

A704-VL Solar Helipad and Taxiway Light

The A704-VL meets traditional helipad requirements in an easy-to-install, low maintenance package. Lights are third-party tested for ICAO and FAA compliance, and our proven technology platform offers 3 solar engine sizes.

Applications

- Helipads
- Touchdowns and lift-off area (TLOF)
- Final approach and take-off area (FATO)
- Taxiway lighting
- NVG operations, covert-only mode
- Emergency or temporary lighting

Advanced Design

- Improved optical efficiency with latest LEDs
- High-efficiency monocrystalline solar panels
- Reduced standby power consumption
- Multiple battery sizes for best value-for-performance
- Optional wireless control provides remote operation using either 900 MHz or 2.4 GHz communication

Easy Installation

Limited crew. No trenching. No airfield interruptions. Just place the A704-VL and it emits light dusk-to-dawn while maintaining its battery.

Low Maintenance

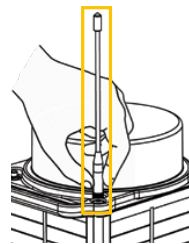
The A704-VL integrates solar panels, battery, electronics and LED light source into a compact, stand-alone unit requiring minimal maintenance for 7 years.

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

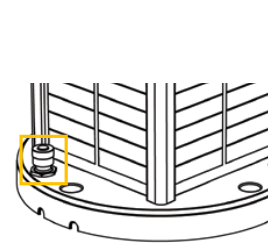
With thousands of installations worldwide, our solar LED lights operate year-round at over 500 airports and military bases.



Optional wireless control



Optional handheld controller
- 900 MHz OR 2.4GHz with encrypted signal
- Control 8 groups of lights



Optional military and barrel charge ports

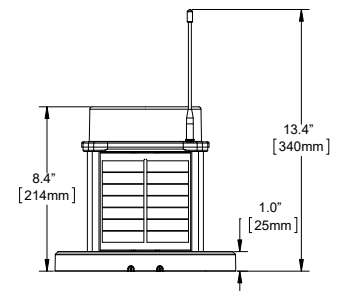
A704-VL Specifications

SPECIFICATIONS

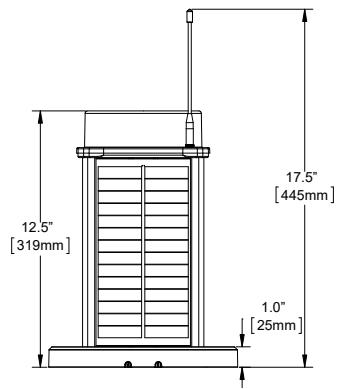
Compliance	ICAO FATO (Annex 14, Vol. 1, 5.3.7.4 and Vol. 2, Appendix 1)
	ICAO TLOF (Annex 14, Vol. 1, 5.3.9.20 and Vol. 2, Appendix 1)
	ICAO taxiway (Annex 14, Vol. 1, 5.3.18.8)
	FAA L-861T (AC No. 150/5345-46D, EB67)
	FAA L-860HR (EB 87D, EB67D)
Optical	High-powered LEDs meet IES LM-80 lumen maintenance ensuring consistent photometrics for life of product
	ICAO, SAE25050 (FAA) and FAA EB 67 compliant chromaticity
	NVG-compatible infrared (IR) LEDs
Solar Panel	Steady-on and flash, IR-only mode
	High-efficiency solar cells with blocking diodes
	Maximum power point tracking with temperature compensation (MPPT-TC) for optimal energy collection in all solar conditions
Battery	Pure-lead VRLA AGM battery with manufacturer operating range -85 to 176 °F (-65 to 80 °C)
	Onboard battery status; Optional port for battery charging and cabled operation
	Designed for 5-year battery life; Replaceable and recyclable
Energy Management System (EMS)	2500 cycles or 7-year lifetime on average
	Intelligent, microprocessor
	Push button interface for local control
Automatic Light Control (ALC)	Autonomous (dusk-to-dawn), temporary and emergency modes
	When enabled, automatically adjusts to low levels of sunlight to ensure continuous operation
Construction	Premium, UV-resistant polycarbonate lens (jet blast resistant glass lens available)
	Corrosion-resistant, powder-coated aluminum chassis with integrated handle
	Waterproof, vented battery compartment
Temperature	-22 to 122 °F (-30 to 50 °C) Optimal
	-40 to 176 °F (-40 to 80 °C) Maximum
Wind Loading	400 mph (644 kph)
Ice Loading	0.03 psi (22 kg/m²)
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

