

Medical Exam Room UV Disinfection Package for Doctor's Offices

Instruction Manual

EPA Reg. No 98409-1

EPA Est. No. 98409-TX-1

Ultraviolet Indirect Air Disinfection

Instruction Guide

SAFETY WARNINGS

- All personnel should be alerted to the potential hazards indicated by the product safety labeling on this unit.
- The following conventions are used to indicate and classify precautions in this manual and on product safety labeling. Failure to observe precautions could result in injury to people or damage to property.

 This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

 **DANGER** Danger indicates an **IMMINENTLY** hazardous situation, which, if not avoided, **WILL** result in death or serious injury.

 **WARNING** Warning indicates a **POTENTIALLY** hazardous situation, which, if not avoided, **COULD** result in death or serious injury.

 **CAUTION** Caution indicates a **POTENTIALLY** hazardous situation, which, if not avoided, **MAY** result in minor or moderate injury.

CAUTION Caution used without the safety alert symbol indicates a potentially hazardous situation, which, if not avoided, may result in property damage.



This symbol/pictorial is used to identify an **ELECTRICAL SHOCK** or **ELECTROCUTION** hazard.



This symbol/pictorial is used to identify an **ULTRAVIOLET LIGHT** hazard.



This symbol/pictorial is used to identify the need to wear approved ultraviolet blocking eye wear.



This symbol/pictorial is used to identify the need to wear approved ultraviolet blocking face shield.



This symbol/pictorial is used to identify the need to wear protective gloves.



This symbol/pictorial is used to identify components which must not be disposed of in trash

SAFETY INSTRUCTIONS

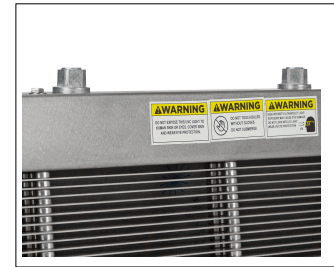
 **WARNING** To guard against injury, basic safety precautions should be observed, including the following:

1. Read and follow **ALL** safety instructions.

    **WARNING** Avoid exposure to direct or reflected germicidal ultraviolet rays. Germicidal ultraviolet rays are harmful to the eyes and skin.

2. Intended for indoor use only.
3. Do not alter design or construction.
4. Do not use this fixture for other than its intended purpose, as described in this manual.
5. Do not mount under any source of moisture or condensation, such as humidifiers, cooling coils, etc.
6. Do not remove any labels or devices.
7.  **CAUTION** Germicidal ultraviolet rays may break down plastic, rubber or other non-metallic materials, with inadequate resistance to ultraviolet. Shield all plastic, rubber or other non-metallic parts such as; plastic drain pans, wire insulation, flex ducts, humidifiers, filters, etc. which may be exposed to direct or reflected germicidal ultraviolet rays.
8.   **WARNING** Do not operate without proper electrical ground.
9. Do not operate the unit if there is visible or suspected damage to the unit or, if applicable, there is damage to power cord and/or plug.
10. Utility power supplied, to the fixture, **MUST** match power requirements listed on the fixture label.
11.   **WARNING** Always disconnect power to the unit before performing any service or maintenance.
12. Ultraviolet light must be contained within duct and visible only through supplied sight glass assembly.
13. Read and follow all notices and warnings on the unit.
14. **SAVE THESE INSTRUCTIONS.**

SAFETY LABELS



Location of Labels

CAUTION

It is the user's responsibility to determine and validate the suitability of this equipment for use in the user's system or process.

No warranty or representation is made by the manufacturer with respect to suitability or performance of this equipment or to the results that may be expected from its use.

The user should periodically inspect, clean as necessary and confirm the presence and good legibility of the product safety labels. Contact the factory for replacement labels in the event that any of the labels are missing or illegible.

PRODUCT APPLICATION

CONSTRUCTION

IND-AH-UVC-LF-24-SF-WLM-120V is categorized as indirect type germicidal ultraviolet fixtures, which utilize Germicidal Ultraviolet Lamp(s) with a series of louvers to direct germicidal ultraviolet rays to the upper areas of a room, thereby destroying bacteria and viruses that are carried into the ultraviolet field by convection currents or air circulation.

