

signalight.com

Portable  
Lighting  
Systems

# POLARIS



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 **ElectroMax®**, an important manufacturer of LED-based lighting, offering high-quality products. The company's headquarters is located in Petroșani, a picturesque town in Romania, in a modern facility with more than 50 employees.



## Key Features

### Control Modes

- Local
- Photocell
- Radio
- Handheld remote
- PC software

### LED Technology

**NO lamp changing**  
for the entire lifetime  
of the light unit.

**Low power,**  
long autonomy

## Battery

Sealed Lead Acid,  
NiMH or LiFePO<sub>4</sub>  
Affordable &  
available worldwide  
**5 years lifetime**

### sensors

Photocell

Temperature

Clinometer

### Light Output

- Available in **Low, Medium & High Intensity**
- Compliant with **international & regional standards**

### Dimmable

1%

3%

10%

30%

100%



## POLARIS Lamps

**Polaris** lamps are battery-powered, robust, and reliable fixtures that combine long-life LED technology with a rechargeable battery for effortless installation and maintenance.

With low energy consumption and optional features such as solar panels, radio control and ARCAL activation, they ensure maximum flexibility across a wide range of operations.

**Polaris** lamps are available in three versions: **V1**, **V2**, and **V3** each designed to meet specific operational requirements.



## Versions



**V1**



**V2**



**V3**



## Models



### Airport models

- Approach
- Threshold
- Threshold End
- Runway Edge
- Runway End
- Taxiway
- Unserviceability
- Emergency
- RTIL



### Heliport models

- Approach
- TLOF
- FATO
- Taxiway



## POLARIS V1

**Polaris V1** is a lightweight, easy-to-handle portable lamp, designed to simplify deployment and operation. Its compact polycarbonate body makes it exceptionally light and easy to maneuver, while its straightforward installation and low-maintenance design allow for rapid setup.



## POLARIS V2

**Polaris V2** is engineered for performance and efficiency in any environment. Its compact aluminum design provides a space-saving solution without compromising strength. The robust construction ensures enhanced durability even under intensive use, making it ideal for demanding conditions.



## POLARIS V3

**Polaris V3** is a versatile portable lamp designed for flexible deployment in diverse environments. Its durable aluminum body ensures long-lasting performance, while the four built-in solar panels provide efficient, sustainable energy for extended operation. Polaris V3 combines robustness with adaptability, making it ideal for projects requiring reliable illumination and eco-friendly power solutions.





## Charging options

**Polaris** lamps offer flexible charging options to suit any operational need. They can be charged via AC, DC, drop-in, or solar power, using either the built-in panels or external solar panels, ensuring reliable and convenient power in any situation.



## AC charging

AC Charging allows the lamp to draw power directly from standard mains electricity. This ensures a reliable and consistent energy source, making it easy to recharge your **Polaris** lamps wherever a wall outlet is available. Designed for convenience, it keeps your lamps ready for operation with minimal effort.



## DC charging

DC Charging allows the lamp to be powered directly from DC sources, such as vehicles, batteries, or generators. This ensures reliable charging in remote or mobile setups, providing flexibility wherever AC power is unavailable. Fast and convenient, it keeps your **Polaris** lamps operational in any environment.



## Drop-in charging

Quick and effortless charging is achieved by simply placing the lamp in the dock. This method ensures fast power restoration with minimal effort. Designed for speed and convenience, it allows your **Polaris** lamps to be ready for use in no time.



## Solar charging



**Polaris** lamps can be charged using either built-in solar panels or external solar panels. This eco-friendly option provides reliable, sustainable power, making the lamps ideal for remote locations or off-grid operations. Designed for convenience and efficiency, it ensures your **Polaris** lamps stay ready whenever needed.



