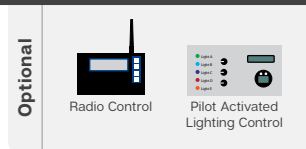


Solar Aviation Light

AV-70 and AV-70-HI



The solar powered AV-70 is a field proven aviation light that offers enormous benefits over traditional battery and hard-wired aviation lights including low maintenance and no underground wiring.

These completely self-contained LED lights are designed to suit a range of aviation and general applications including emergency airstrip, caution, taxiway, and threshold lighting.

The unit has two high-performance solar modules mounted within the lens, which maximize solar collection and provide reliable operation in a range of environmental conditions.

The focal plane of the light is designed to provide a vertical divergence of between 0 to +7 degrees, and the user-replaceable battery ensures a service life of up to 12 years.

AV-70

The AV-70 is made from tough, durable UV stabilized LEXAN® polycarbonate, and incorporates an internal photodiode for automatic night activation once the ambient light threshold drops sufficiently.

Completely self-contained and able to be installed in minutes, the AV-70 is the preferred choice for marking of indigenous, regional and mining airstrips around Australia, and remote airfields globally.

AV-70-HI

The AV-70-HI is a high intensity version of the popular AV-70 and is ideal for use in high sunlight areas.

Optional Radio Control

The AV-70-RF is a radio-controlled version of the popular AV-70, which can be used in conjunction with a PALC or simple handheld controller. Users can wirelessly control ON/OFF functions, adjust light intensities or switch between visual and IR (tactical) operational modes if fitted.

Cost Effective

- Solar Powered
- No running costs
- Low ongoing maintenance costs

Easy Install

- No trenching of cables
- No mains power

Reliable

- No bulbs blown – ever
- Latest LED technology
- No Moving parts

High Performance

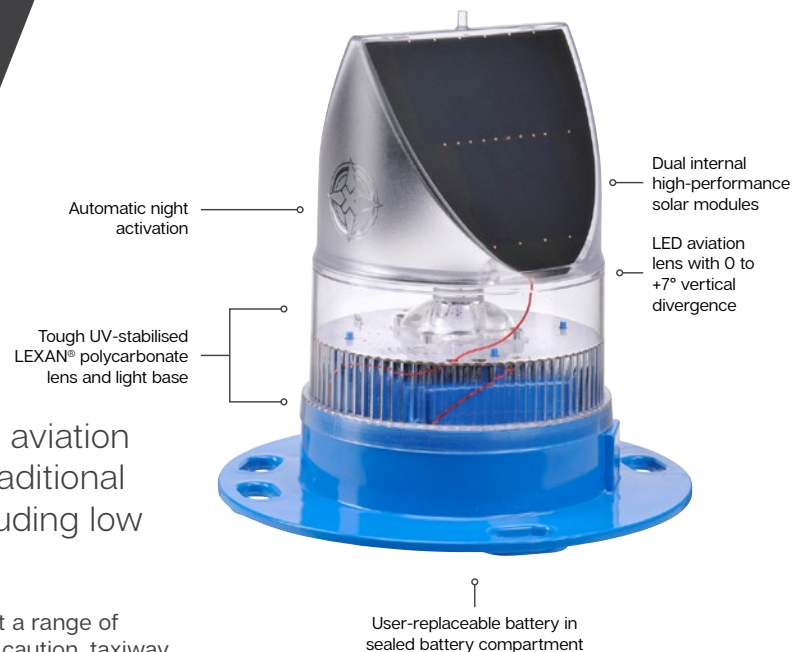
- Fully integratable into an Avlite runway lighting system
- Dusk-to-dawn or on demand operation

