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HAL-12-IPS-LED-UVC-1227

2W Low Profile Ultraviolet LED Light - Low Voltage UVC Linear Fixture - C1D2 - 13.38" Long

Product ID: 267229

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.

HAL-12-IPS-LED-UVC-1227 Hazardous Location LED Lighting

Lamp Type: UV LED
Dimensions: 13.38"L x 2.68"W x 1.69"D
Weight: 0.7 lb | 0.3 kg
Watts: 2
Voltage: 12 or 24 V DC
Total Intensity: 25 mW/cm2
Radiant Intensity: 3500 mW
Lamp Life Expectancy: 5,000 Hours
Amps: 0.09 A @ 12 V DC - 0.045 A @ 24 V DC
Light Color: 280NM - Ultraviolet
Beam Angle: 100°
Lighting Configuration: Flood Pattern
Power Efficiency: >95%
Power Factor: 0.992
Ambient Operating Temp Range:-40°C to +65°C
Operating Temp Rating: T3
Housing Material: Extruded Aluminum
Housing Finish: Powder Coated - Black
Lens Material: Polycarbonate
Gasket Material: Silicone
Mounting: Adjustable Swivel Mount Surface Bracket
Wiring: 6' 16/2 SOOW w/ Flying Leads

***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

Listings/Ratings

NRTL Listed for United States and Canada
Class I, Division 2, Groups A, B, C, D
NRTL Certified to UL 844
NRTL Certified to UL 1598
IP65 Ingress Protection
T3 Temperature Rating
70% Radiant Retention after 5,000 Hours
Factory Sealed Light Fixture

Special Orders - Special Requirements

Contact us for special requirements
Toll Free: 1-800-369-6671
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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.***

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The Larson Electronics HAL-12-IPS-LED-UVC-1227 is a low voltage ultraviolet hazardous location lighting solution approved for Class I Division 2 environments and NRTL listed to UL 1598 standards for use in wet locations. This powerful 13.38" long LED strip 2W light produces 3500 mW radiant intensity, operates on 12 V DC or 24 V DC, and is suitable for hazardous locations where UV lamps are used in paint and adhesive curing, food inspection or for non-destructive testing, as well as food processing, vision systems, and automation systems.

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 HAL-12-IPS-LED-UVC-1227 is designed to provide a high output and ruggedly durable lighting solution for applications where ultraviolet light is needed and Class I Division 2 compliance is required. This low voltage hazardous location UV light emits light in the ultraviolet spectrum. This 280nm strip light can be operated on either 12 volt or 24 volt DC current and includes 6 feet of connecting lead with standard two wire configuration. The housing is constructed of powder coated extruded aluminum for excellent strength and durability and is rated IP65 for protection against exposure to splashing water and limited dust ingress. These units are configured in a 6.80" long strip or "bar" profile for installation in locations where wide dispersal and a low profile is preferred. The high output, cool running operation, and good color rendering properties of this light make it an ideal replacement for older, bulkier, and less reliable HID and halogen light fixtures.

The HAL-12-IPS-LED-UVC-1227 uses LED light technology, a technology that is far better in energy saving than traditional fluorescent bulbs used for the same purposes. Traditional ultraviolet lights require a coating to block out visible light or a special composition of gases and chemicals used to create a higher concentration of ultraviolet light. This process, however, also produces many other wavelengths of light which go unused and end up as wasted energy. LED lights are unique in that they have a narrower wavelength band than traditional ultraviolet sources and therefore do not require these special coatings. As a result, LED lights do not produce unused, wasted light and therefore consume less energy than traditional UV lights on the market. LED lights have the added benefit of being capable of producing very specific wavelengths with tighter curves and are more durable and lightweight as well.

LED Benefits: Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation and/or transportation. Instead of heating a small filament or using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive materials that illuminate when electric current is applied, providing instant illumination with no warm up or cool down time before re-striking. Because there is no warm up period, this light can be cycled on and off with no reduction in lamp life.

LED lights run at significantly cooler temperatures than traditional metal halide and high pressure sodium lights and contain no harmful gases, vapors, or mercury, making them both safer and more energy efficient. No extra energy is wasted in cooling enclosed work areas due to external heat emissions from bulb type lights, and the operator risks associated with traditional lighting methods, such as accidental burns and exposure to hazardous substances contained in the glass bulbs, are eliminated. In addition, LEDs are also safer for the environment as they are 100% recyclable, which eliminates the need for costly special disposal services required with traditional gas burning and arc type lamps.

This Class I Division 2 LED ultraviolet light fixture can be used for non-destructive testing in aviation and manufacturing, food processing and inspection, and in

paint, coating, and adhesive curing. The HAL-12-IPS-LED-UVC-1227 provides operators in hazardous locations with a reliable and durable UV lighting solution that combines effective production of UV light with explosion proof protection and is applicable for leak detection, vision systems, automation systems, paint spray booths, ink, coatings, and adhesive curing, non-destructive testing, inspection, and food processing.

Ultraviolet Wavelength: Ultraviolet C Wavelength produces a short wave between the 200nm - 280nm spectrum. This explosion proof LED light has a peak wavelength of 280nm.

Durability: The HAL-12-IPS-LED-UVC-1227 hazardous location LED light is constructed of extruded aluminum with a tough powder coat finish for high strength and durability. The housing is IP65 rated, providing limited ingress protection against dusts, and basic protection against splashing water such as rain. This design is weather resistant, suitable for indoor or outdoor applications, and ideal for areas where wetness or dusty conditions are commonly encountered.

Mounting: Mounting for this unit is provided by two standard adjustable end brackets that allow operators to mount the light to flat surfaces and then adjust the light 170° vertically for the best placement. The HAL-12-IPS-LED-UVC-1227 weighs 0.7 lb and measures 13.38 inches in length, and 2.68 inches wide and 1.69 inches deep, making it ideal for mounting in areas where space is limited and a low profile fixture more readily installed.

Wiring/Power: This light is universal voltage capable and operates on AC/DC voltages from 11-25 Volts. Each strip light is equipped with 6 feet of 16/3 SOOW cable containing a standard two wire (White+ Black-) connecting configuration for making power connections.

Versatility: The HAL-12-IPS-LED-UVC-1227 is ETL approved for Class I Division 2 Groups A, B, C and D locations. This unit carries an IP65 water resistant rating ensuring protection against limited ingress from dusts, dirt, and basic protection against light water spray landing directly on the fixture. This light is ideal for indoor or outdoor applications and industrial operations with hazardous location classification where dusty or wet conditions are commonly encountered.

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.

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.

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Frequently Asked Questions (FAQ)

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Product ID: 267229

Harmonized System (HS) Code: 9405.41.84.10
Export Control Classification Number (ECCN): EAR99

Options:

HAL-12-IPS-LED-UVC-1227-Voltage

Example: HAL-12-IPS-LED-UVC-1227-12V

Voltage	
12V	-12V
24V	-24V

Links (Click on the below items to view):

- **Dimensional Drawing 2D**
- **Eye Safety Information/Certificate**
- **Lighting Facts & Information**
- **Spectrum Curve (Wavelength Graph)**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **HigResPic6**
- **HigResPic7**
- **HigResPic8**
- **HigResPic9**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**