

AV15

Solar Aviation Light

Features

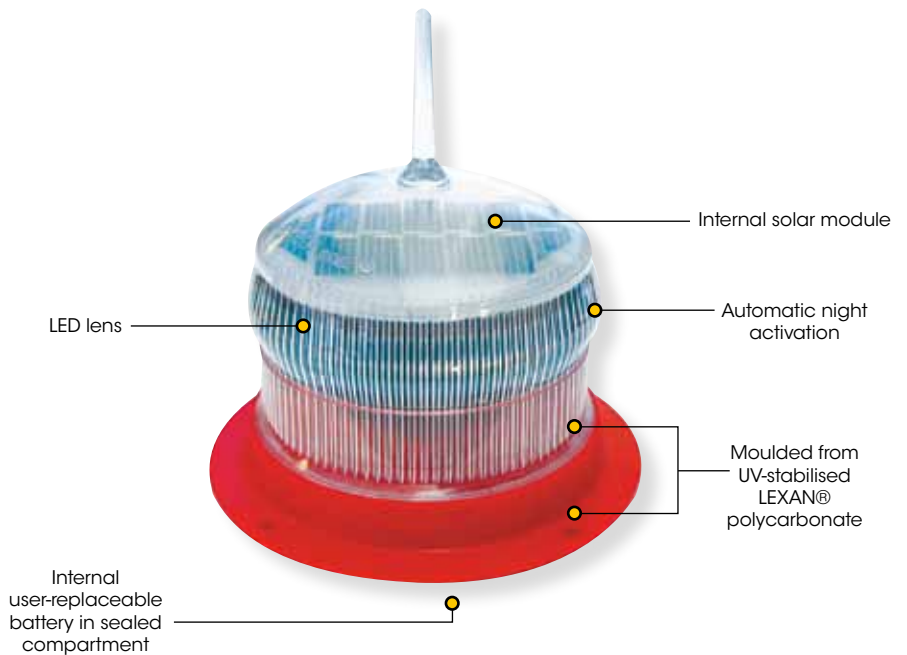
- Up to 4km visible range (flashing), up to 2.5km visible range (steady-on) – colour dependant
- Integrated solar/battery system
- IP68 waterproof rating
- User-replaceable battery
- User-adjustable flash rates, including steady-on
- Ultra-high intensity LEDs (no changing globes ever)

Typical Applications

- Solar Barricade Light
- Solar Caution Light
- Solar Hazard Light

Compliance

- FAA AC150/5370-2E for construction and barricade installations



The AV15 solar powered LED light is exceptional value, incorporating some of the most advanced technology available to provide up to a 4km visible range (flashing). The unit is suitable for a variety of applications including barricade lighting and general hazard marking, and is used by some of the world's largest mining companies to mark haul routes.

This compact light is designed to be completely maintenance-free and have a service life of over 5 years.

During daylight hours the solar module charges the battery and then on dusk the light automatically begins operation once the ambient light threshold drops sufficiently.

The AV15 features the LED 360° Reflector (US Pat. No. 6,667,582. AU Pat. No. 778,918) to maximize the intensity and uniformity of the horizontal light output. The tough polycarbonate lens is specifically designed for use with LEDs and incorporates an environment-friendly spike to deter unwelcome bird life.

The unit is sealed using an advanced ultrasonic weld, enabling a rugged and completely waterproof seal capable of continuous environmental exposure (IP68).

The AV15 is also available with an optional ON/OFF switch for temporary installations such as worksites.



"The solar powered LED lights are significantly better than the battery powered lights previously used due to better visibility."

Jerry Haskins,
**Managing Director,
Aus West Airlines,
Rio Tinto Mine Site WA**

SPECIFICATIONS •

Light Characteristics

Light Source 4 ultra-high intensity LEDs
 Available colours Red, Green, White, Yellow, Amber, Blue, Sectored Combinations
 Peak Intensity (cd)† Steady-on: Blue - 0.8 Red - 1.6 Green - 2.0 White - 1.8 Yellow - 1.6
 Flashing: Blue - 3.0 Red - 6.2 Green - 7.6 White - 6.8 Yellow - 5.9

Vertical Divergence (degrees) 9
 Reflector Type Omnidirectional 360° LED Reflector
 (US Pat. No. 6,667,582. AU Pat. No. 778,918)

Available Flash Characteristics 16, including steady-on
 Intensity Adjustments Adjustable in 25% increments
 LED Life Expectancy (hours) >100,000

Electrical Characteristics

Operating Voltage (V) 3.6
 Temperature Range -40 to 80°C

Solar Characteristics

Solar Module Type Multicrystalline
 Output (watts) 0.45
 Solar Module Efficiency (%) 14
 Charging Regulation Microprocessor controlled

Power Supply

Battery Type High grade NiMH - Environmentally friendly
 Battery Capacity (Ah) 1.6
 Nominal Voltage (V) 3.6
 Autonomy (nights) Steady-on: >14 (14 hour darkness)
 Flashing: >35 (14 hour darkness, 12.5% duty cycle)

Physical Characteristics

Body Material LEXAN® Polycarbonate - UV stabilized
 Lens Material LEXAN® Polycarbonate - UV stabilized
 Lens Diameter (mm/inches) 110 / 4 1/8
 Lens Design External optics with interior flute design
 Mounting 4 x 6mm mounting holes
 Height (mm/inches) 141 / 5 1/2
 Width (mm/inches) 136 / 5 3/8
 Mass (kg/lbs) 0.6 / 1 1/3
 Product Life Expectancy Up to 12 years

Certifications

CE EN61000-6-3:1997, EN61000-6-1:1997
 Quality Assurance ISO9001:2000
 Waterproof IP68

Intellectual Property

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

Warranty *

Options Available

- External ON/OFF switch (AV15-S)
- IR (AV15.IR)

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