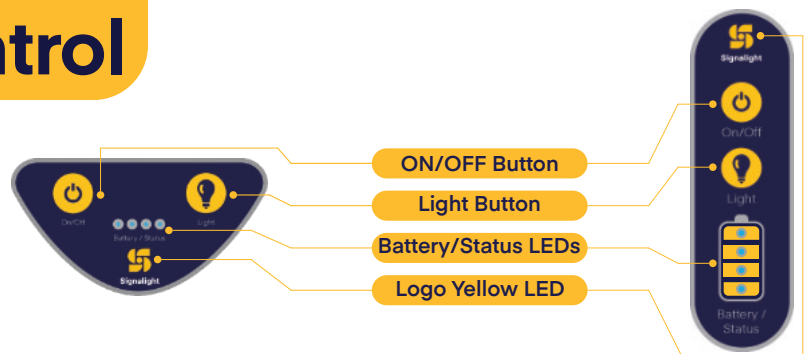
## Control

**Polaris** lamps offer versatile control options to suit any operational need.

They can be managed manually via built-in buttons on the casing, remotely using one-way radio for simple command transmission, or through advanced bidirectional radio communication with GPS-enabled monitoring and software-based scheduling. This ensures maximum flexibility, convenience, and reliability in any deployment scenario.

## Manual Control

Each **Polaris** lamp features built-in control buttons on the casing, allowing users to easily adjust brightness, switch modes, and turn the unit ON or OFF directly.



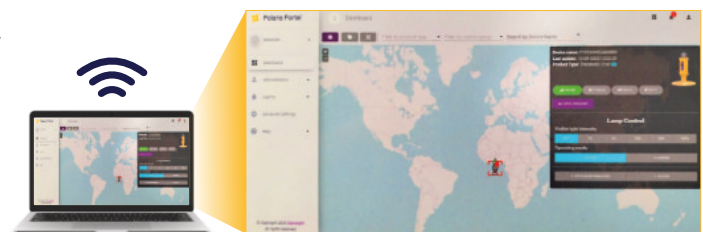
## One-way Radio Control

Enables simple and reliable remote control by transmitting commands directly to the lamps without requiring feedback, providing efficient communication for managing multiple units over a dedicated radio channel.



## Two-way Radio Control

The system uses bidirectional radio and built-in GPS to monitor and control each fixture. Users can check battery status, adjust brightness and modes, control units individually or in groups, and schedule automatic ON/OFF or mode changes. Low battery triggers automatic intensity reduction to extend operation.

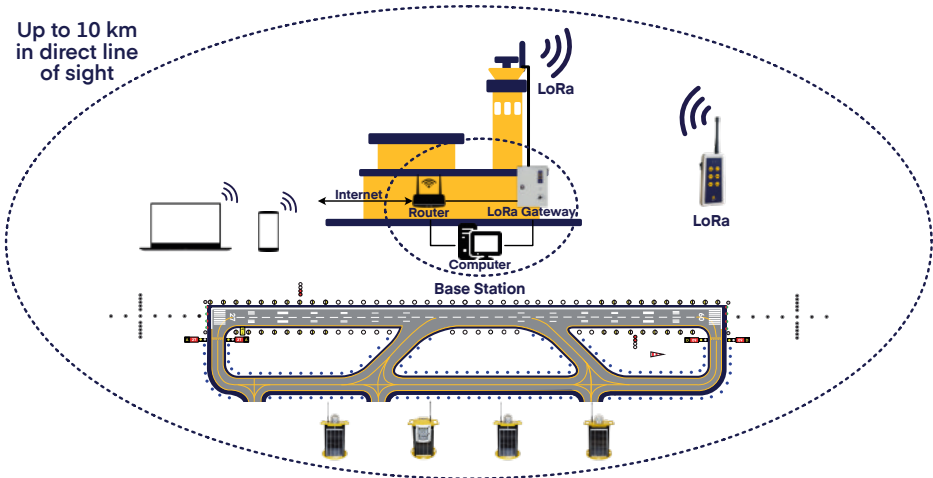






# POLARIS System

**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.



**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, road-ways or as emergency runway lighting on major airports. Using optional IR LED sources, the system can also be NVG compatible.

**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.



Runway Guard Light



Runway Threshold Identification Light



Location & Runway Hold Position



PAPI / APAPI



Windcone



Direction



Solar Power System



Signalight

**Safely guiding  
your way**

**2026**

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