UV DISINFECTION CHOOSE GUANKE

UV-C Disinfection Light Catalog

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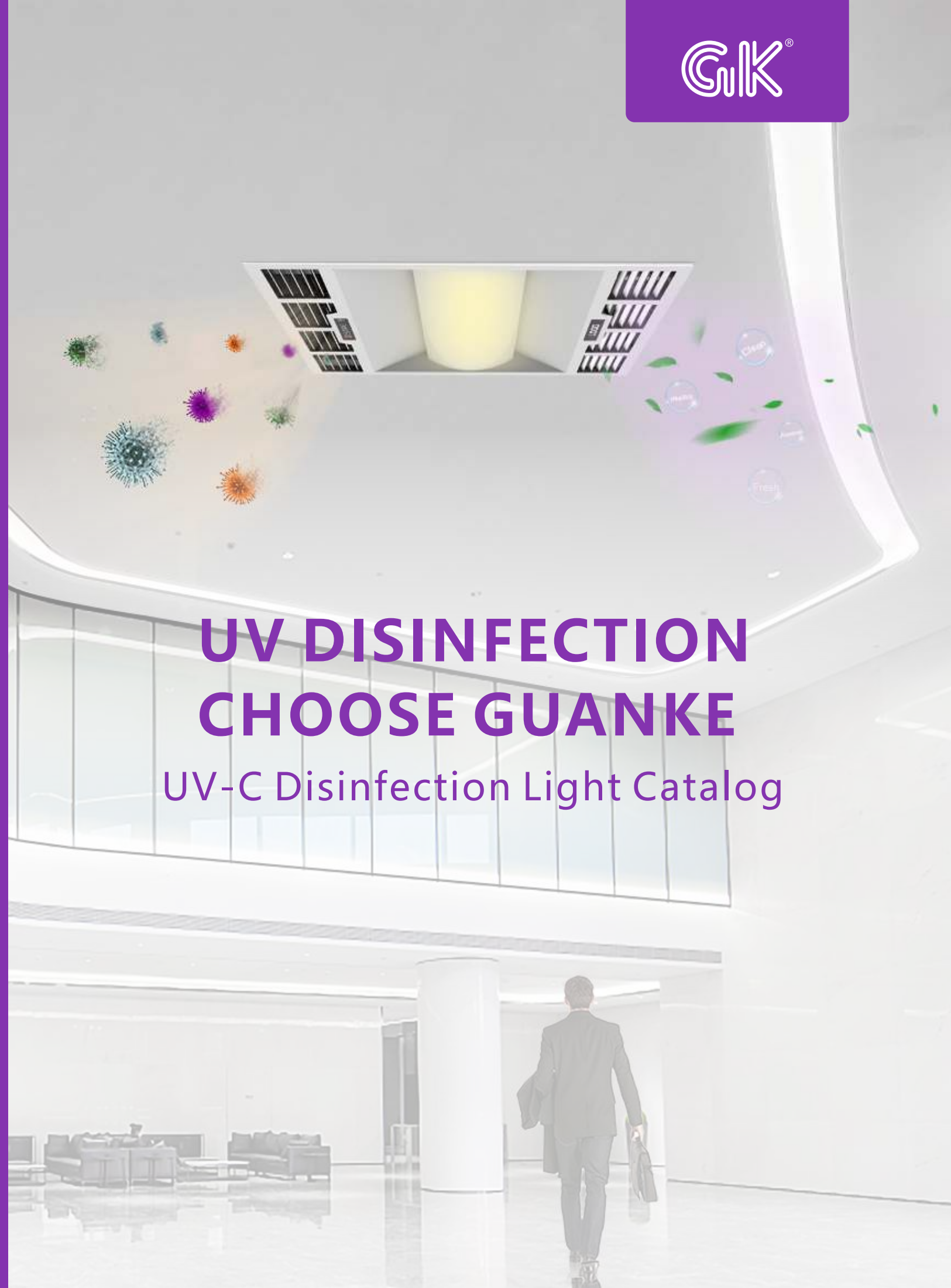Fax: +86-755-2754 3939
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Scan for more products   Guanke-UVC

UV-C PRODUCTS FAMILY

Surface UV-C Product

U12 40W/60W/80W
Integrated intelligent ultraviolet disinfection tube light

U18 20W/30W/40W
T8 UV-C tube light with microwave sensor

U10 60W/80W
360 Degree Intelligent
UV-C Lamp

L35 60W
Movable disinfection
trolley

U22 90W
Hybrid UV-C disinfection LED troffer

Hybrid(Mercury+LED) Indirect UV-C Product

Accessories

U15 135W
Air purification UV-C disinfection panel light

U19 125W
Upper Air UV-C Linear light
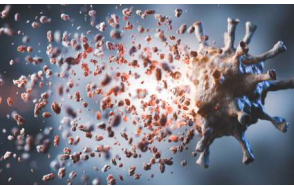
U20 150W
Four-side upper room UV-C disinfection light

L32/L21/L22
UV-C Safety Disinfection System /eyebolt Base/tripod

www.gkuvc.com

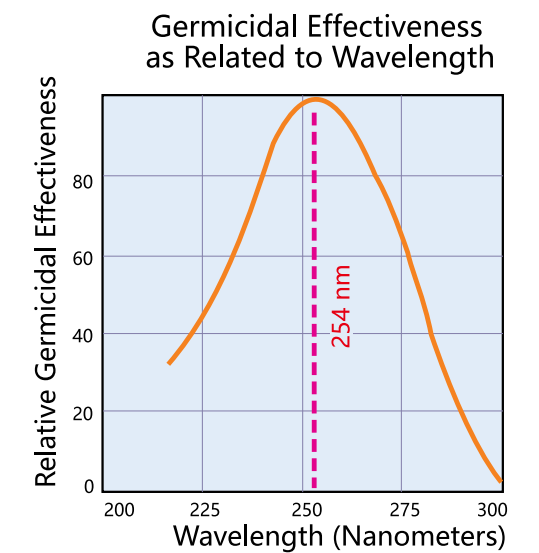# CONTENTS //////////////////////////////

Principle of disinfection

Principle of disinfection

High-energy ultraviolet rays with a wavelength of 200-280nm can destroy the molecular structure of DNA (deoxyribonucleic acid) or RNA (ribonucleic acid) in microbial cells, causing growth cell death and (or) regenerative cell death, achieving disinfection effect.

