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## HAL-12-IPS-LED-UVA

# 10 Watt Low Profile Ultraviolet LED Light - Low Voltage UVA Linear - Class 1 Division 2 - 1' Strip

**Product ID: 144113**

**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-UVA Hazardous Location LED Lighting**

**Lamp Type: UV LED**
**Dimensions:** 13.9"-L 2.69" -W 1.84"- D
**Weight:** 0.7lb
**Voltage:** 11-25 Volts AC/DC
**Watts:** 10
**Voltage:** 12 or 24 VDC
**Total Intensity:** 3,500 mW/cm2
**Radiant Efficacy:** 350 mW/w
**Lamp Life Expectancy:** 50,000 Hours
**Amps:** 3.34 A @12 VDC - 1.67 A @ 24 VDC
**Light Color:** 365NM - Ultraviolet
**Beam Angle:** 100°
**Lighting Configuration:**Flood Pattern
**Power Efficiency:** >95%
**Power Factor:** 0.992
**Amperage:** 3.34 A @12 VDC - 1.67 A @ 24 VDC
**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

**Listings/Ratings**

Listed for United States and Canada
Class I, Division 2, Groups A, B, C, D
UL 844
UL 1598
IP65 Ingress Protection
T3 Temperature Rating
70% Radiant Retention after 50,000 Hours
Factory Sealed Light Fixture

**Special Orders - Special Requirements**

Contact us for special requirements
**Toll Free:** 1-800-369-6671
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**Buy American Compliant**

**The Larson Electronics HAL-12-IPS-LED-UVA is a low voltage ultraviolet hazardous location lighting solution approved for Class 1 Division 2 environments and UL 1598 listed for use in wet locations. This powerful 13.90" long LED strip light produces 3,500 mW radiant intensity, operates on 12 or 24 VDC, 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.**

The HAL-12-IPS-LED-UVA is designed to provide a high output and ruggedly durable lighting solution for applications where ultraviolet light is needed and Class 1 Division 2 compliance is required. This low voltage hazardous location UV light emits light in the ultraviolet spectrum. This 365NM strip light can be operated on either 12 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 13.90" 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-UVA 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 1, 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-UVA 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.

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**Ultraviolet Wavelength:** Ultraviolet A Wavelength produces a longer wave between the 400nm - 315nm spectrum. This explosion proof LED light has a peak wavelength of 365NM.
**Durability:** The HAL-12-IPS-LED-UVA 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 entire assembly weighs 0.7 lbs and measures 13.9 inches in length, and 2.69 inches wide and 1.84 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-UVA is ETL approved for Class 1 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.

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# Frequently Asked Questions (FAQ)

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**HAL-12-IPS-LED-UVA**
**Product ID: 144113**

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

**Options:**
**HAL-12-IPS-LED-UVA-Voltage**
**Example: HAL-12-IPS-LED-UVA-12V**

| Voltage | |
|---|---|
| 12V | -12V |
| 24V | -24V |

Links (Click on the below items to view):

- **Operations Manual**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **HigResPic6**
- **HigResPic7**
- **HigResPic8**
- **HigResPic9**
- **HigResPic10**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**