

A704 Solar Medium Intensity Runway Light

The A704 meets traditional airfield requirements in an easy-to-install, low maintenance package.

- Third-party tested for ICAO and FAA compliance
- Long-lasting batteries
- Available in 3 battery sizes

Applications

- Medium-intensity runway edge & threshold (MIRL)
- Simple approach 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 and it emits light dusk-to-dawn while maintaining its battery.

Low Maintenance

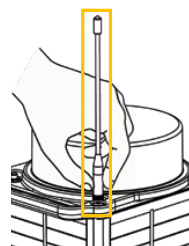
The A704 integrates solar panels, battery, electronics and LED light source into a compact, stand-alone unit requiring minimal maintenance for 7 years on average.

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

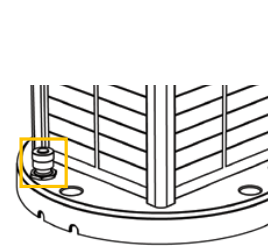
With thousands of installations worldwide, our solar LED lights operate year-round at over 500 airports and military bases.



Optional wireless control



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



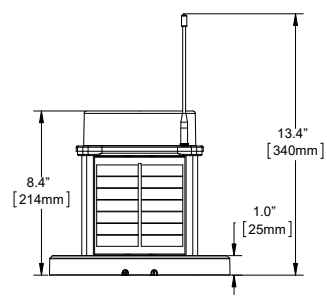
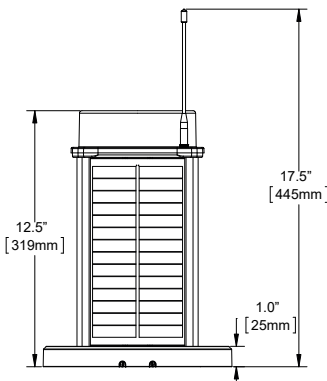
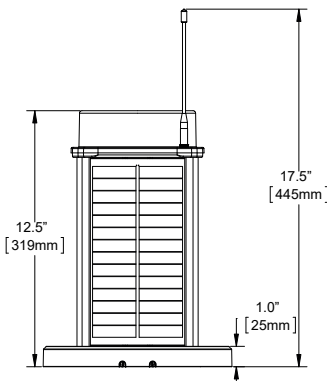
Optional military and barrel charge ports

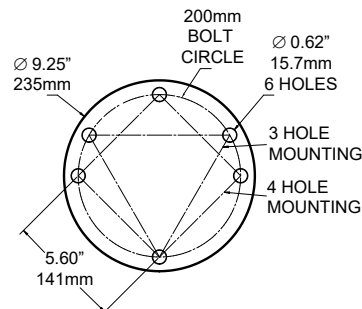
A704 Specifications

SPECIFICATIONS

Compliance	ICAO MRL (Annex 14, Vol. 1, 5.3.9.9)
	FAA L-861 MRL (AC 150/5345-46E, EB67)
	FAA L-861E & L-861SE MRL (AC 150/5345-46E, EB67)
	FAA L-860 LIRL (AC 150/5345-46E, EB67)
	FAA L-863 Portable (AC 150/5345-50)
	FAA L-858 Sign Lighting (AC 150/5345-44)
	FAA L-810 Red (AC 150/5345-43)
	ICAO Annex 14 Red Low-Intensity Obstacle Light Type A and Type B, 8th edition
Optical	Red output for airport barricade and construction applications (CFR Part 139, FAA AC 150/5370-2G)
	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 LEDs
Solar Panel	Steady-on and flash, IR only mode
	High-efficiency solar cells with blocking diodes
Battery	Maximum power point tracking with temperature compensation (MPPT-TC) for optimal energy collection in all solar conditions
	Pure-lead VRLA AGM battery with manufacturer operating range -85 to 176°F (-65 to 80°C)
Energy Management System (EMS)	Onboard battery status
	Optional port for battery charging and cabled operation
	Designed for 5-year battery life; Replaceable and recyclable
Automatic Light Control (ALC)	2500 cycles or 7-year lifetime on average
	Intelligent, microprocessor
Construction	Onboard diagnostics and data-logger
	Push button interface for local control
Temperature	Autonomous (dusk-to-dawn), temporary, continuous and emergency modes
	When enabled, automatically adjusts to low levels of sunlight to ensure continuous operation
Wind Loading	Premium, UV-resistant polycarbonate lens (jet blast resistant glass lens available)
	Corrosion-resistant, powder-coated aluminum chassis with integrated handle
Ice Loading	Waterproof, vented battery compartment
	-22 to 122°F (-30 to 50°C) Optimal
Shock & Vibration	-40 to 176°F (-40 to 80°C) Maximum
	400 mph (644 kph)
Ingress	0.03 psi (22 kg/m²)
	MIL-STD-202G and MIL-STD-810G
Lens	EN 60529 IP 67 immersion
	MIL-STD-202G immersion & damp heat cycling
Control	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	