Bacterial structure: DNA + cell membrane
Virus structure: RNA + protein shell

DNA strand break

Before disinfection

After disinfection

Germicidal Effectiveness as Related to Wavelength

Relative Germicidal Effectiveness

254 nm

Wavelength (Nanometers)

GK's UV-C ultraviolet lamp emits ultraviolet light with a wavelength of 254 nanometers. This wavelength can effectively destroy the DNA and RNA in the cells of the microorganisms and achieve the effect of inhibiting bacteria.

X-ray | Ultraviolet rays | Visible light | infrared

vacuum-UV | UV-C | UV-B | UV-A

100   200   280 315   400   780   wavelength (nm)

254

Effective band for killing bacteria

GK Microbiology laboratory test results show that microorganisms can be killed by more than 99.9% after being irradiated with a certain dose of UV-C ultraviolet rays.

Before disinfection

After disinfection

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Surface UV-C Product

Shenzhen Guanke Technologies Co., Ltd

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U12
Integrated intelligent ultraviolet disinfection tube light

Disinfection Light Mounted on the ceiling, The enclosed space is disinfected by UV-C ultraviolet in all directions when unoccupied
Applicable to school, restaurant, supermarket, office and public area.

40W/60W/80W

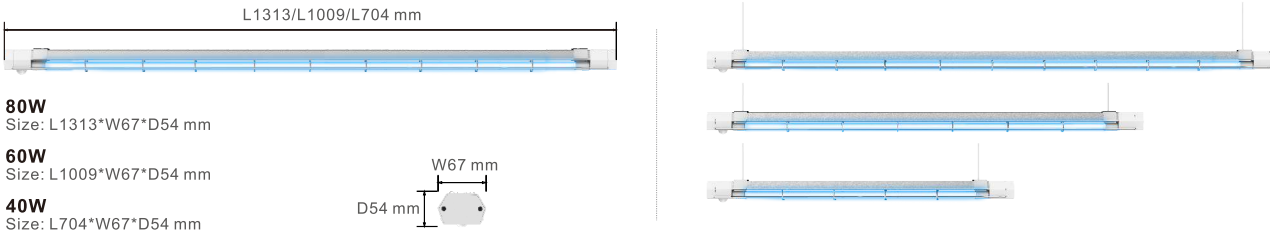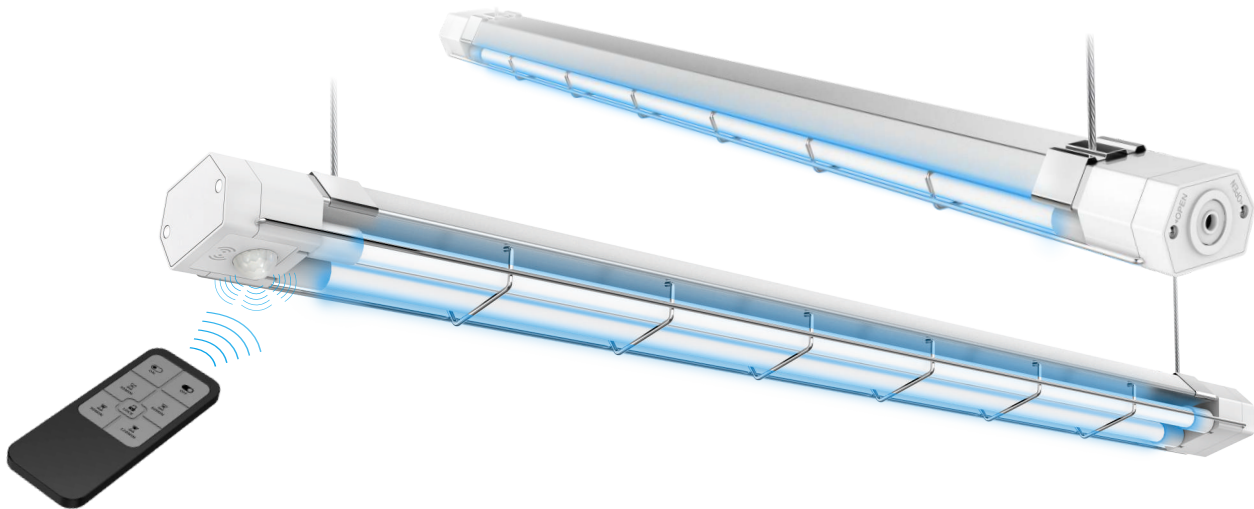| Multi-function junction box	Wireless remote control	Ozone-free UV-C	quartz glass tube

High-Efficacy Disinfection

Test verified, 99.9% bacteria is disinfected when 1 meter away from the U12-80W UV-C disinfection tube light, 1 minute disinfect 4.57 square meters.

Advantage
1, Remote control with 18s delay start-up, built-in microwave sensor+PIR sensor, much safer.
2, Mirror Aluminum increase Ultraviolet disinfection intensity.
3, High strength steel Protection.
4, With CE RoHS FCC ETL FDA EPA certifications and SGS disinfection test reports.

