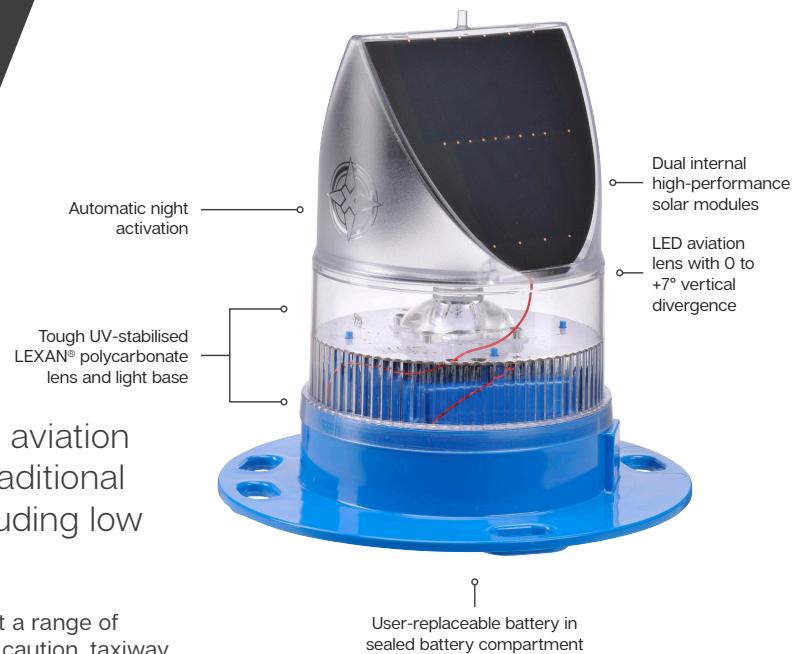
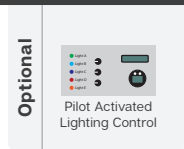


# Solar Aviation Light

AV-70, AV-70-HI and AV-70-RF



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.

## AV-70-RF

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 system
- Dusk-to-dawn or on demand operation

### Optional Add Ons

- Infrared Output
- Mounting Solutions

### Applications

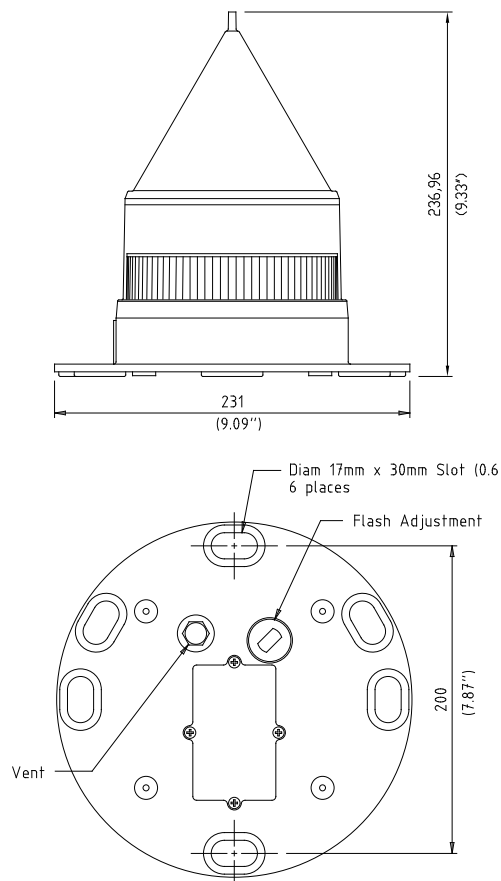
- ICAO and FAA Compliant
- Runway threshold/end
- Runway Edge Light
- Taxiway Edge Light

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## Technical Specifications \*\*

	AV-70	AV-70-HI	AV-70-RF
<b>Light Characteristics</b>			
Light Source	LED		
Available colours	Red, Green, White, Yellow, Blue		
Horizontal Output (degrees)	360		
Vertical Divergence (degrees)	0 to +7		
Peak Intensity Steady On (cd)	Red - 12 Green - 11 White - 13.9 Yellow - 8.6 Blue - 4.3	Red - 17.4 Green - 16 White - 20.1 Yellow - 13 Blue - 7.8	Red - 12 Green - 11 White - 13.9 Yellow - 8.6 Blue - 4.3
Intensity Adjustments	3 Steps - Low, Med, High †		
LED Life Expectancy (hours)	>100,000		
<b>Electrical Characteristics</b>			
Operating Voltage (V)	3.6		
Temperature Range	-40 to 80°C		
<b>Solar Characteristics</b>			
Solar Module Type	Monocrystalline		
Output (watts)	2.8 (2 x 1.4 watt)		
Solar Module Efficiency (%)	21		
Charging Regulation	Microprocessor controlled		
<b>Power Supply</b>			
Battery Type	High grade NiMH - Environmentally friendly		
Battery Capacity (Ah)	8.6 as stated (17.2 AH available)	17.2	8.6 as stated (17.2 AH available)
Nominal Voltage (V)	3.6		
Autonomy (nights)	Steady-on: >14	Steady-on: >19	Steady-on: >14
<b>Radio Control</b>			
Frequency	-	-	2.4GHz ISM Band
Range	-	-	Up to 1.4km relayed
Expandability	-	-	AvMesh®
Compliance	-	-	FCC / CE
<b>Physical Characteristics</b>			
Body Material	LEXAN® Polycarbonate – UV stabilized		
Lens Material	LEXAN® Polycarbonate – UV stabilized		
Lens Diameter (mm/inches)	140 / 5½		
Lens Design	Single LED optic		
Mounting	6 x 17mm holes on 200mm PCD		
Height (mm/inches)	240 / 9½		
Width (mm/inches)	231 / 7¼		
Mass (kg/lbs)	1.4 / 3¼	1.6 / 3½	1.4 / 3¼
Product Life Expectancy	Up to 12 years		
<b>Environmental Factors</b>			
Humidity	0 to 100%, MIL-STD-810F		
Icing	3.41kg per square cm / 48.5lbs per square inch		
Wind Speed	Up to 160kph		
Shock	MIL-STD-202G, Test Condition G, Method 213B		
Vibration	MIL-STD202G, Test Condition B, Method 204		
<b>Certifications</b>			
CE	EN61000-6-3:2007 EN61000-6-1:2007		
Quality Assurance	ISO9001:2015		
Waterproof	IP68		
<b>Compliance</b>			
ICAO	Annex. 14 Volume 1 'Aerodrome Design and Operations', Taxiway Edge		
FAA	L861T		
	Barricade AC 150/5370-2F		
	LED Colour Standard (Engineering Brief No. 67D)		
Other regulations	-	CASA MOS Part 139, Volume 2, 2016, Section 9.13.15	-
	DGAC (Mexico)		
<b>Intellectual Property</b>			
Trademarks	AVLITE® is a registered trademark of Avlite Systems Patents Pending		
Warranty *	3 year warranty - Manual Operation - Avlite Pilot Activated Lighting Control - IR LEDs		
Options Available	- External ON/OFF Switch - External Battery Charging Port - Solar Booster™		

## Technical Illustration



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