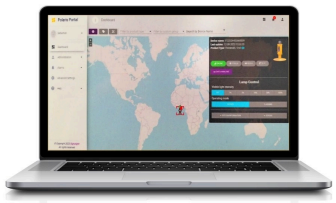
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TECHNICAL DATASHEET · PORTABLE LIGHTING · POLARIS RADIO CONTROL SYSTEM

Polaris Web Control – Lighting Control and Monitoring

EcoSolaris code **ECO-AL-423**

Made in Romania Manufactured in the EU







Polaris Web Control is a web interface for real-time control and monitoring of an entire airfield lighting system or other wide-area installation. It needs no installation and runs in any modern browser on a desktop, laptop, tablet or phone. Lights appear on a map at their GPS positions and can be controlled individually, by group or system-wide, including automatic schedules.

COMMUNICATION WITH LIGHTS
Bidirectional radio, long-range LoRaWAN

CONTROL LEVEL
Individual, group or whole system

OPERATING MODE
Steady or flashing (where supported)

FLASH FREQUENCY
Set per group, synchronised on a common clock

Price on request

EcoSolaris technical support · Dubai

Technical specifications

Product type	Web application for lighting control and monitoring
Access	Any modern web browser, no installation; desktop, laptop, tablet, mobile
Connection	HTTPS, from the local network or over the internet (open port on the gateway)
Security	User / password authentication; automatic session expiry
Communication with lights	Bidirectional radio, long-range LoRaWAN
Map	Google Maps (map / satellite / terrain), positions from each light's GPS
Control level	Individual, group or whole system
Commands	On / off; dimming 1% / 3% / 10% / 30% / 100% (where supported)
Operating mode	Steady or flashing (where supported)
Flash frequency	Set per group, synchronised on a common clock
Battery monitoring	Level in %, estimated time to discharge, Eco Mode and Low Battery thresholds
Automation	Scheduling by time events, calendar or lighting conditions
Notifications	Information, warning, error; green / yellow / red colour coding
Requirements	Polaris hardware infrastructure, local network, Google Maps API key
NVG compatibility	Yes, with optional IR LED sources

Features

- No installation: runs directly in the browser
- Real-time map with the position and status of every light
- Individual, group or system-wide control
- Battery monitoring with automatic switch to lower intensity on low battery
- Automatic scheduling by time, calendar or lighting conditions
- Bouncing map markers highlight lights with errors
- Customisable application logo

Standards and compliance

- Polaris lighting system: ICAO Annex 14
- FAA AC 150/5345-46D
- FAA AC 150/5345-50B – portable runway lighting

Configuration options

- Infrared (IR) LED sources for NVG compatibility
- Standalone use or as part of a transportable runway lighting kit

Compatible accessories

AL-165-AX	Polaris remote control
AL-159-AX	Polaris base station

Applications

Temporary or semi-permanent runways: grass strips, frozen lakes, roadways

Emergency runway lighting at major airports

Heliports and FATO areas with portable lights

Night vision goggle (NVG) operations