L1313/L1009/L704 mm

80W Size: L1313*W67*D54 mm
60W Size: L1009*W67*D54 mm
40W Size: L704*W67*D54 mm

W67 mm
D54 mm

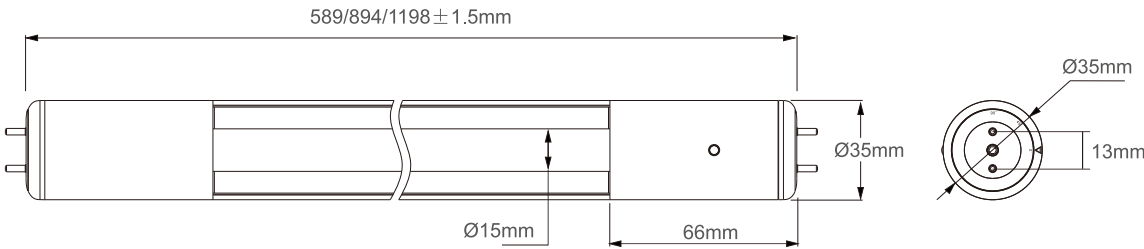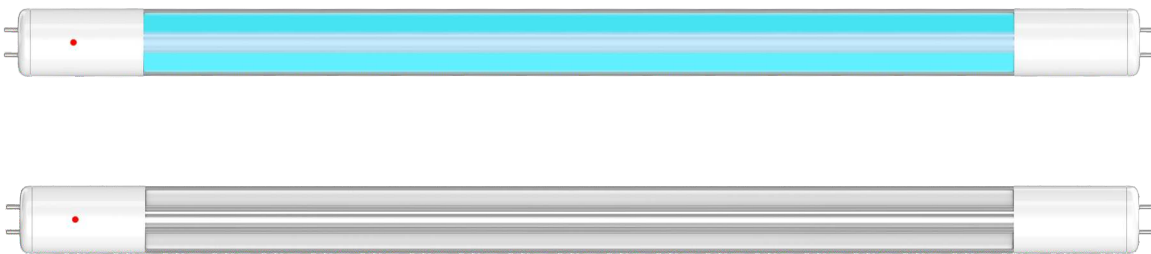| Model	Wattage	Voltage	Wavelength	Type	Base	Timing	Dimension	Operation Temp	Life Span	Weight	Color
U12-40W-01	40W±15%	100-120V 50~60Hz	254nm	UVC	G5	30/60/90/120mins/stay	704 x 67 x 54mm	-10~35ºC 14~95ºF	9,000H	NW:1.035kg GW:1.154kg	Matt silver
U12-60W-01	60W±15%	100-120V 50~60Hz	254nm	UVC	G5	30/60/90/120mins/stay	1009 x 67 x 54mm	-10~35ºC 14~95ºF	9,000H	NW:1.330kg GW:1.549kg	Matt silver
U12-80W-01	80W±15%	100-120V 50~60Hz	254nm	UVC	G5	30/60/90/120mins/stay	1313 x 67 x 54mm	-10~35ºC 14~95ºF	9,000H	NW:1.655kg GW:1.923kg	Matt silver
U12-40W-02	40W±15%	220-240V 50~60Hz	254nm	UVC	G5	30/60/90/120mins/stay	704 x 67 x 54mm	-10~35ºC 14~95ºF	9,000H	NW:1.035kg GW:1.154kg	Matt silver
U12-60W-02	60W±15%	220-240V 50~60Hz	254nm	UVC	G5	30/60/90/120mins/stay	1009 x 67 x 54mm	-10~35ºC 14~95ºF	9,000H	NW:1.330kg GW:1.549kg	Matt silver
U12-80W-02	80W±15%	220-240V 50~60Hz	254nm	UVC	G5	30/60/90/120mins/stay	1313 x 67 x 54mm	-10~35ºC 14~95ºF	9,000H	NW:1.655kg GW:1.923kg	Matt silver

Disinfection Tube

Internal Intelligent Sensor

1, Intelligent Design: 10s count down with buzzy sound before tube lamp light up If movement detected by microwave sensor within 10s, UV-C tube lamp will stop working.
2, Intelligent Sensor Design: UV-C tube lamp will stop working if someone enters the disinfection area when tube lamp is on.

Advantage

1, Internal 1 Microwave sensor.
2, Loosen the screw and rotate the pin angle.
3, Mirror Aluminum increase UV-C disinfection intensity.

U18
T8 UV-C tube light with microwave sensor

Internal ballast, Plug and play with easy replacement of traditional lamps;
10s delay switch on; Intelligent human detecting protection device.
Applicable to medical center, home living, office and public area.

20W/30W/40W

quartz glass tube   10s delay operation   Ozone-free UV-C

589/894/1198±1.5mm

Ø35mm

Ø35mm

13mm

Ø15mm   66mm

Model	Voltage	Wattage	Wave length	Irradiation Intensity (1M away from tube)	UV retention rate	Working	Working Temp	Diameter (mm)	Dimension (mm)	Base	Life Span (hour)
U18-20W-01 U18-20W-02	100-120V 50/60Hz 220-240V 50/60Hz	20W	254nm	≥110μw/cm²	≥75%	360mA	0℃~35℃	35	589	G13	6,000
U18-30W-01 U18-30W-02	100-120V 50/60Hz 220-240V 50/60Hz	30W	254nm	≥165μw/cm²	≥75%	380mA	0℃~35℃	35	894	G13	6,000
U18-40W-01 U18-40W-02	100-120V 50/60Hz 220-240V 50/60Hz	40W	254nm	≥220μw/cm²	≥75%	420mA	0℃~35℃	35	1198	G13	6,000

Portable Design

Lightweight design | Lift with one hand | Maximum 80W | High wattage with wider disinfection area | More disinfection applications when installed on the tripod stand.

