Signalight

Safely guiding
your way.

2023

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**www.signalight.com**
part of
ElectroMax
WE ARE JUST MAKING LIGHTING RIGHT

# PORTABLE LIGHTING SYSTEMS

# POLARIS


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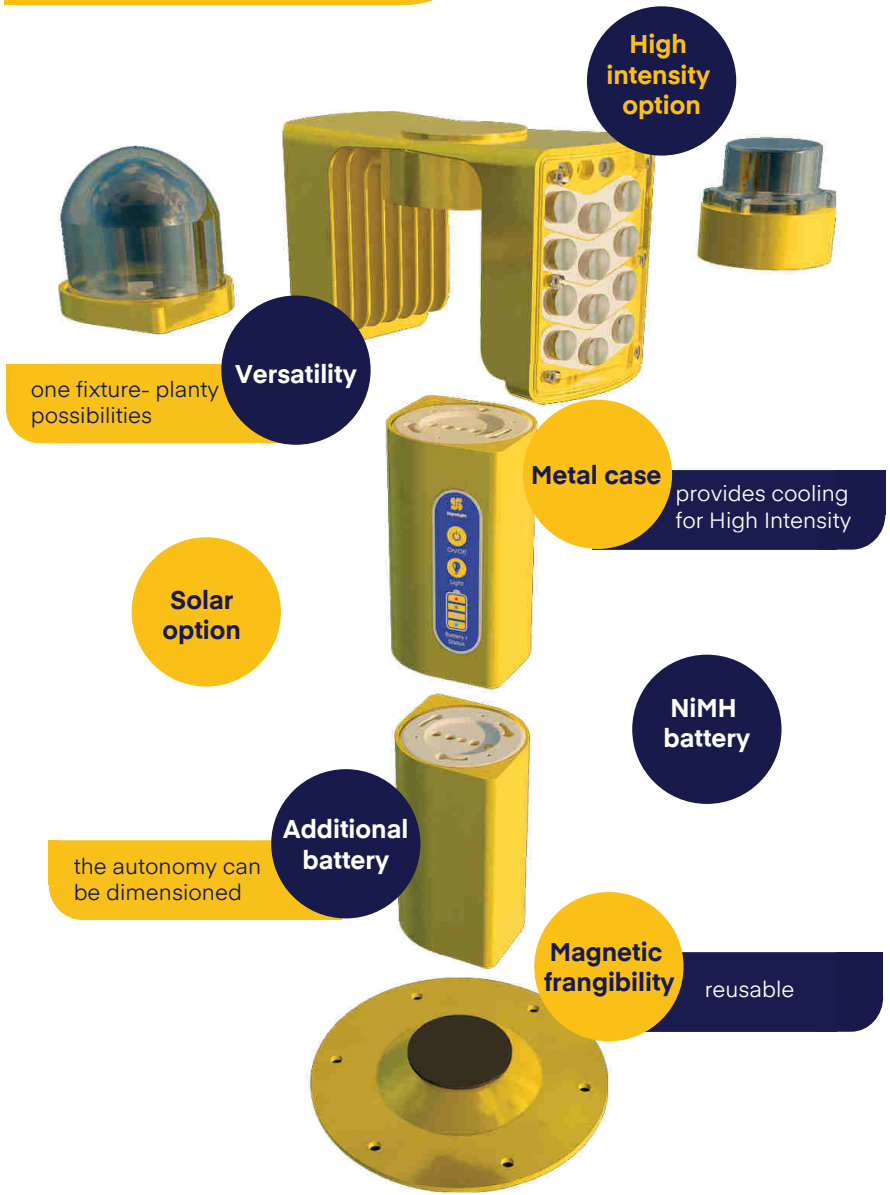
# New Extra Featrures




Signalight GO BEYOND

# About us

**Signalight** is an international designer and manufacturer of lighting solutions such as heliport, airport, obstruction and portable lighting systems.
Signalight is part of **Electro Max**, an important manufacturer of LED-based lighting, offering high-quality products. The company's headquarters is located in Petrosani, a picturesque town in Romania, in a modern facility with more than 50 employees.

## Quality

Our products have unique features and have proven their worth in some of the world's toughest conditions. Signalight is an authorized OSRAM manufacturer which has integrated successfully several management systems like ISO 9001, ISO 14001, OHSAS 18001. Our products comply with ICAO, FAA standards and European directives, are manufactured in the EU and come with an EC declaration of conformity.

## Mission & Vision

Our mission is to make every product better than any other in its class. Our policies on innovation and development guide us to smarter, safer and more sustainable choices for you

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# POLARIS - Portable Light Fixtures

NEW!

