

AV420-RF Radio-Controlled Solar Airfield Light

Features

- ▶ Integrated solar/battery system
- ▶ 4 x 5 watt solar modules
- ▶ 20Ah SLA battery (user-replaceable)
- ▶ IP68 water and dust proof
- ▶ Global 2.4GHz radio control
- ▶ Rugged all aluminium chassis construction
- ▶ Up to 3 year product warranty
- ▶ Optional dual mode visible/IR output

Compliance

- ▶ ICAO Annex 14 Volume 1, Aerodrome Design and Operations, Fourth Edition July 2004.
- ▶ Runway Edge—paragraph 5.3.9 Runway edge light—non-precision
- ▶ Threshold—paragraph 5.3.4.1 A & B, 5.3.4.8. for use as non-instrument or non-precision simple approach lighting system
- ▶ Obstruction—paragraph 6.3.11 for use as low-intensity Type A obstacle light

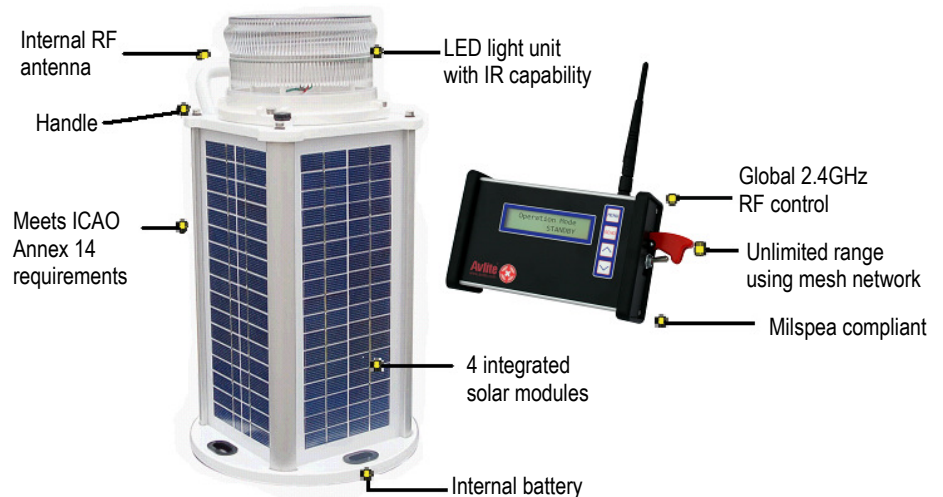
Applications

- ▶ Runway Edge
- ▶ Helipad Edge
- ▶ Threshold
- ▶ Approach (Strobe and Fixed) Obstruction

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Total Turnkey Airport Solutions



The AV420-RF is a robust, completely self-contained remote-controlled LED light designed for a range of aviation applications including runway, threshold and approach lighting. When set up as a complete airfield, this fully functioning lighting system can be controlled from the tower with no costly cabling or trenching required.

In addition, the AV420-RF system has no other infrastructure, special equipment or expertise requirements for installation. Lower capital and zero maintenance costs are also amongst the major benefits of the AV420-RF lighting system.

The AV420 Solar Runway Edge Light is ICAO compliant for use in aerodromes with either extraneous lighting (50cd), or without extraneous lighting (25cd), and is capable of creating a temporary portable or permanent 24 hour airfield.

The tough polycarbonate lens is specifically designed for use with LEDs and the patented internal 360° Omnidirectional LED Reflector ensures consistency of light output and intensity. The sectored approach light directs all the light output to 180 degrees.

The unit is designed to offer years of maintenance-free, reliable service in the world's harshest environments.

Radio Control

The AV420-RF enables users to directly control the operation of single or groups of airfield lights via a 2.4GHz handheld transceiver or PC Interface.

- ▶ Control groups of lights independently
- ▶ Activate and deactivate lights
- ▶ Change light colours remotely
- ▶ Switch between infrared and visible light
- ▶ Set lights to group flash synchronisation



AV420-RF Radio-Controlled Solar Airfield Light

Light Characteristics

Light Source	36 ultra-high intensity LEDs (18 LEDs in the 180° approach light)
Available colours	Red, Green, White, Yellow, Amber, Blue, sectored combinations
High Intensity (temporary)	125cd (white)
Medium Intensity (temporary)	50cd
Standard Intensity (cd)	>25cd
Horizontal Output (degrees)	360
Vertical Divergence (degrees)	0 to +15
Reflector Type	Omni-directional 360° LED Reflector (US Pat.No.6,667,582. AU Pat.No.778,918)
Available Flash characteristics	Fixed-on as standard (>250 available (user adjustable))
Intensity Adjustments	Adjustable in 25% increments
LED Life expectancy (hours)	>100,000

Electrical Characteristics

Circuit Protection	Integrated
Operating Voltage (v)	12
Autonomy	200 hours at standard intensity
Temperature Range	-40 to 80°C

Solar Characteristics

Solar Module Type	Multicrystalline
Output (watts)	20 (4 x 5 watt)
Solar Module Efficiency (%)	14
Charging Regulation	Regulator controlled

Power Supply

Battery Type	SLA (Sealed Lead Acid)
Battery Capacity (Ah)	20
Nominal Voltage (v)	12

Physical Characteristics

Body Material	7-stage powder-coated aluminium
Lens Material	LEXAN® Polycarbonate – UV stabilised
Lens Diameter (mm/inches)	150 / 5 7/8
Lens Design	External optics with interior flute design
Mounting	4 x 17mm holes on 200mm PCD
Height (mm/inches)	450 / 17 3/4
Width (mm/inches)	2245 / 9 2/3
Mass (kg/lbs)	10.8 / 23 3/4
Product Life Expectancy	Up to 12 years

Certifications

CE	
Quality Assurance	EN61000-6-3:1997. EN61000-6-1:1997
Waterproof	ISO9001:2000 IP68

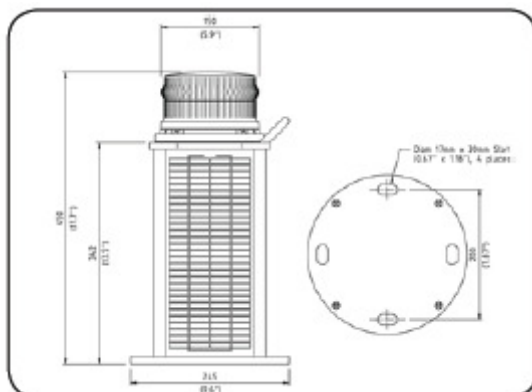
Warranty

Full 3 year Warranty

Options

IR

- Specifications subject to change or variation without notice



Convenient user-replaceable battery

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