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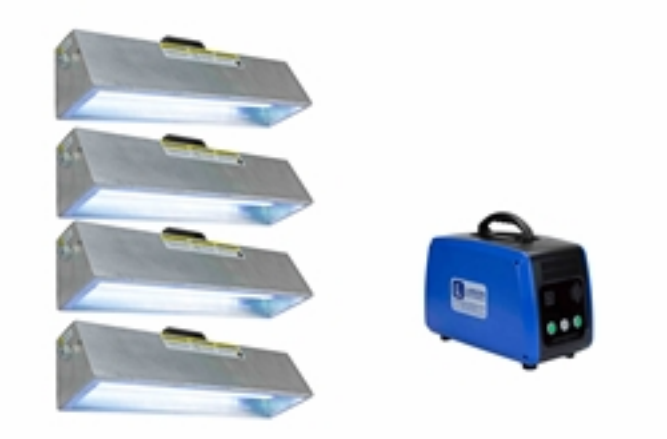
IND-LLP-UVC-KT-RPS-1.5-4X-HL-HDB-BX55-50C

Portable UV Sanitizer System - (4) Handheld UV Lamps - (1) Rechargeable Li-ion Battery Pack - 50' 16/3 SOOW Cord

Product ID: 268971

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-LLP-UVC-KT-RPS-1.5-4X-HL-HDB-BX55-50C Portable UV Surface Disinfection System

Package Contents

UV Disinfection Lamps: (4)
Battery Pack: (1)
Wiring: (4) 50' 16/3 SOOW Cord w/ Cord Cap
Cord Cap: 5-15P
Runtime: 6 Hours

Battery Pack Specs

Battery Type: Li-ion Battery
Battery Capacity: 1500Wh
Rated Output Power: 500W
Peak Output: 700W
Voltage: 120V AC Input to 120V AC Output
Output Frequency: 50Hz/60Hz
Relative humidity: 5% ~ 90%
AC Charge Input Voltage: 120V AC

Ratings/Features

Short-wave Germicidal Light
Kill 99% of Viruses and Other Germs
EPA Reg. No 98409-1
EPA Est. No. 98409-TX-1

AC Charge Power Factor: =0.94(full load)

AC Charge Input Frequency: 50/60Hz±5 Hz

AC Charge Max Charge Power: 327W

AC Charge Max Charge Time: 5 hours

AC Max Efficiency: 92%

PV Charge Max Input Power: 210W

PV Charge Start-up Voltage: 18VDC

PV Charge MPPT Amount: 1

PV Charge MPPT Input Voltage: 18~50VDC

PV Charge Max Input Voltage: 150VDC

PV Charge MPPT Efficiency: 99.50%

Solar Charging Model: MPPT

Charge Temperature: 0 ~ 40°C

Overload Ability: 120% < load < 130% @10min; 130% < load < 150% @10s

AC Output Socket/Charging Cable: Type G

UV Lamp Specs

Lamp Technology: UV-C Fluorescent

Dimensions: 2'-L

Weight: <5 lbs

Voltage: 120V AC

Total Watts: 220W

Single-lamp Watts: 55W

Total UV Output: 66W

Single-lamp Output: 16.5W

Total UV Irradiance: 624 uW/cm2 at 3ft

Luminous Efficacy: -

Expected Lifespan: 8,000+ Hours
UV Wavelength: UV-C, 200nm - 280nm (254 nm)
CRI: -
Lamp Type: Biax
Lamp Base: 2G11 Lamp Socket
Replacement Lamp: -
Beam Angle: 180º
Light Configuration: Flood
Power Efficiency: -
Power Factor: -
Switch: On/Off

Indicator Light: Red = In Operation

Ambient Operating Temp: -

Materials: Aluminum

Mounting: Portable Handle

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-LLP-UVC-KT-RPS-1.5-4X-HL-HDB-BX55-50C Portable UV Sanitizer System disinfects 99% of viruses, bacteria, mold and spores on surfaces, work stations, tables and desks, as well as devices, machines and personal equipment. This system comes with four 55-watt, high-powered biax UV fluorescent lamps and a rechargeable lithium-ion

battery pack. Each UV germicidal light has 50` of 16/3 SOOW cord and a back-located handle for up close UV light treatment.