Optional Add Ons

- Infrared Output
- Radio Control
- Mounting Solutions

Applications

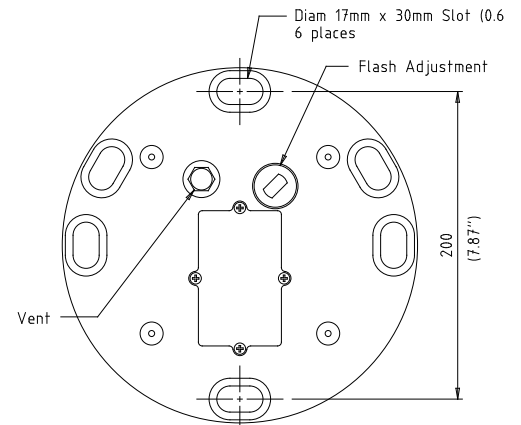
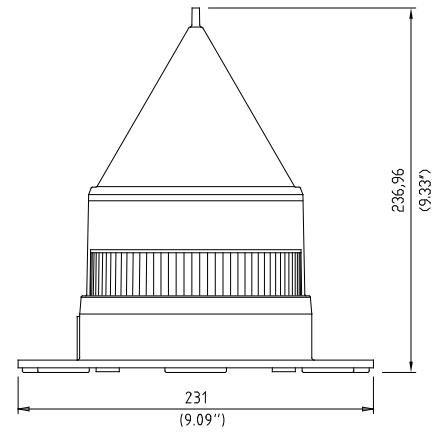
- ICAO and FAA Compliant
- Runway threshold/end
- Runway Edge Light
- Taxiway Edge Light



