Operating Temperature	-10°C~40°C	-10°C~40°C	-10°C~40°C
Certifications and Warranty			
Certifications	FCC, CE	FCC, CE	FCC, CE
Warranty	2 Years	2 Years	2 Years

SunClean^{TM} Panel Light

Intelligent, Automatic Disinfection, Air-Cleaning, and Lighting 3-in-1.

Upgrade to

Size: 300x300mm

SunClean^{TM} Panel Light

Size: 300x600mm

Upgrade to

SunClean^{TM} Panel Light

Radar

Driver

99.9% **Kills up to 99.9%** of all Germs

Military-gradar radar sensor ensures safe use

	Size: 300x300mm	Size: 300x600mm
Lighting Specifications		
Power	24W	30W
Luminous flux	>2040 lm	>2550 lm
CCT	3000K/4000K/5000K/6000K	3000K/4000K/5000K/6000K
Color Temperature Adjustable	NO	NO
CRI	>80	>80
Lamp Lifespan	>35,000 hrs	>35,000 hrs
UV Specifications		
Diode Type	UV-C LED	UV-C LED
Power	18W	18W
UV Energy	180mW	180mW
Disinfection Area	3 x 3m (9m^2)	3 x 3m (9m^2)
Disinfection Modes	20-min automatic mode, 2-hour intensive mode	20-min automatic mode, 2-hour intensive mode
Detection Sensor	5.8G	5.8G
Beam Radius	90˚	90˚
Wavelength	260-285nm	260-285nm
Lamp Lifespan	>10,000 hrs	>10,000 hrs
Electrical Specifications		
Voltage	100-240Vac 50/60Hz	100-240Vac 50/60Hz
Operation Modes	Manual switch mode / radar sensor automatic mode	Manual switch mode / radar sensor automatic mode
Physical Specifications		
Body	Aluminum alloy and stainless iron	Aluminum alloy and stainless iron
Body Color	White	White
Dimension	295X295mm/300X300mm/303X303mm	295X595mm/300X600mm/303X603mm
Weight	670g	1145g
Operating Temperature	-10˚C-40˚C	-10˚C-40˚C
Certifications and Warranty		
Certifications	FCC, CE	FCC, CE
Warranty	2 Years	2 Years

SunClean™ Ceiling Light

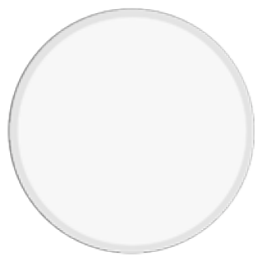Intelligent, Automatic Disinfection, Air-Cleaning, and Lighting 3-in-1.


LED Ceiling light

(Upgrade to)

SunClean™ Ceiling Light

Radar

99.9% **Kills up to 99.9%** of all Germs

Military-gradar radar sensor ensures safe use

10mins Auto disinfection

30W disinfection **16W** lighting

Size: Φ180x53.3mm

Lighting Specifications

Power	16W
Luminous flux	> 1280 lm
CCT	6500K
Color Temperature Adjustable	NO
CRI	>80
Lamp Lifespan	>35,000 hrs

UV Specifications

Diode Type	UV-C LED
Power	35W
UV Energy	300mW
Disinfection Area	3 x 3m (9m^2)
Disinfection Modes	10-min, 30-min 60-min,120-min
Detection Sensor	5.8G
Beam Radius	90°
Wavelength	260-285nm
Lamp Lifespan	>10,000 hrs

Electrical Specifications

Voltage	100-240Vac 50/60Hz
Operation Modes	Manual switch mode / radar sensor automatic mode

Physical Specifications

Body	Plastic
Body Color	White
Dimension	Φ180x53.3mm
Weight	475g
Operating Temperature	-10~40°C

Certifications and Warranty

Certifications	FCC, CE
Warranty	2 Years

59S SunClean™ Lighting
Helps us be sick less and healthy more

Viruses are a huge threat to the health of each and every person.

Thus, 59S created SunClean™ Lighting.

To kill germs, clean air, and give indoor lighting the germ-killing power of the sun.

So we can all be sick less and healthy more.

