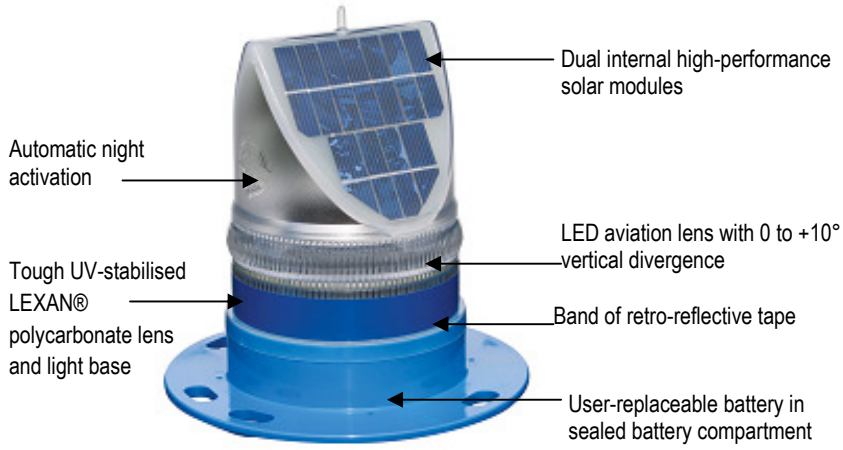
AV70 Solar Aviation Light

Typical Applications

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

More Benefits

- ►3.7km visible range (flashing)
- ►Integrated solar/battery system
- ►Dual internal high-performance solar modules angled to maximise solar collection
- ►IP68 Waterproof Rating
- ►User-Replaceable Battery
- ►ICAO Compliant AV70 Solar
- ►Taxiway Light
- ►Ultra-high Intensity LEDs (no changing globes—ever)



The solar powered AV70 airfield light offers enormous benefits over traditional battery and hard-wired airfield lights including low maintenance and no underground wiring.

These completely self-contained LED lights can be installed in minutes and 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 maximise 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 +10 degrees, and the user-replaceable battery ensures a service life of up to 12 years.

The AV70 is made from tough, durable UV stabilised LEXAN® polycarbonate, and incorporates an internal photodiode for automatic night activation once the ambient light threshold drops sufficiently.

The AV70 solar light meets the requirements of ICAO Annex 14 Vol. 1 “Aerodrome Design and Operations” First Edition July 2004, paragraph 5.3.17.7.

The AV70 is the preferred choice for remote airfields throughout the world.

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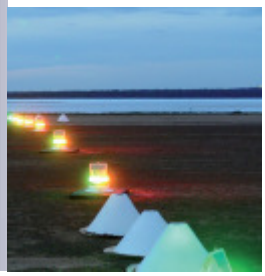
Total Turnkey Airport Solutions

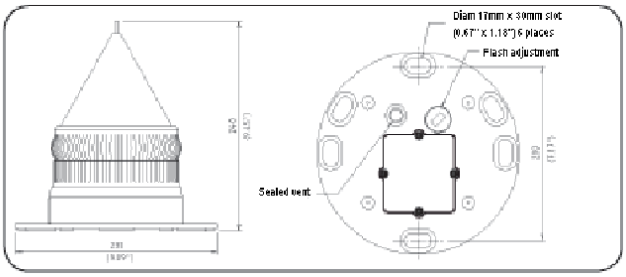


AV70-CS
Optional Internal RF module enables remote control of lantern and flash synchronisation when all lights are set to the same flash characteristics.

AV70 Solar Aviation Light

SPECIFICATIONS

Light Characteristics	Light Source	12 ultra-high intensity LEDs
	Available Colours	Red, Green, White, Yellow, Amber, Blue, Sectored Combinations
	Peak Intensity	>12 flashing, >5 fixed-on (colour dependent)
	Horizontal Output (degrees)	360
	Vertical Divergence (degrees)	0 to 10
	Reflector Type	Omni-directional 360˚ LED Reflector (US Pat. No. 6.667,582. AU Pat. No. 778,918)
	Available flash characteristics	>250 including fixed-on (user-adjustable)
	Intensity Adjustments	Adjustable in 25% increments
	LED Life Expectancy (hours)	>100,000
Electrical Characteristics	Operating Voltage (v)	3.6
	Autonomy (days)	>20 (14 hour darkness, 12.5% duty cycle)
	Temperature Range	-40 to 80˚C
Solar Characteristics	Solar Module Type	Multicrystalline
	Output (watts)	2.5 (2 x 1.25 watt)
	Solar Module Efficiency (%)	14
	Charging Regulation	Microprocessor controlled
Power Supply	Battery Type	High grade NiMH—Environment friendly
	Battery Capacity (Ah)	8
	Nominal Voltage (v)	3.6
RF Synchronisation (optional)	Frequency	2.5Ghz
	Range	1.5km between 2 lights, relayed
	Expandability	Peer to Peer Networking
	Approvals	FCC/CE
Physical Characteristics	Body Material	LEXAN® Polycarbonate—UV stabilised
	Lens Material	LEXAN® Polycarbonate—UV stabilised
	Lens Diameter (mm/inches)	140 / 5½
	Lens Design	External optics with interior flute design
	Mounting	6 x 17mm holes on 200mm PCD
	Height (mm/inches)	240 / 9 ½
	Width (mm/inches)	231 / 9 ⅛
	Mass (kg/lbs)	1.1 / 2 ⅜
	Product Life Expectancy	Up to 12 years
Certification	CE	EN61000-6-3:1977. EN61000-6-1:1997
	Quality Assurance	ISO 9001:2000
	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



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