Advantage

1, Internal 1 Microwave sensor and 3 PIR sensors, security protection device.
2, 360 degree disinfection, wireless remote control for on/off and time setting.

U10
360 Degree Intelligent UV-C Lamp

360 degree disinfection, 3D intelligent human detecting protection device.
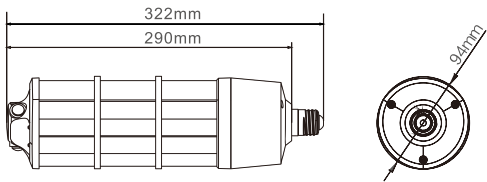Applicable to medical treatment center, home living, offices and so on.

60W/80W

quartz glass tube | Wireless remote control | 18S delay operation | Ozone-free UV-C

322mm
290mm
94mm

E26 D94XL322mm

Model	Wattage	Voltage	Wave length	Lamp type	Base	Timing	Dimension	Working Temp	Life span		Weight	Color
U10-60W-01	60W±15%	100-120V 50~60Hz	254nm	UVC	E26 E27 E39 Ex39 E40	30/60/90/120 mins	E26:D94XL322mm E27:D94XL324mm	-10~35°C 14~95°F	9,000H	E26	NW:0.92kg GW:1.14kg	Matt silver
U10-60W-02	60W±15%	220-240V 50~60Hz	254nm	UVC	E26 E27 E39 Ex39 E40	30/60/90/120 mins	E39:D94XL331mm Ex39:D94XL331mm E40:D94XL335mm	-10~35°C 14~95°F	9,000H	E39	NW:0.95kg GW:1.17kg	
U10-80W-01	80W±15%	100-120V 50~60Hz	254nm	UVC	E26 E27 E39 Ex39 E40	30/60/90/120 mins	E26:D94XL422mm E27:D94XL424mm	-10~35°C 14~95°F	9,000H	E26	NW:1.10kg GW:1.35kg	Matt silver
U10-80W-02	80W±15%	220-240V 50~60Hz	254nm	UVC	E26 E27 E39 Ex39 E40	30/60/90/120 mins	E39:D94XL431mm Ex39:D94XL431mm E40:D94XL435mm	-10~35°C 14~95°F	9,000H	E39	NW:1.12kg GW:1.37kg	

0-180° multiple angle rotation movable

180° rotatable tube, with universal wheel can be moved freely without position restriction, to achieve multi-directional disinfection, clean every angles.

L35
Movable disinfection trolley

UV-C Ultraviolet disinfection trolley, specially disinfect the microorganism on the surface of the object. The disinfection area can reach 30 square meters, with universal wheel can move freely, with brake can be fixed point placement.
Applicable to medical treatment center, bank, offices, schools, hotels and public areas.

60W

2104.8mm

320mm

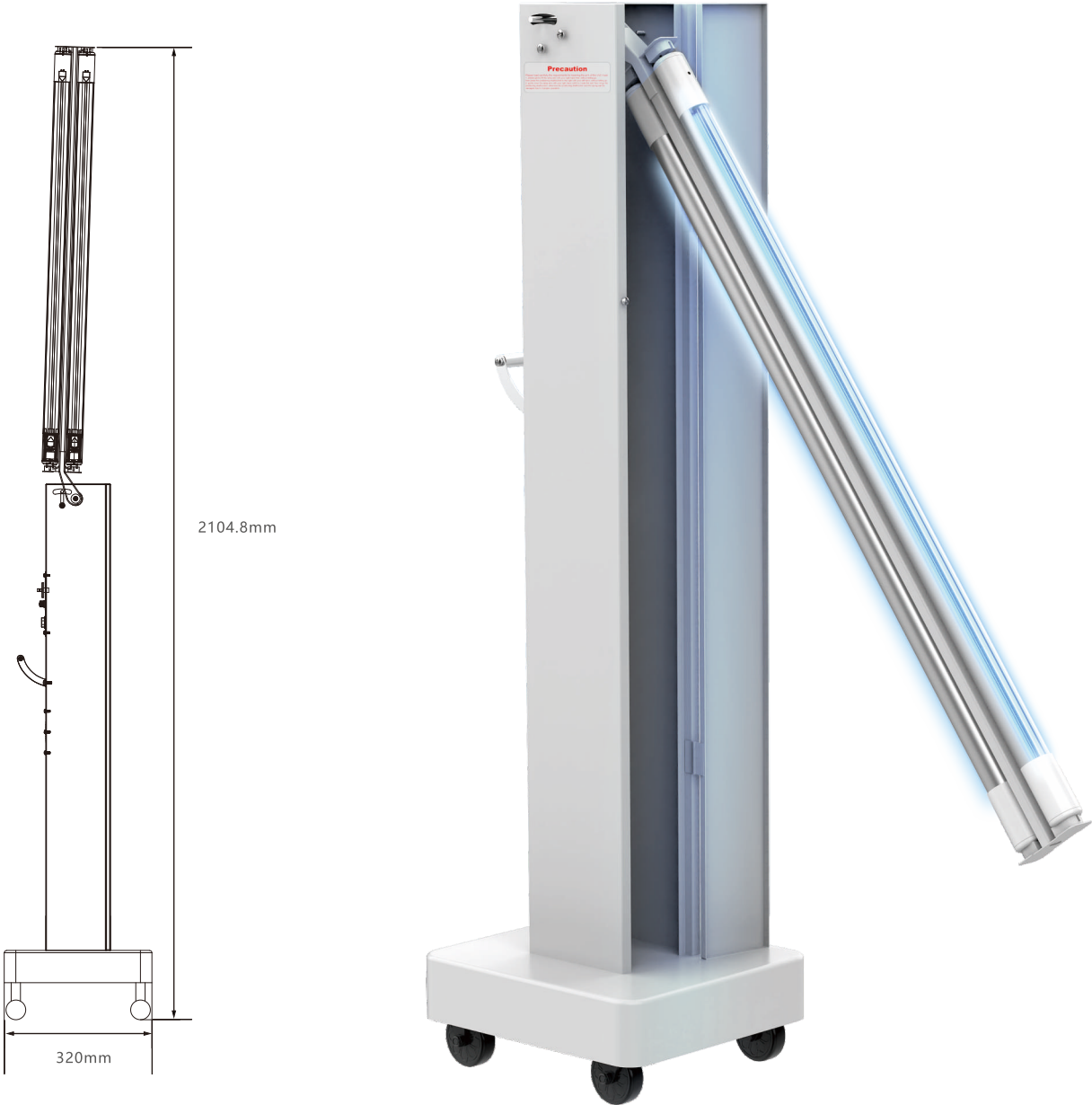Switch able to control on and off of single tube or double tube.