SunClean™ Elevator Sanitizer

Intelligent, Automatic Disinfection, Air-Cleaning, and Lighting 3-in-1.

Elevator Light

Upgrade to
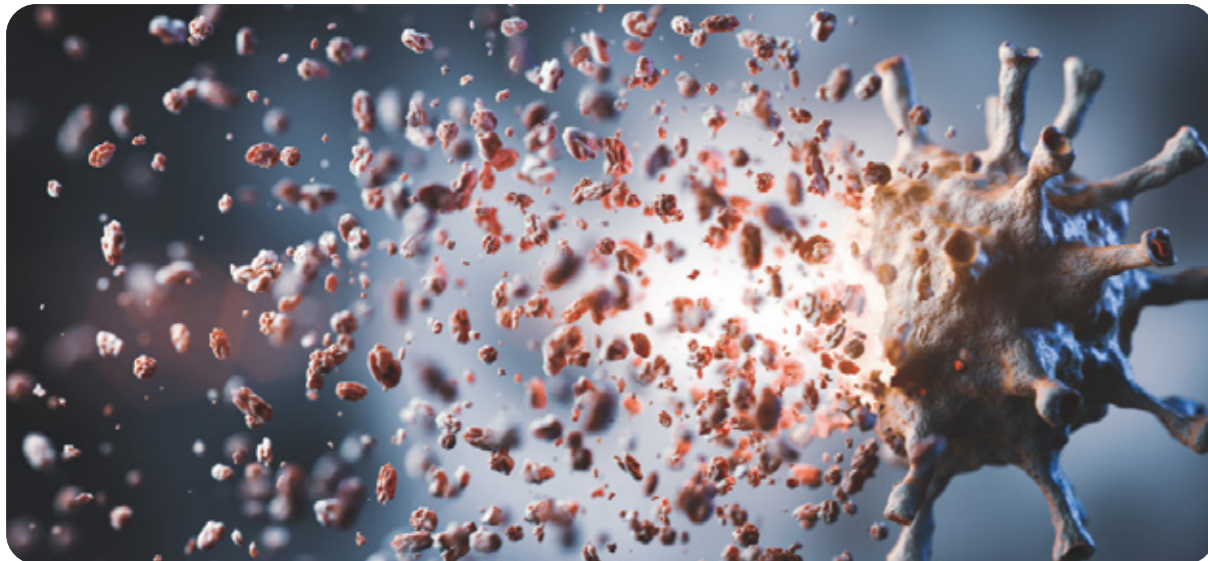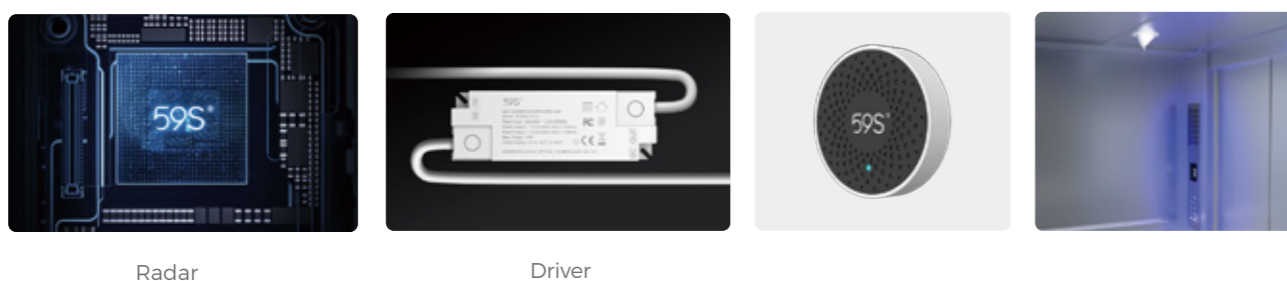

59S Elevator
Button Sanitizer

2.5" Elevator Space
Sanitizer Size: Φ89mm

2.5" Elevator Space
Sanitizer (pro)