Each fixture is equipped with a Variable Output Ballast which enables on-site adjustment of ultraviolet output.

The IND-AH-UVC-LF-24-SF-WLM-120V consists of: a Louver Panel, Parabolic Reflectors with specular aluminum inserts, Electronic Variable Output Ballast, Germicidal Lamp, and Stainless Steel Housing.

PRINCIPLE OF OPERATION

The IND-AH-UVC-LF-48-SF-WLM-10C-120V design has been carefully conceived to provide germicidal ultraviolet rays to disinfect the upper room air of occupied spaces in order to reduce the risk of cross infection and exposure of occupants to infectious airborne microbes.

The dosage, as it applies to ultraviolet disinfection, is a function of time, and the intensity, of ultraviolet radiation, to which the air is exposed. The exposure time, in seconds, is the total time it takes the air to move through the ultraviolet field, produced by the germicidal lamp(s). Exposure time is related to the airflow rate; the higher the airflow, the lower the exposure time or the lower the airflow, the higher the exposure time.

The operation of IND-AH-UVC-LF-24-SF-WLM-120V is as follows:

1. Ultraviolet rays project across the upper room air.
2. Bacteria and virus are destroyed that are carried into the ultraviolet field by convection currents or air circulation.
3. The air in the room is continuously being purified.

PRINCIPLE OF OPERATION

IND-AH-UVC-LF-24-SF-WLM-120V requires knowledgeable planning for: location, installation, and continued supervision to prevent exceeding the ultraviolet radiant exposure incident Threshold Limit Value (TLV) set by the American Conference of Governmental Industrial Hygienists.

IND-AH-UVC-LF-24-SF-WLM-120V requires professional installation so all wiring complies with applicable local and national electrical codes. Installation is permanent, and relatively inflexible.

Safety and maintenance procedures **MUST** be implemented to prevent accidental exposure of personnel and other persons who might enter the irradiated space (Electricians and other trades people in particular). All work performed (painting, new ceilings, equipment or fixture installation, etc.) in the irradiated space must be monitored to ensure that they do not adversely impact the safety or effectiveness of the installation.

As long as installation procedures are followed – unit installed 7 feet above ground level at minimum – the unit is safe to leave on 24/7 while people are around.

UNPACKING



IN ORDER TO PERFORM THIS TASK, BE SURE TO WEAR THE FOLLOWING SAFETY EQUIPMENT: SAFETY GLASSES OR A FACE SHIELD, AS WELL AS GLOVES.

- Remove the IND-AH-UVC-LF-24-SF-WLM-120V from its shipping carton.
- Larson Electronics takes all possible precautions when packaging this unit to prevent damage. Carefully inspect the unit, power cord and plug for damage and report all damage immediately. Do not assemble or operate if there is any damage, visible or suspected.
- Germicidal lamp(s) are packed separately, to ensure maximum protection for the lamps. Keep the lamp(s) aside until ready for installation.
- Carefully inspect all packing materials to prevent the loss of accessories, mounting hardware, spare parts or instructions.
- Do not discard packing materials until unit is assembled and start up is complete.

The IND-AH-UVC-LF-24-SF-WLM-120V fixture includes:

- 1 - Model IND-AH-UVC-LF-24-SF-WLM-120V single lamp fixture
- 1 - Germicidal Ultraviolet Lamp
- 1 - Operating Instructions