Mechanical timing 0-2 hours timing off

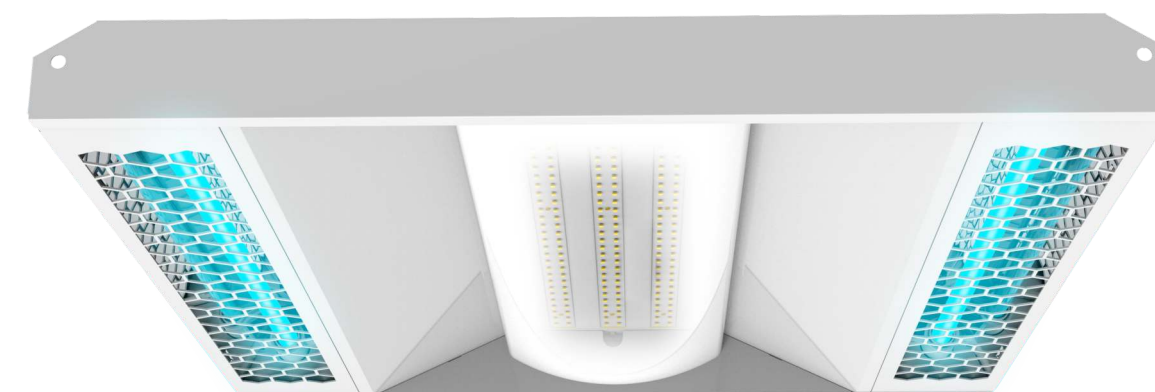| Model	Wattage	Voltage	Wave length	Lamp type	Timing	Power cord type	Dimension	Weight	Working Temp	Service life	Color
L35-01	60W±10%	100-277V 220-240v 50~60Hz	254nm	U18-30W-01(2pcs) U18-30W-02(2pcs) T8-G13-894mm	1-2Hrs	Default USA standard Plugs can be matched according to requirements	280*320*1160mm	NW:12.5kg GW:14.1kg	-10~35°C	UVC:1year trolley:3years	White

2 in 1 disinfection lighting

For disinfection and for lighting, the UV-C disinfection lamp control system is independently controlled from the LED lamp, the disinfection lamp or LED lamp can be switched on and off independently.
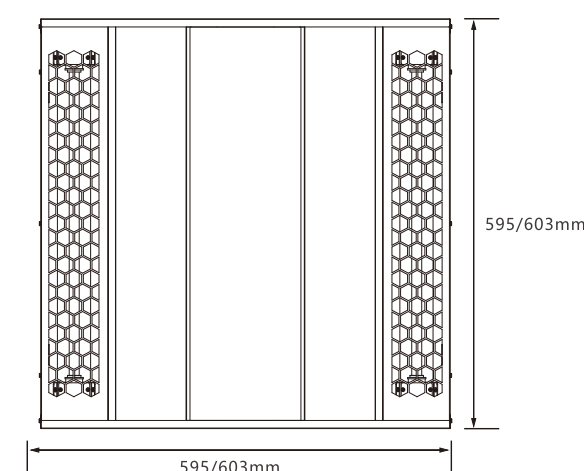
Advantage

1, UV-C security protection device, disinfection light turn off automatically when human being is detected.
2, Compatible with L32 safety system, double security protection.
3, Separated power control for LED and UV-C, much safer.

U22
Hybrid UV-C disinfection LED troffer

Disinfection Light Mounted on the ceiling, total UV-C Ultraviolet disinfection in enclosure space when unoccupied.
Applicable to meeting room, school, restaurant, office and public area.

90W

Optional Dimension：
1、595x595x57mm
2、603x603x57mm

595/603mm

57mm

595/603mm

Intelligent Microwave sensor

18s delay turn on

Separated power control for LED and UV-C much safer

Tube protection mesh Protect from broken

Model	Wattage		Voltage	Wave length	Lamp type	LED CCT	LED Lumen	Lamp size	Operating Temp	Life span	Color
U22-90W-01	90W±10%	UVC:50W LED:40W	220-240V 50~60Hz	254nm	UVC	2700-5700K	4200-4600LM	595*595*57mm	-10~35ºC	UVC: 1 year LED: 3 years	White
U22-90W-02	90W±10%	UVC:50W LED:40W	100-277V 50~60Hz	254nm	UVC	2700-5700K	4200-4600LM	603*603*57mm	-10~35ºC	UVC: 1 year LED: 3 years	White

Hybrid（Mercury+LED）
Indirect UV-C Product

Shenzhen Guanke Technologies Co., Ltd

Air purification circulation system

Double sided fan inlet and outlet design, through the fan to quickly form air convection, accelerate the indoor air circulation, and quickly extinguish bacteria disinfection, improve the efficiency of disinfection, HEPA filters 99.7% of particles ≥0.3 microns.