**MULTIFUNCTIONAL PORATBLE LAMP**

Threshold End
AL114-04-GR-RE

Threshold
AL 112-03-GR

Taxiway
AL 115-02-BL

Approach
AL 111-03-WH

Runway Edge
AL 113-06-WH

Runway End
AL 119-02-RE

The POLARIS light unit is lightweight, durable, waterproof and has been developed for fast deployment by non-skilled operators and will operate in the worst environmental conditions. All the units come with high power LEDs, matched by dedicated optics to drastically increase photometric performance, save on power consumption and reduce life cycle costs (compared to incandescent lamps).

## Multifunctional Portable Lamp

NEW!

Push 1 - **red** 10cd (unserviability, obstruction light)
Push 2 - **blue** 2 cd ( taxy)
Push 3 - **green** 50 cd ( TLOF, Threshold )
Push 4 - **white** 100 cd (FATO, Runway Edge, aiming, alingment)

## Battery Charging

The battery charger contains individual trays designed to host the POLARIS fittings during storage.

Charging rack

Individual charger

Solar Power

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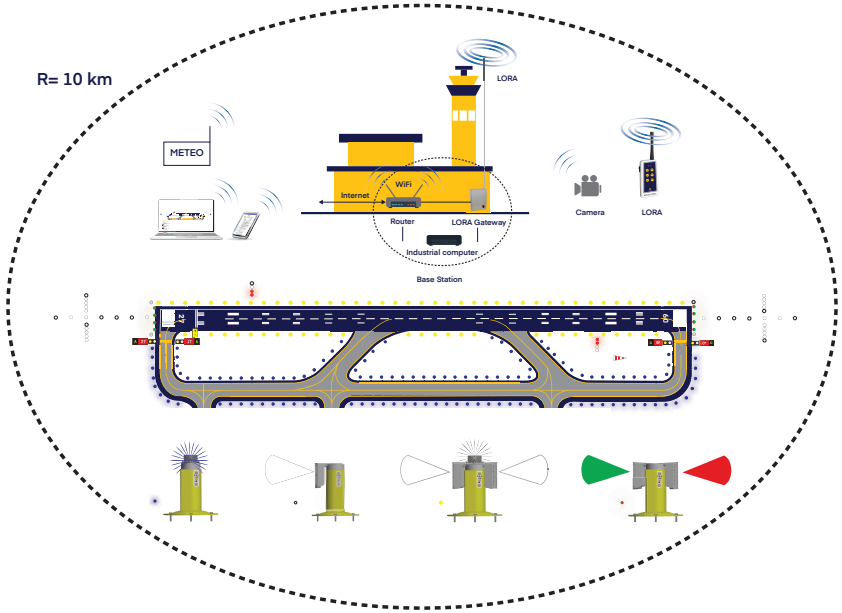
# Polaris 2.0 System

Airfield Portable Light Marking System POLARIS 2.0. features versatile signal lamps with magnetic assembly, resilient materials for all-weather use. Runs on independent or solar power, communicates via LORA. Includes base station, web app, remote control, video monitoring, weather station.

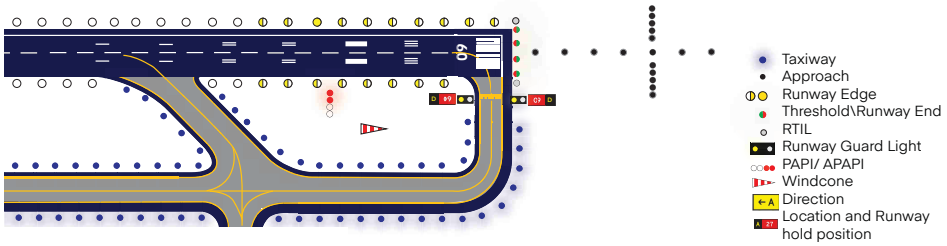



Low Intensity

Medium Intensity

High Intensity

# POLARIS System




The POLARIS can be used as a standalone fitting or as part of a complete Transportable Runway Lighting Kit. The POLARIS Lighting kit is used to set up a temporary or semi-permanent lighting system in order to allow aircraft to land on grass strips, frozen lakes, roadways or as emergency runway lighting on major airports.
Using optional IR LED sources, the system can also be NVG compatible.
The Polaris meets the standard of International Civil Aviation Organization (ICAO) Annex14, Federal Aviation Administration FAA (specifically: FAA AC 150/5345-46D; FAA AC 150/5345-50B for portable runway lighting).

