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**IND-CD-48-2L-UVC-50C**

# Industrial UV Sanitation Cart - Kills 99% of Viruses - (2) UVC Lamps - 400 sq. ft. Area - 50' SOOW Cord

**Product ID: 266848**

**Please see last page for supporting documentation for this product(certificates, CAD files & drawings, IES files, wiring diagrams, etc).**



**Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.**

**This unit is Made In USA - Manufactured in Texas**

**IND-CD-48-2L-UVC-50C UV Sanitation Light Cart**

**Lamp Technology:** UV-C Fluorescent
**Lamp Qty:** (2)
**Dimensions:** 25.00"W x 20.00"D x 60.00"H
**Weight:** 33 lb
**Voltage:** 120-277 V AC
**Total Watts:** 80W
**Single-lamp Watts:** 40W
**Total UV Output:** 28.6W
**Single-lamp UV Output:** 14.3W
**Effective UV Radiation (at 1 Meter) Per Lamp:** 117.0 uW/cm2 @ 1M
**Total Effective UV Radiation (at 1 Meter):** 234.0 uW/cm2 @ 1M
**Expected Lifespan:** 8,000+ Hours
**UV Wavelength:** UV-C, 200nm - 280nm (254 nm)
**Lamp Type:** T8
**Lamp Base:** G13 (Medium Bi-pin)
**Replacement Lamp:** FRL-48-1X-T8-40W-UV-C
**Beam Angle:** 180°
**Light Configuration:** Flood
**Amps:** -

**Ratings/Features**

Short-wave Germicidal Light
Kills 99% of Viruses and Other Germs
Made in USA - Manufactured in Texas
EPA Reg. No 98409-1
EPA Est. No. 98409-TX-1

**Ambient Operating Temp Range:** -22°F to 122°F

**Materials:** 22 Gauge Steel, Aluminum

**Reflector Material:** Chrome

**Mounting:** Powder Coated Portable Upright Aluminum Cart with Adjustable Brackets

**Wiring:** 50' 16/3 SOOW Cord w/ Cord Cap

**Cord Cap:** 5-15 Straight, 6-15 Straight, L5-15 Twist, L6-15 Twist, UK BS1363, Intl. Schuko, or Pigtail

**Shipping Weight: 93 lb**

**Shipping Dimensions: 48" x 60" x 30"**

***PLEASE NOTE: UV-C light can cause temporary or permanent loss of vision, and temporary acute redness or ulceration (mild to severe sunburn) to exposed skin. To prevent exposure, do not operate the device in any application that allows UV-C light to be visible during operation. NEVER LOOK DIRECTLY AT THE BULB OR DISINFECTING TARGET ZONE. DO NOT touch bulb with bare hands. The oils in your skin will damage the lamp. Fingerprints will result in reduced performance and significantly reduce the lifespan of the lamp unless they are removed with alcohol. Please read instruction manual for UV safety requirements before operating.***

**Special Orders - Special Requirements**

Contact us for special requirements

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## This unit is Made In USA - Manufactured in Texas

**The Larson Electronics IND-CD-48-2L-UVC-50C is an Industrial UV Sanitation Cart which can disinfect 99% of viruses, bacteria, mold, and spores in large facilities. This unit offers UV-C output at a range of 200nm - 280nm (254nm) and comes equipped with two UVC fluorescent lamps. The lights are mounted to a powder coated aluminum cart for seamless mobility.**

***Please note: This product produces UV light. Make sure to follow all safety guidelines and protocols found in the user manual. UVC light in the proper setting kills up to 99.9% of viruses, mold, spores, and bacteria. Click here to learn more about UVC and the corona virus****

The IND-CD-48-2L-UVC-50C is a powerful sanitation solution for industrial sites and commercial facilities. Equipped with two UVC fluorescent lamps, this system offers 28.6 watts of UV output, within the 200nm - 280nm UV-C range (254 nm). The lights have an expected lifespan of 8,000+ hours and emit a flood beam pattern. This UV system caters to 400 square feet of space with 180 degrees of coverage. Operators may move the cart around after exposure time to disinfect several sections. With a recommended 20-25 minute exposure time for viruses, multiple carts can be purchased to cover larger areas quicker. The UV light can disinfect over 99% of bacteria, viruses, mold, and spores.