Advantage

1, HEPA filters 99.7% of particles ≥0.3 microns.
2, Fan air convection speeds up air circulation.
3, The mirror surface aluminum increases the ultraviolet ray and the irradiation intensity.
4, With LED light 3 color temperature adjustment and dimming.
5, Enclosed UV-C Light Source, harmless for human.

U15
Air purification UV-C disinfection panel light

UV-C Hybrid Direct LED Linear. The host can inhale the polluted air, purify and disinfect, and then discharge it to achieve air disinfection.
Suitable for medical, industrial, office, toilet, and other public places.

135W

Memory power-off function
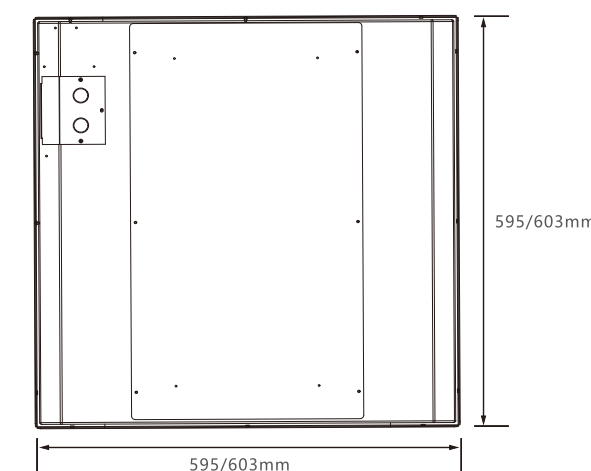Perform settings before power off

UV-C panel light
UV-C Hybrid Direct LED Linear

LED light 3 color temperature
and dimming

3-in-1 dimming
interface

Selectable Dimension：
1, 595x595x142.8mm
2, 603x603x142.8mm

595/603mm

142.8mm

595/603mm

Model	Power	Voltage	Wave length	Lamp type	Hold time	LED CCT	LED Lumen	Lamp size	Weight	Life span	Colour
U15-01	135W	UVC 50W LED 50W Other 35W	100-277V 50~60Hz	254nm	UVC	1-9Hrs	3000K 4000K 5000K	4700Lm(5000K) 4800Lm(4000K) 4500Lm(3000K)	595*595*142.8mm 603*603*142.8mm	NW:12.5kg GW:14.1kg	UVC: 1 year LED: 3 years	White

Double-sided upper room emits light flatly

The double-sided upper room flat emitting light design increases the disinfection range and enhances the disinfection efficiency. It is installed at a height of 2.3m or higher. UV-C ultraviolet rays will not irradiate the human body and achieve the coexistence of man and machine.

Advantage

1, LED light 3 color temperature adjustment, and dimming.
2, Memory power-off function, execute the settings before power-off.
3, Flip-over design makes maintenance more convenient.
4, Equipped with double-sided PIR infrared sensors, double-layer protection is safer.

U19
Upper Air UV-C Linear light

UV-C Hybrid Direct Led Linear.Ultraviolet rays illuminate the stratosphere
to kill bacteria and viruses floating in the indoor air.
It is suitable for medical treatment, industry, office, shopping mall, and other public places.

125W

Upper room flat-beam UV-C disinfection
UV-C Hybrid Direct Led Linear

Fan air convection
Speed up air circulation

Double-sided smart sensor
Prevent UV-C from irradiating people

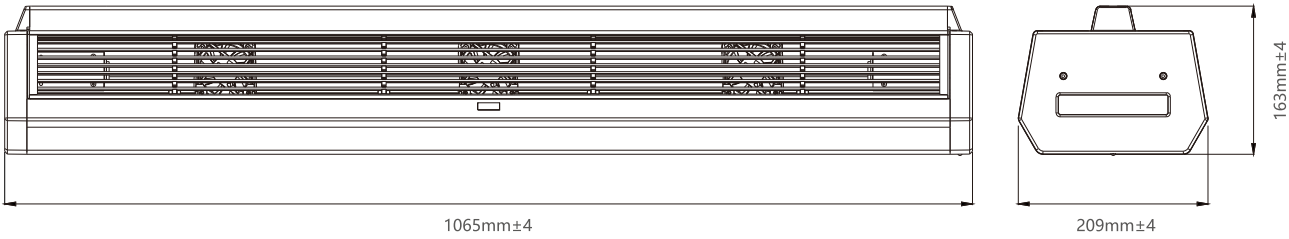Double-sided light design
Enhanced disinfection range

163mm±4

1065mm±4

209mm±4

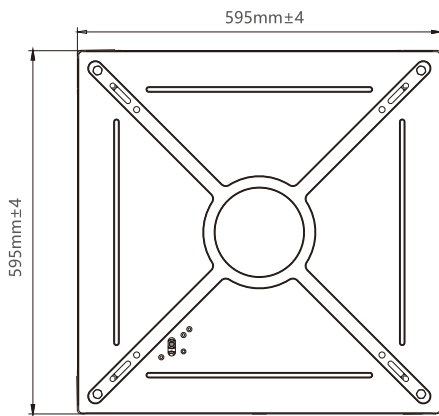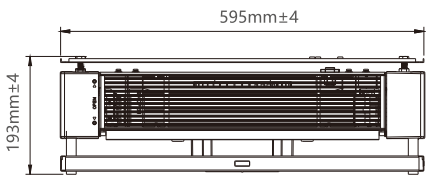| Model	Power	Voltage	Wave length	Lamp type	Hold time	LED CCT	LED Lumen	Lamp size	Weight	Life span	Colour
U19-125W-01	125W UVC 60W LED 60W Other 5W	100-277V 50~60Hz	254nm	UVC	1-9Hrs	3000K 4000K 5000K	5200LM 5500LM 5200LM	1065*209*163mm	NW:12.5kg GW:14.1kg	UVC: 1 year LED: 3 years	Black White

Four-side upper room UV-C disinfection

Four-side upper room UV-C disinfection:to expand the disinfection range and increase the disinfection efficiency;four-side disinfection are all upper room class,UVC are all installed higher than 2.1m,applicable for occupied area.

