

Solar Aviation Light

AV-70

Features

- Integrated solar/battery system
- Dual internal high-performance solar modules angled to maximize solar collection
- Fast & easy to deploy - no programming
- IP68 waterproof rating
- User-replaceable battery
- Ultra-high intensity LEDs (no changing globes ever)

Typical Applications

- Solar Barricade Light
- Solar Caution Light
- Solar Taxiway Light (ICAO)
- Solar Threshold Light
- Solar Obstruction Light

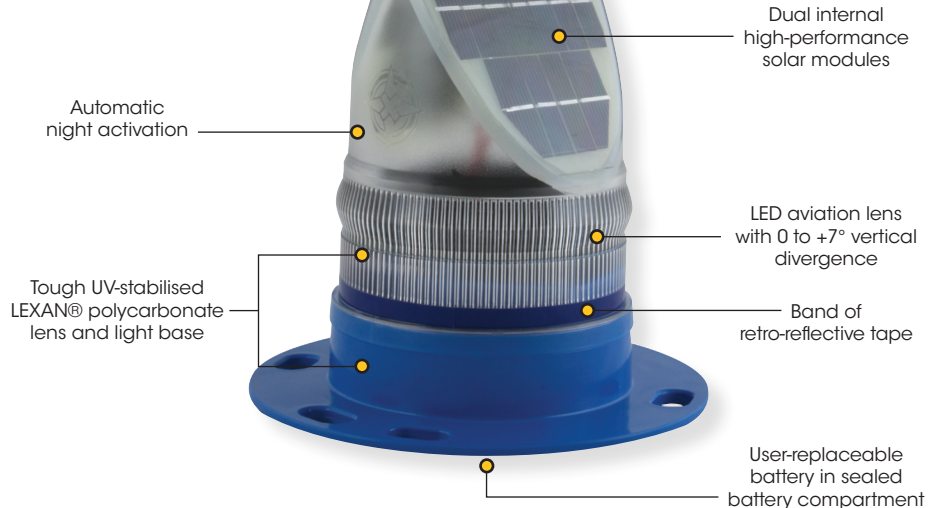
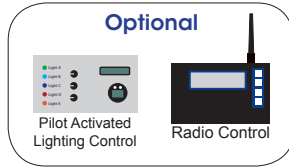
Compliance

- FAA AC150/5370-2F for construction and barricade installations
- ICAO Annex 14 Volume 1, 'Aerodrome Design and Operations', paragraph 5.3.17.7.



Royal Flying Doctor Service

Avlite donates AU\$20 to the Royal Flying Doctor Service from the sale of each AV-60 & AV-70 light within Australia



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 and +7 degrees, and the user-replaceable battery ensures a service life of up to 12 years.

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 of remote airfields throughout Australia - where the units mark indigenous and regional council's airstrips, and mining strips around the country.

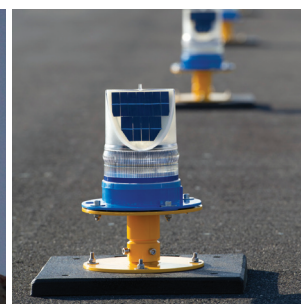
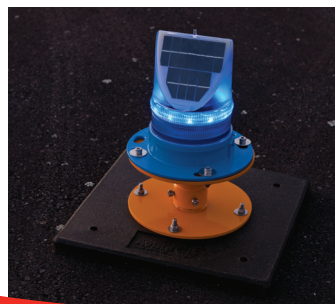
AV-70-HI

The AV-70-HI is a high intensity version of the popular AV-70 and is ideal for use in high sunlight areas that receive a minimum of 3.5 hours of sun per day.

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.

The AV-SB-3 Solar Booster™ can be connected to the AV-70 light to provide additional solar collection for charging the battery. The Avlite Solar Booster™ can be used in areas of reduced sunlight to help ensure optimum battery charge.



Solar Aviation Light

AV-70

SPECIFICATIONS* *

Light Characteristics

Light Source
Available colors

Peak Intensity (cd) †

Horizontal Output (degrees)
Vertical Divergence (degrees)
Reflector Type

Available Flash Characteristics

Intensity Adjustments
LED Life Expectancy (hours)

Electrical Characteristics

Operating Voltage (V)
Temperature Range

Solar Characteristics

Solar Module Type
Output (watts)
Solar Module Efficiency (%)
Charging Regulation

Power Supply

Battery Type
Battery Capacity (Ah)
Nominal Voltage (V)
Autonomy (nights)

Radio Controlled (optional)

Frequency
Range
Expandability
Compliance

Physical Characteristics

Body Material
Lens Material
Lens Diameter (mm/inches)
Lens Design
Mounting
Height (mm/inches)
Width (mm/inches)
Mass (kg/lbs)
Product Life Expectancy

