



UV GERMICIDAL LAMP

TL-UV40PRO



Specifications

Name	UV GERMICIDAL LIGHT
Input voltage	220V±10% AC · 50/60Hz
Rated power	40W
Light source specifications	OSRAM UV light 36W
Light lifespan	9000 hours
Power factor	/ PF> 0.9
Supply current	0.19A
Output current (light current)	430 mA
Ballast	Specially developed UV electronic ballast
Initial -UVC Irradiance	1.4 W / m ² @ 1M
THD	<20%
Infrared induction protection device	Start delay is 30 seconds; if someone (or animal) is detected to accidentally break in, it will immediately turn off the light; coverage area 80-150 square meters
30 minutes germicidal rate	99.7%
Weight	1.5kg
Size	1363 * 54 * 78mm
Operating temperature	-10 °C ~ 35 °C
Storage temperature	-20 °C ~ 60 °C

Applicable scenarios

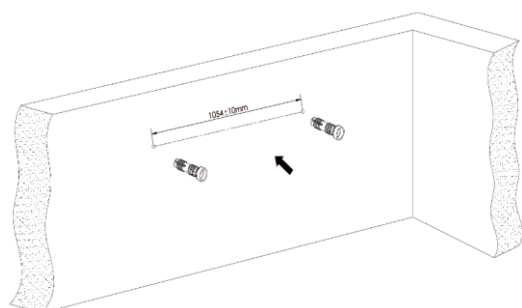
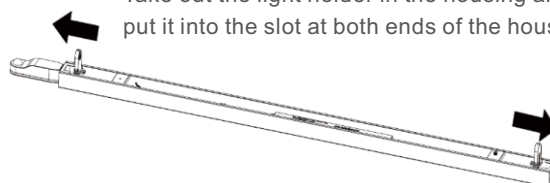
Home hospitals schools factories stations offices cinemas restaurants gyms bars small venues.

Installation instructions

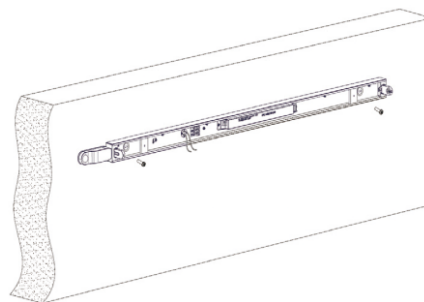
Loosen the cover fastening screws
and remove the cover



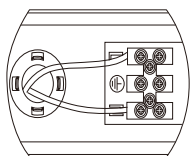
Take out the light holder in the housing and
put it into the slot at both ends of the housing



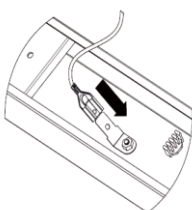
Drill holes in the intended installation position and
embed M4 screw plastic expansion tube (customer-supplied)



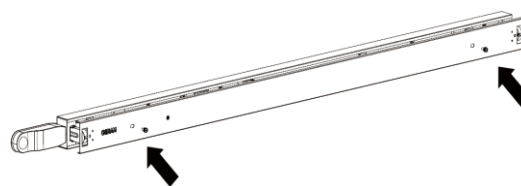
Install the cover on the housing and
fix the cover with fastening screws



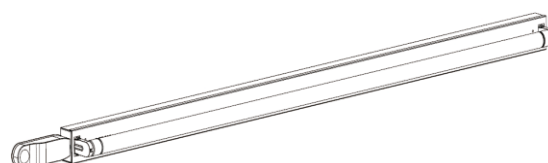
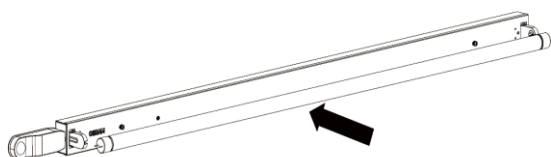
The power cord is fixed in the terminal



The ground wire plug on the cover is
inserted into the grounding insert
in the housing



Install the cover on the housing
and fix the cover with fastening screws



Install the ultraviolet light source into the light holder according to
the direction shown in the figure, and then rotate it by 90 ° to fix it

Product detail

OSRAM UV tube

German quality, high efficiency
and long lifespan UVC output at 254nm, no ozone

Measurement results for technological series of UV									
Designation		Technical data				Measurement results			
UV tube	Type	Power (W)	Current (A)	Voltage (V)	Power factor	Wavelength (nm)	Spectral power distribution (W/nm)	Spectral power distribution (W/nm)	Spectral power distribution (W/nm)
254nm	254nm	15	0.1	254	0.95	254	0.001	0.001	0.001
	254nm	15	0.1	254	0.95	254	0.001	0.001	0.001
	254nm	15	0.1	254	0.95	254	0.001	0.001	0.001
	254nm	15	0.1	254	0.95	254	0.001	0.001	0.001
254nm	254nm	15	0.1	254	0.95	254	0.001	0.001	0.001
	254nm	15	0.1	254	0.95	254	0.001	0.001	0.001
	254nm	15	0.1	254	0.95	254	0.001	0.001	0.001
	254nm	15	0.1	254	0.95	254	0.001	0.001	0.001

Specially developed electronic ballast

Perfect match for
OSRAM series UVC lamps

Metal head fixing screw

Anti-UV spray, long-lasting and durable

Germany imported connection components

High strength / UV resistance

Housing and lens

Special UV resistant plastic

Infrared induction protection device

Start delay is 30 seconds; if someone (or animal) is detected to accidentally break in, it will immediately turn off the light;

Features

Efficient

Due to the characteristics of the ultraviolet light source, it is hoped that it can achieve the best germicidal effect in as short a time as possible after power on. It is required to release a large amount of effective bactericidal dose in a short time, quickly kill the bacteria, and have a long lifespan for less replacement and maintenance.

