Mobile UV Air Sanitation Purifier
120V - (8) UVC Lamps, Motion Sensors - 50' Cord - Unoccupied + Occupied Areas
Instructions

Thank you for your purchase of the Larson Electronics IND-AHF.360-CD-UVC-R1-MMS-220V.50-50C.

EPA Reg. No 98409-1

EPA Est. No. 98409-TX-1

WARNING:

READ CAREFULLY BEFORE INSTALLING FIXTURE. RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE. CRITICAL SAFETY INSTRUCTIONS:

- INSTALLATION SHOULD ONLY BE CONDUCTED BY A QUALIFIED ELECTRICIAN IN ACCORDANCE WITH NEC AND ANY RELEVANT LOCAL BUILDING CODES.
- RISK OF FIRE OR ELECTRIC SHOCK. FIXTURE INSTALLATION REQUIRES KNOWLEDGE OF LUMINAIRES ELECTRICAL SYSTEMS. IF NOT QUALIFIED, CONTACT A QUALIFIED ELECTRICIAN.
- BE CERTAIN ELECTRICAL POWER IS OFF BEFORE AND DURING INSTALLATION AND MAINTENANCE.
- MAKE SURE THE SUPPLY VOLTAGE IS THE SAME AS THE RATED LUMINAIRE FIXTURES VOLTAGE.
- TO PREVENT WIRING DAMAGE OR ABRASION, DO NOT EXPOSE WIRING TO EDGES OF SHEET METAL OR SHARP OBJECTS.
- **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.
- **NOTE:** DO NOT TOUCH THE 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.

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The IND-AHF.360-CD-UVC-R1-MMS-220V.50-50C Mobile UV Air Sanitation Purifier from Larson Electronics actively disinfects the surrounding air in both unoccupied and occupied areas without noise. This unit uses eight lamps that provide 212.8W total UVC output during sanitation. Designed for portable applications, the stainless steel system has four wheels at the base for seamless deployment, transportation and storage. The IND-AHF.360-CD-UVC-R1-MMS-220V.50-50C is equipped with a MERV 16 rated air filter.

OCCUPIED AREA OPERATION

Surrounding "dirty" air is drawn into the portable UV purifier via disposable filters at the base of the system. The "dirty" air passes through the UV sanitation chamber where it is treated with UVC light using the eight fluorescent lamps. The disinfection process kills up to 99.9% of viruses, bacteria, mold, spores and other harmful microbes. Clean sanitized air exits the chamber through a louvered exhaust panel and is released back into the environment. The louvers also protect people from UV exposure in the surrounding area. This low-maintenance air disinfection process is continuous and quiet. Operators can choose from the following occupied area operating modes via a 3-position switch: blower only (blower on; lamps off), full operation (blower on; lamps on) and off (blower off; lamps off). When in occupied area mode, the timer is disabled.

UNOCCUPIED AREA OPERATION

Operators position the doors with the lamps facing outwards (the system will not turn on until the lamps face outwards). Selecting this operating mode disables the fan and activates the timer and four PIR motion sensors located at each corner of the unit. Duration of UV treatment can be set using a timer (default setting is 30 minutes). A time delay function allows individuals to leave the room before the unit is activated. The system will turn off when motion is detected in the area.

MOUNTING

The IND-AHF.360-CD-UVC-R1-MMS-220V.50-50C has four mobile wheels at the base for portable deployment in occupied areas. This mobile solution ensures the UV air purifier is easily setup, transported and stored when needed.

WIRING/PLUG

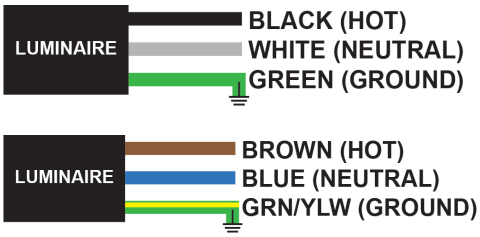
This unit is equipped with 50 feet of 16/3 chemical and abrasion resistant SOOW cord that is fitted with an industrial grade cord cap for easy connection to common wall outlets. Plug options include standard NEMA 6-15 15 amp straight blade plug, standard NEMA 6-20 20 amp straight blade plug, NEMA L6-15 15 amp twist lock plug, NEMA L6-20 20 amp twist lock plug, or 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. 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.

Standard pigtail(flying leads) wiring

We strongly encourage a licensed electrician install this product, in all locations especially in outdoor areas where weatherproofing may be required. Universal voltage driver permits operation at 120V AC.

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

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

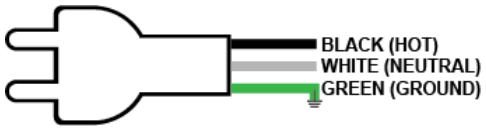


Secure each pair of wires according to the diagram. Utilize a junction box or similar device and take precautionary steps for weatherproofing all connections if installed in a location where water may come in contact with the unit. Ensure the unit is properly grounded and that wiring is done according to all local and national electrical/building codes.

Standard Cord Cap

This unit comes pre-wired from factory with the selected cord cap. Take precautionary steps for weatherproofing all connections if installed in a location where water may come in contact with the unit. All outdoor installations and indoor installations near a wet location require the use of a GFCI device for safety, according to the National Electrical Code®

(NEC). Ensure the unit is properly grounded.



OPERATION

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-AHF.360-CD-UVC-R1-MMS-220V.50-50C is equipped with microwave motion sensors the 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.

MAIN SWITCH



The main dial knob switch, labeled 0 through 3, is found underneath the main controller panel. This switch is a power and mode selector switch.

- "0" is the off state. This has to be turned on and the mode selected in order for the unit to power on.
- "1" is Unoccupied Area Mode. The unit will work with the doors open for sanitizing in an unoccupied area.
- "2" is Blowers Only Mode. This mode pulls air into the unit and out the other side.
- "3" is Occupied Area Mode. This will turn on the blowers and lights for sanitizing. The doors must be shut in this mode for the unit to work.



AIR FILTER GAUGES

The two gauges found near the top of the unit measure the air pressure and health for the top and bottom air filters. A new filter will register no pressure, and as the filter becomes clogged, the pressure will rise and be indicated by the gauges.



LED INDICATORS

The LED indicators found on the right hand side of the unit show operation of the unit. The red LED's indicate UV lamp power. A lit LED shows a lamp is working properly and an unlit one shows a lamp needs to be replaced. The green light is the main power indicator showing the unit is turned on, when lit, or turned off, when unlit. Under the LEDs is a toggle switch. This switch turns the motion senor on or off. The UP position toggles the sensor on, the DOWN position toggles the sensor off.

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-AHF.360-CD-UVC-R1-MMS-220V.50-50C is designed to provide years of reliable performance. Should the need for replacement parts arise, please contact Larson Electronics.

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PLEASE VISIT 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 cart for extended periods of time. Long term exposure will case 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 cart while not illuminated will not be exposed. Radiation is only emitted while the cart 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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