

Portable LED Lighting System



- > Increases safety of SAR operation
- > For lighting of emergency heliports
- > NVG compatible
- > Easy and fast setup within 10 minutes
- > High performance rechargeable batteries

Typical Application



Portable
 Heliport T.L.O.F.

This portable airfield lighting system for heliports has been especially developed for facilitating helicopters' approaches and landings by interventions by night in the countryside out of any installation.

This LED lighting system is packaged in small cases, which are easily portable in a response vehicle of intervention driving to an accident site requiring a casualty evacuation through the air.

This system allows the pilot to approach the desired landing site as if it were a fix heliport. Each light is equipped with an ON/OFF switch or can be activated by a remote control system (optional).

There are 6 LED omnidirectional lights in each case. They are powered by built-in batteries. The content of the case includes the electrical panel with 6 integrated battery chargers and attached charging cables, 1 230 VAC cable with FI-Safety, 18 fixing straps and 18 stainless steel pegs for mounting, a plasticized user guide, one remote controller and one programming plug for the remote controller.

PHYSICAL CHARACTERISTICS (PER LIGHT UNIT)

Body Material	Aluminum, powder coated
Diameter	150 mm
Height	100 mm
Weight	1,74 kg
Temperature Range	-15 to + 40 °C
Protection Class	IP67

PHYSICAL CHARACTERISTICS (CASE)

Material	Polypropylene (Pelicase)
Length	524 mm
Width	428 mm
Height	206 mm
Weight	20 kg
Protection Class	IP67

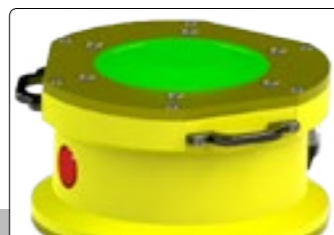
OPTICAL CHARACTERISTICS

Light Source	3 High-Performance LEDs
Available Light Colors	◦ Green White Yellow Blue Red ◦ Combination with infrared (IR NVG compatible)
Intensity (green)	70 cd at 15° elevation (100%)
Horizontal Output	360°
Vertical Divergence	0 to 180°
Intensity Levels	100 %, 30 % with remote controller

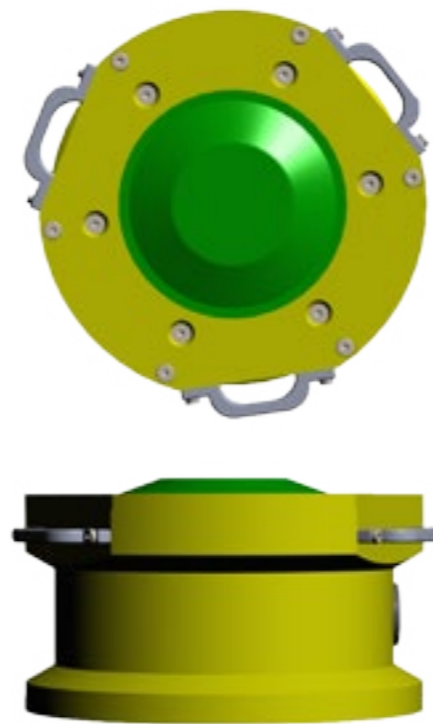
ELECTRICAL CHARACTERISTICS

Battery Type	LiFePO ₄ (Lithium iron phosphate battery)
Operating Voltage	12.5 V
Battery Capacity	3.3 Ah
Typical Autonomy	30 % 40 hours 100 % 15 hours
Charging Time	2 hours
Input Voltage for Charging	110 to 250 VAC 50/60 Hz
Current	Max 6A
Protection	FI Protectionion – IΔn: 30mA – In: 16A
Output Battery Charger	6 x 12.8 V - 1.5 A

