

UVC deep ultraviolet disinfection LED strip

Germicidal rate 99.9%

HQ UVC LED, sterilization more thoroughly



Cuttable freely, applicable for various places
Strong adhesive 3M tape, long lifespan



Parameter

Item code	S3535L24V24UVCUVAIP20-10	
Voltage	24VDC	
Current	0.56A/m	
Power	13.44W/m	
Main wavelength	UVA	390-400nm
	UVC	270-280nm
Radiant flux	120000uw/m	
Effective UV-C radiant illumination	3360uw/cm ² /m(20mm)	
Effective UV-C radiant illumination	744mw/m ² /m(200mm)	
Germicidal rate	99.9%	
LED quantity	24pcs/M	
Min cutting unit	3LED/unit	
IP grade	IP20	
Max length	5M	
Working temperature	-20℃ ~ +45℃	
Storage temperature	0℃ ~ +60℃	
Disinfection time suggestion	3 ~ 10min	
Suggestion of disinfection distance	≤50mm	
Warranty	3years	

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

275nm UV-C LED disinfection test report

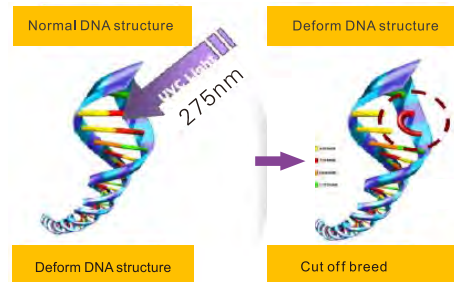
distance	test time	sample	bacteria	severe count of positive control (cfu/sheet)	bacterial count of sample (cfu/sheet)	killing logarithm value	germicidal rate(%)
2cm	20min	3535UVC (275nm)	Klebsiella pneumoniae	9.13x10 ⁵	925	2.99	99.899
				9.45x10 ⁵	915	>3.00	99.903
				9.38x10 ⁵	940	3.00	99.900
			Staphylococcus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

Radiant flux for disinfection

No.	bacteria	radiant flux	mark
1	Escherichia coli	≥20000uw.s/cm ²	Data is from 《GB15981-1995 evaluating method and standard fro the efficacy of isinfection and sterilization》
2	Bacillus Subtilis Var.niger Spore	≥100000uw.s/cm ²	
3	Common bacterial propagules	≥10000uw.s/cm ²	
4	Unknown target microorganism	≥100000uw.s/cm ²	

Theory of UV-C sterilization

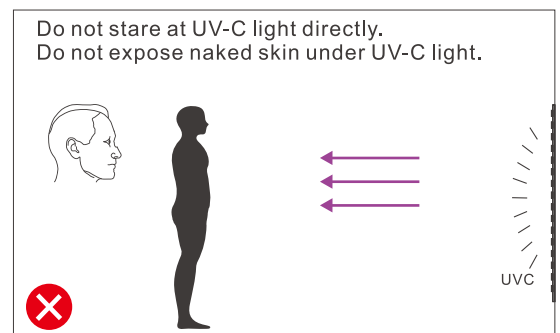
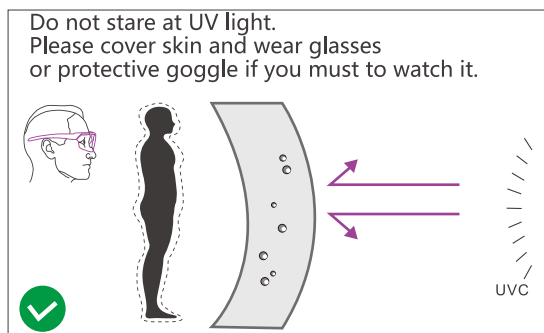
Ultraviolet irradiation could destroy the basic group of DNA to kill germs



★ 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

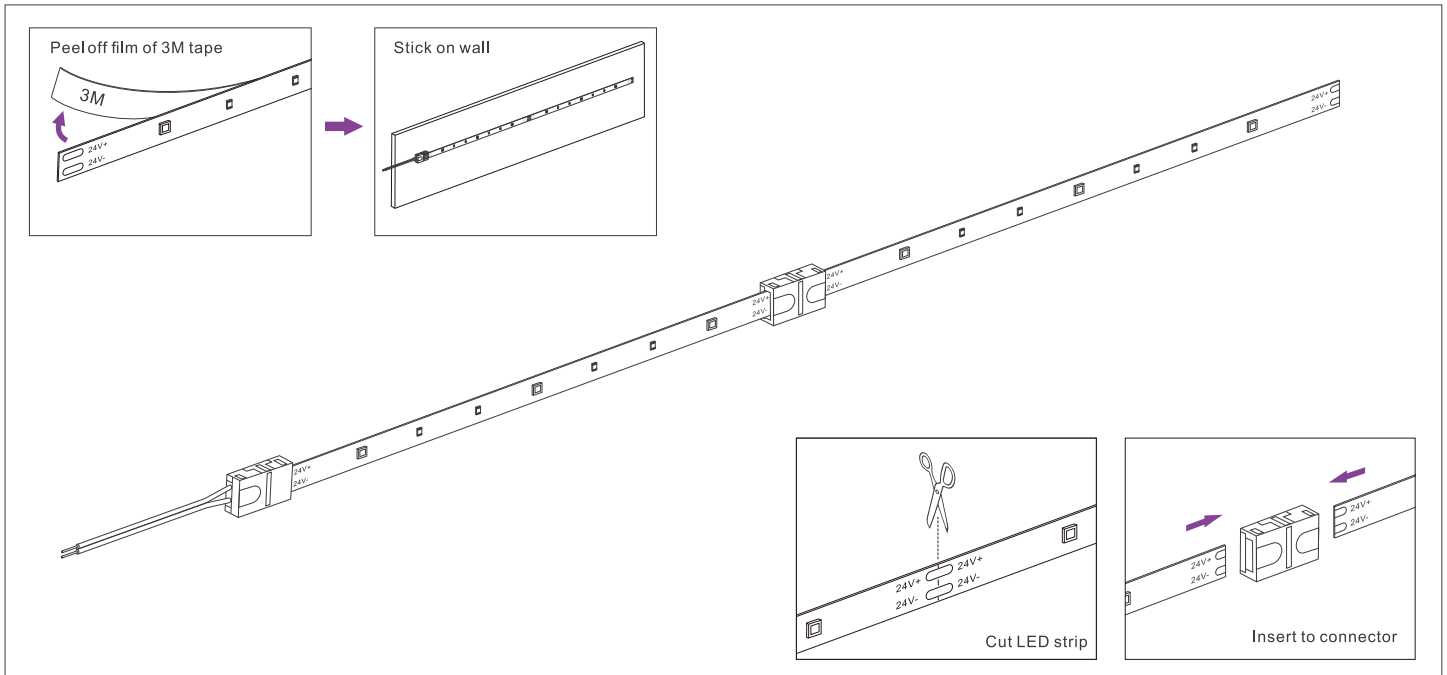


WARNING UV-C emitted from this product.
Avoid eye and skin exposure to unshielded product.
Follow installation instructions and user manual.



Child play prohibited

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)

