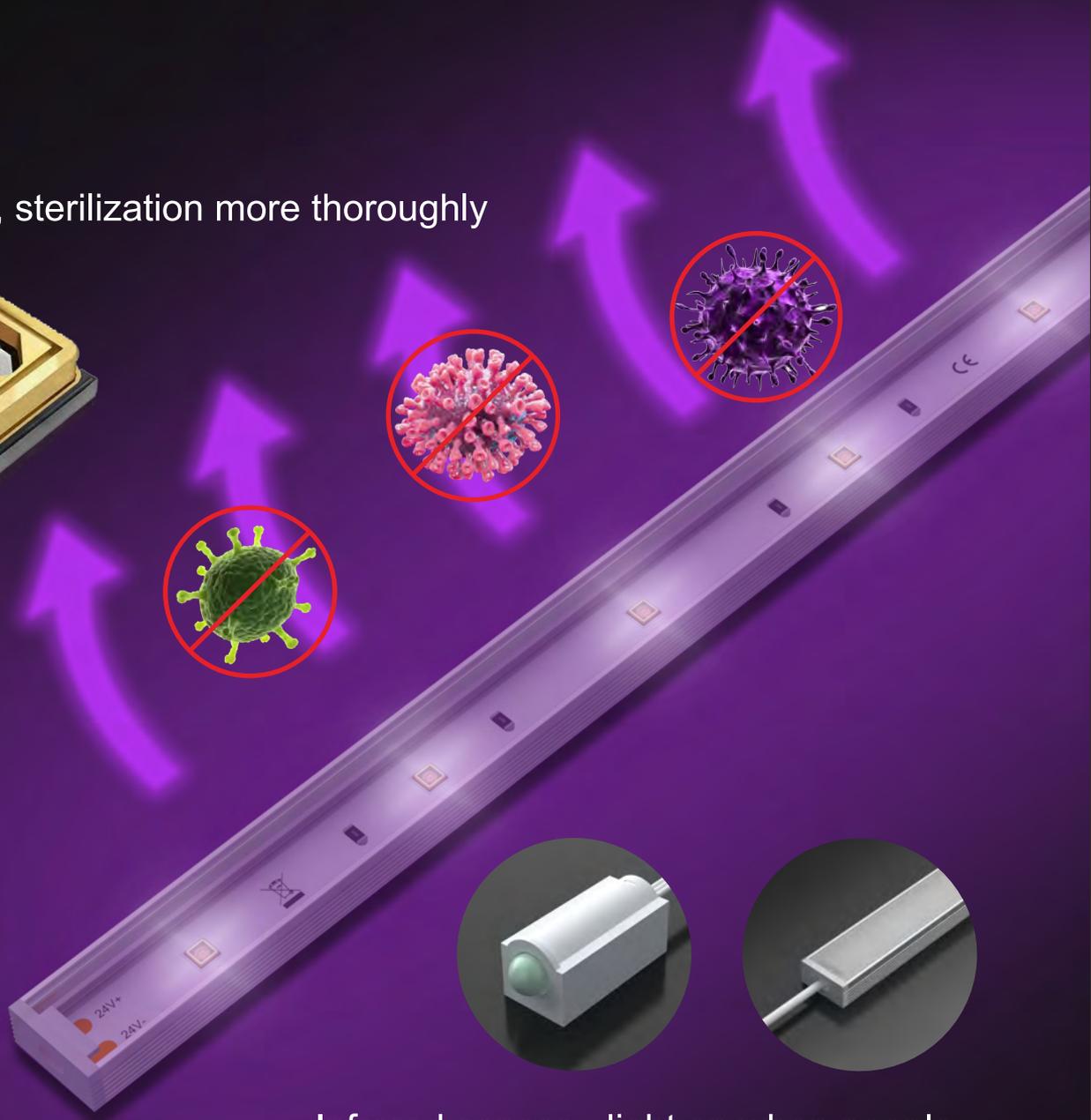


# Smart sterilization UV-C linear bar

Germicidal rate 99.9%

HQ UVC LED, sterilization more thoroughly



Infrared sensor, light on when people come, light off when people leave

dual purpose for lighting and disinfection, usage freely



**Parameter**

Item code	L1608-UVCUVA+W60K11-HW	
Voltage	24VDC	
Current	6000K	0.3A/PCS
	UVC/UVA	0.14A/PCS
Power	6000K	7.2W/PCS
	UVC/UVA	3.36W/PCS
LED quantity	6000K	60LED/PCS
	UVC/UVA	6LED/PCS
Luminance	6000K	810 lm/PCS
Main wavelength	UVC/UVA	270-280nm/390-400nm
Radiant flux	30000uw	
Effective UV-C radiant illumination	840uw/cm <sup>2</sup> /pcs(20mm)	
Effective UV-C radiant illumination	186mw/m <sup>2</sup> /pcs(200mm)	
Germicidal rate	99.9%	
IP grade	IP20	
Working temperature	-20℃ ~ +45℃	
Storage temperature	0℃ ~ +60℃	
Suggestion of disinfection distance	≤50mm	
Warranty	3years	
Length of cable for linear bar	1000mm	
Length of cable for sensor	150mm	
Dimension of product	L510xW16xH8mm	
Dimension of sensor	L43xW18xH18mm	
Dimension of package	L600xW110xH55mm	

**Instruction: depend on different environment and disinfection target, the radiant flux and disinfection time shall be difference.**

## 275nm UV-C LED disinfection test report

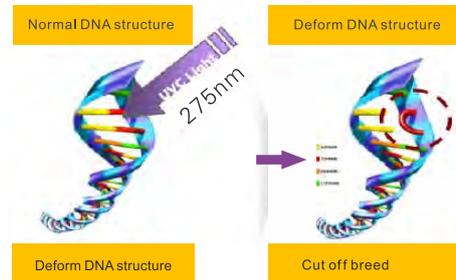
