

## 55W Germicidal UV Sanitation Light 120V - 15' x 15' Area Instruction Manual

Thank you for your purchase of the Larson Electronics IIND-SM-BX-24 Series UV Sanitation Light.

**EPA Reg. No 98409-1**

**EPA Est. No. 98409-TX-1**

### IMPORTANT

READ CAREFULLY BEFORE INSTALLING THIS FIXTURE. SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE. THE IND-SM-BX-24 SERIES MUST BE WIRED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES. PROPER GROUNDING IS REQUIRED FOR SAFETY.

**WE STRONGLY ENCOURAGE ONLY A LICENSED ELECTRICIAN INSTALL, OPERATE AND MAINTAIN THIS PRODUCT. IF YOU ARE NOT QUALIFIED OR UNFAMILIAR WITH ANY ASPECT OF THIS INSTRUCTION SHEET, CONSULT AN ELECTRICIAN. THERE ARE NO SERVICEABLE PARTS INSIDE.**



**WARNING:** MAKE SURE POWER IS TURNED **OFF** BEFORE STARTING THE INSTALLATION OR PERFORMING ANY MAINTENANCE.

**RISK OF FIRE/ELECTRIC SHOCK** – DISCONNECT POWER AT BREAKER BEFORE INSTALLING OR SERVICING.

**RISK OF PERSONAL INJURY** – FIXTURE MAY BECOME UNSTABLE OR DAMAGED IF NOT INSTALLED PROPERLY.

**RISK OF BURN** – ALLOW FIXTURE TO COOL BEFORE SERVICING.

**WARNING:** ULTRAVIOLET LIGHT IS HARMFUL TO EYES AND SKIN. DO NOT STARE DIRECTLY INTO THE ULTRAVIOLET BEAM WITHOUT WEARING PROTECTIVE GEAR TO PROTECT EYES FROM LONG TERM DAMAGE. UNPLUG LAMP BEFORE SERVICING.

**WARNING:** **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 removed with alcohol. Be sure fixture is disconnected from power source and cooled off before servicing.

The Larson Electronics IND-SM-BX-24 Series is an Industrial UV Sanitation Light which can disinfect kill 99% of viruses, bacteria, mold, and spores and bacteria in large facilities. UV-C output is at a range of 200nm - 280nm (254nm).

### POWER

This unit is equipped with 15 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 or NEMA L5-15 15 amp twist lock plug for 125V twist lock 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.

**Warning:** Check product label for correct input voltage!

Attach supply line wires to the appropriate light fixture wires as shown in the applicable diagram →

Secure each pair of wires according to the diagram. Ensure the unit is properly grounded and that wiring is done according to all local and national electrical/building codes.

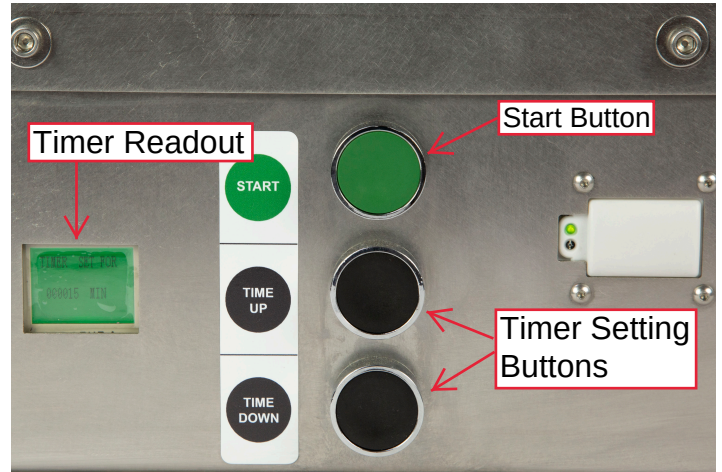
### MOUNT

This UV sanitation desktop light is equipped with a top-located carrying handle, which can be used to transport the unit around the work site. The bottom of the light contains pads to reduce slippage on surfaces. For best results, the light should be setup in the middle of the area to be sanitized on a flat surface.



## OPERATION

The IND-SM-BX-24 Series is a powerful sanitation solution for industrial sites and commercial facilities. Equipped with a 55-watt UVC fluorescent lamp, this system offers 16.5 watts of total UV output, within the 200nm - 280nm UV-C range (254 nm). Total UV irradiance is 156 uW/cm<sup>2</sup>. The light has an expected lifespan of 8,000+ hours and emits a flood beam pattern. This UV system caters to 15' x 15' areas with 360 degrees of coverage. Operators may move the light around after exposure time to disinfect several sections. With a recommended 20-25 minute exposure time for viruses, multiple units can be purchased to cover larger areas quicker. The UV light can disinfect over 99% of bacteria, viruses, kill 99% of viruses, bacteria, mold, and spores, mold and spores.



