



**Flight Light Inc.**  
 2708 47th Ave.  
 Sacramento, California, U.S.A.  
 95822-3806

**PH (916) 394-2800    FX (916) 394-2809**  
**TF (800) 806-3548    EM info@flightlight.com**

**AV70**  
**Solar Aviation Light**  
**Avlite**

**Compliance**

- FAA AC150/5370-2F for construction and barricade installations
- ICAO Annex 14 Volume 1, 'Aerodrome Design and Operations', Fourth edition July 2004, paragraph 5.3.17.7.

**Typical Applications**

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

**Major Benefits**

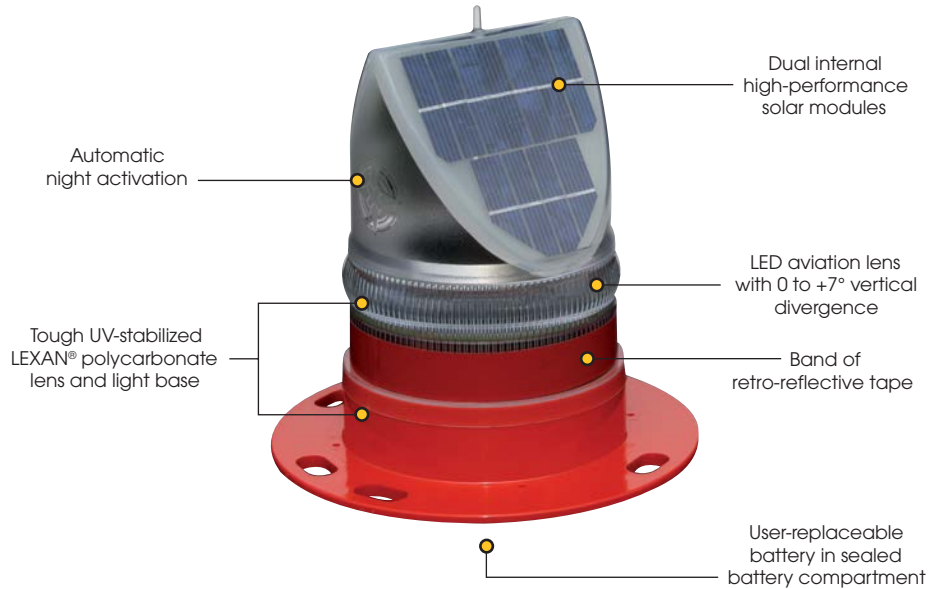
- Integrated solar/battery system
- Dual internal high-performance solar modules angled to maximize solar collection
- Fast and easy to deploy – no programming
- IP68 waterproof rating
- User-replaceable battery
- Ultra-high-intensity LEDs (no changing globes ever)

The solar powered AV70 aviation light 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 AV70 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 AV70 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.

**AV70-HI**

The AV70-HI is a high intensity version of the popular AV70 and is ideal for

use in high sunlight areas that receive a minimum of 3.5 hours of sun per day.

**Optional Radio Control (AV70-RF)**

The AV70-RF is a radio-controlled version of the popular AV70, which can be used in conjunction with a PALC or simple handheld controller. Users can wirelessly control ON/OFF functions, adjust light intensities, change colors or switch between visual and IR (tactical) operational modes.



**Visit our web site: [www.flightlight.com](http://www.flightlight.com)**



**Flight Light Inc.**  
 2708 47th Ave.  
 Sacramento, California, U.S.A.  
 95822-3806

**PH (916) 394-2800**  
**TF (800) 806-3548**

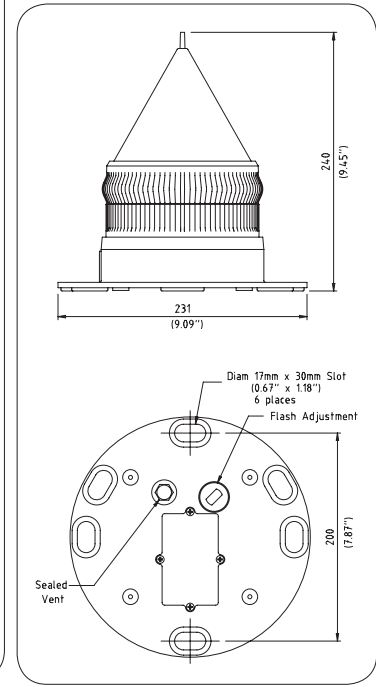
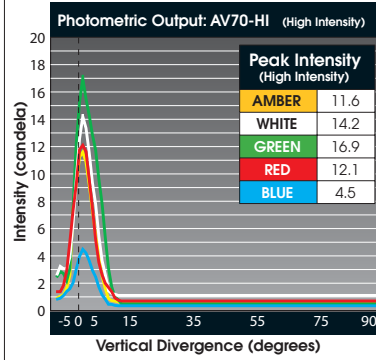
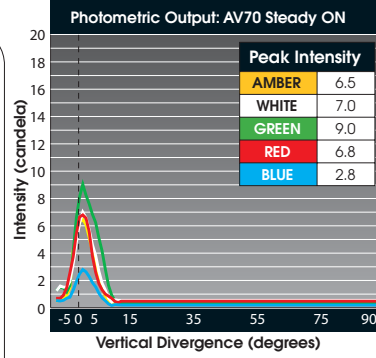
**FX (916) 394-2809**  
**EM info@flightlight.com**