BOTTOM VIEW

CONFIGURATION

Model	Color	Battery Size
SL-A704	White/IR	Compact Standard Large
	White/Yellow/IR	
	Red/Green/IR	
	Green/IR	
	Yellow/IR	
	Red/IR	
	White/Red/IR	
	Red/Yellow/IR	
Lens	Green/Yellow/IR	Charge Port
	None	
	Charge Port	
Polycarbonate	Non-wireless	None
Tempered Glass	Wireless (900 MHz)	Charge Port
	Wireless (2.4GHz)	Military Charge Port

A704 Intensities (cd)

A704												
	Auto Low		Auto Medium		Auto High		Temp Low		Temp Medium		Temp High	
White	6		13		25		25		75		250	
White/Yellow	6	4	13	8	25	15	25	15	75	45	250	150
Red/Green	4	1	9	3	18	5	18	5	53	15	175	50
White/Red	6	1	13	3	25	5	25	5	75	15	250	50
Yellow/Red	4	1	8	3	15	5	15	5	45	15	150	50
Green/Yellow	4	4	9	8	18	15	18	15	53	45	175	150
Yellow	4		8		15		15		45		150	
Green	26		44		66		218		258		323	
Red	15		37		47		15		37		47	
Infrared/NVG (mW/sr)	16		34		80		16		34		80	

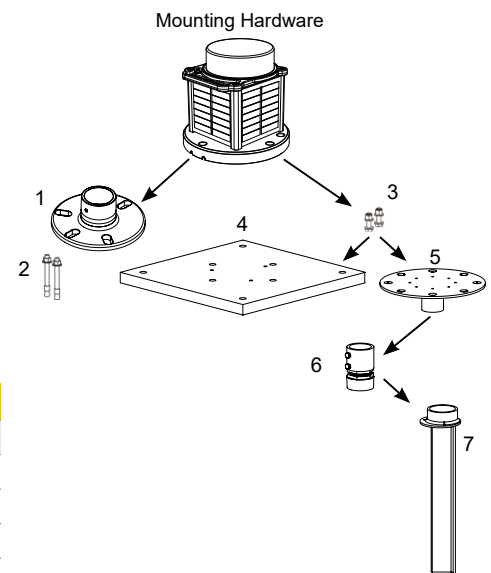
A704 Accessories

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

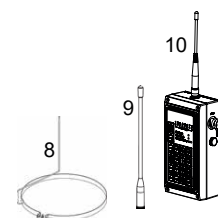
BATTERY/CHARGER		
REFERENCE	PN	DESCRIPTION
-	72890	Battery kit, A704 compact
-	72891	Battery kit, A704 standard
-	72892	Battery kit, A704 large
-	74314	Battery charger, A704 with military charge port, 100-240 VAC, 50/60 Hz
-	69885	Battery charger, A704 battery pack and barrel charge port, 100-240 VAC,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



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