Environmental Factors

Humidity
Icing
Wind Speed
Shock
Vibration

Certifications

CE
Quality Assurance
Waterproof

Intellectual Property

Patents
Trademarks

Warranty *

Options Available

AV-70

12 ultra-high intensity LEDs
Red, Green, White, Yellow, Amber,
Blue, Sectored Combinations
Steady-on:
Blue - 2.8 Red - 6.8 Green - 9.0
White - 7.0 Yellow - 6.5
Flashing:
Blue - 5.5 Red - 18.2 Green - 21.9
White - 19.1 Yellow - 15.1

360
0 to +7
Omnidirectional 360° LED Reflector
(US Pat. No. 6,667,582,
AU Pat. No. 778,918)

>250 including steady-on
(user-adjustable)
Adjustable in 25% increments
>100,000

3.6
-40 to 80°C

Multicrystalline
2.5 (2 x 1.25watt)
14
Microprocessor controlled

High grade NiMH
- Environmentally friendly
8
3.6
Steady-on: >14
Flashing: >38 (14 hour darkness,
12.5% duty cycle)

2.4GHz ISM Band
Up to 1.4km relayed
AvMesh®
FCC / CE

LEXAN® Polycarbonate
- UV stabilized
LEXAN® Polycarbonate
- UV stabilized
140 / 5½
External optics with interior flute
design
6 x 17mm holes on 200mm PCD
240 / 9½
231 / 9⅞
1.1 / 2⅜
Up to 12 years

0 to 100%, MIL-STD-810F
22kg per square inch
Up to 160kph
MIL-STD-202G, Test Condition G,
Method 213B
MIL-STD202G, Test Condition B,
Method 204

EN61000-6-3:1997, EN61000-6-1:1997
ISO9001:2008
IP68

US Pat. No. 6,667,582,
AU Pat. No. 778,918
AVLITE® is a registered trademark of
Avlite Systems
3 year warranty

- Radio Controlled - FCC compliant
- Avlite Pilot Activated Lighting Control
- IR LEDs
- External ON/OFF Switch
- External Battery Charging Port
- Manual Operation
- Solar Booster™

AV-70-HI

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Red, Green, White, Yellow, Amber,
Blue, Sectored Combinations
Steady-on:
Blue - 4.5 Red - 12.1 Green - 16.9
White - 14.2 Yellow - 11.6
Flashing: Not available

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240 / 9½
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1.41 / 3⅛
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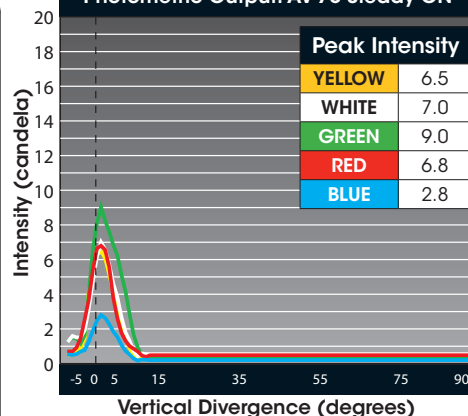
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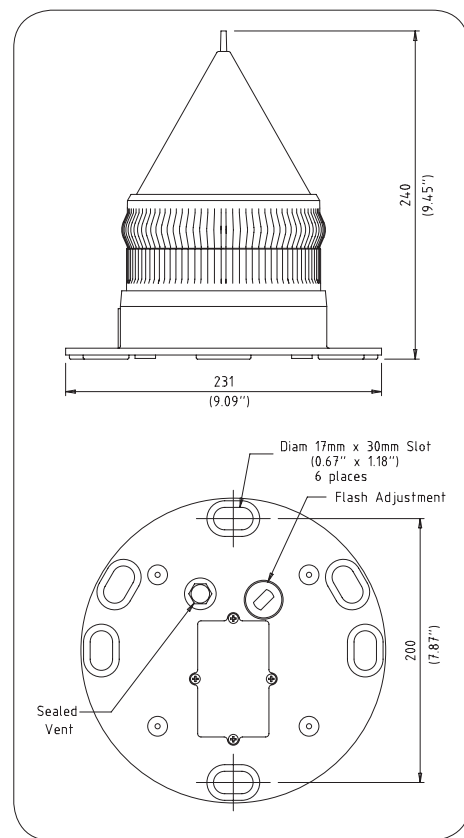
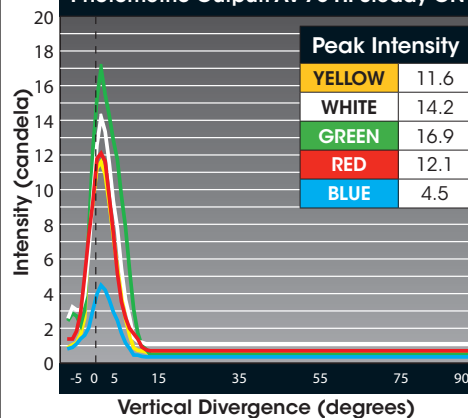
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Photometric Output: AV-70 Steady ON



Photometric Output: 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