INSTALLATION

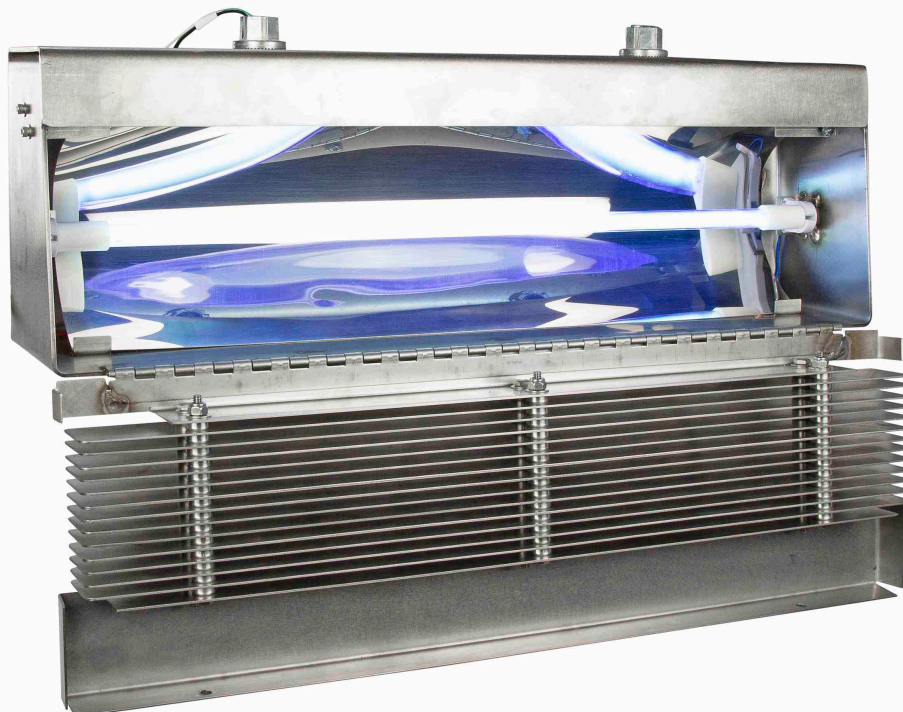
FIXTURE PLACEMENT

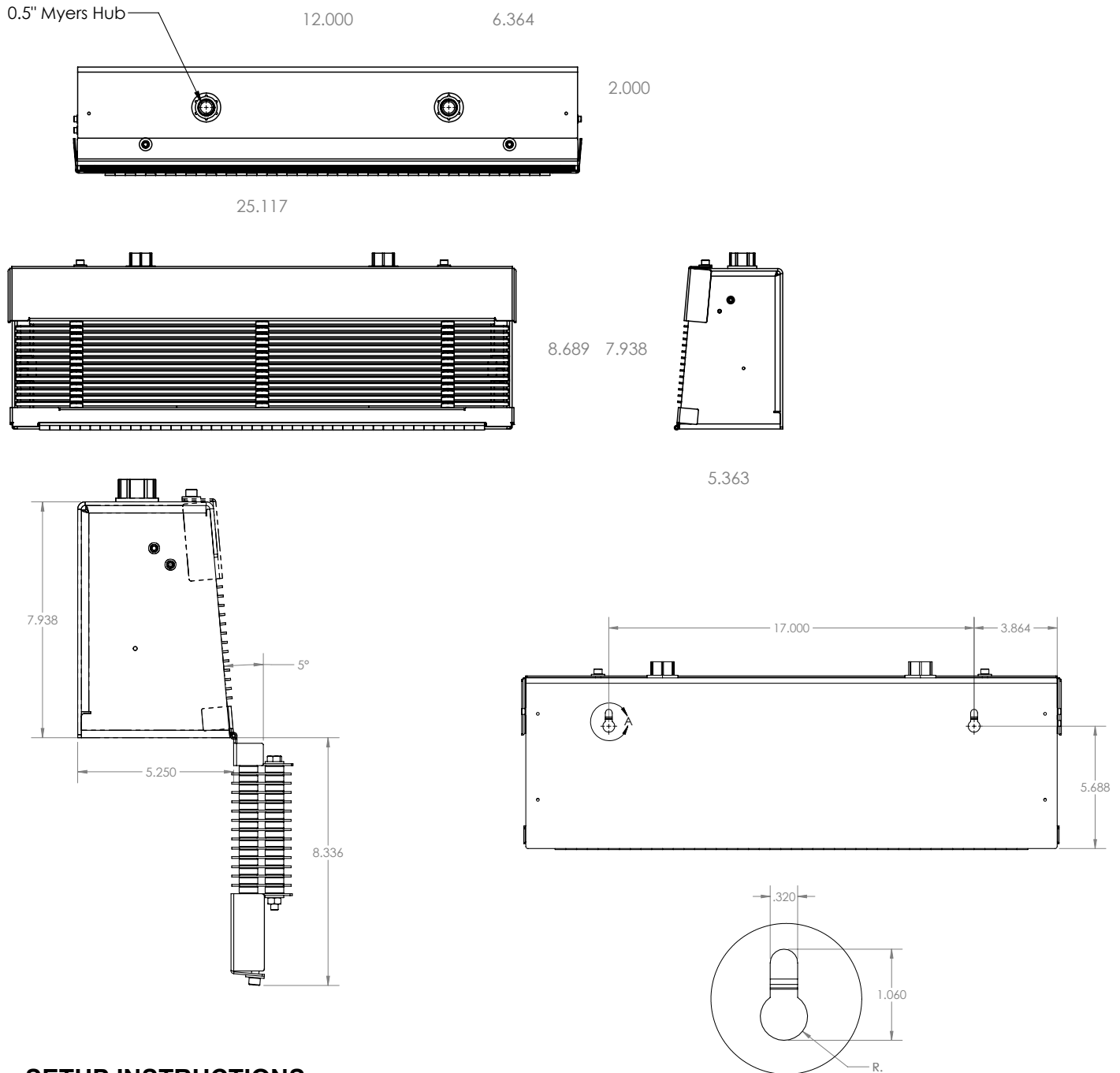
- The fixture is recommended for use in rooms with good ventilation, with a ceiling height of 9 feet or more and where occupants remain for prolonged periods.
- Access to the room does not need to be controlled while the fixture is operating.
- The louver panels of the fixture protects room occupants from ultraviolet exposure, by directing germicidal ultraviolet radiation into the upper areas of the room.
- Any plans for the installation of the fixtures, should take into account the reflectance of the ceiling. Some finishes may have reflectances that are objectionably high, making exposure of more than a few hours unsafe. If any help is needed in determining the reflectance of a surface, please contact the factory.
- Ultraviolet energy, produced by the germicidal lamp(s), can fade some colors and/or alter the surface of some materials especially those directly irradiated by the lamp(s). If any help is needed in determining the ultraviolet resistance of any material, please contact the factory.
- The fixture is designed to mount horizontally on a vertical surface, or wall, at a **minimum** height of 7 feet above the floor.
- If the fixture includes pendent mount hardware, suspend fixture from the ceiling at a minimum height of 7 feet above the floor. Standard stem pipe length is 18 inches. Other lengths are available, contact the factory with requirements.

