Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

IND-RL-HDB-BX9-220V

9W Rechargeable UVC Handheld Surface Sanitizer - Aluminum - 8 Hour Runtime - 220V AC Charger

Product ID: 273373

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-RL-HDB-BX9-220V Battery-powered UV Surface Disinfection

Lamp Technology: UV-C Fluorescent
Dimensions: 12"-L
Weight: -
Charging Voltage: 220 V AC
Total Watts: 9W
Total UV Output: 2.4W
UV Irradiance: -
Expected Lifespan: 8,000+ Hours
UV Wavelength: UV-C, 200nm - 280nm (253.7 nm)
Lamp Type: -
Lamp Base: G23 (2-pin)
Replacement Lamp: -
Beam Angle: 180º
Light Configuration: Flood
Switch: On/Off
Indicator Light: Red = In Operation
Amps: -
Ambient Operating Temp: -
Materials: Aluminum
Mounting: Portable Handle

Ratings/Features

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

Special Orders - Special Requirements

Contact us for special requirements

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

Battery Pack: 10aH Lithium-ion Battery Pack

Charge Duration: 2 Hours

Runtime: 8 Hours

Charging Cord - Cord Cap Options: NEMA 6-15, NEMA 6-20, NEMA L6-15, NEMA L6-20, BS1363 (Type G), Schuko (Type F, CEE 7/4), BS546 (Type M), or Pigtail

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.

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

Fax: 1-903-498-3364

E-mail: sales@larsonelectronics.com

This unit is Made In USA - Manufactured in Texas

The Larson Electronics IND-RL-HDB-BX9-220V is a Portable UVC Handheld Surface Sanitizer which can disinfect 99% of viruses, bacteria, mold, and spores on surfaces, work stations, tables and desks, as well as devices, machines, and personal equipment. This battery-powered unit offers UV-C output at a range of 200nm - 280nm (253.7nm) and comes equipped with a 9-watt UV fluorescent lamp. The aluminum UV system has a 10aH lithium-ion battery pack and a 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 coronavirus*

The IND-RL-HDB-BX9-220V is a portable sanitation solution for many types of surfaces, tables, work stations and work devices. Equipped with a UVC fluorescent lamp, this system offers 2.4 watts of output, within the 200nm - 280nm UV-C range (253.7 nm). The light has an expected lifespan of 8,000+ hours and emits a flood beam pattern. With a 12" long lamp, this UV system caters to a wide range of sanitation activities via 180 degrees of coverage. Operators may move the UV light around after exposure time to disinfect several sections.

This unit is made out of aluminum and features a G23 (2-pin) base. A red indicator light at the back of the unit notifies individuals when the lamp is on. This UV germicidal device comes with an on/off switch located near the handle. Multiple devices can be purchased to cover larger areas quicker. The UV light 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	1516.2 uW/cm2	8 seconds	9 inches	0.59 inches
1 inch	1470.6 uW/cm2	8.16 seconds	9 inches	1.19 inches
2 inch	1227.4 uW/cm2	9.78 seconds	9 inches	2.39 inches
3 inch	866.4 uW/cm2	13.85 seconds	9 inches	3.58 inches
4 inch	706.8 uW/cm2	16.98 seconds	9 inches	4.77 inches
6 inch	490.2 uW/cm2	24.48 seconds	9 inches	7.15 inches
8 inch	374.3 uW/cm2	32.06 seconds	9 inches	9.54 inches
10 inch	301.72 uW/cm2	39.78 seconds	9 inches	11.92 inches
12 inch	246.24 uW/cm2	48.73 seconds	9 inches	14.3 inches
14 inch	59.03 uW/cm2	1.46 minutes	9 inches	16.7 inches
18 inch	158.4 uW/cm2	2.26 minutes	9 inches	21.45 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.

Charging: This unit is powered by a 10aH lithium-ion battery pack. Charging is facilitated by an included wall charger that operates on 220 V AC. It takes approximately 2 hours to fully charge the battery. At full charge, the battery offers 8 hours of runtime.