Smart

Turn on at regular time, and turn off automatically at the setting germicidal time. If there is any fault, it can be automatically fed back to the control center. Support remote control via smart terminals (computer / mobile).

Safe

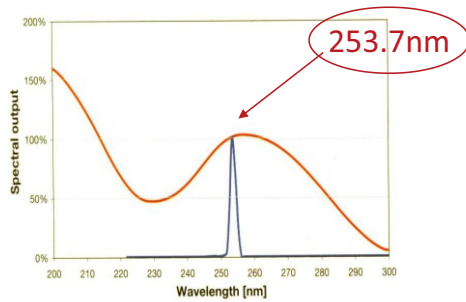
- Product electrical performance safety; Installation and maintenance personnel (engineering personnel)
- Prevent intrusion by mistake; Daily maintenance staff (teacher / administrator)
- No harmful by-products; Beneficiaries (students)

Advantage comparison

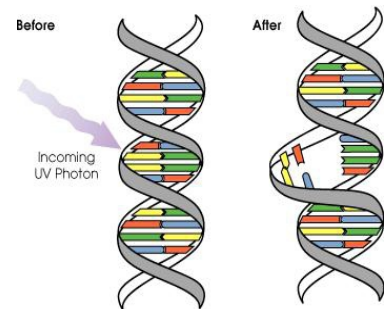
- | | |
|--|---|
| <ul style="list-style-type: none"> × Light source has ozone, short lifespan and poor efficiency × Ballasts do not match or are obsolete × Poor light quality--easily deformed × People will be irradiated by UV when the UV light is turned on and off indoors × Risk of sunburn when someone accidentally breaks into × Sunburn risk of accidentally turning on the light | <ul style="list-style-type: none"> ✓ Use OSRAM ozone-free high-efficiency UV light source ✓ Use professional UV ballasts to fully fit UV light source ✓ Osram lights are in line with national indicators ✓ Delay 30 seconds to start, people can leave calmly after turning on the lights ✓ Osram system with infrared motion sensing device will turn off the lights in time when someone is detected ✓ Osram system with motion sensing device will turn off the lights in time when someone is detected |
|--|---|

UV germicidal principle

Bacteria absorb ultraviolet radiation ➡ Interrupt DNA replication ➡ Bacteria cannot reproduce and die quickly



Low-voltage mercury light spectrum and DNA absorption curve



DNA chain

Germicidal efficiency

30 cubic meters / white staphylococcus

30-minute germicidal rate **99.7%**

60 minutes germicidal rate **99.9%**

Distance 2.5M / Escherichia coli

30 minutes germicidal rate **99.1%**

60 minutes germicidal rate **99.9%**

Distance 2.5M / staphylococcus aureus

30 minutes germicidal rate **99.2%**

60 minutes germicidal rate **99.9%**

Distance 2.5M / staphylococcus aureus

The light output of HNS 36W products is much higher than the national standard "disinfection technical specifications"

Initial light output: $140\mu\text{W} / \text{cm}^2 > 110\mu\text{W} / \text{cm}^2$ Radiation intensity at 9000 hours is $110\mu\text{W} / \text{cm}^2 > 72\mu\text{W} / \text{cm}^2$

Light quantity

Install according to the design specifications $2.5\text{W} / \text{m}^2$

$36\text{W} / 2.5\text{W} / \text{m}^2 = 14.4\text{m}^2$

The recommended installation quantity is $15\text{m}^2 / \text{set}$

The recommended installation height is $2 \sim 2.5\text{m}$

Disinfection technical specifications: The maximum height of microbial inactivation test is 2m

Notes

1. Ultraviolet germicidal lights should be used in indoor environments without people (including pets in the home).
UV light may cause skin redness, itching, peeling, and electro-optic ophthalmia caused by eye and conjunctival damage.
Do not look directly into the light tube with the naked eye. Make sure that people and pets leave the room before the light is turned on. Do not enter the room before the light has stopped.
2. Ultraviolet rays have a decomposition effect on organic matter. Prolonged irradiation may cause discoloration of the surface of the irradiated object. Do not use ultraviolet germicidal lights to directly illuminate expensive clothing, accessories, calligraphy and painting and other valuable items.
3. The surface of the light tube should be kept clean in use. It is recommended to clean it regularly (usually every 2 weeks) though not in use. Please use a soft and clean lint-free cloth with a small amount of alcohol to wipe the surface to remove the dust or oil on it.
4. After the sterilization is finished, it may smell similar to that when the bedding is exposed to the sun. Don't worry, it is recommended to open the window for 5-10 minutes. (Ultraviolet germicidal lamps use 254nm ozone-free UV light)
5. After the sterilization is finished, keep it out of the reach of children.
6. Avoid the impact and strong vibration of the light tube. Once the light tube breaks, the power should be cut off immediately, and the broken tube should be recovered as toxic and hazardous waste.
7. If the light is required to be replaced, please replace it under the professional guidance of the original brand.
8. It needs 3-5 seconds to reset after power off. For normal and stable operation, wait more than 5 seconds to restart after power off.
9. The UV germicidal system is required to be maintained and managed by a special person who should take special care during degerming, and take effective measures to prevent people or animals from accidentally invading. The company is not responsible for any safety accidents and losses caused by improper operation or violation of the manual requirements.