## BULB REPLACEMENT

**Warning:** 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 removed with alcohol. Be sure fixture is disconnected from power source and cooled off before servicing.

To replace a bulb in your light, you must first remove the cage protecting the bulbs. Remove the 4 corner bolts on top of the unit, and the 4 bolts at the bottom corners of the cage. Lift the cage straight up and over the top of the cart to remove it, taking care not to damage any bulbs in the process. Remove the bulb to be replaced by pulling the bulb straight up out of the socket. Replace the bulb with one of the same type and rating. Install the new bulb by aligning the 2-pin connector with the slots in the bulb receptacle at the bottom and push the bulb down into the socket until it is fully seated. Test the new bulbs before reinstalling the protective cage.

## USE AND CARE

Unauthorized modification may impair the function and/or safety of this device and could affect the life of the equipment. Always check for damaged or worn out parts before using the device. Store it in a secure place out of the reach of children when not in use. Inspect for good working condition prior to storage and before re-use.

## REPLACEMENT PARTS

The IND-SM-BX-24 Series is designed to provide years of reliable performance. Should the need for replacement parts arise, please contact Larson Electronics.

THESE INSTRUCTIONS MAY NOT COVER ALL DETAILS OR VARIATIONS OF THIS PRODUCT FOR YOUR EQUIPMENT OR INSTALLATION REQUIREMENTS. SHOULD FURTHER INFORMATION NOT COVERED BY THESE INSTRUCTIONS BE REQUIRED, PLEASE CONTACT LARSON ELECTRONICS BY EMAIL AT [SALES@LARSONELECTRONICS.COM](mailto:SALES@LARSONELECTRONICS.COM) OR BY PHONE AT 1-800-369-6671 FOR FURTHER ASSISTANCE.

PLEASE VISIT [LARSONELECTRONICS.COM](http://LARSONELECTRONICS.COM) FOR **WARRANTY** AND **RETURN** INFORMATION.

## Ultraviolet Radiation Safety

**WARNING:** Do not attempt operation until you are familiar with all warnings, precautions, and procedures outlined within this instruction sheet.

### OPERATION PRECAUTIONS

- **UV LIGHT WARNING:** 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.
- **UV LIGHT CAUTION:** UV light may degrade plastic and rubber components after longterm exposure.
- Currently, there are no work place related rules and regulations that are set by OSHA (Occupational Safety and Health Association) in regard to UVC environmental health and safety.
- **NEVER LOOK DIRECTLY AT THE BULB OR DISINFECTING TARGET ZONE**

### OPERATION SAFETY

- People and animals are forbidden from being exposed to the light output of this light for extended periods of time. Long term exposure will cause damage to the eyes and skin.
- This product produces UV radiation. Anything in front of the unit will be exposed to UV radiation. Operators positioning the light while not illuminated will not be exposed. Radiation is only emitted while the light is turned on. Radiation will not linger in the environment when the lamps have been powered off. Safety equipment is only required when the device is in-use.
- Wear eye protective gear when operating the equipment. Polycarbonate safety glasses at minimum are required during all operations. Full frontal polycarbonate or UV-preventative face masks are recommended.
- Wear long sleeves and gloves when operating the equipment. Personal protective gear is required for long term exposure.

### OPERATION SAFETY STRATEGIES

- Instruct service personnel to never look directly at UV-C light without adequate eye protection.
- Make it a policy to never enter areas being disinfected with UV lighting systems without powering the system down first. Methods of powering down depends on the options of the device purchased and may include unplugging the light source, operating the power switch to power the lamps off, or turning the system off via a wireless remote control or wireless application.
- Place warning labels near all openings/entrances to areas being disinfected with UV lighting systems. When possible, lock access doors to prevent unexpected guests from entering the area.
- Close blinds/curtains of areas being disinfected with UV lighting systems if available. If not available, block off direct access to windows/doorways to prevent access to the area. If you cannot fully block off all access (hallways with visible windows, etc) place exterior warnings in areas prior to the exposed windows (hall pedestals, banners, posters) explaining what areas are being disinfected and to not look into the room.
- Educate non service personnel about the intended operations for UV disinfecting and what signage will be posted. Instruct non service personnel to never look directly at UV-C light.
- Instruct service personnel to always wear personal protective gear (as outlined above) when they must operate in an area that has UV-C exposure, for short or long term work.

These safety precautions will help ensure service personnel are protected from accidental exposure while maintaining the effectiveness of UV-C to eradicate biological contaminants.

In the event of UV exposure, the following actions are recommended.

- See an ophthalmologist if eye damage is suspected.
- Treat skin lesions immediately.
- For severe skin lesions, seek local medical treatment and follow their recommendations for treatment.
- Follow your organization's incident reporting procedure. These often require documentation of the date and time of the incident, persons involved, equipment involved and type of injury.

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