Radar

Driver

99.9% Kills up to 99.9%
of all Germs

Military-gradar radar
sensor ensures safe use

	Elevator Button Sanitizer	2.5" Elevator Space Sanitizer Size: Φ89mm	2.5" Elevator Space Sanitizer (pro)
Lighting Specifications			
Power		5W	3W
Luminous flux		>450 lm	>200 lm
CCT		4000K	4000K
CRI		>80	>80
Lamp Lifespan		>35,000 hrs	>35,000 hrs
UV Specifications			
Diode Type	UV-C LED	UV-C LED	UV-C LED
Power	10W	6W	7W
UV Energy	100mW	60mW	70mW
Disinfection Area		Max 2 x 2m (4m^2)	Max 3 x 3m (9m^2)
Disinfection Modes	30s-automatic mode	10-min automatic mode	10-min automatic mode
Detection Sensor	5.8G	5.8G	5.8G
Beam Radius	24˚	90˚	90˚
Wavelength	260-285nm	260-285nm	260-285nm
Lamp Lifespan	>10,000 hrs	>10,000 hrs	>10,000 hrs
Electrical Specifications			
Voltage	100-240Vac 50/60Hz	100-240Vac 50/60Hz	100-240Vac 50/60Hz
Operation Modes	Radar sensor automatic mode	Radar sensor automatic mode	Radar sensor automatic mode
Physical Specifications			
Body	Aluminum alloy and plastic	Plastic	Plastic
Body Color	White and silver	white	white
Dimension	Φ90x66mm	Φ89x51.4mm	Φ89x93.5mm
Cut Out		Φ70-80mm	Φ68-77mm
Angle Adjustability	360˚ horizontal, 90˚ vertical		
Weight	300g	125g	260g
Operating Temperature	-10~40℃	-10℃~40℃	-10℃~40℃
Certifications and Warranty			
Certifications	FCC, CE	FCC, CE	FCC, CE
Warranty	2 Years	2 Years	2 Years

SunClean™ High Power UV-C Light

Intelligent, Automatic Disinfection, Air-Cleaning, and Lighting 3-in-1.

2.5" 16PCS
Size: Φ89mm

2.5" 25PCS
Size: Φ89mm

Radar

Driver

99.9% Kills up to 99.9% of all Germs

Military-gradar radar sensor ensures safe use

|	2.5" 16PCS Size: Φ89mm	2.5" 25PCS Size: Φ89mm
Lighting Specifications		
Power	3W	3W
Luminous flux	> 200 lm	> 200 lm
CCT	3000K/4000K/5000K/6000K	3000K/4000K/5000K/6000K
Color Temperature Adjustable	NO	NO
CRI	>80	>80
Lamp Lifespan	>35,000 hrs	>35,000 hrs
UV Specifications		
Diode Type	UV-C LED	UV-C LED
Power	15W	20W
UV Energy	150mW	200mW
Disinfection Area	3 x 3m (9m^2)	3 x 3m (9m^2)
Disinfection Modes	20-min Automatic mode, 2-hour Intensive mode	20-min Automatic mode, 2-hour Intensive mode
Detection Sensor	5.8G	5.8G
Beam Radius	90˚	90˚
Wavelength	260-285nm	260-285nm
Lamp Lifespan	>10,000 hrs	>10,000 hrs
Electrical Specifications		
Voltage	100-240Vac 42Vdc 50/60Hz	100-240Vac 42Vdc 50/60Hz
Operation Modes	Manual switch mode / radar sensor automatic mode	Manual switch mode / radar sensor automatic mode
Physical Specifications		
Body	Aluminum alloy and plastic	Aluminum alloy and plastic
Body Color	Dark gray and white	Dark gray and white
Dimension	Φ89x93.5mm	Φ89x93.5mm
Cut Out	Φ68-77mm	Φ68-77mm
Weight	260g	260g
Operating Temperature	-10-40˚C	-10-40˚C
Certifications and Warranty		
Certifications	FCC, CE	FCC, CE
Warranty	2 Years	2 Years

