Solar Aviation Light

AV-70, AV-70-HI and AV-70-RF



Automatic night activation

Tough UV-stabilised LEXAN® polycarbonate lens and light base

Dual internal high-performance solar modules

LED aviation lens with 0 to +7° vertical divergence

User-replaceable battery in sealed battery compartment

The solar powered AV-70 is a field proven aviation light that offers enormous benefits over traditional battery and hard-wired aviation lights including low maintenance and no underground wiring.

These completely self-contained LED lights 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 maximize 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 to +7 degrees, and the user-replaceable battery ensures a service life of up to 12 years.

AV-70

The AV-70 is made from tough, durable UV stabilized LEXAN® polycarbonate, and incorporates an internal photodiode for automatic night activation once the ambient light threshold drops sufficiently.

Completely self-contained and able to be installed in minutes, the AV-70 is the preferred choice for marking of indigenous, regional and mining airstrips around Australia, and remote airfields globally.

AV-70-HI

The AV-70-HI is a high intensity version of the popular AV-70 and is ideal for use in high sunlight areas.

AV-70-RF

The AV-70-RF is a radio-controlled version of the popular AV-70, which can be used in conjunction with a PALC or simple handheld controller. Users can wirelessly control ON/OFF functions, adjust light intensities or switch between visual and IR (tactical) operational modes if fitted.

S Cost Effective

- Solar Powered
- No running costs
- Low ongoing maintenance costs

🐲 Easy Install

- No trenching of cables
- No mains power



- No bulbs blown ever
- Latest LED technology
- No Moving parts

High Performance

- Fully integratable into an Avlite runway system
- Dusk-to-dawn or on demand operation

(E) Optional Add Ons

- Infrared Output
- Mounting Solutions

(*) Applications

- ICAO and FAA Compliant
- Runway threshold/end
- Runway Edge Light
- Taxiway Edge Light







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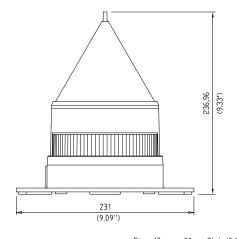


