



A704-VL

SOLAR HELIPAD LIGHT

Meets traditional helipad requirements in an easy-to-install, low maintenance package.

- ICAO and FAA compliant
- Third party tested
- Proven technology platform
- Available in three solar engine sizes

Applications

Helipads
Touchdown and Lift-off area (TLOF)
Final Approach and Take-off area (FATO)
Taxiway lighting
NVG operations
Emergency operations

Advanced Design

- Improved optical efficiency with latest LEDs
- Up to 25% more power with high-efficiency solar panels
- Reduced standby power consumption
- Multiple solar engine sizes for best value-for-performance

Easy Installation

Limited crew, no trenching, no helipad interruptions. Just place the A704-VL and it emits light dusk-to-dawn while maintaining its battery. Optional wireless control provides on-demand operation from up to 4 km (2.5 m) away.

Low Maintenance

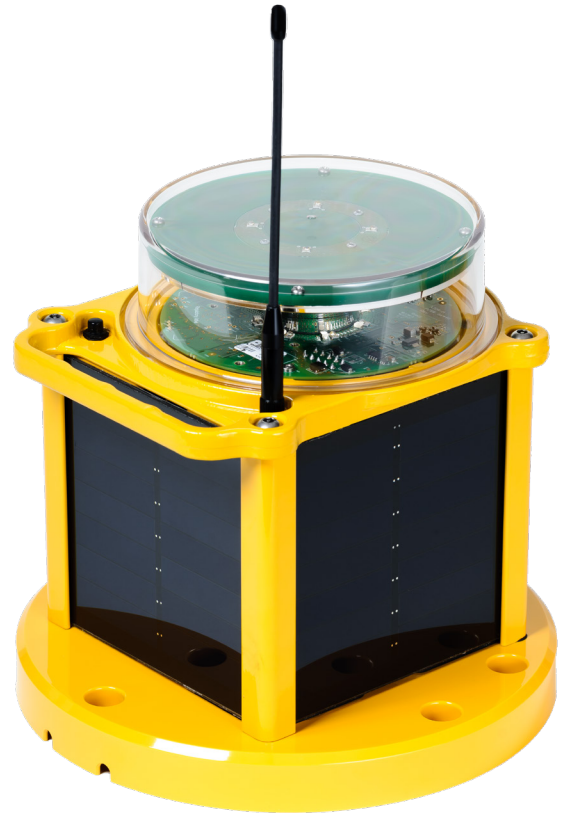
The A704-VL integrates solar panels, battery, electronics, and LED light source into a compact, stand-alone unit requiring minimal maintenance. The replaceable battery extends service life well beyond 5 years.

Reliable

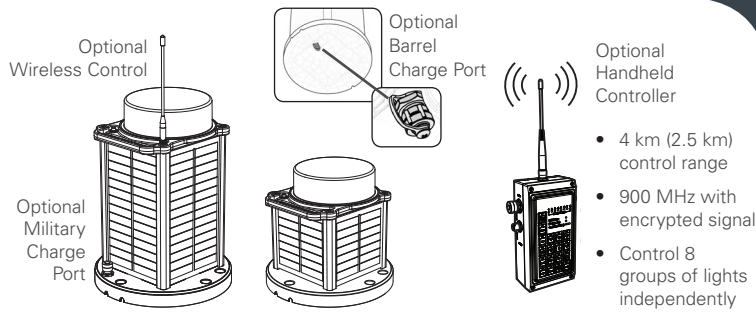
The Energy Management System (EMS) monitors all operations to provide consistent output in the harshest environments. Testing to ICAO, FAA and MIL specifications ensures high performance for many years.

Trusted

With thousands of installations worldwide, Carmanah solar LED lights operate year-round at permanent airfields and temporary military installations.