RTIL

AL-080-24-WH

Runway Guard Light

AL-026-48-XX
(XX = RE or AM)

Location and Runway hold position


AL 070-XXX-XX

PAPI/ APAPI

AL 088-30-WH-RE

Windcone

AL-081-XX

Direction


AL 070-XXX-XX

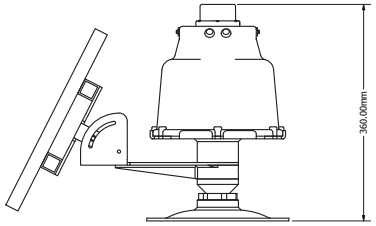
Solar Power System

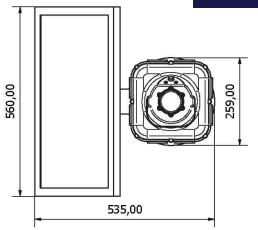
AL-152-AX



# POLARIS - Dimensions

**Weight per unit: 5 kg**




# POLARIS Optical Specifications

**Intensity values for all types of low/medium intensity portale lighting fixtures**

**High Intensity** - According to ICAO

**Medium Intensity** - 30% of ICAO

**Low Intensity** - 10% of ICAO

# POLARIS Autonomy

**Autonomy values for all types of Low/Medium Intensity portable lighting fixtures depending on the dimming level**

| Fixture type | Brightness level 100% | | | | Brightness level 30% | | | | Brightness level 10% | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Low Intensity | | Medium Intensity | | Low Intensity | | Medium Intensity | | Low Intensity | | Medium Intensity | |
| | Power | Autonomy | Power | Autonomy | Power | Autonomy | Power | Autonomy | Power | Autonomy | Power | Autonomy |
| APP | 4.5W | 32h | 9W | 16h | 1.35W | 106h | 2.7W | 53h | 0.45W | 13d | 0.9W | 6.5d |
| THR | 3.75W | 38h | 7.5W | 19h | 1.125W | 130h | 2.25W | 65h | 0.375W | 16d | 0.75W | 8d |
| TND- Green/Red | 3.5W | 40h | 7W | 20h | 1W | 136h | 2.1W | 68h | 0.35W | 17d | 0.7W | 8.5d |
| RWE | 6.25W | 22h | 12.5W | 11h | 1.875W | 76h | 3.75W | 38h | 0.625W | 9.6d | 1.25W | 4.8d |
| TWE | 5W | 57.6h | 5W | 28.8h | 1.5W | 96h | 1.5W | 96h | 0.5W | 12d | 0.5W | 12d |

# Key Features

| | |
|---|---|
| **LED Technology** | -No lamp changing for the entire lifetime of the light unit.<br>-low power, long autonomy |
| **Battery** | -Sealed Lead Acid Battery<br>-Affordable<br>-World wide available<br>- 5 years lifetime |
| **Controlling Modes** | 1.Local<br>2.Photocell<br>3.Timer<br>4.Radio<br>5.Handheld remote<br>6.PC software<br>7.Bluetooth |
| **Dimmable** | -continuosly from 1% to 100% |
| **Signal** | -synchronized flashing - 20-60 fpm continuous setting<br>-steady |
| **Maximum autonomy** | -17 days |
| **Drop in Charging System** | -no connectors needed |
| **Charging Level Indicator** | -on the front panel of each lighting fixture |
| **Light output** | 6906 cd |
| **Sensors** | 1.Photocell sensor<br>2.Temperature sensor<br>3.GPS<br>4.Clinometer |

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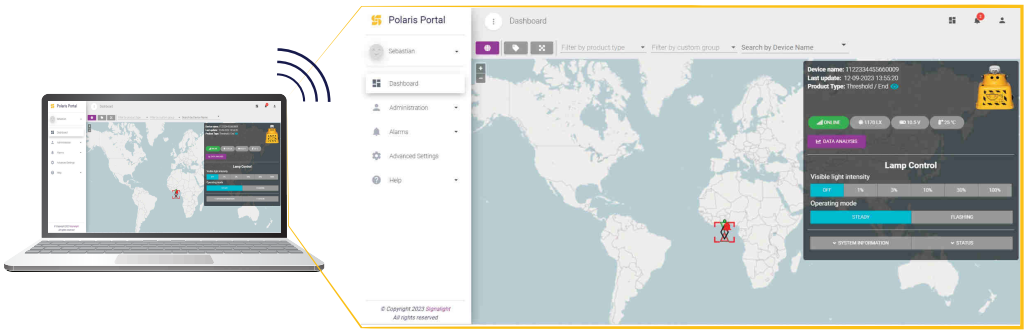
# Control System

The system uses bidirectional RADIO communication to control and monitor each light fixture. With this system, all units are automatically located and placed on a map using an internal GPS module installed in each fixture unit.

The software allows the user to: check the battery status; see the estimated time remaining until full discharge; change the brightness step; change the operating mode to steady or flashing. The fixtures can be controlled individually or in groups.

Users can check the battery level and battery status. If the battery is low, the intensity can switch automatically to the lower level, in order to extend the autonomy. A software routine can be created, allowing to turn units ON, OFF or to change the status during the day or according to a preset calendar.




**10 km RANGE**



Bidirectional RADIO Communication
GPS
Light sensor
Temperature sensor
Battery control
Brightness control