

Portable Airfield Lighting System AL-PAL-1



AL-PAL-1 Portable Airfield Lighting System is specially used on permanent airport/heliport where cable power is not convenient or temporary helipad, especially for medivac and other emergency situations. Highly portable and easy to install the portable landing zone kit provides temporary illumination of any military or civilian helicopter landing surface or airfield.

Compliance

- ICAO Annex 14 Volume II Heliports 5.3.
- FAA AC NO. 150/5354-50B
- ICAO Annex 14 Volume I

Features

Electrical

- Ultra High intensity LED as light source saving power consumption and maintenance, 95% less power than equivalent incandescent light
- The LED light source guarantees high performance illumination high-performance illumination. Compatible Night Vision Goggles (NVG) are optional for "covert" operations with infrared (IR) emission.
- The light units are available with aeronautical colors and infrared (IR) lights. The basic airfield / helicopter landing zone function include: TLOF perimeter (green), threshold (green), runway end (red), runway (white), approach (white) lights, flood Lights

Physical

- The system is self-contained in a easy to transport ruggedized suitcase(with wheels and handle) that includes a set of light units and other equipment to support the landing.
- Portable lights are supplied by rechargeable batteries and an "drop in" charger in suitcase. The batteries are recharged by simply inserting the lights into their slot and connecting the external power to the suitcase.

System design

- ON/OFF button located beside base
- LED screen at the side of base for battery status

Optional

- "ground to ground" wireless remote controller allows to manage the system from remote
- Solar charging system

Application

- Airport, Touchdown and Lift- off area (TLOF) , Final Approach and Take- off area (FATO) , Taxiway lighting, Runway edge lighting, Portable or expedited airfield lighting, Threshold lighting
- Helipad taxiway
- Emergency operations



APPLICATION



Portable Airfield Lighting System

AL-PAL-1



SPECIFICATIONS

AL-PAL-1 Portable Airfield Lighting System

Light Unit

Light Source	Ultra high intensity LED
Available Colors	Red, Green, Yellow, White, Blue, IR
Flash Characteristics	Steady(Flashing mode is optional)
Operation Mode	24hours working after switched ON
LED Life Experience (hours)	>100,000
Overall Size (mm)	170×132×102
Weight (kg)	2.4
Rechargeable Battery	Lithium ion battery, 7.4V/20AH
Autonomy (hours)	60hours
Waterproof	IP67

Suitcase

Material	PP Alloy resin
Overall Size (cm)	80*60*36 (12/18pcs lights in), 60*50*24(8pcs lights in)
Battery charging input	110VAC, 240VAC, etc

Wireless Remote Control

Frequency	433MHZ
Size (mm)	83*30*550 (antenna included)
Weight (kg)	0.3
Remote control	ON/OFF, flashing rate, emergency mode
Power Supply	3.7VDC for battery recharge by 90-230 VAC Battery charger

Foldable Solar Panel

Folded sizes (mm)	410*300*30
Unfolded sizes (W*L)	1440*410
Weight (kg)	3.1kg
Nominal system voltage	18V
Nominal rated power	120W

Anchoring Stakes

Size (mm)	31mm
Material	Stainless Steel
Weight (kg)	0.06

SYSTEM CONFIGURATION

