

# AV72 Radio-controlled Solar Aviation Light

## Features

- 2.4Ghz worldwide accepted radio control
- 128bit security encryption
- NGV compatible using IR LEDs
- 3-step intensity adjustment
- High capacity replaceable battery pack
- Made from tough, durable polycarbonate
- Twin internal solar panels for enhanced charging

## Compliance

- ICAO Annex 14 Volume 1, 'Aerodrome Design and Operations', Forth edition July 2004, paragraph 5.3.17.7
- FAA AC5345-46D L861T (High Intensity Mode)
- FAA AC5345-50B L863 (High Intensity Mode)
- CASA Manual of Standards Part 139 paragraph 9.13.15.1 and 9.13.15.3 Section 9.2.2.1 (High Intensity Mode)



Encrypted 2.4GHz radio control

Twin internal high-performance solar modules

Internal RF module & antenna

Tough UV-stabilised LEXAN® polycarbonate lens and light base

LED aviation lens with 0 to +10° vertical divergence

Band of retro-reflective tape



**The AV72 is a self-contained solar powered omni-directional aviation light with encrypted 2.4 GHz radio control. The AV72 solar-powered LED airfield light has an internal RF module and antenna to receive encrypted command messages from the handheld controller.**

The units provide NVG compatible visible and infrared LED outputs for portable, permanent or sustained operations. Lights can be controlled from a secure world-wide compatible 2.4 GHz RF link from the ATC tower from the aircraft (via ALSCU with an encrypted VHF radio link) or set for dusk-dawn automatic operation.

The radio system uses a mesh network to expand the working range indefinitely.

Lights can be assigned to a light group (up to 15 distinct groups) to allow individual control of separate light groups (runways, helipads, taxiways, obstruction) within an airfield or for multi faceted covert and overt operations.

The AV72 has 3 radio-controlled intensity settings, and can be set from dusk-till-dawn, medium intensity, or temporary-high mode for tactical operations. When set to temporary-high the light complies with L861T photometrics.

The AV72 offers enormous benefits over traditional battery and hard-wired airfield lights including low maintenance and no underground cabling.

The unit has twin high-performance solar modules mounted within the lens, which maximize solar collection and provide reliable operation in a range of environmental conditions.

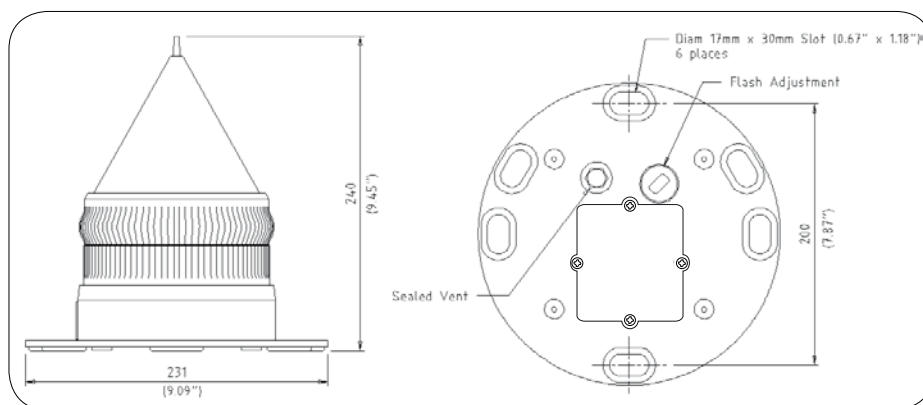
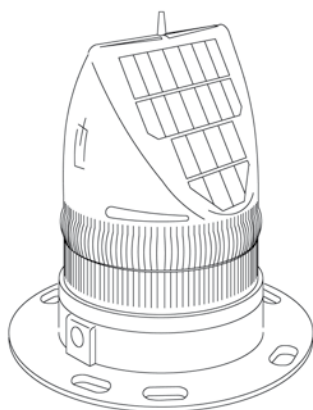
The model will operate maintenance-free for many years, and has been tried and tested in some of the world's most demanding regions including Iraq, Afghanistan, and the Australian Outback.



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### SPECIFICATIONS •

#### Light Characteristics

Light Source  
Available Colors  
Horizontal Output (degrees)  
Vertical Divergence (degrees)  
Reflector Type  
Available Flash Characteristics  
Intensity Adjustments  
LED Life Expectancy (hours)

12 visible ultra-high intensity LEDs and 6 infrared LEDs  
Blue, Red, Green, White, Amber, Sectored Combinations  
360  
0 to + 10  
Omnidirectional 360° LED Reflector (US Pat. No. 6,667,582. AU Pat. No. 778,918)  
>250 including fixed-on (user-adjustable)  
Adjustable in 25% increments  
>100,000

#### Electrical Characteristics

Operating Voltage (v)  
Autonomy (nights)  
Temperature Range

3.6  
>20 Low intensity steady-on dusk-fill-down mode  
-40 to 80°C

#### Solar Characteristics

Solar Module Type  
Output (watts)  
Solar Module Efficiency (%)  
Charging Regulation

Multicrystalline  
2.5 (2 x 1.25watt)  
14  
Microprocessor controlled

#### Power Supply

Battery Type  
Battery Capacity (Ah)  
Nominal Voltage (v)

High grade NIMH - Environment friendly  
16  
3.6

#### RF Synchronisation

Frequency  
Range  
Expandability  
Approvals

2.4Ghz 15m band  
1.4km between 2 lights, relayed  
Peer to Peer Networking  
FCC / CE

#### Physical Characteristics

Body Material  
Lens Material  
Lens Diameter (mm/inches)  
Lens Design  
Mounting  
Height (mm/inches)  
Width (mm/inches)  
Mass (kg/lbs)  
Product Life Expectancy