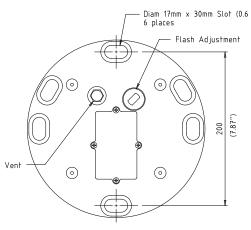


Technical Specifications **

Light Source		AV-70	AV-70-HI	AV-70-RF	
Available colours Available Availab	Light Characteristics				
Nortical Dutput (degreed) 350 Vertical Divergione (degreed) 1	Light Source	LED			
Vertical Divergence (degrees)	Available colours	Red, Green, White, Yellow, Blue			
Peak Intensity Steady On (cd)	Horizontal Output (degrees)	360			
Peak Intensity Steady On (cd)	Vertical Divergence (degrees)	0 to +7			
Peak Intensity Steady On (cd)					
Vellow - 8.6 Blue - 7.3 Blue - 7.8 B	Peak Intensity Steady On (cd)				
Intensity Adjustments	reak interiorsy decady on (od)	Yellow - 8.6	Yellow - 13	Yellow - 8.6	
LED Life Expectancy (hours)		Blue - 4.3	Blue - 7.8	Blue - 4.3	
Committed Characteristics	Intensity Adjustments		3 Steps - Low, Med, High †		
Section	LED Life Expectancy (hours)	>100,000			
Temperature Range 3-40 to 80°C					
Solar Characteristics		***			
Solar Module Type Monocrystalline Output (watta) 2.8 (2 x 14 watt) Solar Module Efficiency (%) 21 Charging Regulation Microprocessor controlled Power Supply High grade NMH Battery Type High grade NMH Battery Capacity (Ah) (72 AH available) Nominal Voltage (V) 3.6 Autonomy (nights) Steady-on:>14 Steady-on:>19 Steady-on:>14 Radio Control - 2.4GHz ISM Band Prequency - 2.4GHz ISM Band Range - - 1.0 1.4km relayed Expandability - - 2.4GHz ISM Band Range - - - 2.4GHz ISM Band Prequency - - 2.4GHz ISM Band Range - - - 2.4GHz ISM Band Prequency - - 2.4GHz ISM Band Compliance - - - 2.4GHz ISM Band Prequency - - 2.4GHz ISM Band Lens Datester (market - - - <t< th=""><th></th><td></td><td>-40 to 80°C</td><td></td></t<>			-40 to 80°C		
2.8 2.x 1.4 watt)					
Solar Module Efficiency (%)					
Microprocessor controlled	-				
Battery Type	• • •				
Battery Type		wild optocessor controlled			
Battery Capacity (Ah)			High grade NiMH		
Mare March	Battery Type				
Nominal Voltage (V) Steady-on: >14	Battery Capacity (Ah)		17.2		
Autonomy (nighta) Steady-on: >14 Steady-on: >19 Steady-on: >14 Steady-on: >19 Steady-on: >14 Steady-on: >19 Steady-on: >14 Steady-on: >14 Steady-on: >14 Steady-on: >15 Steady-on: >14 S	Nominal Voltage (V)	(17.2 AH available)	36	(17.2 AH available)	
Radio Control	3 . ,	Steady-on: >14	1	Steady-on: >14	
Frequency		Oteday on. 211	Occurry on Pro-	Oteday on: 211	
Range		-	_	2.4GHz ISM Band	
Expandability		-	_		
Compilance		-	_		
Physical Characteristics		-	-		
Lens Material Lens Diameter (mm/inches) Lens Design Single LED optic Mounting 6 x 17mm holes on 200mm PCD Height (mm/inches) 240 / 9/ Width (mm/inches) 231 / 7/ Mass (kg/lbs) 14 / 3/ 16 / 3/ Product Life Expectancy Environmental Factors Humidity 0 to 100%, MIL-STD-810F Icing 3.41kg per square cm / 48.5lbs per square inch Wind Speed Up to 160kph Shock MIL-STD-202G, Test Condition 6, Method 213B Vibration MIL-STD-202G, Test Condition 6, Method 204 Certifications CE EN61000-6-3:2007 EN61000-6-3:2007 EN61000-6-1:2007 Quality Assurance ISO9001:2015 Waterproof Compliance ICAO Annex. 14 Volume 1 'Aerodrome Design and Operations', Taxiway Edge L861T FAA Barricade AC 150/5370-2F LED Colour Standard (Engineering Brief No. 67D) CASA MOS Part 139, Volume 2, 2016, Section 9.13.15 DGAC (Mexico) Intellectual Property Trademarks AVLITE® is a registered trademark of Avlite Systems Patents Pending Ayer warranty Manual Operation - Avlite Pilot Activated Lighting Control IR LEDS - External ON/OFF Switch - External DN/OFF Switch - External Battery Charging Port	Physical Characteristics				
Lens Diameter (mm/inches) Lens Design Single LED optic Mounting 6 x 17mm holes on 200mm PCD Height (mm/inches) 231 / 7/ Mass (kg/lbs) 14 / 3/ Mass (kg/lbs) 14 / 3/ 1.6 / 3/ 1.6 / 3/ 1.4 / 3/ Product Life Expectancy Environmental Factors Humidity 0 to 100%, MiL-STD-810F Icing 3.4lkg per square cm / 48.5lbs per square inch Wind Speed Up to 160kph Shock MiL-STD-202G, Test Condition G, Method 213B Vibration Mill-STD-202G, Test Condition B, Method 204 Certifications CE EN61000-6-3:2007 CRE EN61000-6-3:2007 Guality Assurance ISO9001:2015 Waterproof IP68 Compliance ICAO Annex. 14 Volume 1 'Aerodrome Design and Operations', Taxiway Edge L861T FAA Barricade AC 150/5370-2F LED Colour Standard (Engineering Brief No. 67D) CASA MOS Part 139, Volume 2, 2016, Section 9.13.15 DGAC (Mexico) Intellectual Property Trademarks AVLITE® is a registered trademark of Avlite Systems Patents Pending Warranty AVLITE® is a registered trademark of Avlite Systems Patents Pending Available - External ON/OFF Switch - External Battery Charging Port	Body Material	LEX	(AN® Polycarbonate – UV stabil	lized	