| Distance from Cart | Irradiance/Second | Exposure Time Required* | Beam Width | Beam Height |
|---|---|---|---|---|
| 6 inch | 4829.76 uW/cm2 | 8.7 seconds | 2 ft | 4 ft |
| 12 inch | 2426.11 uW/cm2 | 17.31 seconds | 2.25 ft | 4 ft |
| 18 inch | 1347.84 uW/cm2 | 31.16 seconds | 2.5 ft | 4 ft |
| 2 foot | 872.35 uW/cm2 | 48.15 seconds | 3 ft | 4 ft |
| 3 foot | 456.77 uW/cm2 | 1.5 minutes | 4.5 ft | 4 ft |
| 4 foot | 230.26 uW/cm2 | 3 minutes | 6 ft | 4 ft |
| 5 foot | 147.36 uW/cm2 | 4.75 minutes | 7.5 ft | 4 ft |
| 6 foot | 102.34 uW/cm2 | 7 minutes | 9 ft | 4 ft |
| 7 foot | 75.19 uW/cm2 | 9.5 minutes | 10.5 ft | 4 ft |
| 8 foot | 57.56 uW/cm2 | 12.5 minutes | 12.25 ft | 4 ft |
| 9 foot | 45.48 uW/cm2 | 16 minutes | 13.5 ft | 4 ft |
| 10 foot | 36.84 uW/cm2 | 19 minutes | 15.25 ft | 4 ft |
| 12 foot | 25.58 uW/cm2 | 28 minutes | 18.5 ft | 4 ft |
| 15 foot | 16.37 uW/cm2 | 43 minutes | 23 ft | 4 ft |
| 18 foot | 11.37 uW/cm2 | 62 minutes | 27.5 ft | 4 ft |
| 20 foot | 9.21 uW/cm2 | 76 minutes | 30 ft | 4 ft |

*Exposure time is based off of total irradiance. The above calculations are based on 12mJ total exposure. This level of exposure deactivates most organisms.

The fixture`s housing is constructed of 22 gauge steel and painted for corrosion resistance. A chrome reflector helps improve illumination and light spread in the area.

**Cart:** The cart allows the entire fixture to be easily wheeled into position as needed, and can be laid flat for sliding the cart under vehicles or into hard to reach areas. This cart is highly versatile and gives the operator the ability to easily move the entire assembly around the work space simply by leaning the cart back and rolling it into position. Also included is a fold down handle and unidirectional caster wheels that allows operators to lay the unit flat and wheel it into hard to reach areas such as underneath vehicles in paint spray booths.

**Click Photos to Enlarge**



5-15 Straight Blade Plug
15 Amp / 125V Rated



L5-15 Twist Lock Plug
15 Amp / 125V Rated



L6-15 Twist Lock Plug
15 Amp / 250V Rated



UK BS1363 Straight Blade Plug
13 Amp / 250V Rated / Internal Fuse



Intl Schuko 2-Pin Plug
16 Amp / 250V Rated / Grounded



Flying Leads / Pigtail Wires

**Wiring/Plug:** This unit is equipped with 50 feet of 16/3 chemical and abrasion resistant SOOW cord that is fitted with an industrial grade cord cap for easy connection to common wall outlets. Plug options include standard 5-15 15 amp straight blade plug for 110V wall outlets with ground, standard 6-15 15 amp straight blade plug for 220-240V wall outlets with ground, NEMA L5-15 15 amp twist lock plug for 125V twist lock outlets, NEMA L6-15 15 amp twist lock plug for 240V twist lock outlets, British BS1363 13 amp fused 3-blade plug for United Kingdom outlets, or a two pin 16 amp rated Schuko plug with ground contact and socket for European outlets up to 250V. Alternatively, we can provide flying leads with no plug for hard wire applications or for operators who prefer to wire in user provided cord caps. Please choose pigtail option below for flying leads with no plug.
**Note on Environment:** Sunlight and visible light fixtures do not impact the effectiveness of the disinfecting on this UVC sanitation product. Metal halide, high pressure sodium, fluorescent, and LED light fixtures can be left on. The UV radiation emitted from this product is not disrupted by any type of lighting in the environment. Put simply, NO it DOES NOT need to be dark in the area you plan to disinfect. The UV radiation is harmful to the eyes and skin, and that is why you should not be in the area while it is in operation. Please see user manual for additional safety information.
**Suggested Applications:** Sanitation, disinfection, retail spaces, lobbies, commercial locations, industrial parks, schools, public transportation hubs, airports, office buildings, medical centers and more; kill 99% of viruses, bacteria, mold, and spores.
At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom

options tailored to meet your specific industry needs.

