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IND-UC.360-RPS-R3-48-12L-UVC-V3

Autonomous UV Sanitation Robot - Kills 99% of Viruses - (12) 120W UVC Lamps - Battery Powered/WT

Product ID: 278015

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-UC.360-RPS-R3-48-12L-UVC-V3 Portable UV Sanitation Robot

Lamp Technology: UV-C Fluorescent
Lamp Qty: (12)
Dimensions: 19.68" x 19.68" x 59.05"
Weight: -
Voltage: -
Total Watts: 1440W
Single-lamp Watts: 120W
Total UV Output: 319.12W
Single-lamp UV Output: 26.6W
Single-lamp UV Irradiance: 240 µW/cm² @ 1 Meter
Coverage: -
Expected Lifespan: 8,000+ Hours
UV Wavelength: UV-C, 200nm - 280nm (253.7nm)
CRI: -
Lamp Type: T8HO
Lamp Base: G13 (Medium Bi-Pin)
Replacement Lamp: FRL-48-1X-T8HO-120W-UV-C
Beam Angle: 360°
Light Configuration: Flood

Ratings/Features

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

Disinfection Time: 10-30 Minutes
Ventilation Requirements: -
Safety: Laser Navigation, Ultrasonic Radar, Infrared Sensor
Control Terminal: PC, Tablet or Phone
Remote Operation: Tablet
Hardware Interface: TTL/RS232/TCP IP
Wireless Connectivity: BLE (Bluetooth Low Energy), LTM-M (Sim Card)
Router: Included
SIM Card: Not Included
Amps: -
Ambient Operating Temp Range: -

Materials: -
Mount: Flat Base w/ Wheels
Drive Method: DC Motor
Maximum Speed: 98.42' per Minute
Maximum Incline: 3°

Runtime: 2 Hours

Charge Time: 2 Hours

Charge Method: Autonomous Charging Station

Wiring: -

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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The Larson Electronics IND-UC.360-RPS-R3-48-12L-UVC-V3 Autonomous UV Sanitation Robot disinfects 99% of viruses, bacteria, mold and spores in large facilities without human assistance. Equipped with twelve UV lamps, this unit offers UV-C output at a range of 200nm - 280nm (254nm). The battery-powered bot offers up to 2 hours of runtime per full charge and features wireless connectivity (BLE or LTM-M).

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-UC.360-RPS-R3-48-12L-UVC-V3 is an autonomous sanitation solution for industrial sites and commercial facilities. Equipped with twelve UVC fluorescent lamps, this system offers 319.12 UV output, within the 280nm-200nm UV-C range (254nm peak). The lights have an expected lifespan of 8,000+ hours and emit a flood beam pattern with 360° of coverage. This UV light kills 99% of viruses, bacteria, mold, and spores. The UV lamps DO NOT produce ozone.
Ultrasonic radar, lasers and infrared sensors on the robot detect obstacles and automatically avoids them without human assistance. Operators initiate commands and monitor the unit using a computer, tablet or phone (Windows or Android) over Wi-Fi. This autonomous sanitation bot supports TTL/RS232/TCP IP. Wireless connectivity is available via BLE (Bluetooth Low Energy) and LTM-M (SIM card). Equipped with a router, operators can fully control and program the system remotely using SIM card data (SIM card not included) or locally using Bluetooth.

Distance from Cart**	Irradiance/Second	Exposure Time Required*	Coverage Area***
6 inch	10836.00 uW/cm2	1.27 seconds	2.5 ft x 2.5 ft
12 inch	5443.20 uW/cm2	2.54 seconds	3.5 ft x 3.5 ft
18 inch	3024.00 uW/cm2	4.56 seconds	4.5 ft x 4.5 ft
2 foot	1957.20 uW/cm2	7.05 seconds	5.5 ft x 5.5 ft
3 foot	1024.80 uW/cm2	13.47 seconds	7.5 ft x 7.5 ft
4 foot	516.60 uW/cm2	26.71 seconds	9.5 ft x 9.5 ft
5 foot	330.62 uW/cm2	41.74 seconds	11.5 ft x 11.5 ft
6 foot	229.60 uW/cm2	1 minutes	13.5 ft x 13.5 ft
7 foot	168.69 uW/cm2	1.36 minutes	15.5 ft x 15.5 ft

8 foot	129.15 uW/cm2	1.78 minutes	17.5 ft x 17.5 ft
9 foot	102.04 uW/cm2	2.25 minutes	19.5 ft x 19.5 ft
10 foot	82.66 uW/cm2	2.78 minutes	21.5 ft x 21.5 ft
12 foot	57.40 uW/cm2	4.01 minutes	25.5 ft x 25.5 ft
15 foot	36.74 uW/cm2	6.26 minutes	31.5 ft x 31.5 ft
18 foot	25.51 uW/cm2	9.02 minutes	37.5 ft x 37.5 ft
20 foot	20.66 uW/cm2	11.13 minutes	41.5 ft x 41.5 ft
22.5 foot	16.33 uW/cm2	14.09 minutes	46.5 ft x 46.5 ft
25 foot	13.22 uW/cm2	17.39 minutes	51.5 ft x 51.5 ft
28 foot	10.54 uW/cm2	21.82 minutes	57.5 ft x 57.5 ft
30 foot	9.18 uW/cm2	25.04 minutes	61.5 ft x 61.5 ft
32.5 foot	7.83 uW/cm2	29.39 minutes	66.5 ft x 66.5 ft
35 foot	6.75 uW/cm2	34.09 minutes	71.5 ft x 71.5 ft
40 foot	5.17 uW/cm2	44.52 minutes	81.5 ft x 81.5 ft
4**5** foot	4.08 uW/cm2	56.35 minutes	91.5 ft x 91.5 ft
50 foot	3.31 uW/cm2	69.57 minutes	101.5 ft x 101.5 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.
**Distance from cart is surface distance from each side.
***Coverage area is calculated based on the cart being in the center of this area. This coverage area factors in the size of the cart. Please see "Distance from Cart" column for distance from one side of the cart.

Charging: This unit offers 2 hours of runtime on a full charge. Average charge time is 2 hours. The sanitation bot can return to the charging station autonomously when not in use.
Mobility: The IND-UC.360-RPS-R3-48-12L-UVC-V3 is powered by a DC motor. In autonomous cleaning mode, this device is capable of full, 360° rotation and moving over inclines (maximum 3°).
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)





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Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **Video1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**