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-LLP-UVC-KT-RPS-1.5-4X-HL-HDB-BX55-50C is a powerful sanitation solution for many types of surfaces, tables, work stations and work devices. This portable package contains four UV-C germicidal lamps with cords and one lithium-ion battery pack. At full charge, the system offers 6 hours of runtime.

UV Sanitation Lamps: Each UV device is equipped with a 55-watt biax fluorescent lamp that offers 16.5 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. With a 2` long lamp, this UV system caters to a wide range of sanitation activities via 180 degrees of coverage. Operators may move the UV lights around after exposure time to disinfect several sections.

The units are made out of aluminum and feature 2G11 lamp sockets. A red indicator light at the back of the units notify individuals when the lamps are on. The UV germicidal devices come with an on/off switch located near the handles. Multiple devices can be purchased to cover larger areas quicker. The UV lights can disinfect over 99% of bacteria, viruses, mold and spores.

Distance from Lamp	Irradiance/Second	Exposure Time Required* Time (12mJ)	Beam Length	Beam Width
1/2 inch	6224.4 uW/cm2	1.93 seconds	22 inches	2.5 inches
1 inch	6037.2 uW/cm2	1.99 seconds	22 inches	2.5 inches
2 inch	5038.8 uW/cm2	2.38 seconds	22 inches	2.5 inches
3 inch	3556.8 uW/cm2	3.37 seconds	22 inches	2.5 inches
4 inch	2901.6 uW/cm2	4.14 seconds	22 inches	3 inches
6 inch	2012.4 uW/cm2	5.96 seconds	22 inches	4.5 inches
8 inch	1536.6 uW/cm2	7.81 seconds	22 inches	6 inches
10 inch	1238.64 uW/cm2	9.69 seconds	22 inches	8 inches
12 inch	1010.88 uW/cm2	11.87 seconds	22 inches	9 inches
14 inch	834.6 uW/cm2	14.38 seconds	22 inches	10 inches
18 inch	561.6 uW/cm2	21.37 seconds	22 inches	12 inches
24 inch	363.48 uW/cm2	33 seconds	22 inches	16 inches
36 inch	190.32 uW/cm2	63.05 seconds	22 inches	24 inches

*Exposure time is based off of total irradiance over time. The above calculations are based on 12 mJ total exposure. This is the standard exposure time recognized in the scientific community to deactivate viruses.
Larson Electronics recommends the 12 mJ exposure column for most applications.
For more information regarding UVC exposure times and UV effectiveness against coronaviruses, click here.

Wiring/Plug: Each UV lamp is equipped with 50 feet of 16/3 chemical and abrasion resistant SOOW cord that is fitted with an industrial-grade 5-15 15 amp straight blade plug for 120V power connections.

Battery Pack: The 120V portable battery pack supports a rechargeable li-ion battery with 1500Wh capacity. The unit comes with versatile AC and PV charging options. For seamless transportation and handling, a pop-up handle may be deployed, which is located at the top of the battery pack. Illuminated green indicators display the charging status of the unit when it is in use. A button activation system allows operators to

toggle the power of the battery pack on/off.
Standard output power for this unit is 500W with peak output reaching 700W. A Type G AC output socket/charging cable is supported by this unit. This product can be charged using solar panels (PV) with a max input voltage of 150V DC and MPPT input voltage of 18~50V DC. The portable battery pack weighs 26.4 lbs and measures 15.9 × 8.4 × 10.2 inches, making it easy to carry from one location to another.



Click Photo to Enlarge



Click Photo to Enlarge



Click Photo to Enlarge

Mount: The UV germicidal lamps have a handle at the back for portable use. At <5 lbs., the lightweight design allows the devices to be held directly over the target surface or object with ease.
Suggested Applications: Sanitation, disinfection, retail spaces, lobbies, commercial locations, industrial parks, schools, public transportation hubs, airports, office buildings, medical centers, casinos, labs, hospitals, work stations, hotels 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)

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Product ID: 268971

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- Canadian CEC Certificate (Commonly referred to as CSA Certificate)
- Catalog Page - Product Series
- Certificate 1, Misc
- Certificate 4, Misc
- Eye Safety Information/Certificate
- Lighting Facts & Information
- MSDS (Material Safety Data Sheet
- USA NEC Certificate (Commonly referred to as UL Certificate)
- HigResPic1
- Video1
- Video2
- Video3
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map