PRECAUTIONS

Immediately following initial installation of the fixture, the occupied area, of the room, should be surveyed with the UV-C Detector, to ensure that the ultraviolet radiant exposure of personnel is within acceptable limits. Thereafter this procedure should be repeated whenever any maintenance is performed, including lamp changes or whenever maintenance or repairs are performed in the vicinity of the fixture. In addition, procedures should be adopted to ensure that the fixture is powered off whenever personnel are working above the 6-foot level. Personnel who work in and around the treated area should be briefed on the benefits and the precautions to be observed.

If there are any doubts or questions about the safety or the effectiveness of the installation, or if a sensitive ultraviolet meter is required, please contact the factory.





SETUP INSTRUCTIONS

- The fixture is to be mounted on a plumb, vertical surface, at a **minimum** height of 7 feet from the floor.[To ensure fixture is mounted to a secure vertical surface, installation location must be able to safely support 16 pounds.]
- Remove thumbscrews and open fixture to expose interior lampholders and reflectors.
- Remove one mounting screw from each end of the reflector so that the reflector will be able to pivot toward the lampholder.
- Pivot reflectors, on remaining screws, to expose the rear mounting holes and 7/8-inch wire access hole.
- All wiring should conform to state and local electrical codes as well as the current National Electrical Code (NEC).
- After mounting and wiring, pivot reflectors back into place and replace mounting screws, install lamp(s) following the steps in “**Lamp Installation, Replacement, or Cleaning**” in the “**Maintenance**” section.
- Close fixture and replace thumbscrews.

MAINTENANCE

   **CAUTION** Personal protection equipment, such as gloves; long sleeves with no gaps between cuffs and gloves, and ultraviolet resistant face shield, is **required** when entering the irradiated space, above 6 ½ feet from the floor, with the germicidal lamp operating.