distance	test time	sample	bacteria	severe count of positive control (cfu/sheet)	bacterial count of sample (cfu/sheet)	killing logarithm value	germicidal rate(%)
2cm	20min	3535UVC (275nm)	Klebsiella pneumoniae	9.13x10 <sup>5</sup>	925	2.99	99.899
				9.45x10 <sup>5</sup>	915	>3.00	99.903
				9.38x10 <sup>5</sup>	940	3.00	99.900
			Staphylococcus aureus	1.08x10 <sup>5</sup>	995	>3.00	99.908
				1.09x10 <sup>5</sup>	995	>3.00	99.909
				1.07x10 <sup>5</sup>	990	>3.00	99.907
			albicans saccharomyces	7.85x10 <sup>5</sup>	3.93x10 <sup>3</sup>	2.3	99.908
				7.85x10 <sup>5</sup>	3.95x10 <sup>3</sup>	2.3	99.909
				8.05x10 <sup>5</sup>	4.08x10 <sup>3</sup>	2.29	99.907

## Radiant flux for disinfection

No.	bacteria	radiant flux	mark
1	Escherichia coli	≥20000uw.s/cm <sup>2</sup>	Data is from 《GB 15981-1995 evaluating method and standard fro the efficacy of isinfection and sterilization》
2	Bacillus Subtilis Var.niger Spore	≥100000uw.s/cm <sup>2</sup>	
3	Common bacterial propagules	≥10000uw.s/cm <sup>2</sup>	
4	Unknown target microorganism	≥100000uw.s/cm <sup>2</sup>	