Technical Specifications *

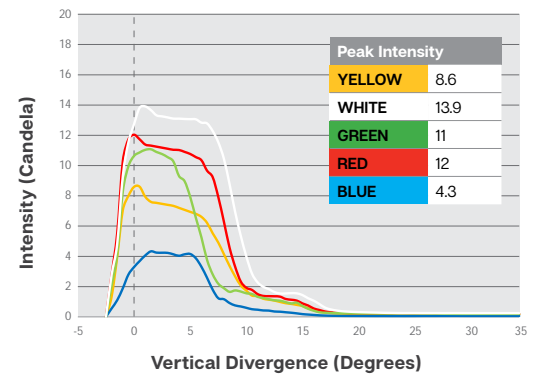
| | AV-70 | AV-70-HI |
|-----------------------------------|--|--|
| Light Characteristics | | |
| Light Source | LED | LED |
| Available colors | Red, Green, White, Amber, Blue | Red, Green, White, Amber, Blue |
| Horizontal Output (degrees) | 360 | 360 |
| Vertical Divergence (degrees) | 0 to +7 | 0 to +7 |
| Intensity Adjustments | 3 Steps - Low, Med, High † | 3 Steps - Low, Med, High † |
| LED Life Expectancy (hours) | >100,000 | >100,000 |
| Electrical Characteristics | | |
| Operating Voltage (V) | 3.6 | 3.6 |
| Temperature Range | -40 to 55°C | -40 to 55°C |
| Solar Characteristics | | |
| Solar Module Type | Monocrystalline | Monocrystalline |
| Output (watts) | 2.8 (2 x 1.4 watt) | 2.8 (2 x 1.4 watt) |
| Solar Module Efficiency (%) | 21 | 21 |
| Charging Regulation | Microprocessor controlled | Microprocessor controlled |
| Power Supply | | |
| Battery Type | High grade NiMH – Environmentally friendly | High grade NiMH – Environmentally friendly |
| Battery Capacity (Ah) | 8.6 | 17.2 |
| Nominal Voltage (V) | 3.6 | 3.6 |
| Autonomy (nights) | Steady-on: >14 | Steady-on: >19 |
| Radio Control | | |
| Frequency | 2.4GHz ISM Band | 2.4GHz ISM Band |
| Range | Up to 1.4km relayed | Up to 1.4km relayed |
| Expandability | AvMesh® | AvMesh® |
| Compliance | FCC / CE | FCC / CE |
| Physical Characteristics | | |
| Body Material | LEXAN® Polycarbonate – UV stabilized | LEXAN® Polycarbonate – UV stabilized |
| Lens Material | LEXAN® Polycarbonate – UV stabilized | LEXAN® Polycarbonate – UV stabilized |
| Lens Diameter (mm/inches) | 140 / 5 1/2 | 140 / 5 1/2 |
| Lens Design | Single LED optic | Single LED optic |
| Mounting | 6 x 17mm holes on 200mm PCD | 6 x 17mm holes on 200mm PCD |
| Height (mm/inches) | 240 / 9 1/2 | 240 / 9 1/2 |
| Width (mm/inches) | 231 / 7 1/4 | 231 / 7 1/4 |
| Mass (kg/lbs) | 1.4 / 3 1/4 | 1.6 / 3 1/2 |
| Product Life Expectancy | Up to 12 years | Up to 12 years |
| Environmental Factors | | |
| Humidity | 0 to 100%, MIL-STD-810F | 0 to 100%, MIL-STD-810F |
| Icing | 22kg per square inch | 22kg per square inch |
| Wind Speed | Up to 160kph | Up to 160kph |
| Shock | MIL-STD-202G, Test Condition G, Method 213B | MIL-STD-202G, Test Condition G, Method 213B |
| Vibration | MIL-STD202G, Test Condition B, Method 204 | MIL-STD202G, Test Condition B, Method 204 |
| Certifications | | |
| CE | EN61000-6-3:2007 EN61000-6-1:2007 | EN61000-6-3:2007 EN61000-6-1:2007 |
| Quality Assurance | ISO9001:2015 | ISO9001:2015 |
| Waterproof | IP68 | IP68 |
| Regulation | DGAC (Mexico) | DGAC (Mexico) |
| Compliance | | |
| ICAO | Annex. 14 Volume 1 'Aerodrome Design and Operations' | Annex. 14 Volume 1 'Aerodrome Design and Operations' |
| FAA | L861T | L861T |
| FAA | Barricade AC 150/5370-2F | Barricade AC 150/5370-2F |
| FAA | LED Colour Standard (Engineering Brief No. 67D) | LED Colour Standard (Engineering Brief No. 67D) |
| Regulation | | CASA MOS Part 139, Volume 2, 2016, Section 9.13.15 |
| Intellectual Property | | |
| Trademarks | AVLITE® is a registered trademark of Avlite Systems | AVLITE® is a registered trademark of Avlite Systems |
| Warranty * | 3 year warranty | 3 year warranty |
| Options Available | <ul style="list-style-type: none"> Manual Operation Radio Controlled Avlite Pilot Activated Lighting Control IR LEDs External ON/OFF Switch External Battery Charging Port Solar Booster™ | <ul style="list-style-type: none"> Manual Operation Radio Controlled Avlite Pilot Activated Lighting Control IR LEDs External ON/OFF Switch External Battery Charging Port Solar Booster™ |

Technical Illustration

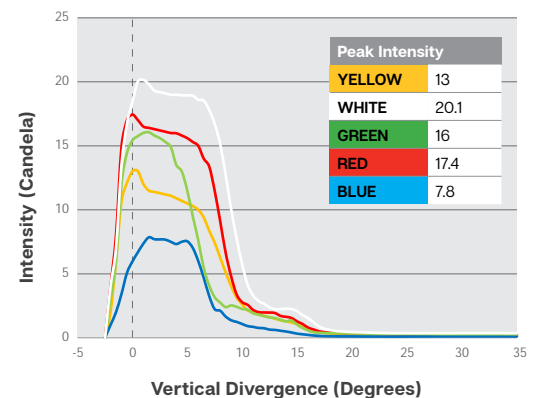


Photometric Output

AV-70 Steady ON



AV-70-HI Steady ON



• Specifications subject to change or variation without notice
 * Subject to standard terms and conditions
 † Intensity setting subject to solar availability