Advantage

1, Four-side upper room UV-C disinfection,to increase the disinfection efficiency.
2, Four-side PIR sensors,to increase safety.
3, Four-side fan design,for more air flow.
4, Openable grill design,for easier maintenance.

U20
Four-side upper room UV-C disinfection light

UV-C Hybrid Direct Led Linear.Ultraviolet rays illuminate the stratosphere to kill bacteria and viruses floating in the indoor air.
It is suitable for medical treatment, industry, office, shopping mall, and other public places.

150W

Upper room flat-beam UV-C disinfection
UV-C Hybrid Direct Led Linear

Automatically
UV-C tube self-check

Memory power-off function
Perform settings before power off

Mechanical timing
0-2 hours timing off

595mm±4
595mm±4
595mm±4
193mm±4

Model	Power	Voltage	Wave length	Lamp type	Hold time	Irradiation Intensity (1M away from tube)	Lamp size	Weight	Life span	Colour
U20-01	150W±10%	100-277V	254nm	UVC	1-9Hrs	≥110μw/cm²	595*595*193mm	NW:21kg	Whole machine: 3 years UVC: 1 year	White

Accessories

Shenzhen Guanke Technologies Co., Ltd

S2 magnetic door switch

UV-C Tube fixture Light with Microwave sensor

L32 Applications

L32
UV-C Safety Disinfection System

The L32 safety system has a set of safety logical sequence, the operator can turn on the disinfection lamp only according to the sequence. It can force the operator to conduct a safety inspection before disinfection in the room, close the door after checking and confirming there is nobody in the room, finally unlock admin lock with the administrator key to perform disinfection operations. During the disinfection, when there is someone opening the door & entering the room, the S2 will be turned off, disinfection will be stopped.

It is suitable for classrooms, restaurants, activity rooms, dormitories, offices, toilets and so on, any places needed to be disinfected.
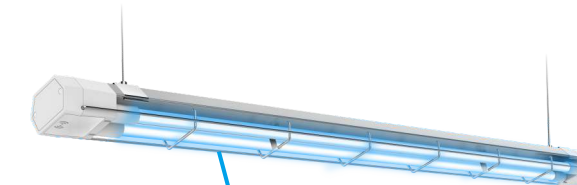
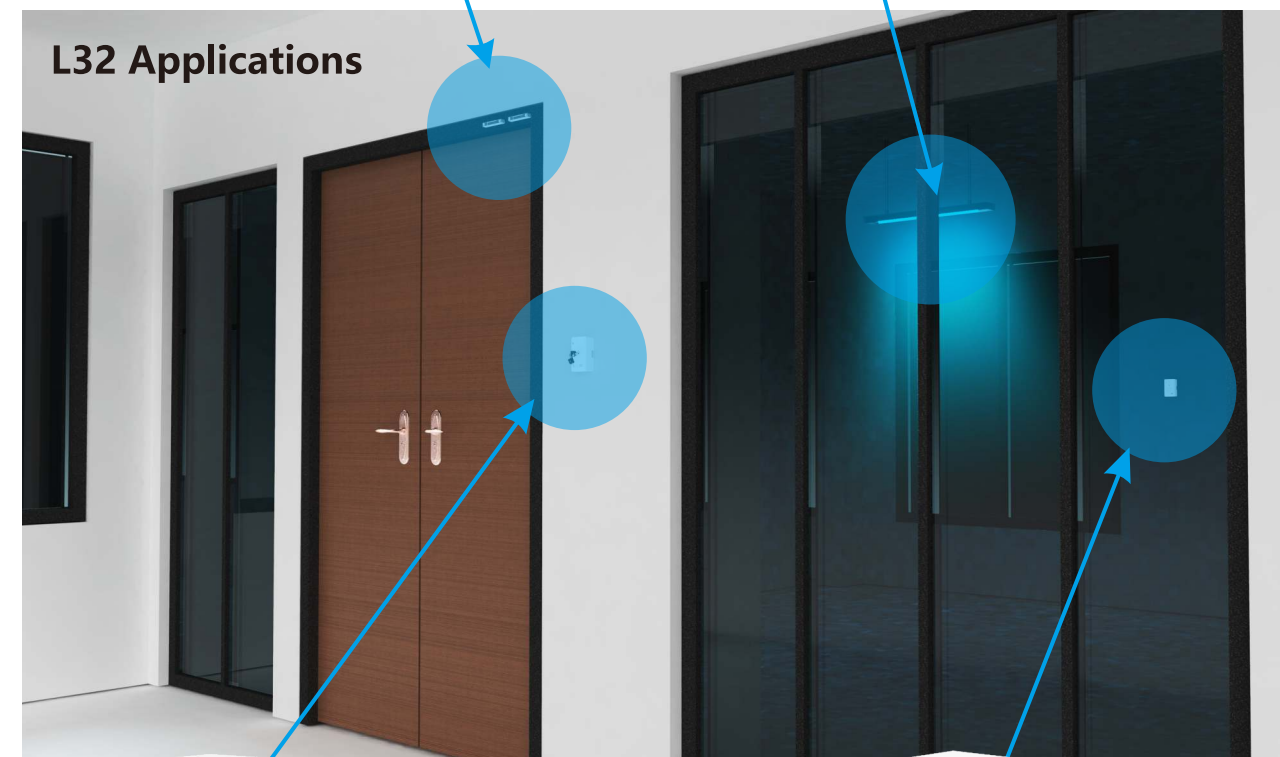**First UL8802 certified UV-C safety system in China**

