



Solar Taxiway & VRF Runway Light

AV-70 Avlite

Compliance and Applications

- FAA L-863B Certified – AC 150/5345-50B
- Meets FAA L-861T (Photometric Requirements) – AC 150/5345-46E
- Meets FAA Barricade Construction Installations – AC 150/5370-2F

The solar-powered AV-70 is designed to require minimal ongoing maintenance. The self-contained unit has two high-performance solar modules to maximize solar collection and provide reliable operation in a range of environmental conditions.

Features

- FAA certified to L-863B for portable runway and taxiway lights
- Third-party tested for FAA (L-861T, Barricade AC 150/5370-2F)
- Buy American Listed
- Updated Switch and External Interface Port (EIP) for external charging and programming
- RF Control using AvMesh® RF Network

Easy Installation

Enhance personnel efficiency, eliminate costly trenching, and ensure continuous airfield operations. The AV-70 is your solution for dusk-to-dawn illumination with sustained battery performance.

Low Maintenance

The AV-70 integrates the latest solar technology including active maximum power point tracking (MPPT) and enhanced LED optics into a compact, self-contained unit requiring minimal maintenance.

Reliable

The rugged design can withstand the harshest environments. Rigorous testing compliant with FAA and MIL standards ensures long-lasting performance.





Technical Specifications

LIGHT CHARACTERISTICS

LIGHT SOURCE	LED
AVAILABLE COLORS	Blue, White, Yellow, Red, Green, Bi-directional Combinations, IR
HORIZONTAL OUTPUT (DEGREES)	360
INTENSITY ADJUSTMENTS	3 Step or 5 Step (Dependent on Variant)
LED LIFE EXPECTANCY (HOURS)	>100,000

ELECTRICAL CHARACTERISTICS

CIRCUIT PROTECTION	Integrated
TEMPERATURE RANGE	-40°F to +131°F/ -40°C to +55°C
TRANSPORT AND STORAGE TEMPERATURE RANGE	-40°F to +131°F/ -40°C to +55°C

SOLAR CHARACTERISTICS

SOLAR MODULE TYPE	Monocrystalline
OUTPUT (WATTS)	2.8 (2 x 1.4)
SOLAR MODULE EFFICIENCY (%)	21
CHARGING REGULATION	Maximum Power Point Tracking (MPPT)

POWER SUPPLY

BATTERY TYPE	High grade Nickel Metal Hydride (NiMH)
BATTERY CAPACITY (AH)	B1: 8.6 B2: 17.2
NOMINAL VOLTAGE (V)	3.6
PROGRAMMING/CHARGER	Internal (DC)
EXTERNAL INTERFACE PORT RATED POWER (W)	5
INPUT VOLTAGE (V)	3.6

RADIO CONTROL

FREQUENCY	2.4GHz ISM Band
RANGE	Up to 0.87mi (1.4Km) relayed
EXPANDABILITY	AvMesh (R)
COMPLIANCE	FCC/ EMC/ Anatel

PHYSICAL CHARACTERISTICS

BODY MATERIAL	UV-stabilized LEXAN® Polycarbonate
BODY COLOR OPTIONS	Aviation Yellow (Optional Desert Tan and Olive Drab)
LENS MATERIAL	UV-stabilized LEXAN® Polycarbonate
LENS DESIGN	Single and Multi- LED Optic
MOUNTING	6 x 17mm holes on 200mm PCD
HEIGHT (INCHES/MM)	9.45 inches/ 240mm
WIDTH (INCHES/MM)	9.09 inches/ 231 mm
MASS (LBS/KG)	B1: 3.1/1.4kg B2: 3.7/1.7kg
SERVICE LIFE	Up to 12 Years

ENVIRONMENTAL STANDARDS

SHOCK	MIL-STD-202G, Test Condition G, Method 213B
VIBRATION	MIL-STD-202G, Test Condition B, Method 204
WIND SPEED	Up to 100mph (160kph)
HUMIDITY	0 to 100%, MIL-STD-810F
INGRESS	IP68

COMPLIANCE

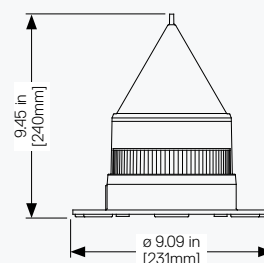
AFAC	FAA AC150/5345-46E, L-861T
EMC	CFR 47, Chapter 1, Subpart A, Part 15, Subpart B (Class A)
FAA	AC150/5345-46E, AC150/5345-50B, L-861T, L-863B LED Color Standard (Engineering Brief No. 67D)
QUALITY ASSURANCE	ISO 9001:2015
TRADEMARKS	AVLITE® is a registered trademark of Avlite Systems, a family brand of SPX Aids to Navigation (a division of SPX Technologies)

OTHER

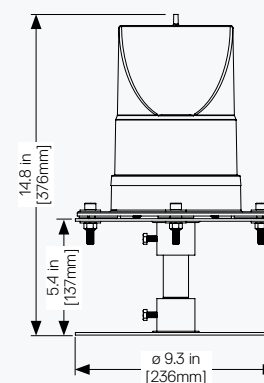
WARRANTY	Please refer to the Warranty Section of the Product Manual
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TECHNICAL DRAWINGS

SIDE



AV-70 WITH FRANGIBLE CONCRETE MOUNT (OTHER MOUNTING OPTIONS AVAILABLE)



CONFIGURATION

MODEL	AV-70
CERTIFICATIONS	FAA 861T, FAA 863B, GA
LED CONFIGURATION	Omni-directional Blue (Taxiway) Omni-directional White Omni-directional Yellow Omni-directional Green Bi-directional Red/Green Bi-directional White/Yellow
BATTERY SIZE	8.6Ah NiMH Battery (B1) 17.2Ah NiMH Battery (B2)
STANDARD FEATURES	Yellow Body
OPTIONS	IR for NVG Applications Switch External Interface Port (EIP) EF, EIP Desert Tan Body Olive Drab Body