SunClean™ Automatic Door Handle Disinfector

A disinfector keeping your hands away from germs

Size: 47x88mm

Size: 47x88mm

99.9% **Kills up to 99.9%** of all Germs

Safety Military radar sensor

Immediate automatic door handle disinfection

No chemical residue, ozone, or extra radiation

3M Installs in 10 seconds

Works for up to 30 days on a single charge
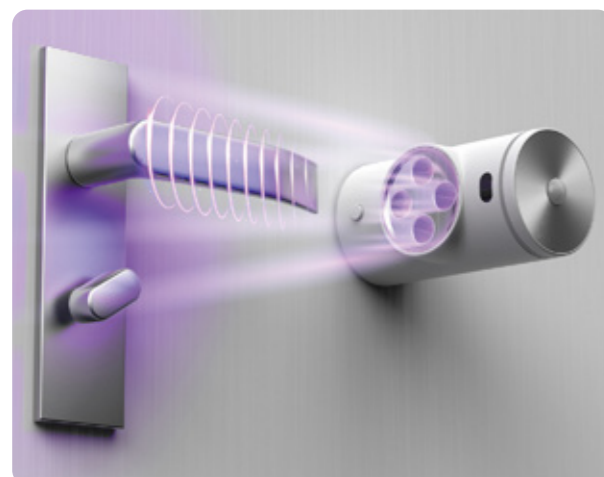
3 mounting bases of different thickness put the disnfecting LEDs the same distance from the door as the door handle.
Base thickness: 5mm / 11mm / 15mm

for

Handle distance from door：45.5mm / 49.5mm / 54.5mm

UV Specifications

Diode Type	UV-C LED
Power	3W
UV Energy	30mv
Disinfection Modes	20s-Automatic mode
Detection Sensor	5.8G
Beam Radius	90˚
Wavelength	260-285nm
Lamp Lifespan	>10,000 hrs

Electrical Specifications

Voltage	5DC 1A
Charging Time	approx. 2.5hrs
Internal Battery Capacity	2500mAH
Number of Uses per Full Charge	≥250
Max Operation Period per Full Charge	30 days
Operation Modes	Radar sensor automatic mode

Physical Specifications

Body	Plastic
Body Color	White or black
Dimension	Φ47x88mm
Weight	115g
Operating Temperature	-10~40˚C

Certifications and Warranty

Certifications	FCC, CE
Warranty	2 Years

59S Laptop Guard

Multiuse sanitizer for laptop and accessories

99.9%	Kills 99.9% of all germs
	No chemical residue, ozone, or extra radiaton
	Flexible 360˚ Gooseneck
	Bodyheat detection
	Child Safety Lock
	Lightweight and portable only 73g

Specifications	
Available Colors	White
Power	5W
UV Diodes	5 UV-C LEDs
Wavelength	260-285nm
Disinfection Timers	5 minutes, 10 minutes, 30 minutes, 60 minutes
Interface Type	USB-A
Input	5V=1A
Product Size	383 x 70.8 x 18mm
Product Weight	73g

59S Cellphone Guard

Portable cellphone sanitizer, disinfection and lighting 2 in 1
Disinfection starts once connected with phone

| 99.9% | Kills 99.9% of all germs |
	No chemical residue, ozone, or extra radiaton
	Flexible 360˚ Gooseneck
	Bodyheat detection to ensure safe use
	Child safety lock
	Lightweight and portable

Specifications	
Available Colors	White, black
UV Energy	TYPE-C：1.5W，Lightning：0.5W
UV Diodes	3 UV-C LEds
Illumination Diodes	12 LEDs
Wavelength	260-285nm
Disinfection Timers	5 minutes, 30 minutes
Interface Type	USB Type-C / Lightning
Input	5V=1A
Product Size	226 x 27 x 10.5mm
Product Weight	25g

59S Portable Sanitizer

Sterilize for Mobile Phone, Glasses, Earbuds. etc.