  **WARNING** Always disconnect power to the fixture before performing any service or maintenance. The IND-AH-UVC-LF-24-SF-WLM-120V is equipped with a safety interlock switch that will shut down the germicidal lamp when the louver panel is opened.

  **CAUTION** Do not override safety interlock switch. Operation of the fixture with the override of the interlock switch and louver panel open will expose personnel to direct or strongly reflected germicidal ultraviolet rays. Germicidal ultraviolet rays are harmful to the eyes and skin.

- The IND-AH-UVC-LF-24-SF-WLM-120V is designed to operate with a minimal amount of maintenance. Occasional ultraviolet measurements **MUST** be made to ensure that germicidal ultraviolet intensities in the treated areas remain within the allowable exposure limits and above minimum levels.
- A regular cycle of cleaning the Germicidal Lamp and interior reflectors **MUST** be established based on visual inspection and experience. The frequency of cleaning will vary with the conditions surrounding each installation. It is recommended that the Germicidal Lamp(s) and interior reflectors be cleaned at least once every three (3) months.
- The Germicidal Ultraviolet Lamp(s) used in the fixture have a manufacturer's rated average effective life of 10,000 hours. Lamps may operate longer than the rated effective life, but the reduction in ultraviolet output will make it impractical to use past the manufacturer's rated life. For maximum efficiency lamp replacement is recommended every 10,000 hours of operation or about one (1) year of continuous use.
- Unless lamp replacement is due to failure or breakage, it is recommended that all lamps be replaced at the same time.

UNIT AND LAMP INSTALLATION, REPLACEMENT, OR CLEANING



IN ORDER TO PERFORM THIS TASK, BE SURE TO WEAR THE FOLLOWING SAFETY EQUIPMENT: SAFETY GLASSES OR A FACE SHIELD, AS WELL AS GLOVES.



WARNING Always disconnect power to the unit before performing any service or maintenance.



CAUTION Ultraviolet lamps are easily damaged and may cause injury if broken. Exercise care when handling.

1. Shut down power to the fixture, and disconnect fixture from utility power source.
2. Open the louver panel, by removing the two (2) bolts.
3. To remove lamp, push the lamp to compress the spring-loaded lampholder. When the lamp contact/pin clears the lampholder, angle the lamp away from fixture and pull out.
4. Moisten a clean, lint-free cloth with denatured alcohol and wipe down the outer surface of the lamp.
5. When lamp has been removed and cleaned, then safely set aside, remove any loose dust or dirt from the interior of the fixture with a soft dry cloth, or vacuum. The reflector of the IND-AH-UVC-LF-24-SF-WLM-120V is constructed from specular aluminum, a highly reflective mirror like material, used to maximize ultraviolet intensity.
6. To remove any dust, dirt, fingerprints, smears, etc, from the outer surfaces of the reflector, moisten a clean, lint-free cloth with denatured alcohol and wipe down the reflector. Buff out any streaks, left from the cleaning, using a soft dry cloth.
7. Install lamp, push the lamp to compress the spring-loaded lampholder. When the lamp contact/pin clears the lampholder, line up the contact pin on the end of the lamp with the hole in the center of the lampholder and release the lamp to allow the contact pin to seat.
8. Verify that lamp is properly seated.
9. Close fixture and replace thumbscrews.
10. Reconnect fixture to utility power, and restart fixture.



WARNING Avoid exposure to direct or reflected germicidal ultraviolet rays. Germicidal ultraviolet rays are harmful to the eyes and skin.

11. Verify operation by viewing lamp, use of personal protection equipment is required. If the fixture is not operating properly, go to “**Troubleshooting**” section.

BREAKAGE



CAUTION Broken Quartz is **SHARP**.



Wear protective gloves when handling broken ultraviolet lamp(s). In the event of breakage, **DO NOT** use a household vacuum cleaner to pick up quartz fragments. Sweep up debris into a plastic bag and dispose of properly.

