PORTABLE LIGHTING SYSTEMS

POLARIS

Signalight

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.
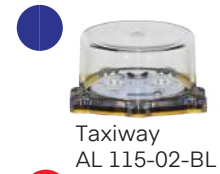
Quality
Our products have unique features and have proven their worth in some of the world's toughest conditions. Signalight is an authorized OSRAM manufacturer which has integrated successfully several management systems like ISO 9001, ISO 14001, OHSAS 18001. Our products comply with ICAO, FAA standards 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
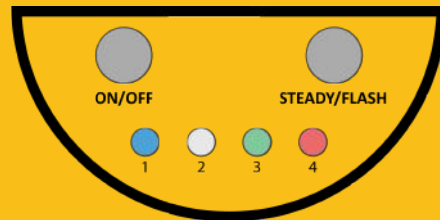
POLARIS - Portable Light Fixtures

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).

Battery Monitoring & Charging

A set of four LEDs gives a permanent indication of the battery status.

ON/OFF   STEADY/FLASH

1   2   3   4

1 - 1ST STAGE OF CHARGING   3 - FULLY CHARGED BATTERY
2 - 2ND STAGE OF CHARGING   4 - DISCHARGED BATTERY

Battery Charging

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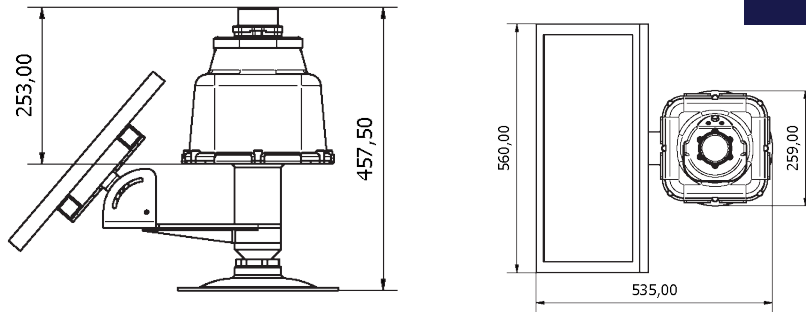
Charging rack

Individual charger

Solar Power

POLARIS - Dimensions

Weight per unit: 5 kg

POLARIS Optical Specifications

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

Fixture type	APP	THR	TND- Green	TND- Red	RWE	END
Low Intensity	2368 [cd]	3270 [cd]	2574 [cd]	1088 [cd]	2104 [cd]	1088 [cd]
Medium Intensity	6906 [cd]	4137 [cd]	3239 [cd]	1088 [cd]	1081 [cd]	1088 [cd]

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

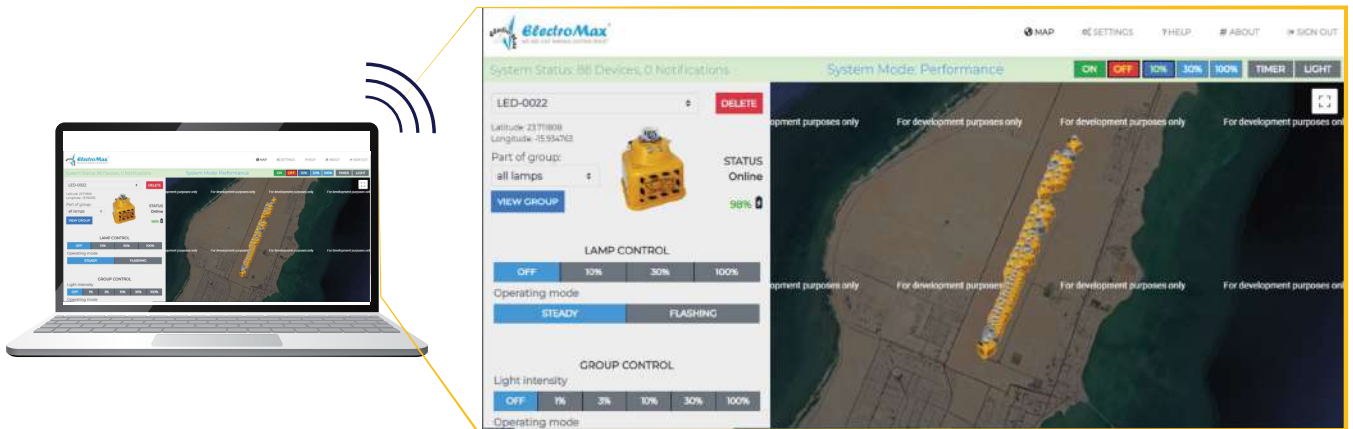|	
LED Technology	-No lamp changing for the entire lifetime of the light unit. -low power, long autonomy
Battery	-Sealed Lead Acid Battery -Affordable -World wide available - 5 years lifetime
Controlling Modes	1.Local 2.Photocell 3.Timer 4.Radio 5.Handheld remote 6.PC software 7.Bluetooth
Dimmable	-continuosly from 1% to 100%
Signal	-synchronized flashing - 20-60 fpm continuous setting -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 2.Temperature sensor 3.GPS 4.Clinometer

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.
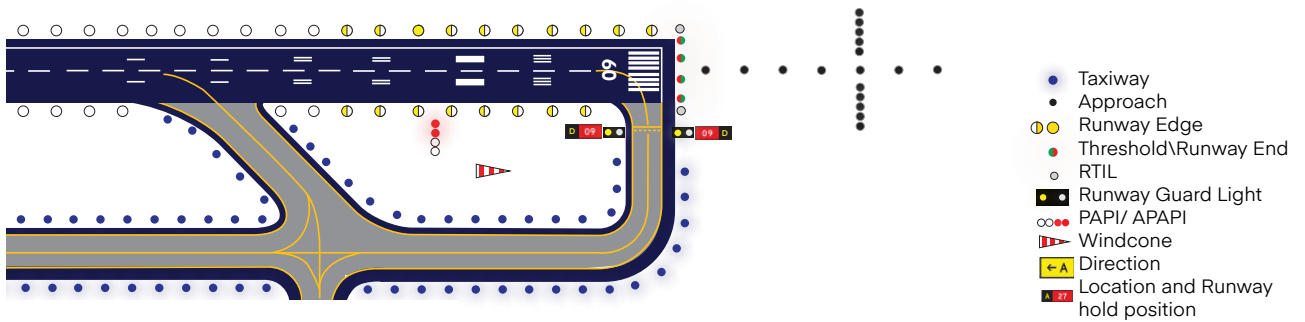

10 km RANGE

Bidirectional RADIO Communication

POLARIS System

- ● Taxiway
- ● Approach
- ◐◐ Runway Edge
- ●● Threshold\Runway End
- ○ RTIL
- Runway Guard Light
- ∞●● PAPI/ APAPI
- Windcone
- ←A Direction
- A 27 Location and Runway hold position

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)

A 27 Location and Runway hold position

AL 070-XXX-XX

∞●● PAPI/ APAPI

AL 088-30-WH-RE

Windcone

AL-081-XX

←A Direction

AL 070-XXX-XX

Signalight

Safely guiding
your way.