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TECHNICAL DATASHEET · POLARIS RADIO CONTROL SYSTEM · DESKTOP CONSOLE

Polaris Radio Console

EcoSolaris code **ECO-AL-2912** | Ordering code **AL-150-AX** | **Made in Romania** Manufactured in the EU



Standalone desktop console for radio control of Polaris lights at airports and heliports. It manages up to two lighting circuits (for example THR/END and PAPI) with three brightness steps and an LCD showing the last command sent.

PRODUCT CODE	COMMUNICATION
AL-150-AX	**LoRa radio**
RANGE	**BRIGHTNESS STEPS**
2 km up to 10 km	**10%, 30% and 100%; circuit ON/OFF**

Price on request | **EcoSolaris technical support · Dubai**

Technical specifications

Product code	AL-150-AX
Communication	LoRa radio
Frequencies (factory set)	868 MHz (Europe), 915 MHz (USA), optional 433 MHz
Range	2 km up to 10 km
Antenna	built-in or external; directional or omnidirectional
Controlled circuits	up to 2 independent circuits (e.g. THR/END, PAPI)
Brightness steps	10%, 30% and 100%; circuit ON/OFF
Operating modes	visible (light) and invisible (infrared)
Display	LCD showing the last command sent
Firmware update	micro-USB port
Power supply	110–240 V, 50/60 Hz
Housing	powder-coated metal, grey

Features

- Standalone desktop unit – no extra infrastructure required
- Controls up to two independent lighting circuits
- Dedicated front-panel buttons per circuit: OFF and brightness steps
- LCD display with the status of the last command sent to the lights
- Visible and infrared modes for night-vision operations
- Software update via the micro-USB port

Standards and compliance

- ICAO Annex 14, Volume II – Heliports
- EMC emission: EN55032 (CISPR32) Class B, EN61000-3-2 Class A, EN61000-3-3, EAC TP TC 020
- EMC immunity: EN61000-4-2,3,4,5,6,8,11; EN55024, light industry level, criteria A; EAC TP TC 020

Materials and construction

- Housing: powder-coated metal (grey)
- Cable gland: nickel-plated brass

Configuration options

- Factory-set radio frequency: 868 MHz, 915 MHz or 433 MHz
- Built-in or external antenna
- Directional or omnidirectional antenna

Ordering code structure

`AL - 150 - AX`

AL	Series indicator (airfield lighting)
150	Product indicator – radio console
AX	Product type: accessory

Applications

- **Control towers and aerodrome operations rooms**
- **Heliports and helicopter landing areas**
- **Control of THR/END and PAPI circuits with Polaris lights**
- **Military operations with infrared lighting**