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TECHNICAL DATASHEET · AIRPORT LIGHTING · VISTA LI/MI ELEVATED LIGHTS

Elevated Low/Medium Intensity Lights

EcoSolaris code **ECO-AL-3563**

Ordering code **AL-101/102/103/104/106/178-XX-XX**

Made in Romania Manufactured in the EU









The Vista range of elevated low and medium intensity lights covers approach, runway edge, runway end, threshold, combined threshold/end and threshold wing-bar lights. They are designed to ICAO Annex 14 for aerodromes with non-precision or non-instrument approaches.

RUNWAY EDGE – MEDIUM INTENSITY (30%)
white 3000 / yellow 1200 / red 450 cd

RUNWAY END – AL-106-02-RE
red · 4.2 W · 250 cd (10%) / 750 cd (30%)

THRESHOLD – AL-102-03-GR
green · 6.3 W · 1000 cd (10%) / 3000 cd (30%)

THRESHOLD/END – AL-104-04-GR/RE
bidirectional green/red · 8.4 W

Price on request

EcoSolaris technical support · Dubai

Technical specifications

Approach – AL-101-03-WH	white · 12.6 W · 2000 cd (10%) / 6000 cd (30%)
Runway edge – AL-103-06-WH	8.4 W · 10%: white 1000 / yellow 400 / red 150 cd
Runway edge – medium intensity (30%)	white 3000 / yellow 1200 / red 450 cd
Runway edge – omnidirectional beam	50 cd in all azimuths up to 15° vertical (circling)
Runway end – AL-106-02-RE	red · 4.2 W · 250 cd (10%) / 750 cd (30%)
Threshold – AL-102-03-GR	green · 6.3 W · 1000 cd (10%) / 3000 cd (30%)
Threshold/end – AL-104-04-GR/RE	bidirectional green/red · 8.4 W
Threshold wing-bar – AL-178-03-GR	green · 6.3 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 (edge and threshold/end)	3.5° for 45 m wide runways; 4.5° for 60 m wide runways
Photometry	ICAO Annex 14 Vol. I, Fig. A2-1 / A2-3 / 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 and threshold end lights

Ordering code structure

AL - 101/102/103/104/106/178 - XX - XX - XX

AL	Series indicator (airfield lighting)
101	Elevated Approach
102	Elevated Threshold
103	Elevated Runway Edge
104	Elevated Threshold End
106	Elevated Runway End
178	Elevated Threshold Wing-Bar
03 / 06 / 02 / 04	Number of LEDs (+1 when IR is included)
WH, WH/WH, WH/YE, WH/RE, GR, RE, GR/RE	Colour; /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 and threshold end; omitted 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

Aerodromes with non-precision or non-instrument approaches (no ILS) **Runway edge and circling guidance**

Threshold, runway end and threshold wing bars **Regional, general aviation and private airfields**