

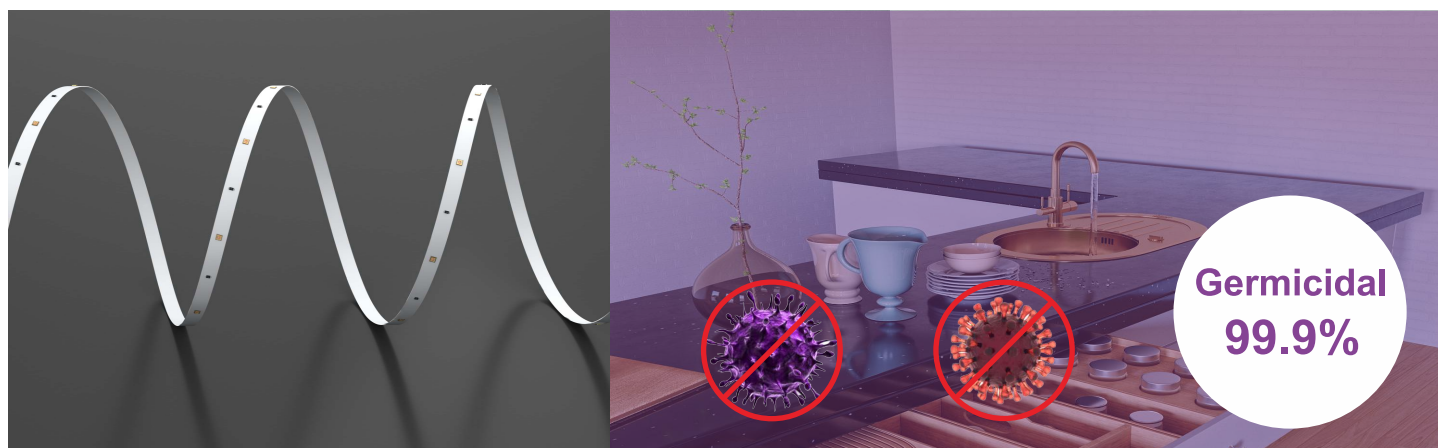
## UVC deep ultraviolet disinfection LED strip

**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                           | S3535L12V24UVCUVAIP20-10        |           |
| Voltage                             | 24VDC                           |           |
| Current                             | 0.28A/m                         |           |
| Power                               | 6.7W/m                          |           |
| Main wavelength                     | UVA                             | 390-400nm |
|                                     | UVC                             | 270-280nm |
| Radiant flux                        | 60000uw/m                       |           |
| Effective UV-C radiant illumination | 1680uw/cm <sup>2</sup> /m(20mm) |           |
| Effective UV-C radiant illumination | 372mw/m <sup>2</sup> /m(200mm)  |           |
| Germicidal rate                     | 99.9%                           |           |
| LED quantity                        | 12pcs/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

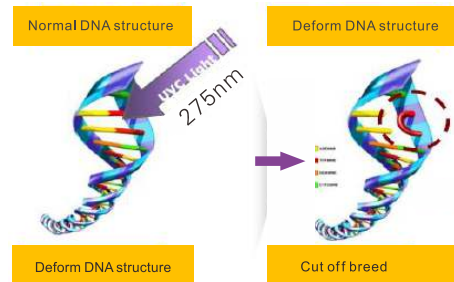
| distance | test time | sample          | bacteria               | severe count of positive control (cfu/sheet) | bacterial count of sample (cfu/sheet) | killing logarithm value | germicidal rate(%) |
|----------|-----------|-----------------|------------------------|--|---------------------------------------|-------------------------|--------------------|
| 2cm      | 20min     | 3535UVC (275nm) | Klebsiella pneumoniae  | 9.13x10 <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<br>《GB15981-1995 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