**AV70**  
**Solar Aviation Light**  
**Avlite**

**SPECIFICATIONS •**

	<b>AV70</b>	<b>AV70-HI</b>
<b>Light Characteristics</b>		
Light Source	12 ultra-high-intensity LEDs	12 ultra-high-intensity LEDs
Available colors	Red, Green, White, Amber, Blue, Sectored Combinations	Red, Green, White, Amber, Blue, Sectored Combinations
Peak Intensity (cd)†	Steady-on: Blue - 2.8 Red - 6.8 Green - 9.0 White - 7.0 Amber - 6.5 Flashing: Blue - 5.5 Red - 18.2 Green - 21.9 White - 19.1 Amber - 15.1	Steady-on: Blue - 4.5 Red - 12.1 Green - 16.9 White - 14.2 Amber - 11.6 Flashing: Not available
Horizontal Output (degrees)	360	360
Vertical Divergence (degrees)	0 to +7	0 to +7
Reflector Type	Omnidirectional 360° LED Reflector (US Pat. No. 6,667,582, AU Pat. No. 778,918)	Omnidirectional 360° LED Reflector (US Pat. No. 6,667,582, AU Pat. No. 778,918)
Available Flash Characteristics	>250 including steady-on (user-adjustable)	Not available
Intensity Adjustments	Adjustable in 25% increments	Adjustable in 25% increments
LED Life Expectancy (hours)	>100,000	>100,000
<b>Electrical Characteristics</b>		
Operating Voltage (v)	3.6	3.6
Temperature Range	-40 to 80°C	-40 to 80°C
<b>Solar Characteristics</b>		
Solar Module Type	Multicrystalline	Multicrystalline
Output (watts)	2.5 (2 x 1.25watt)	2.5 (2 x 1.25watt)
Solar Module Efficiency (%)	14	14
Charging Regulation	Microprocessor controlled	Microprocessor controlled
<b>Power Supply</b>		
Battery Type	High grade NIMH – Environmentally friendly	High grade NIMH – Environmentally friendly
Battery Capacity (Ah)	8	16
Normal Voltage (v)	3.6	3.6
Autonomy (nights)	Steady-on: >14 Flashing: >38 (14 hour darkness, 12.5% duty cycle)	Steady-on: >19 Flashing: Not available
<b>Radio Controlled (optional)</b>		
Frequency	2.4Ghz ISM Band	2.4Ghz ISM Band
Range	1.4km between 2 lights, relayed	1.4km between 2 lights, relayed
Expandability	Peer to Peer Networking	Peer to Peer Networking
Compliance	FCC / CE	FCC / CE
<b>Physical Characteristics</b>		
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 / 5½	140 / 5½
Lens Design	External optics with interior flute design	External optics with interior flute design
Mounting	6 x 17mm holes on 200mm PCD	6 x 17mm holes on 200mm PCD
Height (mm/inches)	240 / 9½	240 / 9½
Width (mm/inches)	231 / 9 1/8	231 / 9 1/8
Mass (kg/lbs)	1.1 / 2 3/8	1.41 / 3 1/8
Product Life Expectancy	Up to 12 years	Up to 12 years
<b>Environmental Factors</b>		
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
<b>Certifications</b>		
CE	EN61000-6-3:1997, EN61000-6-1:1997	EN61000-6-3:1997, EN61000-6-1:1997
Quality Assurance	ISO9001:2008	ISO9001:2008
Waterproof	IP68	IP68
<b>Intellectual Property</b>		
Patents	US Pat. No. 6,667,582, AU Pat. No. 778,918	US Pat. No. 6,667,582, AU Pat. No. 778,918
Trademarks	AVLITE® is a registered trademark of Avlite Systems	AVLITE® is a registered trademark of Avlite Systems
<b>Warranty * Options Available</b>		
	<ul style="list-style-type: none"> <li>• RF Flash Synchronisation (AV70-CS)</li> <li>• Avlite Pilot Activated Lighting Control</li> <li>• Radio Controlled – FCC compliant</li> <li>• IR (AV70-IR)</li> <li>• External ON/OFF Switch (AV70-S)</li> <li>• External Battery Charging Port</li> <li>• Manual Operation</li> </ul>	<ul style="list-style-type: none"> <li>• RF Flash Synchronisation (AV70-CS)</li> <li>• Avlite Pilot Activated Lighting Control</li> <li>• Radio Controlled – FCC compliant</li> <li>• IR (AV70-IR)</li> <li>• External ON/OFF Switch (AV70-HI-S)</li> <li>• External Battery Charging Port</li> <li>• Manual Operation</li> </ul>

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



**Visit our web site: [www.flightlight.com](http://www.flightlight.com)**