LEXAN® Polycarbonate - UV stabilized  
LEXAN® Polycarbonate - UV stabilized  
140 / 5½  
External optics with interior flute design  
6 x 17mm holes on 200mm PCD  
240 / 9½  
231 / 9¼  
1.65kg / 3lbs 10oz  
Up to 12 years

#### Certifications

CE  
Quality Assurance  
Waterproof

EN61000-6-3:1997. EN61000-6-1:1997  
ISO9001:2000  
IP68

#### Intellectual Property

Patents  
Trademarks

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

#### Warranty \*

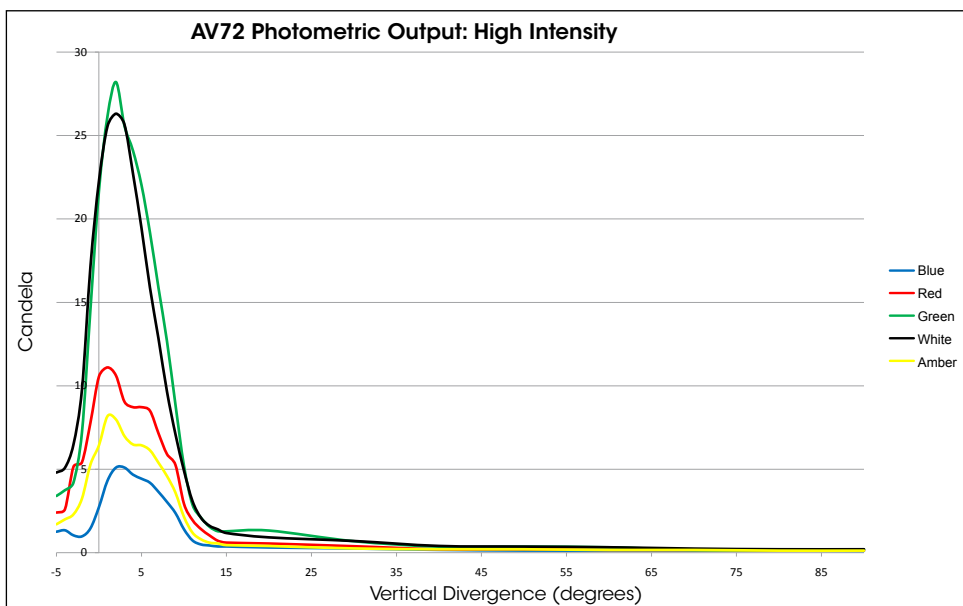
3 years



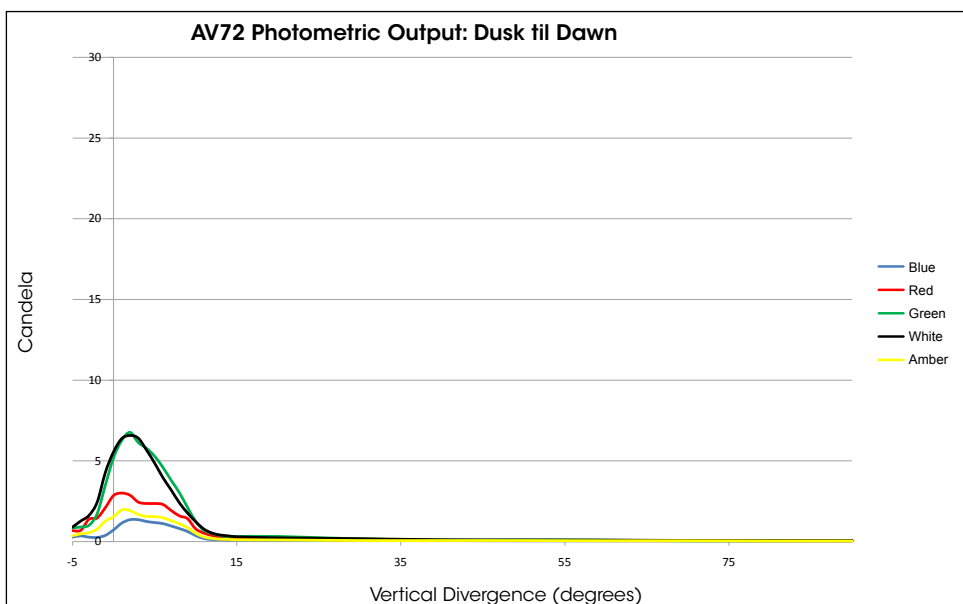
• Specifications subject to change or variation without notice  
\* Subject to standard terms and conditions



### Photometrics



Peak Intensity (High Intensity)	
BLUE	5.1
RED	11.1
GREEN	28.2
WHITE	26.3
AMBER	8.18



Peak Intensity (Dusk till dawn)	
BLUE	2.1
RED	3.16
GREEN	6.98
WHITE	6.82
AMBER	3.14

### Testimonials

"I would recommend that you consider Avlite as a possible source for your lighting needs. I have had outstanding success using many of their lighting systems. Their factory representatives have been available 24/7 for any lighting problems that needed solving. I have responsibilities for maintaining four army airfields. You can not go wrong in using them! Also, on a more important note, Avlite is a better light, is less expensive, the shipping is less, and most importantly, Avlite ensures they get here when they say they will...It will make your airfield maintenance life a lot easier."

**Airfield Safety Officer, Speicher AAF, US Army, Iraq**

"I also wanted to let you know I took a tour out to the ramp where the lights are being installed, and I got a lot of positive feedback! The project OIC said that they had no trouble installing them, and the whole area looks great at night! He also said that some of the end users were impressed as well. We appreciate getting such a strong product especially with the great support that came along with it."

**SrA, USAF, Contracting Officer, Afghanistan**