99.9% Kills 99.9% of all germs

No chemical residue, ozone, or extra radiation

Auto-off when flipped over

Long battery life

2 operation modes

Lightweight and portable

Specifications

Available Colors	White
UV Energy	4W
UV Diodes	6 UV-C LEDs
Wavelength	260-285nm
Disinfection Timers	59 seconds / 180 seconds
Input Port	Micro USB
Input	5V=1A
Battery Capacity	1100mAH
Max Uses Per Charge	59-second mode: 60 times; 180-minute mode: 20 times
Product Size	140 x 69 x 17mm
Product Weight	95g

59S Multiuse UVC Sterilizing Wand

Scan and Sanitize

99.9% Kills 99.9% of all germs

No chemical residue, ozone, or extra radiation

Auto-off when flipped over

Easily disinfect objects at any time

Foldable, lightweight, and portable

Specifications

Available Colors	White
Power	7W
UV Diodes	20 UV-C LEDs
Wavelength	260-285nm
Disinfection Time	2 seconds at a 3cm distance
Input Port	Micro USB
Input	5V=1A
Charging Time	Approx 2.5 hrs
Battery Capacity	2500mAh
Full-Charge Usage Time	50 mins
Product Size	257 x 42 x 40mm
Product Weight	210g
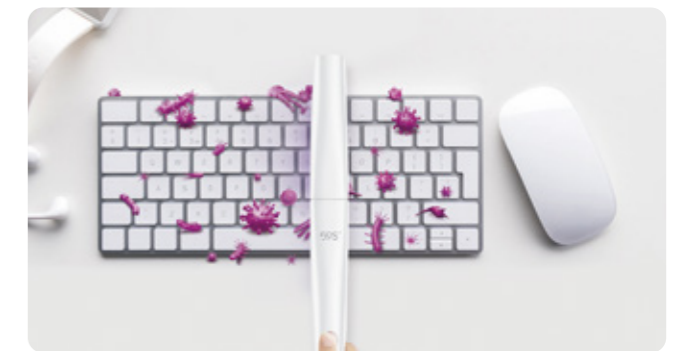
59S Portable Disinfecting Bag P11

Easy on-the-go bottle disinfection so feeding your baby is safer and easier.

99.9% Kills 99.9% of all germs

No chemical residue, ozone, or extra radiation

Thorough disinfection with no blind spots

3-minute disinfection on-the-go

Specifications	
Available Colors	Gray
UV Energy	8W
UV Diodes	9 UV-C LEDs
Wavelength	260-285nm
Disinfection Time	3 minutes
LED Lifespan	10,000 hours
Input Port	Micro USB
Input	5V=2A
Product Size	250 x 190 x 120mm
Product Weight	350g

59S Disinfecting Backpack P14

Durable double-layer design, 2-in-1 disinfection and storage

99.9% Kills 99.9% of all germs

No chemical residue, ozone, or extra radiation

Thorough disinfection with no blind spots

3-minute disinfection on-the-go

Specifications	
Available Colors	Blue, pink
UV Energy	8W
UV Diodes	17 UV-C LEDs
Wavelength	260-285nm
Disinfection Time	3 minutes
LED Lifespan	10,000 hours
Input Port	Micro USB
Input	5V=2A
Product Size	250 x 190 x 120mm
Product Weight	700g

iF DESIGN AWARD 2020

GOOD DESIGN AWARD 2019

59S Toy Disinfection Kit P18M

One-press disinfection for all kinds of children's toys

99.9% Kills 99.9% of all germs

No chemical residue, ozone, or extra radiation

Thorough disinfection with no blind spots

3-minute disinfection on-the-go

Specifications

Available Colors	Gray
UV Energy	8W
UV Diodes	12 UV-C LEDs
Wavelength	260-285nm
Disinfection Time	3 minutes
LED Lifespan	10,000 hours
Input Port	Micro USB
Input	5V=2A
Product Size	330 x 260 x 200mm
Product Weight	708g

