

LCNDT ST-100 Battery Powered LED UV-C 275nm Disinfectant UV Lamp



HOW DOES UV-C WORK?

UV-C effects the organisms DNA and its ability to reproduce. The higher the DOSE the more effective it is at doing that.

How do I get a higher DOSE?

1. Intensity – start with the intensity of the lamp – ST-100 is a 40W LED which is very bright as compared to other UV-C lamps.
2. Distance – the closer the lamp is to the object the higher the DOSE – at 8” the DOSE is 1/4 the DOSE at 4”. This is called the inverse square law. But note the smaller the illuminated will be, that physics.
3. Time – double the time, double the DOSE

What is the recommended exposure time?

The longer the better, the laboratory that tested the lamp stated that over 99.9% kill ratio in 10 seconds on the types of bacteria listed ([see attached lab report](#)).

What is the recommended distance for exposure?

The manufacturer of the ST-100 states that 30 seconds at 4” kills most bacteria and viruses.

**** The ST-100 should be used as a supplement to other cleaning methods.****

Features:

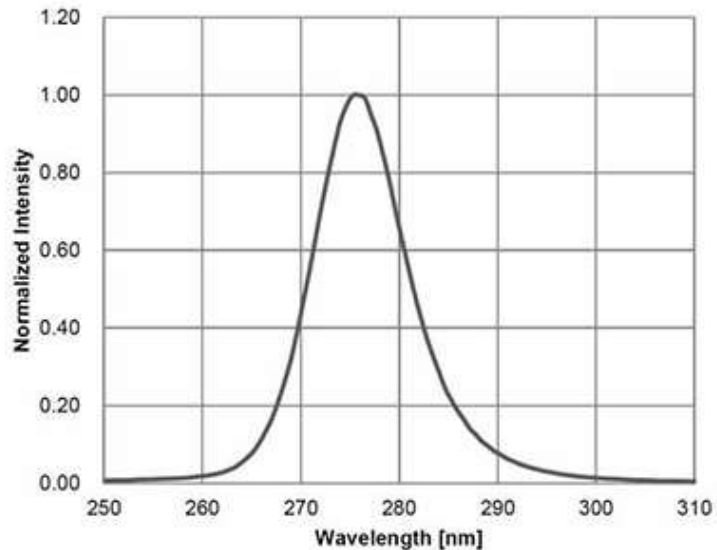
- Laboratory Tested - Effectively kills most kinds of infectious bacteria, viruses and fungi
- Timer Equipped – Hold for 30 seconds at 4” (10cm) distance for effective sanitation

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- Powerful: 21 LED chips, 40W output, nominal 50,000 hour lifetime
- Durable
- Peak Wavelength: 275nm
- Battery: Li battery 29.4 Vdc, 2600mAH
- 1 charge = 3 hours of continuous operation
- Child Safety lock enabled
- Mercury Free
- Focused Lens – limits exposure outside testing area
- Dimensions: 8.6" x 9.4" x 4.3" (218.4 x 238.8 x 109.2 mm)
- Weight: 2.65 lbs. (1.2 kg)
- 2 yr. service guarantee



Built-in Timer:

- Easy to use
- Control time of exposure to ensure effective cleaning
- Set time from 1 second to 9 minutes
- Automatically counts down once timer is set (5 beeps = cleaning process is complete)

Suggested Time of Exposure and Distance:

- 30 seconds at 4" (10cm) distance

Safety Precautions:

****UV-C is Hazardous to human skin and eyes****

The following guidelines must be followed to protect yourself from serious damage to eyes and skin:

- **Wear UV filtering safety glasses (safety glasses are included with the lamp)**
- **Avoid exposure to eyes - Never look directly at the beam**
- **Avoid exposure to skin - cover your arms, hands and other extremities**

This is not a toy, keep it away from children and child like adults.

Treat it like a loaded gun – only aim it at inert objects, never aim it at people or animals.

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LED UV kills germs to death by physics

There are heat-resistant germs ("mad cow" virus)
Cold-resistant germs (avian influenza virus, Yell bacteria)
And drug-resistant germs (superbug)
But NO LED UV-resistant germs