WEIGHTS AND DIMENSIONS

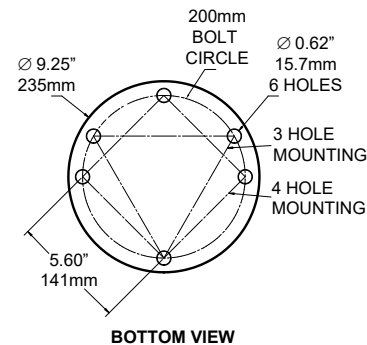
COMPACT
12.4 lbs (5.6 kg)
Battery (60X) - 4.2V, 15 Ahr



STANDARD
16.4 lb (7.4 kg)
Battery (96E) - 4.2V, 24 Ahr



LARGE
24.5 lbs (11.1 kg)
Battery (200BC) - 4.2V, 50 Ahr



CONFIGURATION

Model	Color	Solar Engine	Chassis	Lens	Control	Charge Port
SL-A704-VL	White / IR Blue / IR Green / IR Yellow / IR	Compact Standard Large	Yellow Olive Drab	Polycarbonate Tempered Glass	Non-wireless Wireless (900 MHz) Wireless (2.4GHz)	None Charge Port Military Charge Port

A704-VL Intensities (cd)

A704-VL						
	Auto Low	Auto Medium	Auto High	Temp Low	Temp Medium	Temp High
White	4	10	25	25	75	250
Green	7	14	25	25	75	250
Yellow	6	12	25	25	75	250
Blue	3	7	10	13	16	19
Infrared/NVG (mW/sr)	16	34	80	16	34	80

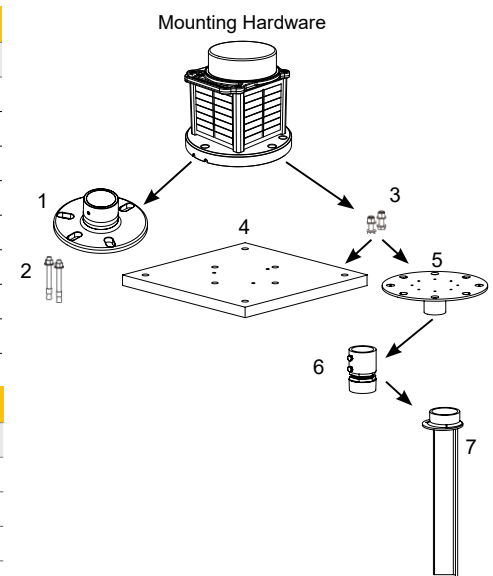
A704-VL Accessories

MOUNTING		
REFERENCE	PN	DESCRIPTION
1	82612	Frangible floor flange
2	76520	Anchor bolt kit
3	76516	Standard bolt kit, 700 series (2x stainless steel bolts)
4	81802	16 x 16" rubber mat
5	65714	Standard mounting plate
6	65711	Frangible coupling, 1.5" pipe x 2 thread
7	38925	2" hub stake - 15" long
-	65717	Extended mounting plate

BATTERY/CHARGER		
REFERENCE	PN	DESCRIPTION
-	72890	Battery kit, A704 compact
-	72891	Battery kit, A704 standard
-	72892	Battery kit, A704 large
-	74314	Battery charger, A704 with military charge port, 100-240 VAC, 50/60 Hz
-	69885	Battery charger, A704 battery pack and barrel charge port, 100-240 VAC, 50/60 Hz

OPTICS		
REFERENCE	PN	DESCRIPTION
-	74690	Optical shield, 180 degree, several models
-	Inquire	Head kit, several models

MISCELLANEOUS PARTS		
REFERENCE	PN	DESCRIPTION
8	40865	A704 series bird deterrent
9	56150	Replacement antenna
10	-	Handheld Controller (see page 2 for additional wireless control options)
-	48984	Installation tool kit with 5/32" security bit for head/battery changes and small socket set



Miscellaneous Parts