59S Disinfection Bag for Household Items P26

Easy disinfection to keep daily necessities safe for you and your family

99.9% Kills 99.9% of all germs

No chemical residue, ozone, or extra radiation

Thorough disinfection with no blind spots

3-minute disinfection on-the-go

Specifications

Available Colors	Cherry blossom pink
UV Energy	8W
UV Diodes	12 UV-C LEDs
Wavelength	260-285nm
Disinfection Time	3 minutes
LED Lifespan	10,000 hours
Input Port	Micro USB
Input	5V=2A
Product Size	240 x 195 x 150mm
Product Weight	470g
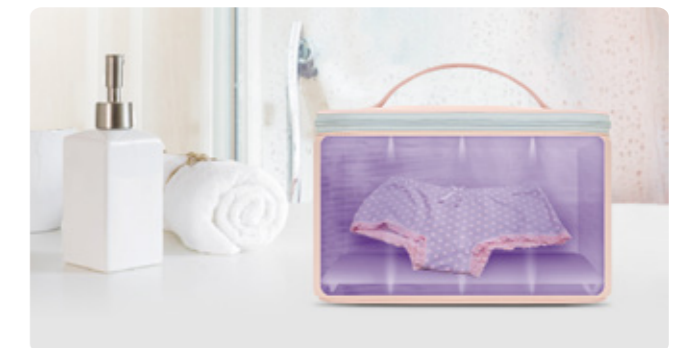
59S Fast Disinfection Bag (Drying Version) P30

Easy disinfection to keep daily necessities safe for you and your family

99.9% Kills 99.9% of all germs

No chemical residue, ozone, or extra radiation

Thorough disinfection with no blind spots

3-minute disinfection on-the-go

Specifications

Available Colors	Cherry blossom pink
UV Energy	8W
UV Diodes	12 UV-C LEDs
Wavelength	260-285nm
Disinfection Time	3 minutes, + 1 hour drying
LED Lifespan	10,000 hours
Input Port	AC socket
Input	220V=1A
Product Size	245 x 210 x 180mm
Product Weight	840g

59S Medical-Grade Fast Disinfection Bag (Medical Version) P55

24 UV-C LED diode disinfection box for professional use

99.9% Kills 99.9% of all germs

No chemical residue, ozone, or extra radiation

Thorough disinfection with no blind spots

3-minute disinfection on-the-go

Specifications

Available Colors	Sky blue
UV Energy	18W
UV Diodes	24 UV-C LEDs
Wavelength	260-285nm
Disinfection Time	3 minutes
LED Lifespan	10,000 hours
Input Port	DC socket
Input	24V=0.75A
Product Size	240 x 195 x 150mm
Product Weight	620g

59S UV-C Disinfection Box Pro

The world's first 6-sided UV-C LED disinfection box

iF DESIGN AWARD 2020

99.9% Kills 99.9% of all germs	No chemical residue, ozone, or extra radiation
Thorough disinfection with no blind spots	3-minute disinfection on-the-go

Specifications	
Available Colors	Blue, pink
UV Energy	27W
UV Diodes	24 UV-C LEDs
Wavelength	260-285nm
Disinfection Time	3 minutes
LED Lifespan	10,000 hours
Battery Capacity	-
Input Port	USB-C
Input	18V=1.5A
Product Size	302 x 269 x 154mm
Product Weight	1.59kg
Power Supply	Power adapter

Multiuse UVC Sterilizer

Disinfect and Storage

99.9% Kills 99.9% of all germs	No chemical residue, ozone, or extra radiation
Thorough disinfection with no blind spots	3-minute disinfection on-the-go

Specifications	
Available Colors	White
UV Energy	7W
UV Diodes	S1: 10 UV-C LEDs S2: 8 UV-C LEDs
Wavelength	260-285nm
Disinfection Time	3 minutes
LED Lifespan	10,000 hours
Input Port	USB-C
Input	10V=700mA
Product Size	S1: 235 x 108 x 75.5mm S2: 216 x 105 x 70mm
Product Weight	S1: 375g S2: 420g

Multiuse Disinfection Box

For pacifiers and other small items

99.9%	Kills 99.9% of all germs		No chemical residue, ozone, or extra radiation
	Thorough disinfection with no blind spots		3-minute disinfection on-the-go

Specifications

Available Colors	White, gray
UV Energy	2W
UV Diodes	4 UV-C LEDs
Wavelength	260-285nm
Disinfection Time	59 seconds
LED Lifespan	10,000 hours
Input Port	Micro USB
Input	5V=400mA
Product Size	86 x 79.9 x 78.9mm
Product Weight	120g