Click Photos to Enlarge



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: The charging cord for this unit is fitted with an industrial grade cord cap for easy connection to outlets. Plug options include standard NEMA 6-15 15 amp straight blade plug, standard NEMA 6-20 20 amp straight blade plug, NEMA L6-15 15 amp twist lock plug, NEMA L6-20 20 amp twist lock plug, British BS1363 (Type G plug) 13 amp fused 3-blade plug for United Kingdom outlets, a two pin 16 amp rated Schuko plug (Type F, CEE 7/4 plug) with ground contact and socket for European outlets up to 250V, or a BS546 (Type M, CEE 3-pin 15 amp rated plug for Indian and South African outlets. 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.
Mount: The IND-RL-HDB-BX9-220V has a handle at the back of the unit for portable use. This lightweight design allows the device 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.

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

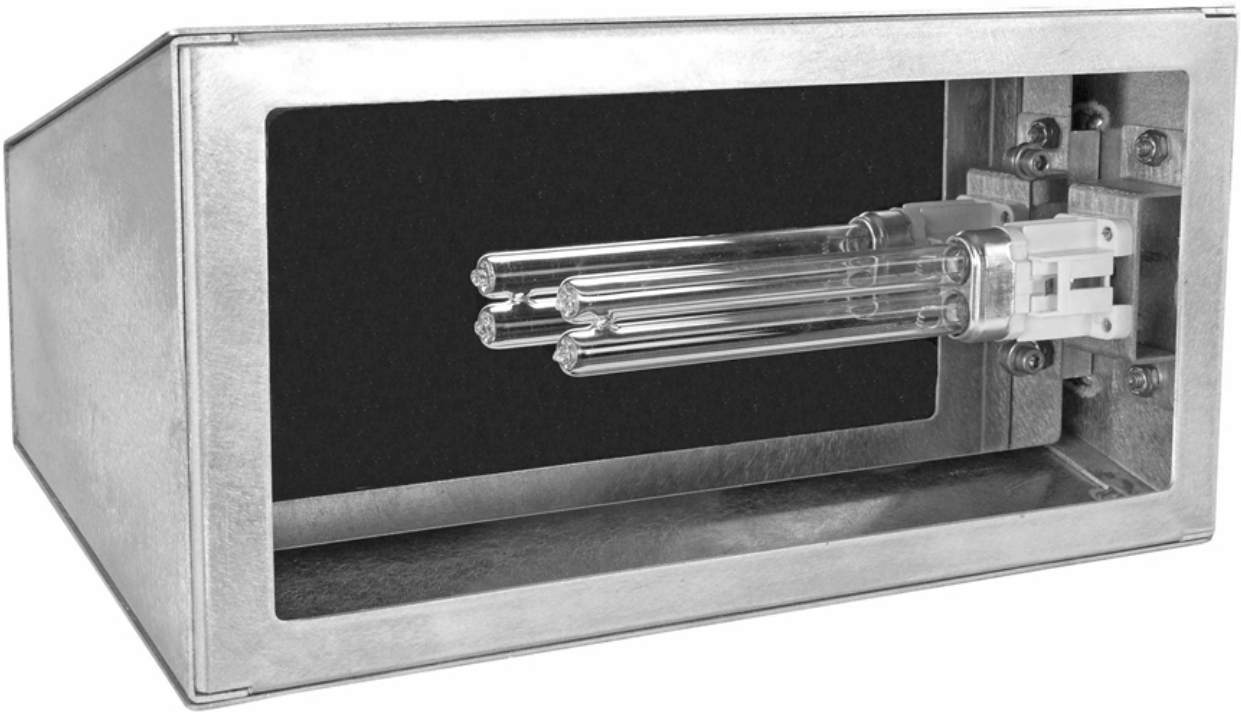
www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

Frequently Asked Questions (FAQ)

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364





Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364





Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

IND-RL-HDB-BX9-220V

Product ID: 273373

Export Control Classification Number (ECCN): EAR99

Options:

IND-RL-HDB-BX9-220V-Cord Cap

Example: IND-RL-HDB-BX9-220V-6.15

Cord Cap	
6-15	-6.15
6-20	-6.20
L6-15	-L6.15
L6-20	-L6.20
BS1363	-BS1363
SCHUKO	-Schuko
BS546	-BS546
PIGTAIL	-Pigtail

Links (Click on the below items to view):

- **Catalog Page - Product Series**
- **Certificate 4, Misc**
- **Eye Safety Information/Certificate**
- **Lighting Facts & Information**
- **Operations Manual**
- **Wiring Diagram (Oneline)**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **HigResPic6**
- **HigResPic7**
- **HigResPic8**
- **HigResPic9**
- **HigResPic10**
- **Video1**
- **Video2**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**