## Theory of UV-C sterilization

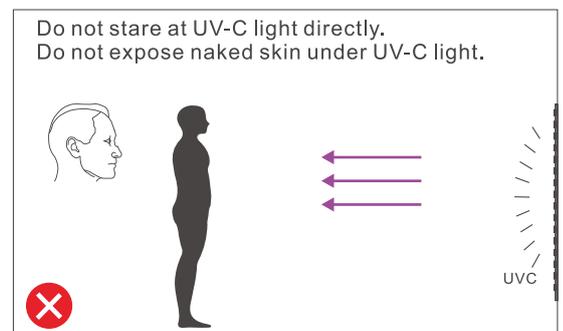
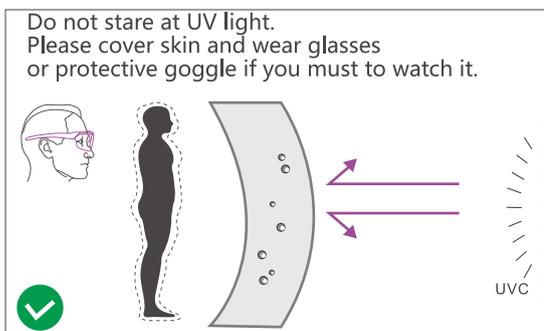
Ultraviolet irradiation could destroy the basic group of DNA to kill germs



★ Ultraviolet irradiation destroys basic group of DNA

## Personnel protection

UV-C irradiation is harmful to eyes and skin, do not expose naked skin and eyes under UV-C light. The penetration strength of shortwave UV-C light is very weak, cover skin by cloth and wear glasses or protective goggle could avoid harm.



UV-C RISK GROUP 3

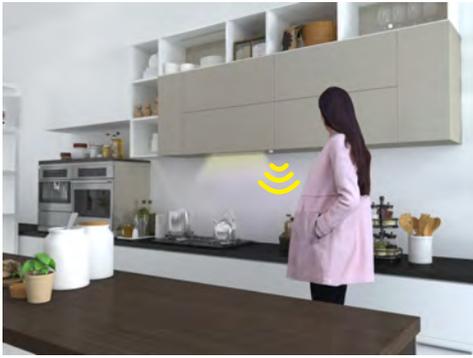
**WARNING** UV-C emitted from this product. Avoid eye and skin exposure to unshielded product. Follow installation instructions and user manual.



Child play prohibited

## Functions

A: lighting on when people come



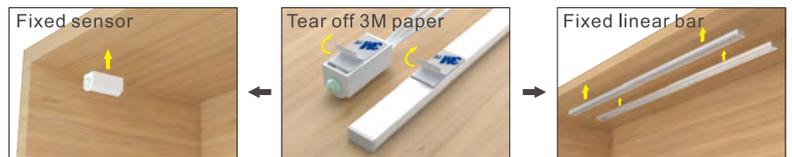
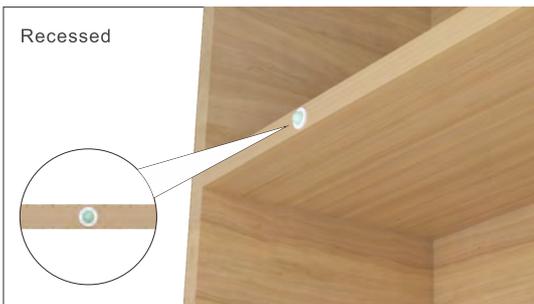
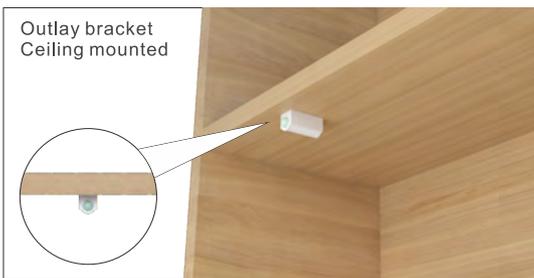
a: lighting keeps on normal work when people come (sensory distance <math>< 3\text{m}/9.8\text{ft}</math>)

B: UV-C irradiation on 5S later after people leave



b: UV-C irradiation on 5S later after people leave, it will be off 180S later automatically.

## Installation



## Reference for applications

Use for surface disinfection, suitable for wardrobe, shoe cabinet, cellphone, lift, fridge, toilet etc.  
**(warning: do not shining to human / animal eyes directly, be aware of personnel protection)**

A:Wardrobe, bookcase



B:Cupboard