DISPOSAL OF MERCURY ADDED LAMPS



Germicidal ultraviolet lamps, like standard fluorescent lamps contain small amounts of mercury. Mercury added lamps should not be placed in the trash. Dispose of properly. For further information regarding the disposal and recycling of lamps containing mercury, along with Federal and State requirements visit www.lamprecycle.org.

TROUBLESHOOTING

 **WARNING** Always disconnect power to the unit before performing any service or maintenance.

 Use personal protection equipment, such long sleeves with no gaps between cuffs and gloves, and ultraviolet resistant face shield, if troubleshooting IND-AH-UVC-LF-24-SF-WLM-120V.

IMPORTANT: This unit is to be serviced **ONLY** by qualified, and appropriately trained and/or licensed personnel.

Table 1 – Troubleshooting

Problem	Possible Cause	Corrective Action
Fixture not operating	No electrical power	Verify that the unit is connected to a live power source.
	Power connections to fixtures, loose or disconnected	Verify power connections to fixture are fully engaged.
Germicidal lamp(s) not operating	Lamp(s) not installed	Install lamp(s).
	Germicidal Lamp not properly seated	Confirm connection between lamp and lampholder is tight, and that lamp is making full contact with lampholder.
	Germicidal Lamp faulty	Swap suspect lamp, with known good. If known good lamp does not operate, replace ballast.
	Ballast not functioning	Locate ballast and replace.
	Interlock Switch open	Confirm louver panel is closed and secured.
	Interlock Switch faulty	Replace Interlock Switch.

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PLEASE VISIT LARSONELECTRONICS.COM FOR **WARRANTY** AND **RETURN** INFORMATION.

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 wa of total UV output, within the 200nm - 280nm UV-C range (254 nm). Total UV irradiance is 156 uW/cm2. 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.

Once the unit is in the desired location to be sanitized, connect the power cord to the supply power. This will power on the timer readout adjacent to the buttons at the top of the unit. Some models of this unit are furnished with a wireless remote for controls as well.



- The controller has four main buttons, START, DOWN, UP, and STOP.
- To set the time, use the DOWN and UP buttons to increase or decrease sanitation time in 15 minute increments.
- Once the desired time is selected press START. The unit will count to 90 seconds, and then illuminate. You can cancel the 90-second delayed start timer by pressing the fourth button, with the right arrow and labeled STP on the interface.
- Once the elapsed time is equal to that set on the timer, the unit will power off on its own. ***During setup, if a menu prompting language selection displays, unplug the unit and plug it back in.***

MOTION SENSOR

The IND-SM-BX-24 Series is equipped with microwave motion sensors that will automatically shut the light off if motion is detected in the area. This is to protect the user or anyone unaware that sanitation is in progress by shutting the light off if you enter the area. This shut off does not interrupt the timer, it will keep counting. Once motion stops and goes undetected, the unit will power back on and finish out the time remaining on the timer. This may be affected by motion in adjacent rooms to the one being sanitized, so be mindful of that when using the cart in small rooms or near walls that adjoin rooms. There is a toggle switch that will turn the motion sensor on or off for operation. The UP position toggles it on and the DOWN position toggles it off.

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.

MAINTENANCE

Caution: To avoid personal injury, disconnect power to the light and allow the unit to cool down before performing maintenance.

Warning: No user serviceable parts inside of fixture. Risk of electric shock. Removal of the lens will void the warranty.

1. Perform visual, mechanical and electrical inspections on a regular basis. We recommend routine checks to be made on a yearly basis. Frequency of use and environment should determine this. It is recommended to follow an Electrical Preventive Maintenance Program as described in NFPA 70B: Recommended practice for Electrical Equipment.
2. The lens should be cleaned periodically as needed to ensure continued photometric performance. Clean the lens with a damp, non-abrasive, lint-free cloth. If not sufficient, use mild soap or a liquid cleaner.
3. Inspect the cooling fins on the luminaire to ensure that they are free of any obstructions or contamination (i.e. excessive dust build-up). Clean with a non-abrasive cloth if needed.
4. Do not operate if the lens is cracked or damaged. All fasteners should be properly seated.

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-LLP-UVC-KT.MD-R1-120V is designed to provide years of reliable performance. Should the need for replacement parts arise, please contact Larson Electronics.

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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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