Single LED optic	Lens Material	LEXAN® Polycarbonate – UV stabilized			
Mounting 6 x 17mm holes on 200mm PCD	Lens Diameter (mm/inches)	140 / 5½			
Height (mm/inches)	Lens Design	Single LED optic			
Width (mm/inches) 231 / 7½	Mounting	6 x 17mm holes on 200mm PCD			
Mass (kg/lbs) 1.4 / 3½ 1.6 / 3½ 1.4 / 3½ Product Life Expectancy Environmental Factors Humidity O to 100%, MIL-STD-810F Ling 3.41kg per square cm / 48.51bs per square inch Wind Speed Up to 160kph Shock MIL-STD-202G, Test Condition G, Method 213B Vibration MIL-STD202G, Test Condition B, Method 204 Certifications CE EN61000-6-3:2007 EN61000-6-1:2007 Quality Assurance ISO9001:2015 Waterproof IP68 Compliance ICAO Annex. 14 Volume 1 'Aerodrome Design and Operations', Taxiway Edge L861T FAA Barricade AC 150/5370-2F LED Colour Standard (Engineering Brief No. 67D) CASA MOS Part 139, Volume 2, 2016, Section 9.13.15 DGAC (Mexico) Intellectual Property Trademarks AVLITE® is a registered trademark of Avlite Systems Patents Pending Warranty* 3 year warranty AVLITE® is a registered trademark of Avlite Systems Patents Pending Avlite Pilot Activated Lighting Control IR LEDS External ON/OFF Switch External ON/OFF Switch External ON/OFF Switch	Height (mm/inches)		240 / 9½		
Product Life Expectancy Environmental Factors Humidity 0 to 100%, MIL-STD-810F Icing 3.41kg per square cm / 48.5lbs per square inch Wind Speed Up to 160kph Shock MIL-STD-202G, Test Condition G, Method 213B Vibration MIL-STD202G, Test Condition B, Method 204 Certifications CE EN61000-6-3:2007 EN61000-6-3:2007 EN61000-6-1:2007 Quality Assurance ISO9001:2015 Waterproof IP68 Compliance ICAO Annex. 14 Volume 1 'Aerodrome Design and Operations', Taxiway Edge L861T FAA Barricade AC 150/5370-2F LED Colour Standard (Engineering Brief No. 67D) CASA MOS Part 139, Volume 2, 2016, Section 9:13.15 DGAC (Mexico) Intellectual Property Trademarks AVLITE® is a registered trademark of Avlite Systems Patents Pending Warranty AVLITE® is a registered trademark of Avlite Systems Patents Pending AVLITE® is a registered trademark of Avlite Systems Patents Pending AVLITE® is a registered trademark of Avlite Systems Patents Pending AVLITE® is a registered trademark of Avlite Systems Patents Pending AVLITE® is a registered trademark of Avlite Systems Patents Pending AVLITE® is a registered trademark of Avlite Systems Patents Pending AVLITE® is a registered trademark of Avlite Systems Patents Pending AVLITE® is a registered trademark of Avlite Systems Patents Pending AVLITE® is a registered trademark of Avlite Systems Patents Pending Avlite Pilot Activated Lighting Control IR LEDS External ON/OFF Switch External ON/OFF Switch	Width (mm/inches)		231 / 71/%		
Environmental Factors Humidity O to 100%, MIL-STD-810F Icing 3.41kg per square cm / 48.5ibs per square inch Wind Speed Up to 160kph Shock MIL-STD-202G, Test Condition G, Method 2138 Vibration MIL-STD202G, Test Condition B, Method 204 Certifications CE EN61000-6-3:2007 EN61000-6-1:2007 Quality Assurance ISO9001:2015 Waterproof IP68 Compliance ICAO Annex. 14 Volume 1 'Aerodrome Design and Operations', Taxiway Edge L861T FAA Barricade AC 150/5370-2F LED Colour Standard (Engineering Brief No. 67D) - CASA MOS Part 139, Volume 2, 2016, Section 9.13.15 DGAC (Mexico) Intellectual Property Trademarks AVLITE® is a registered trademark of Avlite Systems Patents Pending Warranty Avlite® is a registered trademark of Avlite Systems Patents Pending Avlite® a year warranty - Manual Operation - Avlite Pilot Activated Lighting Control - IR LEDs - External ON/OFF Switch - External Battery Charging Port	Mass (kg/lbs)	1.4 / 31/8	1.6 / 3½	1.4 / 31/8	
Humidity Cot 100%, MIL-STD-810F	Product Life Expectancy		Up to 12 years		
Section Sect	Environmental Factors				
