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TECHNICAL DATASHEET · AIRPORT LIGHTING · VISTA HI ELEVATED LIGHTS

Elevated High Intensity Lights

EcoSolaris code **ECO-AL-3537**

Ordering code **AL-134/135/136/138-XX-XX**

Made in Romania Manufactured in the EU







The Vista range of elevated high intensity lights covers approach, runway edge, runway end, threshold and threshold wing-bar lights. They are designed to ICAO Annex 14 for precise light distribution and colorimetry, using high-power LEDs and built for simple maintenance.

APPROACH HI – AL-134-10-WH
white · 38 W · 20 000 cd (100%)

RUNWAY END HI – AL-138-04-RE
red · 7 W · 2500 cd (100%)

THRESHOLD HI – AL-136-06-GR
green · 12.5 W · 10 000 cd (100%)

THRESHOLD WING-BAR HI – AL-137-06-GR
green · 12.5 W

Price on request

EcoSolaris technical support · Dubai

Technical specifications

Approach HI – AL-134-10-WH	white · 38 W · 20 000 cd (100%)
Runway edge HI – AL-135-07-WH	17 W · white 10 000 cd / yellow 4000 cd / red 1500 cd (100%)
Runway edge HI – omnidirectional beam	50 cd in all azimuths up to 15° vertical (circling)
Runway end HI – AL-138-04-RE	red · 7 W · 2500 cd (100%)
Threshold HI – AL-136-06-GR	green · 12.5 W · 10 000 cd (100%)
Threshold wing-bar HI – AL-137-06-GR	green · 12.5 W
Power supply	1.4 A DC from controller, dimmable
Optional supply	230 V AC direct from mains (smaller systems)
Brightness steps	1%, 3%, 10%, 30%, 100%
Temperature range	-55° to +55°
Degree of protection	IP67
Ka tested	salt mist
Weight	3 kg
Wiring	fixture pre-cabled with 0.5 m cable
Toe-in (runway edge)	3.5° for 45 m wide runways; 4.5° for 60 m wide runways
Photometry	ICAO Annex 14 Vol. I, Fig. A2-1 / A2-4 / A2-8 / A2-10

Features

- High-power LED technology, low energy consumption
- Lightweight aluminium-alloy body, easy to handle in the field
- Steady burning with 5 brightness steps: 1%, 3%, 10%, 30%, 100%
- Optional night-only operation with photocell
- IP67, salt-mist tested, -55° to +55°
- Simple construction, easy maintenance, anti-condensation valve
- Frangible mounting on base plate, tripod or shallow base

Standards and compliance

- ICAO Annex 14, Volume I – Aerodromes
- IEC TS 61827 – Electrical installations for lighting and beaconing of aerodromes; characteristics of inset and elevated luminaires
- Colours to ICAO Annex 14 Vol. I, Fig. A1-1b (solid-state lighting)

Materials and construction

- Housing: powder-coated aluminium, RAL 1004 (aviation yellow)
- Disperser: glass
- Cable gland: nickel-plated brass
- Fasteners: stainless steel
- Anti-condensation valve fitted

Configuration options

- 1.4 A DC supply from the controller, dimmable (dedicated to the Vista system)
- Optional for smaller systems: direct 230 V AC mains supply
- Optional infrared (IR) LED for night-vision operations
- Optional photocell (PE), only for 230 V AC powered versions
- Mounting: Ø260 mm base or tripod with frangible coupling, Ø160 mm shallow base, or 8" IEC shallow base with adapter ring
- 3.5° or 4.5° toe-in for runway edge lights

Ordering code structure

AL - 134/135/136/137/138 - XX - XX - XX

AL	Series indicator (airfield lighting)
134	Elevated Approach HI
135	Elevated Runway Edge HI
136	Elevated Threshold HI
137	Elevated Threshold Wing-Bar HI
138	Elevated Runway End HI
10 / 07 / 06 / 04	Number of LEDs (+1 when IR is included: 11 / 08 / 07 / 05)
WH, WH/WH, WH/YE, WH/RE, GR, RE	Colour: white, white/white, white/yellow, white/red, green, red; /IR suffix when infrared is included
PE / 00	With photocell / without photocell (photocell only for 230 V AC)
35 / 45	Toe-in 3.5° / 4.5° (runway edge only; omitted from the code when not included)

Compatible accessories

AL-213-AX	Frangible coupling 2.5" (Polaris V2 & Vista)
AL-173-AX	Tripod
AL-102-AX	Ø260 mm base plate
AL-103-AX	Mounting flange
AL-104-AX	Standard Ø160 mm shallow base
AL-105-AX	Adapter ring for 8" shallow base
AL-106-AX	Ø160 mm surface-mounted base
AL-107-AX	IP68 electrical junction box
AL-108-AX	Ø160 mm shallow base installation jig
AL-122-AX	Cable with KDC501 EFLA connector

Applications

Approach lighting systems · **Runway edge and circling guidance** · **Runway threshold and runway end** · **Threshold wing bars** · **Civil and military airports and aerodromes**