REPRESENTED IN YOUR REGION BY:



A704-VL

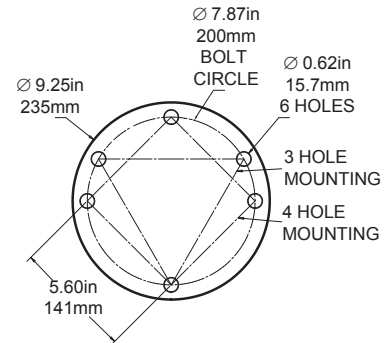
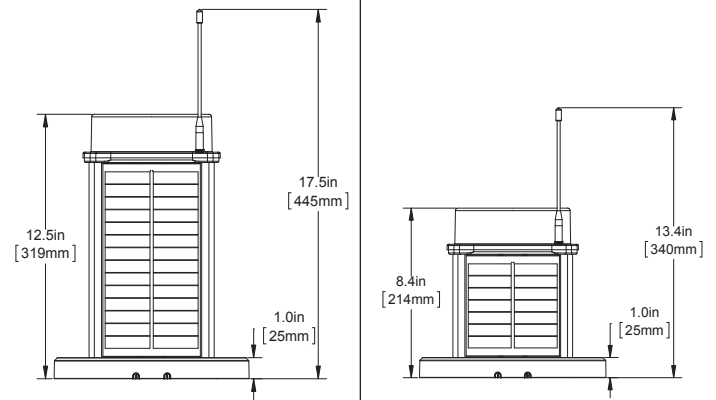
SOLAR HELIPAD LIGHT

SPECIFICATIONS

Optical	High-power LEDs meet IES LM-80 lumen maintenance, ensuring consistent photometrics for life of product
	ICAO, SAE25050 (FAA), and FAA EB 67 compliant chromaticity
	NVG-compatible infrared (IR) LEDs
	Steady-on and flash
Energy Collection	High-efficiency cells with blocking diodes
	Maximum power point tracking with temperature compensation (MPPT-TC) for optimal energy collection in all solar conditions
Energy Storage	Pure-lead VRLA AGM battery with manufacturer operating range -65 to 80 °C (-85 to 176 °F)
	On-board battery status
	Designed for 5+ year battery life; Replaceable and recyclable
Energy Management System (EMS)	Intelligent, microprocessor EMS
	On-board diagnostics and datalogger
	Push button interface for local control
Automatic Light Control (ALC)	Autonomous, temporary, and emergency modes
	ALC adjusts output intensity in response to unusually low amounts of sunlight to ensure continued operation
Construction	Premium, UV-resistant polycarbonate lens
	Powder coated aluminum and polycarbonate chassis with integrated handle
	Waterproof, vented battery compartment
Temperature	-30 to 50 °C (-22 to 122 °F) Optional
	-40 to 80 °C (-40 to 176 °F) Maximum
Wind & Ice Loading	644 kph (400 mph) wind; 0.03 psi (22 kg/m ²) ice
Shock & Vibration	MIL-STD-202G and MIL-STD-810G
Ingress	EN 60529 IP 67 immersion
	MIL-STD-202G immersion & damp heat cycling
	MIL-STD-810G rain & salt fog
Compliance	CE compliant (non-wireless model only)
	ICAO FATO (Annex 14, Vol. 1, 5.3.7.4)
	ICAO FATO (Annex 14, Vol. 2, Appendix 1)
	FAA L-861T (AC No. 150/5345-46D, EB67)
	ICAO (Annex 14, Vol. 1, 5.3.18.8)
	FAA L-860HR (EB 87D, EB67D)
	ICAO TLOF (Annex 14, Vol. 1, 5.3.9.20)
	ICAO TLOF (Annex 14, Vol. 2, Appendix 1)
FAA L-810 vertical divergence; 850 - 890 nm peak	

DIMENSIONS AND WEIGHTS

STANDARD		COMPACT	
Weight	6.7 kg (15 lb)	Weight	4.9 kg (11 lb)
Battery (96E)	4.2V, 24 Ahr	Battery (60X)	4.2V, 15 Ahr
LARGE			
Weight	10.5 kg (23 lb)		
Battery (200BC)	4.2V, 50 Ahr		



CONFIGURATION

MODEL	OUTPUT ▼	SOLAR ENGINE ▼	CHASSIS ▼	CONTROL ▼	CHARGE PORT ▼
A704-VL	WHITE / IR BLUE / IR GREEN / IR YELLOW / IR	COMPACT STANDARD LARGE	YELLOW OLIVE DRAB	NON-WIRELESS WIRELESS	NONE CHARGE PORT MILITARY CHARGE PORT



Specifications subject to local environmental conditions.
Specifications may be subject to change.

US and International patents apply. Other patents pending.
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All Carmanah products are manufactured in facilities that are certified to ISO quality standards.

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