Wind Speed Shock MIL-STD-202G, Test Condition G, Method 213B Vibration MIL-STD202G, Test Condition B, Method 204 Certifications CE EN61000-6-3:2007 EN61000-6-1:2007 Quality Assurance IS09001:2015 Waterproof IP68 Compliance ICAO Annex. 14 Volume 1 'Aerodrome Design and Operations', Taxiway Edge L861T FAA Barricade AC 150/5370-2F LED Colour Standard (Engineering Brief No. 67D) CASA MOS Part 139, Volume 2, 2016, Section 9,13.15 DGAC (Mexico) Intellectual Property Trademarks AVLITE® is a registered trademark of Avlite Systems Patents Pending Warranty AVLITE® is a registered trademark of Avlite Systems Patents Pending AVLITE® 3 year warranty Available External Operation Avlite Pilot Activated Lighting Control IR LEDs External ON/OFF Switch External Battery Charging Port	Humidity	0 to 100%, MIL-STD-810F			
Shock MIL-STD-202G, Test Condition G, Method 2f3B Vibration MIL-STD202G, Test Condition B, Method 204 Certifications CE EN61000-6-3:2007 EN61000-6-1:2007 Quality Assurance ISO9001:2015 Waterproof IP68 Compliance ICAO Annex. 14 Volume 1 'Aerodrome Design and Operations', Taxiway Edge L861T FAA Barricade AC 150/5370-2F LED Colour Standard (Engineering Brief No. 67D) CASA MOS Part 139, Volume 2, 2016, Section 9.13.15 DGAC (Mexico) Intellectual Property Trademarks AVLITE® is a registered trademark of Avlite Systems Patents Pending Warranty AVLITE® is a registered Lighting Control IR LEDS Available External ON/OFF Switch External Battery Charging Port	lcing	3.41kg per square cm / 48.5lbs per square inch			
Vibration MIL-STD202G, Test Condition B, Method 204 Certifications CE EN61000-6-3:2007 EN61000-6-1:2007 Quality Assurance ISO9001:2015 Waterproof IP68 Compliance ICAO Annex. 14 Volume 1 'Aerodrome Design and Operations', Taxiway Edge L861T FAA Barricade AC 150/5370-2F LED Colour Standard (Engineering Brief No. 67D) - CASA MOS Part 139, Volume 2, 2016, Section 9.13.15 DGAC (Mexico) Intellectual Property Trademarks AVLITE® is a registered trademark of Avlite Systems Patents Pending Warranty * AVLITE® is a registered trademark of Avlite Systems Patents Pending Warranty * AVLITE® Available - External Dattery Control - IR LEDS - External ON/OFF Switch - External Battery Charging Port	Wind Speed				
CE EN61000-6-3:2007 EN61000-6-1:2007 Quality Assurance ISO9001:2015 Waterproof IP68 Compliance ICAO Annex. 14 Volume 1 'Aerodrome Design and Operations', Taxiway Edge L861T FAA Barricade AC 150/5370-2F LED Colour Standard (Engineering Brief No. 67D) - CASA MOS Part 139, Volume 2, 2016, Section 9.13.15 DGAC (Mexico) Intellectual Property Trademarks AVLITE® is a registered trademark of Avlite Systems Patents Pending Warranty * 3 year warranty - Manual Operation - Avlite Pilot Activated Lighting Control - IR LEDS - External DN/OFF Switch - External Battery Charging Port	Shock				
CE EN61000-6-3:2007 EN61000-6-1:2007 Quality Assurance ISO9001:2015 Waterproof IP68 Compliance ICAO Annex. 14 Volume 1 'Aerodrome Design and Operations', Taxiway Edge L861T FAA Barricade AC 150/5370-2F LED Colour Standard (Engineering Brief No. 67D) - CASA MOS Part 139, Volume 2, 2016, Section 9.13.15 DGAC (Mexico) Intellectual Property Trademarks AVLITE® is a registered trademark of Avlite Systems Patents Pending Warranty * 3 year warranty - Manual Operation - Avlite Pilot Activated Lighting Control - IR LEDS - External ON/OFF Switch - External Battery Charging Port	Vibration	MIL-S	STD202G, Test Condition B, Metho	d 204	
GE EN61000-6-1:2007 Quality Assurance ISO9001:2015 Waterproof IP68 Compliance ICAO Annex. 14 Volume 1 'Aerodrome Design and Operations', Taxiway Edge L861T FAA Barricade AC 150/5370-2F LED Colour Standard (Engineering Brief No. 67D) - CASA MOS Part 139, Volume 2, 2016, Section 9.13.15 DGAC (Mexico) Intellectual Property Trademarks AVLITE® is a registered trademark of Avlite Systems Patents Pending Warranty * 3 year warranty - Manual Operation - Avlite Pilot Activated Lighting Control - IR LEDS - External ON/OFF Switch - External Battery Charging Port	Certifications		FNOGS		
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Waterproof Compliance ICAO Annex. 14 Volume 1 'Aerodrome Design and Operations', Taxiway Edge L861T FAA Barricade AC 150/5370-2F LED Colour Standard (Engineering Brief No. 67D) CASA MOS Part 139, Volume 2, 2016, Section 9.13.15 DGAC (Mexico) Intellectual Property Trademarks AVLITE® is a registered trademark of Avlite Systems Patents Pending Warranty * AVLITE® is a registered trademark of Avlite Systems Patents Pending Available Options Available External ON/OFF Switch External Battery Charging Port	Quality Assurance				