INTERNATIONAL DESIGN EXCELLENCE AWARDS

Portable Disinfection Lid

Disinfect on the go, for dining out safely

99.9%	Kills 99.9% of all germs		No chemical residue, ozone, or extra radiation
	Thorough disinfection with no blind spots		3-minute disinfection on-the-go

iF DESIGN AWARD 2020   reddot design award

Specifications

Available Colors	Blue, pink
UV Energy	5W
UV Diodes	5 UV-C LEDs
Wavelength	260-285nm
Disinfection Timers	59 seconds, 3 minutes
Input Port	Micro USB
Input	5V=1A
LED Lifespan	10,000 hours
Battery Capacity	1100mAh
Battery Type	Lithium-ion
Product Size	163.6 x 120 x 11.8mm
Product Weight	99g

59S Cutting Board Disinfector

Eliminates cancer-causing aflatoxin
Prevents cross-contamination of raw foods

99.9% Kills 99.9% of all germs

No chemical residue, ozone, or extra radiation

Thorough disinfection with no blind spots

3-minute disinfection on-the-go

| Specifications	
Available Colors	White
UV Energy	27W
UV Diodes	88 UV-C LEDs
Wavelength	260-285nm
Disinfection Timers	59 seconds, 3 minutes
Input Port	USB-C
Input	5V=2A
LED Lifespan	10,000 hours
Battery Capacity	3x 3000mAh
Battery Type	Lithium-ion
Product Size	397.3 x 264.5 x 26.4mm
Product Weight	1.2kg

59S Auto Closestool Disinfector

Disinfection starts once the lid is closed, and automatically stops when lid is opened
One click to kill germs that cannot be flushed away

99.9% Kills up to 99.9% of all germs

No chemical residue, ozone, or extra radiation

Thorough disinfection

Environmentally friendly

Specifications	
Available Colors	White
UV Energy	10W
UV Diodes	12 UV-C LEDs
Wavelength	260-285nm
Disinfection Time	300 seconds
Input	10V=1.5A
LED Lifespan	10,000 hours
Product Size	125.5 x 65 x 14mm
Product Weight	185g
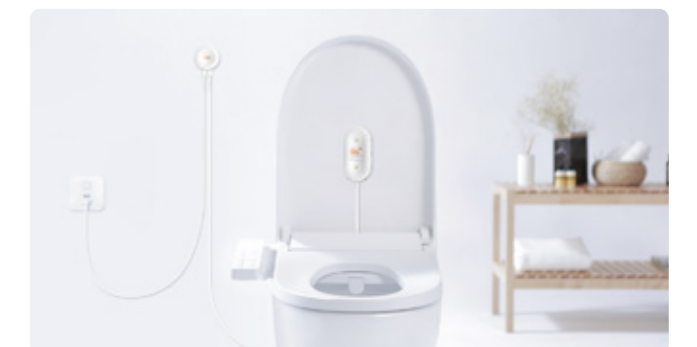
The global leader in UV-C disinfection

The largest producer of LED disinfecting products in the world.

59S

The Biggest UV LED Company in the world.1 of every 2 LED diodes comes from 59S.
The global leader in UV-C LED disinfection.

59S was founded in 2013 and now boasts over 1,000 employees all over the world. Focusing on R&D and production of UV-C LEDs—from chip R&D, to UV LED diodes, to UV-C disinfection bags and boxes, to UV-A nail curing devices, and more.

UV-C LEDs are the **No. 1** in market sales in the field of disinfection.
59S is the **leading UV-C LED** company with markets in the most countries—selling in nearly 87 countries worldwide.
The first company to commercialize UV-C LED disinfection technology.
The pioneering enterprise of UV disinfection wands, bags, and boxes.

General Headquarters
Unicenter, 15th Floor, Shenzhen

59S won the world's most prominent design innovation awards and filed several global patents

IF	Reddot	G-MARK	IDEA
3	1	1	1

PATENTS
274

UV Packaging Center
Building 1, 7th Floor, Taijiale Industrial Park, Guangming District, Shenzhen

Production Center
Building 2A, Baoxin Technology Industrial Park, Guangming District, Shenzhen

Production Center
Building G, Floors 2-9, Zhongchuang Industrial Park, Zhongshan City

Distributor