

# AV420-RC Radio-Controlled Solar Airfield Light

The AV420 Solar Runway Edge Light meets the requirements of ICAO Annex 14 Volume 1, "Aerodrome Design and Operations", 4th edition July 2004. Runway Edge - para. 5.3.9 runway edge light - non-precision Threshold - para. 5.3.10, 5.3.11 threshold light or end light

Approach - para. 5.3.4.1A & B, 5.3.4.8 for use as non-instrument or non-precision simple approach lighting system

Obstruction - para. 6.3.11 for use as low-intensity Type A or Type B obstacle light

## Applications

- Runway Edge
- Helipad Edge
- Threshold
- Approach (Strobe & Fixed)
- Obstruction

## Major Features

- Integrated solar/battery system
- 4 x 4watt solar modules
- 20Ah SLA battery (user-replaceable)
- IP68 water and dust proof
- Global 2.4GHz radio control
- Rugged all aluminium chassis construction
- Full 3 year 100% product warranty
- Optional dual mode visible/infrared output
- Optional GSM remote monitoring and pilot activation



**Avlite Systems' AV420-RC 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-RC 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 Avlite's AV420-RC 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 24hr 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

Avlite Systems' AV420-RC enables users to directly control the operation of singular or groups of airfield lights via a 2.4GHz handheld transceiver or PC interface.

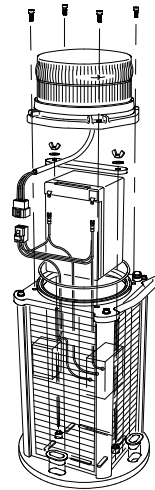
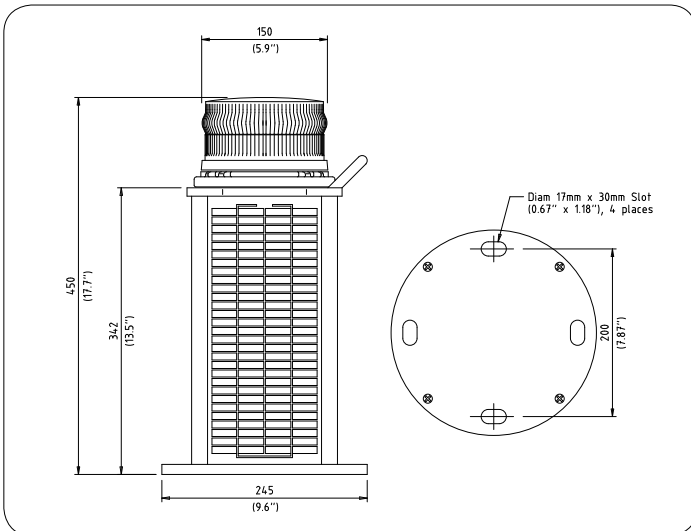
- Control groups of lights independently
- Activate and deactivate lights
- Change light colours remotely
- Switch between infrared and visible light
- Set lights to group flash synchronisation



## AVLITE SYSTEMS

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Convenient user-replaceable battery

## SPECIFICATIONS •

### Light Characteristics

Light Source	36 ultra-high intensity LEDs (18 LEDs in the 180 degree 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	Omnidirectional 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)	16 (4 x 4watt)
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 aluminum
Lens Material	LEXAN® Polycarbonate - UV stabilized
Lens Diameter (mm/inches)	150 / 5 <sup>7</sup> / <sub>8</sub>
Lens Design	External optics with interior flute design
Mounting	4 x 17mm holes on 200mm PCD
Height (mm/inches)	450 / 17 <sup>3</sup> / <sub>4</sub>
Width (mm/inches)	245 / 9 <sup>2</sup> / <sub>3</sub>
Mass (kg/lbs)	10.8 / 23 <sup>3</sup> / <sub>4</sub>
Product Life Expectancy	Up to 12 years

### Certifications

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

### Intellectual Property

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

### Warranty

Full 3 year warranty

### Options Available

- IR
- Pilot activated
- GSM monitoring

CE

• Specifications subject to change or variation without notice