

Solar Aviation Light

AV-15



- Internal solar module
- Automatic night activation
- Lens and base moulded from UV-stabilised LEXAN® polycarbonate
- Internal user-adjustable flash settings
- Bird deterrent spike
- Single LED Optic
- Internal user-replaceable battery in sealed compartment

Features

Up to 3.5km (2.2 miles) visible range (flashing), up to 1.5km visible range (steady-on) - color dependant

Integrated solar/battery system

Completely sealed for an IP68 waterproof rating

User-replaceable NiMH battery for long service life & wide temperature range

User-adjustable flash rates, including steady-on

Applications

Solar Barricade Light

Solar Caution Light

Solar Hazard Light

Compliance

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



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

The AV-15 solar powered LED light is exceptional value, incorporating some of the most advanced technology available to provide up to a 3.5km (2.2 miles) 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.

The AV-15 can be installed in minutes and requires no operator intervention. The AV-15 has a rotary switch to allow users to change the flash rate of the light without the need for special tools or programmers. This compact light is designed to be completely maintenance-free and has a service life of over 5 years. The internally housed battery is user-replaceable after years of service.

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 AV-15 features Avlite's Single LED Optic which boasts exceptional power to light output efficiency. The tough outer polycarbonate lens incorporates an environment-friendly spike to deter unwelcome bird life.

Optional ON/OFF Switch

The AV-15 is also available with an optional ON/OFF switch for temporary installations such as work sites.



SPECIFICATIONS * AV-15

Light Characteristics

Light Source	1 LED
Available colors	Red, Green, White, Yellow, Amber, Blue
Peak Intensity (cd)†	Flashing: Blue - 3.0 Red - 6.2 Green - 7.6 White - 6.8 Yellow - 5.9
Vertical Divergence (degrees)	7
Reflector Type	Single LED Optic
Available Flash Characteristics	16 user-adjustable flash rates, including steady-on (other flash rates available on request)
Intensity Adjustments	32 automatic step-down settings based on power demand of flash code selection, from 100% at 10% duty cycle through 25% at fixed on >100,000

Electrical Characteristics

Operating Voltage (V)	3.6
Power (W)	0.26
Temperature Range	-40 to 80°C

Solar Characteristics

Solar Module Type	Multicrystalline
Output (watts)	0.45
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)	98 / 3 7/8
Lens Design	Single LED Optic
Mounting	4 x 6mm mounting holes
Height (mm/inches)	141 / 5 1/2
Width (mm/inches)	136 / 5 3/8
Mass (kg/lbs)	0.5 / 1 1/8
Product Life Expectancy	12 years plus

Environmental Factors

Humidity	0 to 100%, MIL-STD-810F
Icing	3.41kg per square cm / 48.5lbs per square inch
Wind Speed	Up to 160kph / 100mph
Shock	MIL-STD-202G, Test Condition G, Method 213B
Vibration	MIL-STD202G, Test Condition B, Method 204

Certifications

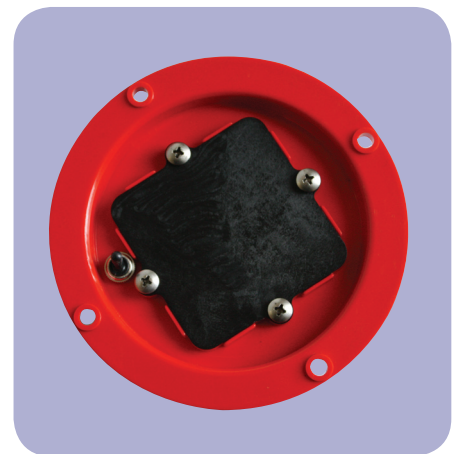
CE	EN61000-6-3:2007. EN61000-6-1:2007
Quality Assurance	ISO9001:2008
Waterproof	IP68

Intellectual Property

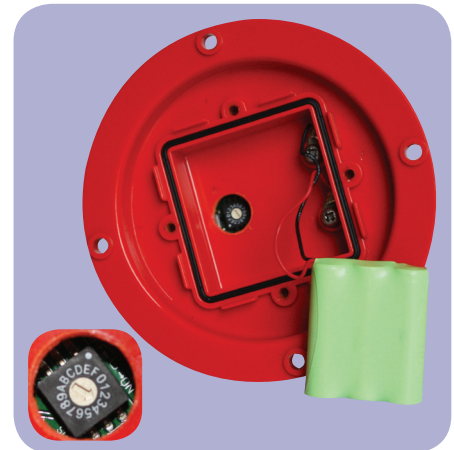
Patents	US Pat. No. 6,667,582. AU Pat. No. 778,918
Trademarks	AVLITE® is a registered trademark of Avlite Systems

Warranty *

Options Available	• External ON/OFF switch • IR LED
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AV-15 with optional ON/OFF switch




Flash characteristic is selected via internal rotary switch located in the battery compartment

User-Adjustable Flash Rates

FLASH RATE SETTING	Flash Sequence (on, off, on...)
0	STEADY-ON (intensity reduced)
1	0.5, 1.0
2	0.5, 3.5
3	1.0, 3.0
4	0.5, 5.5
5	0.3, 0.7
6	0.3, 0.7, 0.3, 0.7, 0.3, 0.7, 0.3, 15.7
7	0.3, 1.7
8	0.3, 2.2
9	0.5, 2.0
A	0.3, 2.7
B	0.5, 2.5
C	0.7, 2.3
D	0.5, 4.5
E	1.0, 4.0
F	Custom Setting

Other flash patterns are available on request

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

