Radio Controlled Solar Aviation Light

Tough UV-stabilised LEXAN® polycarbonate lens and light base

with Tactical IR Mode & 128bit Encryption AV-72-RF

Features

- 2.4GHz worldwide accepted radio control
- · 128bit security encryption
- Switchable between visual & tactical IR mode
- · 3-step intensity adjustment
- High capacity replaceable battery pack
- Made from tough, durable LEXAN® polycarbonate
- Dual internal solar panels for enhanced charging

Typical Applications

- Solar Barricade Light
- Solar Taxiway Light (ICAO)
- Solar Threshold Light

Compliance

- ICAO Annex 14 Volume 1, 'Aerodrome Design and Operations',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)



LED aviation lens with 0 to +7° vertical divergence

The AV-72-RF is a self-contained solar powered omni-directional aviation light with tactical IR mode, 128bit encryption and encrypted 2.4 GHz radio control. The AV-72-RF solar powered LED airfield light has an internal RF module and antenna to receive encrypted command messages from the handheld radio 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 a VHF radio link) or set for dusk-till-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 AV-72-RF 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 AV-72-RF 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.











Avlite Systems AUSTRALIA t: +61 (0)3 5977 6128

USA t: +1 (603) 737 1310 w: www.avlite.com e: info@avlite.com









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with Tactical IR Mode & 128bit Encryption AV-72-RF

SPECIFICATIONS**

ight Characteristics

Light Source Available colors Peak Intensity (cd)†

Horizontal Output (degrees) Vertical Divergence (degrees) Reflector Type

Available Flash Characteristics Intensity Adjustments LED Life Expectancy (hours)

Electrical Characteristics

Operating Voltage (V) Temperature Range

Solar Characteristics

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

Charging Regulation

Power Supply

Battery Type Battery Capacity (Ah) Nominal Voltage (V) Autonomy (nights)

RF Flash Synchronisation

Frequency Range Expandability Compliance

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

Environmental Factors

Icina Wind Speed Shock Vibration Certifications

Quality Assurance Waterproof

Intellectual Property

Trademarks Warranty *

Options Available

AV-72-RF

12 visible ultra-high intensity LEDs and 6 infrared LEDs

Red, Green, White, Yellow, Amber, Blue

Steady-on (low intensity): Blue - 2.8 Red - 6.8 Green - 9.0 White - 7.0

Flashing: Blue - 5.5 Red - 18.2 Green - 21.9 White - 19.1 Yellow - 15.1 360

0 to +7

Omnidirectional 360° LED Reflector

(US Pat. No. 6,667,582. AU Pat. No. 778,918)

>250 including steady-on (user-adjustable) Adjustable LOW / MEDIUM / HIGH

>100 000

3.6

-40 to 80°C

Multicrystalline 2.5 (2 x 1.25watt)

Microprocessor controlled

High grade NiMH - Environmentally friendly

16 3.6

Steady-on: >20 Low intensity dusk-till-dawn mode

2.4GHz ISM Band

Up to 1.4km relayed

AvMesh® FCC / CE

LEXAN® Polycarbonate - UV stabilized

LEXAN® Polycarbonate - UV stabilized

140 / 51/2

External optics with interior flute design

6 x 17mm holes on 200mm PCD

240 / 91/2 231 / 91/8

 $1.7 / 3^3/4$

Up to 12 years

0 to 100%, MIL-STD-810F

22ka per sauare inch Up to 160kph

MIL-STD-202G, Test Condition G, Method 213B

MIL-STD202G, Test Condition B, Method 204

EN61000-6-3:1997. EN61000-6-1:1997

ISO9001:2008

IP68

US Pat. No. 6,667,582. AU Pat. No. 778,918

AVLITE® is a registered trademark of Avlite Systems

3 year warranty

Avlite Pilot Activated Lighting Control

· IR LEDs

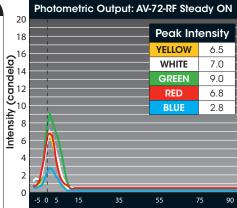
External ON/OFF Switch

• External Battery Charging Port

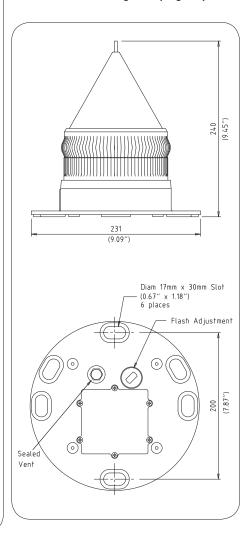
Manual Operation

Sectored Combinations
Solar Booster™

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



Vertical Divergence (degrees)







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