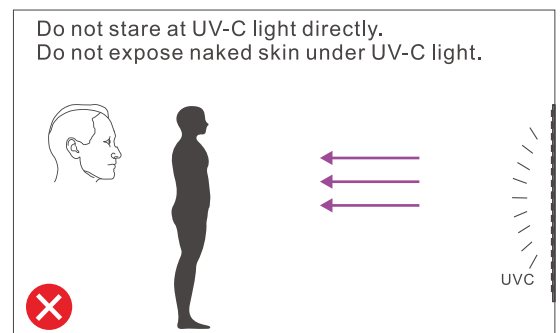
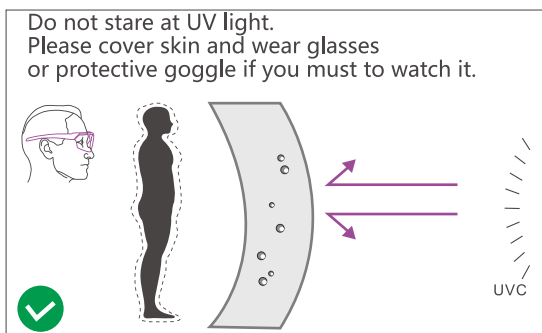
Ultraviolet irradiation could destroy the basic group of DNA to kill germs



★ 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

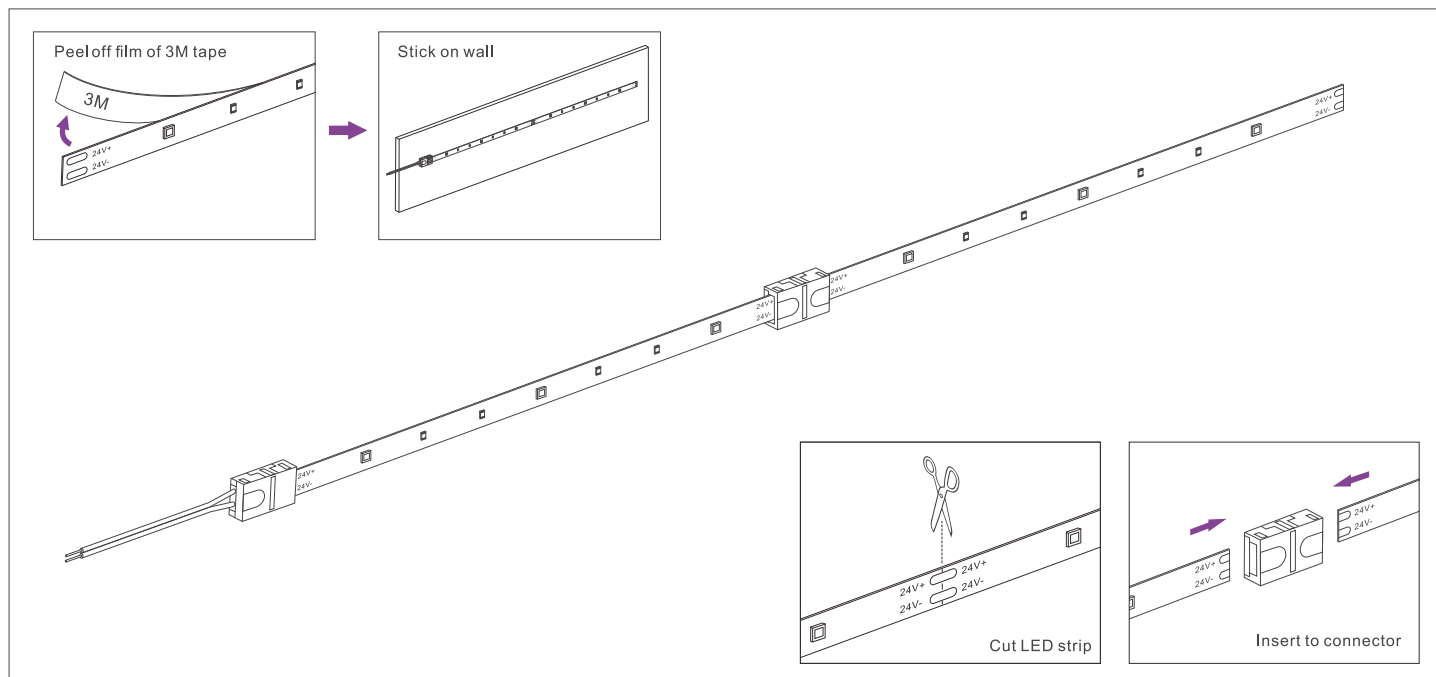


WARNING UV-C emitted from this product.  
Avoid eye and skin exposure to unshielded product.  
Follow installation instructions and user manual.



Child play prohibited

## 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)**