Compliant to:
 ✓ ICAO Annex 14

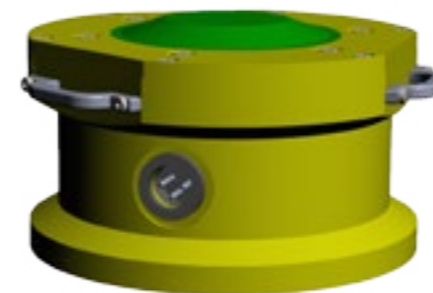


Portable LED Lighting System



Firm installation with straps and anchors

„Plug and Play“-pin for charging of integrated batteries



Robust Pelicase

Mains Connection

Strong Soil Anchors

Remote Control

Tearproof Straps

Integrated Charging Unit

Charging cable

Antennas

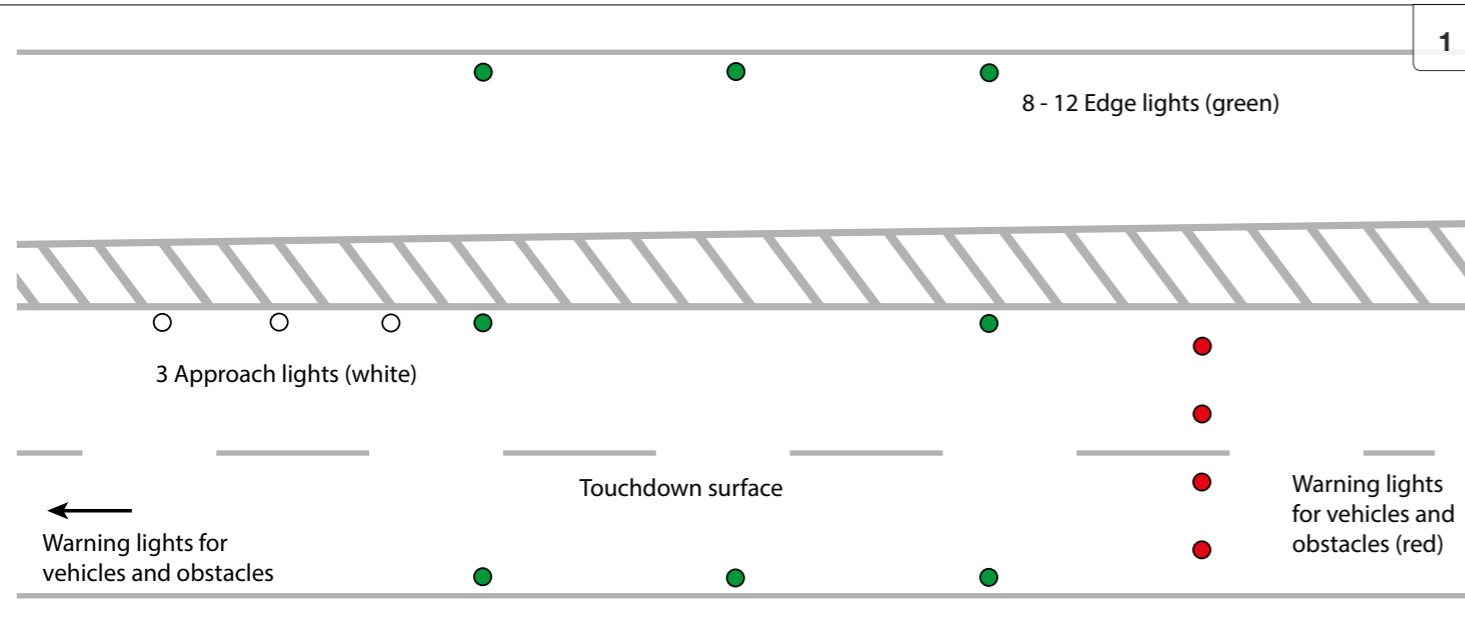
Power Lead

DWT-PHL HFT
LED-Lights

Case study: Air rescue mission at traffic junction

Known, defined patterns and familiar colours are to be identified much faster by approaching pilots.

Thus, flight time can be reduced and patient care will be improved.



Air rescue missions engaging helicopters require fast and coordinated actions of all participants.

The mobile heliport lighting system makes possible a dazzle-free marking of the designated touchdown surface. The pilot can rely on obstacle clearance within this marked area.

Indication of a preferred approach direction facilitates the cognition of obstruction on site.

Waiting positions for vehicles may be indicated by additional red lights.

- 1 **Layout proposal**
Mobile lighting system
- 2 **Layout proposal**
Adapted to local situation
- 3 **Lighting of airfield**
8 - 12 green lights
- 4 **Remote control**
Control of intensity and operation mode
- 5 **Reliable batteries**
Up to 12 hours of operation

