

VISTA – LED Medium Intensity Runway Lighting System

The **VISTA** System is designed to provide the benefits of LED lighting to visual approach aerodromes such as regional airports, airstrips and military air bases. It is a reliable and flexible product, being easy to fit in any kind of infrastructure.



The high-quality polycarbonate and aluminium components make the VISTA lights suitable for use in any kind of conditions, at temperatures ranging between -50°C to +55°C. All the light fixtures are IP66 certified.

Compliance

- ICAO
- FAA AC 150/5340-24
- Lighting characteristics (equivalent or better) of FAA AC 150/534-50a for portable runway lighting
- Eng. Brief No 67 Light Sources other than Incandescent and Xenon for Airport and Obstruction Lighting Fixtures

Benefits

- Low power consumption
- Almost zero maintenance
- Operational even when the pilot is not properly aligned (non-instrument approach), up to 10° offset

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- Extended operating hours for the airfield
- Designed for easy mounting

Features

- Easy to install
- Limited civil works with no specialized skills required
- Compact & lightweight aluminium body
- Optical diffuser made from scratch resistant UV protected polycarbonate
- 3 Step Light Dimming
- Up to eight circuit DCR (Direct Current Regulator) Lighting Controller
- Pre-cut cables with FAA L-823 connectors
- Weatherproof
- Polyester powder golden yellow finish

Components

- Light fittings
- Mounting System
- DCR Power Supply / Controller
- Pre-cut cables and connectors

Light Fittings

- Approach
- Threshold
- Runway Edge
- Runway End
- Taxiway Edge
- PAPI



VISTA RUNWAY EDGE



VISTA APPROACH



VISTA THRESHOLD END



VISTA TAXIWAY

APPLICATION	COLOUR	PEAK	MAIN BEAM			SECONDARY BEAM		
			HORIZONTAL	VERTICAL	AVERAGE	HORIZONTAL	VERTICAL	AVERAGE
APPROACH	WHITE	700Cd	-5°/+5°	1°/5°	600Cd	-10°/+10°	0°/8°	600Cd
THRESH- OLDWB	GREEN	700Cd	-5°/+5°	1°/5°	700Cd	-10°/+10°	0°/8°	600Cd
THRESHOLD	GREEN	400Cd	-5°/+5°	1°/5°	300Cd	-10°/+10°	0°/8°	250Cd
R/W EDGE	WHITE	800Cd	-5°/+5°	1°/5°	700Cd	-10°/+10°	0°/8°	600Cd
R/W END	RED	350Cd	-5°/+5°	1°/5°	300Cd	-10°/+10°	0°/8°	250Cd
R/W END UNI	RED	650Cd	-5°/+5°	1°/5°	550Cd	-10°/+10°	0°/8°	150Cd
T/W EDGE	BLUE	40Cd	360°	0°/45°	20Cd	360°	49°/90°	5Cd

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Photometric Specification

- Main beam (Vertical: 1\50; Horizontal: -5\50) – rectangle
- Secondary beam (Vertical: 0\80; Horizontal: -10\100) – ellipse

Mounting System

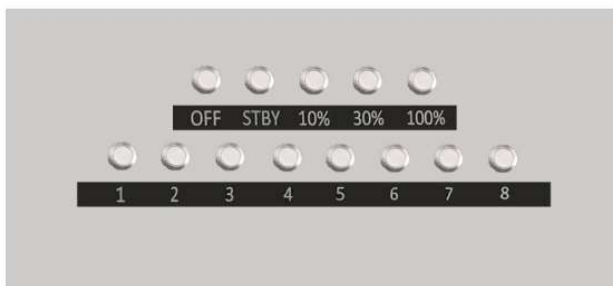
- Fiberglass pyramid shaped structure showing red/white standard markings
- Aluminium tube with breakable coupling on base plate or shallow base

DCR

The DCR (Direct Current Regulator) Lighting Controller powers the system, delivering a 1.4A current.

Features

- Max output voltage 400 V
- Up to 8 individual circuits
- Input power 120/230 VAC 50/60 Hz \pm 10%
- Main characteristics in accordance with FAA L-828
- Brightness control in 3 steps (10%, 30% and 100%)
- Open circuit protection and over current protection
- CE, LVD, EMC compatible
- Efficiency at full load: higher than 90%



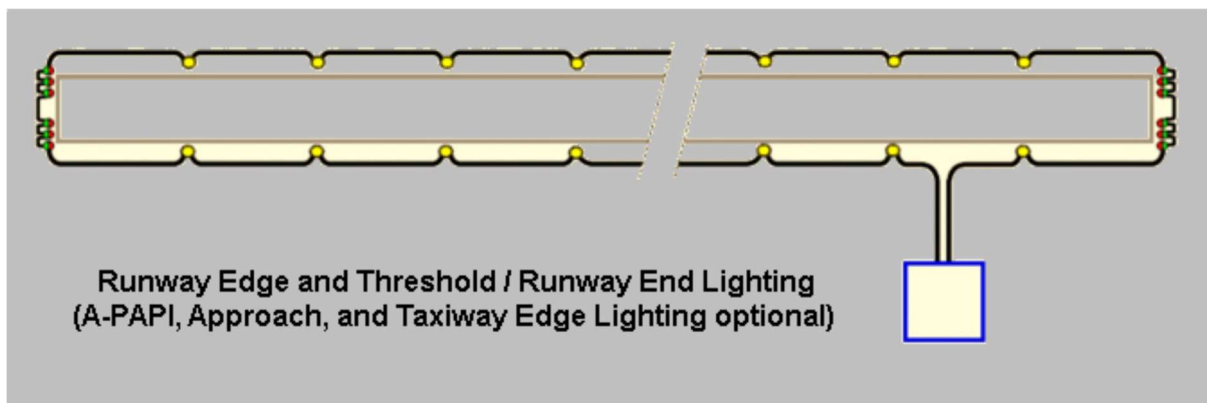
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Optional

- FAA L-854 Radio Remote Control enabling pilot control without assistance from the ground
- A-PAPI system
- Omni-directional inset runway edge lights
- Windsock



Typical VISTA System Layout



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The **VISTA** DC Power Supply System

Since the LED is a low current device there is no need for 6.6A circuits that should be converted to much lower amperage for LED usage. Moreover, the LED being a direct current device, the power distribution circuit is greatly simplified using a DC constant current power supply.

To cope with this new requirement, and following their policy of constant innovation, ALS have developed a new concept based on a Constant Current DC Power Supply unit delivering a 1,4 Amps instead of the traditional 6.6 Amps.

The 1,4 Amps value is the best suited for LED lighting engines eliminating the need for sophisticated and fragile electronics inside the light fitting.

This concept also eliminates the need for series circuit transformers with their losses and expense, a specific device ensuring the continuity of the circuit upon failure of any single light unit is provided.