S3 admin lock(outside the room)   **S1 main switch (inside the room)**

Key lock authorization
Admin open

Master switch
intelligent control

Integrated sensing module
Induction of the human body automatically shuts down
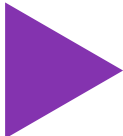
Magnetic switch
Anti-intrusion

Eyebolt base Tripod

Eyebolt holder **L21**

Tripod **L22-02**

Model No	Inner box size (mm) (x0.0393=inch)	N.W per lamp (kg) (lbs=kgx2.2)	G.W per lamp (kg) (lbs=kgx2.2)	G.W per Carton (kg) (lbs=kgx2.2)	Carton size(mm) (x0.0393=inch)	Quantity per carton
L21 (Eyebolt holder; E39)	130x130x92mm	0.38Kg	0.496Kg	6.72Kg	535x400x112mm	12PCS
L22-02 (Tripod)	890x136x136mm	2.42Kg	2.795Kg	18.13Kg	905x424x290mm	6PCS

Our factory
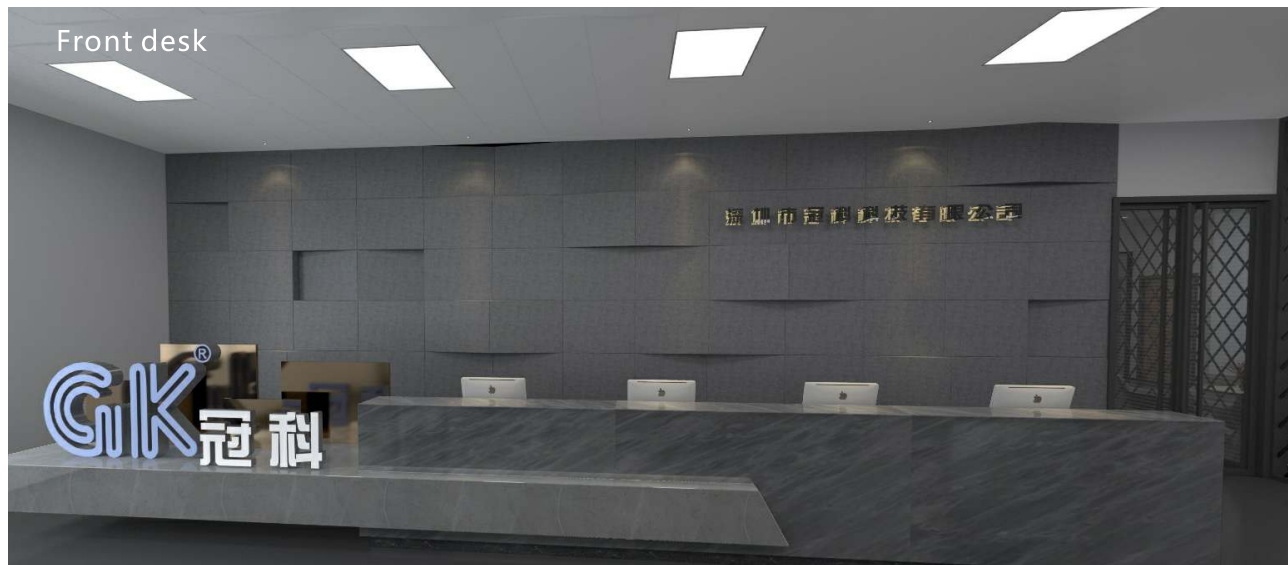
Front desk

Microbiology Laboratory

15 years of development　　**25,000** ㎡ independent industrial park　　**600** employees

Shenzhen Guanke Technology Co., Ltd. was established in 2006. It is a national high-tech enterprise focusing on UV-C disinfection lamps and LED lamps. The company is located in Guangming District, Shenzhen. It has an independent industrial park of 25,000 square meters and more than 600 employees. The sales network has covered more than 70 countries and regions including North America, Europe, Japan and South Korea.

Guanke has always adhered to the concept that only product innovation can create value for customers. It invests more than 20 million in R&D every year and has a professional R&D technical team of more than 50 people. Guanke is the core enterprise of the Guangdong Intelligent Lighting Engineering Technology Research Center, and it also owns the UL Witness Laboratory, the Biology Laboratory and the National CNAS Laboratory. As one of the first enterprises in Shenzhen to implement intellectual property standards, Guanke has 11 US invention patents and 128 Chinese and European patents.

Guanke focuses on the production of safe UV-C disinfection products, and the independent research and development of 360° intelligent sensing technology is in the industry's leading position in terms of product safety. In terms of product production and quality control, Guanke has a complete production chain and an experienced management team, including dust-free production lines, precision injection molding workshops, CNC metal processing workshops, SMT patch workshops, power supply production workshops, product aging and assembly Workshops, etc., through the introduction of ISO9001 quality system, ISO14001 environmental body, BSCI social responsibility system, anti-terrorism safety management system and CNAS laboratory management system to improve product quality control. Crown Technology has built a production base covering an area of □□ 50,000 square meters in Chengdu, which provides a strong guarantee for the company's rapid development.

In 2020, "Guanke Technology" won a well-known brand in Shenzhen. In the future development journey, all Guanke people will work hand in hand with partners such as global customers, suppliers and distributors to create a safe and intelligent UV-C disinfection industry chain .

(section)

U.S. Invention Patent

UL Witness Laboratory

U.S. Appearance Patent

★ Chinese Invention and Design patent over **80**

★ American Invention and Design patent over **50**

★ European Invention patent **3**