



Solar Taxiway Edge Light

AV-70-L863 & L861T Avlite

Compliance

- FAA L-863B Certified Temporary Taxiway Light (FAA L-861T compliant photometrics and chromaticity)

Applications

- Taxiway edge light.

Features

- 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
 - Integrate into an Avlite runway lighting system.
 - Dusk-to-dawn or on demand operation.
- Optional Add Ons
 - Infrared output.
 - Radio control.
 - Mounting solutions.

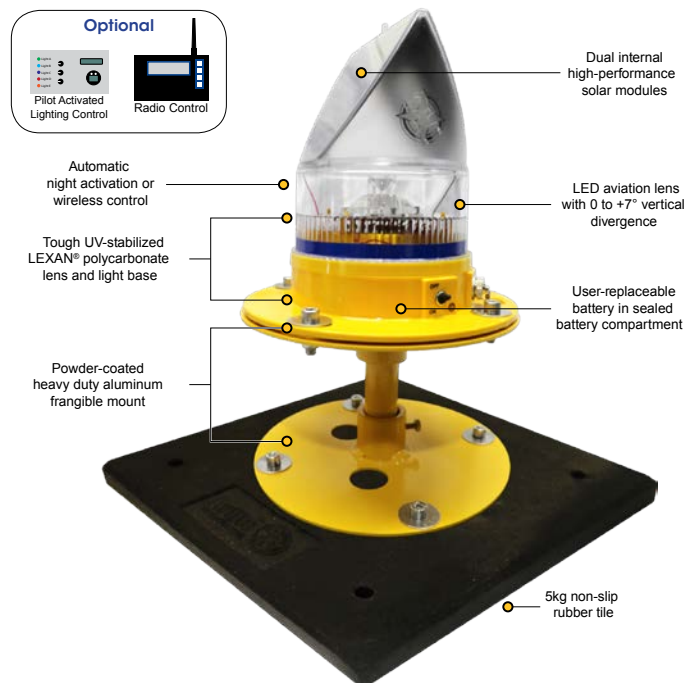
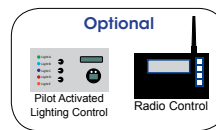
The FAA certified, self-contained solar taxiway light is a field proven alternative to wired fixtures during construction or unanticipated lighting outages. Certified to the L-863B (AC 150-5345-50B) standard, airports and engineers can fully utilize Airport Improvement Program funding for this innovative and cost-saving solution.

Available as an automatic dusk to dawn or wirelessly controlled light, the solar taxiway light system can seamlessly integrate into your existing operation. In conjunction with the Avlite AvMesh ALCMS interface, the lights can be commanded to mimic 3 or 5 step wired intensity without the need for a separate controller or command from the tower.

With upgraded high-performance solar panels and a user-replaceable NiMH battery, the lights and system can be expected to provide up to 12 years of service. Accessories include frangible mounting for concrete or grass applications, heavy duty rubber mounting tiles for temporary deployments, ALCMS wireless interface and charging stations for indoor storage.

AV-70-863/861T

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 regional and mining airstrips and remote airfields globally.

Optional Radio Control

The AV-70-863/861T with RF is a radio-controlled version of the popular AV-70 series, which can be used in conjunction with a PALC, existing ALCMS 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.

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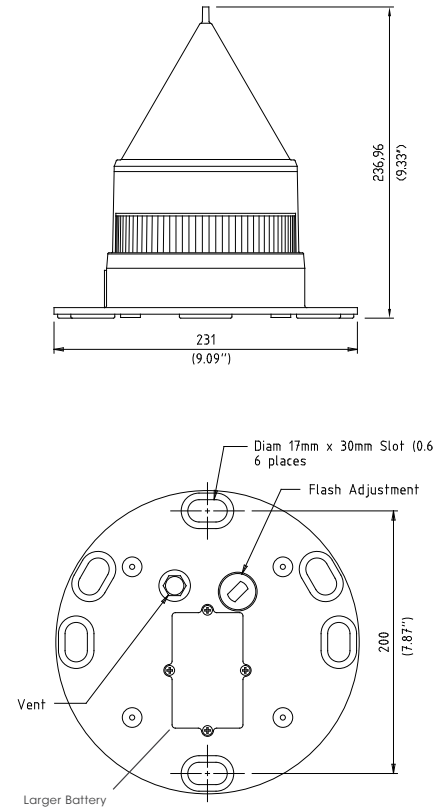
Technical Specifications **

| | AV-70-863-B-XX | AV-70-861T-XX |
|-----------------------------------|--|--|
| Light Characteristics | | |
| Light Source | LED | LED |
| Available colors | Blue | Blue |
| Horizontal Output (degrees) | 360 | 360 |
| Vertical Divergence (degrees) | Per 863B | Per 861T |
| 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 or 17.2 | 8.6 or 17.2 |
| Nominal Voltage (V) | 3.6 | 3.6 |
| Autonomy (nights) | Steady-on: >14 to 19 | Steady-on: >14 to 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 1/8 or 5 lbs. | 1.6 / 3 1/2 or 5 lbs. |
| 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-STD-202G, Test Condition B, Method 204 | MIL-STD-202G, Test Condition B, Method 204 |
| Certifications | | |
| FAA | L-863B | |
| CE | EN61000-6-3:2007, 1:2007 | EN61000-6-3:2007, 1:2007 |
| Quality Assurance | ISO9001:2015 | ISO9001:2015 |
| Waterproof | IP68 | IP68 |
| Regulation | FAA, DGAC (Mexico) | DGAC (Mexico) |
| Compliance | | |
| FAA | L863B Certified | L861T Compliant photometrics and chromaticity |
| FAA | Barricade AC 150/5370-2F | Barricade AC 150/5370-2F |
| FAA | LED Color Standard (Engineering Brief No. 67D) | LED Color Standard (Engineering Brief No. 67D) |
| 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 | <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 |

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



Technical Illustration



Ordering Information

AV-70-L863-B-[Control]-[XX]

Model **AV-70**
 FAA Type **L863**
 Color **Blue**
 Control **RF Radio Frequency**
00 Dusk to Dawn
 XX **SW Switch**
CP Charge Port
SC Switch & Charge Port