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# Frequently Asked Questions (FAQ)

**Q. Does this product kill COVID-19?**

A. COVID-19 is the disease created from the SARS-CoV-2 coronavirus. Please see below link for effectiveness against viruses, including the 2019 SARS-CoV-2 coronavirus:
https://www.larsonelectronics.com/images/product/LightingFacts/266985.PDF

**Q. Does this product kill he SARS-CoV-2 coronavirus?**

A. Please see below link for effectiveness against viruses, including the 2019 SARS-CoV-2 coronavirus:
https://www.larsonelectronics.com/images/product/LightingFacts/266985.PDF

**Q. Does this product generate ozone?**

A. No. UV lights can be made as ozone-producing or non-ozone producing. Ozone producing lamps leaves radiation in the atmosphere and require a 20-30 minute time after lamps are turned off before the radiation levels dissipate to a safe level before you can re-enter the room/area. The products that Larson Electronics manufactures DO NOT use ozone-producing lamps. This means that the radiation stops the second the light turns off. Once the light is turned off, it is safe to return to the area being disinfected by the light. Please read manual for UV safety requirements.

**Q. Is this product skin safe or eye safe?**

A. No. UV radiation is not safe for the eyes or skin. Please read manual for UV safety requirements.

**Q. Do I need to wear protective gear?**

A. Yes. UV radiation is NOT safe for your skin or eyes. Please read manual for UV safety requirements.

**Q. Is this unit safe to use in occupied areas?**

A. No. This unit produces UV radiation. UV radiation is NOT safe for your skin or eyes. Please read manual for UV safety requirements.

**Q. Does this product come with UV lamps**

A. Yes. This product will ship with UV lamps. The required UV lamps are included with your purchase.

**Q. What if obstacles are in the way of the UV light while it is disinfecting?**

A. You will need to move objects around and disinfect again for another 30 minutes. If the cart does not have direct line of sight, it will not disinfect. This is a non-ozone UV generating product so it does not penetrate through solid surfaces and will not reflect and clean the underside of objects or behind objects. If you do not have direct line of sight from the light, you will need to move it around or move the obstacles to create proper exposure.

**Q. What if I want to disinfect a larger area than the square footage that is listed in the specifications of this product?**

A. You can move the product and cover other areas. Each time the unit is moved, the exposure time starts again.

**Q. How long does the fixture need to operate to kill viruses?**

A. 30 minute exposure time is required for killing viruses







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**IND-CD-48-2L-UVC-50C**

**Product ID: 266848**

**Export Control Classification Number (ECCN):** EAR99

**Options:**

**IND-CD-48-2L-UVC-50C-Cord Cap**

**Example: IND-CD-48-2L-UVC-50C-5.15**

| Cord Cap | |
|---|---|
| 5-15 STRAIGHT | -5.15 |
| 6-15 STRAIGHT | -6.15 |
| L5-15 TWIST | -L5.15 |
| L6-15 TWIST | -L6.15 |
| UK BS1363 | -BS1363 |
| INTL SCHUKO | -Schuko |
| PIGTAIL | -Pigtail |

Links (Click on the below items to view):

- Beam Information (Coverage, Datafile)
- Canadian CEC Certificate (Commonly referred to as CSA Certificate)
- Catalog Page - Product Series
- CE Certificate
- Certificate 1, Misc
- Certificate 4, Misc
- Eye Safety Information/Certificate
- Lighting Facts & Information
- MSDS (Material Safety Data Sheet
- Operations Manual
- RoHS Certificate (Restriction of Hazardous Substances)
- Spectrum Curve (Wavelength Graph)
- USA NEC Certificate (Commonly referred to as UL Certificate)
- Wiring Diagram (Oneline)
- HigResPic1
- HigResPic2
- HigResPic3
- HigResPic4
- HigResPic5
- HigResPic6
- HigResPic7
- HigResPic8
- HigResPic9
- Video1
- Video2
- Video3
- Video4
- Video5
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map