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TECHNICAL DATASHEET · HELIPORT LIGHTING · GUIDANCE SYSTEM

HAPI – Helicopter Approach Path Indicator

EcoSolaris code **ECO-AL-1531** | Ordering code **AL-117-76-GR-RE** | **Made in Romania** Manufactured in the EU



The HAPI serves the approach to a heliport by day and night, giving the pilot visual information on the correct approach slope. Its signal has four discrete sectors – above slope, on slope, slightly below and below slope – produced by steady or flashing green and red LEDs.

ORDERING CODE
AL-117-76-GR-RE

LIGHT SOURCE
72 high-power LEDs (36 green and 36 red)

ON-SLOPE SECTOR
45 minutes of arc

VERTICAL AIMING ANGLE
up to 12°

Price on request | EcoSolaris technical support · Dubai

Technical specifications

Ordering code	AL-117-76-GR-RE
Light source	72 high-power LEDs (36 green and 36 red)
Signal format	above: flashing green (2 Hz); on slope: steady green; slightly below: steady red; below: flashing red (2 Hz)
On-slope sector	45 minutes of arc
Minimum intensity (red/green)	9000 cd at 3° azimuth / 2° elevation; 6375 cd at 6°/4°; 3750 cd at 9°/6°; 1875 cd at 12°/8°; 375 cd at 15°/10°
Vertical aiming angle	up to 12°
Clinometer	built-in digital, factory-set zero; alarm and LED shutdown on deviation > 0.5°
Power supply	48 V DC from controller; 24 V DC from solar system; 110–230 V, 50/60 Hz; 2.8–6.6 A series from CCR
Brightness steps	100%, 30%, 10% (all power options)
Power consumption	max. 50 W + 20 W heater
Recommended transformer (CCR)	100 W
Degree of protection	IP65
Operating temperature	-40 °C to +55 °C
Humidity	0–100%
Overall dimensions	583 × 430 × 406.5 mm
Packaging	ISPM15-compliant wooden crate, 650 x 500 x 1400 mm, 26 kg
Mounting	frangible couplings and tripod

Features

- 4-sector signal: above, on slope, slightly below, below
- Day and night operation
- Built-in digital clinometer: field position saved by pressing both buttons together
- Alarm and automatic shutdown on displacement > 0.5°
- Four power options, all dimmable
- Hardened front glass for sandblast protection
- Optional heater with internal thermostat

Standards and compliance

- ICAO Annex 14, Volume 2 (Heliports), Fourth Edition, July 2013
- Photometry: ICAO Figure 5-11 illustration 4 – HAPI system and Figure 5-15 – HAPI signal format
- Chromaticity: Section 5.3.5.30; ICAO Annex 14 Vol. I, fig. A1-1b (solid state aeronautical ground lights)
- ISPM15-compliant packaging

Materials and construction

- Housing: powder-coated aluminium, RAL 1004 (aviation yellow)
- Fastening system: powder-coated aluminium, RAL 1004
- Anti-glare visor: powder-coated aluminium, RAL 9005 (gloss black)
- Diffuser: hardened front glass for sandblast protection
- Cable gland: nickel-plated brass

Configuration options

- 48 V DC from controller, 3-core cable (V+, V-, dimming)
- 24 V DC from solar system, 3-core cable (V+, V-, dimming)
- 230 V AC directly from mains (L, N, PE), dimming via contacts
- 2.8–6.6 A via isolating transformer from CCR, dimming via current
- Heater resistor with thermostat (specify when ordering)

Ordering code structure

AL - 117 - 76 - GR-RE

AL	Series indicator: Airfield Lighting
117	Product indicator: HAPI
76	Number of LEDs (72 LEDs: 36 green and 36 red)
GR-RE	Light colour: green – red

Compatible accessories

AL-173-AX	Tripod

Applications

Hospital and high-rise rooftop heliports · **Ground-level heliports and emergency bases** · **Offshore platforms and oil & gas sites** · **Remote solar-powered heliports (24 V DC)**