Compliance ICAO Annex. 14 Volume 1 'Aerodrome Design and Operations', Taxiway Edge L861T FAA Barricade AC 150/5370-2F LED Colour Standard (Engineering Brief No. 67D) - CASA MOS Part 139, Volume 2, 2016, Section 9.13.15 DGAC (Mexico) Intellectual Property Trademarks AVLITE® is a registered trademark of Avlite Systems Patents Pending Warranty * AVLITE® is a registered trademark of Avlite Systems Patents Pending - Avlite Pilot Activated Lighting Control - IR LEDs - External ON/OFF Switch - External Battery Charging Port	Waterproof				
FAA Barricade AC 150/5370-2F LED Colour Standard (Engineering Brief No. 67D) CASA MOS Part 139, Volume 2, 2016, Section 9.13.15 DGAC (Mexico) Intellectual Property Trademarks AVLITE® is a registered trademark of Avlite Systems Patents Pending Warranty * 3 year warranty Manual Operation Avlite Pilot Activated Lighting Control IR LEDs External ON/OFF Switch External Battery Charging Port					
FAA Barricade AC 150/5370-2F LED Colour Standard (Engineering Brief No. 67D) CASA MOS Part 139, Volume 2, 2016, Section 9.13.15 DGAC (Mexico) Intellectual Property Trademarks AVLITE® is a registered trademark of Avlite Systems Patents Pending Warranty * AVLITE® is a registered trademark of Avlite Systems Patents Pending Available Available • External On/OFF Switch • External Battery Charging Port	ICAO	Annex. 14 Volume 1	'Aerodrome Design and Opera	tions', Taxiway Edge	
LED Colour Standard (Engineering Brief No. 67D) - CASA MOS Part 139, Volume 2, 2016, Section 9.13.15 DGAC (Mexico) Intellectual Property Trademarks AVLITE® is a registered trademark of Avlite Systems Patents Pending Warranty * Available Options Available LED Colour Standard (Engineering Brief No. 67D) - CASA MOS Part 139, Volume 2, 2016, Section 9.13.15 DGAC (Mexico) AVLITE® is a registered trademark of Avlite Systems Patents Pending Avuite Piot Activated Lighting Control - IR LEDs - External ON/OFF Switch - External Battery Charging Port		L861T			
- CASA MOS Part 139, Volume 2, 2016, Section 9.13.15 DGAC (Mexico) Intellectual Property Trademarks AVLITE® is a registered trademark of Avlite Systems Patents Pending Warranty * 3 year warranty • Manual Operation • Avlite Pilot Activated Lighting Control • IR LEDs • External ON/OFF Switch • External Battery Charging Port	FAA				
Other regulations Volume 2, 2016, Section 9.13.15 DGAC (Mexico) Intellectual Property Trademarks AVLITE® is a registered trademark of Avlite Systems Patents Pending Warranty * 3 year warranty Manual Operation Avlite Pilot Activated Lighting Control IR LEDs External ON/OFF Switch External Battery Charging Port					
Other regulations 9.13.15 DGAC (Mexico) Intellectual Property Trademarks AVLITE® is a registered trademark of Avlite Systems Patents Pending Warranty * 3 year warranty Manual Operation Avlite Pilot Activated Lighting Control IR LEDs External ON/OFF Switch External Battery Charging Port		'			
DGAC (Mexico) Intellectual Property Trademarks AVLITE® is a registered trademark of Avlite Systems Patents Pending Warranty * 3 year warranty Manual Operation Avlite Pilot Activated Lighting Control IR LEDs External ON/OFF Switch External Battery Charging Port	Other regulations				
Intellectual Property Trademarks AVLITE® is a registered trademark of Avlite Systems Patents Pending Warranty * 3 year warranty Manual Operation Avlite Pilot Activated Lighting Control IR LEDs External ON/OFF Switch External Battery Charging Port					
Patents Pending Warranty * 3 year warranty • Manual Operation • Avlite Pilot Activated Lighting Control • IR LEDs • External ON/OFF Switch • External Battery Charging Port	Intellectual Property				
Warranty * 3 year warranty • Manual Operation • Avlite Pilot Activated Lighting Control • IR LEDs • External ON/OFF Switch • External Battery Charging Port	Trademarks	AVLITE® is		te Systems	
• Manual Operation • Avlite Pilot Activated Lighting Control • IR LEDs Options Available • External ON/OFF Switch • External Battery Charging Port			9		
• Avlite Pilot Activated Lighting Control • IR LEDs • External ON/OFF Switch • External Battery Charging Port	warranty				
Options Available • IR LEDs • External ON/OFF Switch • External Battery Charging Port		· A		ntrol	
• External ON/OFF Switch • External Battery Charging Port	Options Available		· IR LEDs		

Technical Illustration





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