

Heliport Approach Slope Indicator



- Very easy site adjustment by using a clinometer (precision 1° minute)
- Easy maintenance : Replacement of main elements (lamps, front glass, lenses or reflectors) does not require either unit adjustment or any special tools

Typical Application



HAPI: Visual Approach Slope Indicator for Heliport

Design ensures very good watertightness and protection against corrosion.

Very easy access to all components by removing the cover. Use of dichroic filters with high transmission factor and good thermal resistance. The HBA is fitted with dedicated subassemblies which enable the HBA to automatically switch off when:

- 1) A misalignment greater than +/- 5° (+/- 30 minutes) is detected.
- 2) A failure of the flashing mechanism is detected.

- Compliant to:
- ✓ ICAO Annex 14
 - ✓ FAA AC 150/5390-2A
 - ✓ French S.T.N.A.t



PHYSICAL CHARACTERISTICS

Dimensions	
Height	Approx. 495 mm (dependent on mounting)
Width	300 mm
Length	1115 mm
Weight	Approx 30 kg
Mounting	4 frangible legs, allowing a precise adjustment
Temperature Range	- 35 °C to + 55 ° C (optional heater for use in high humidity or cold areas, (with independent power supply 220/240 VAC)

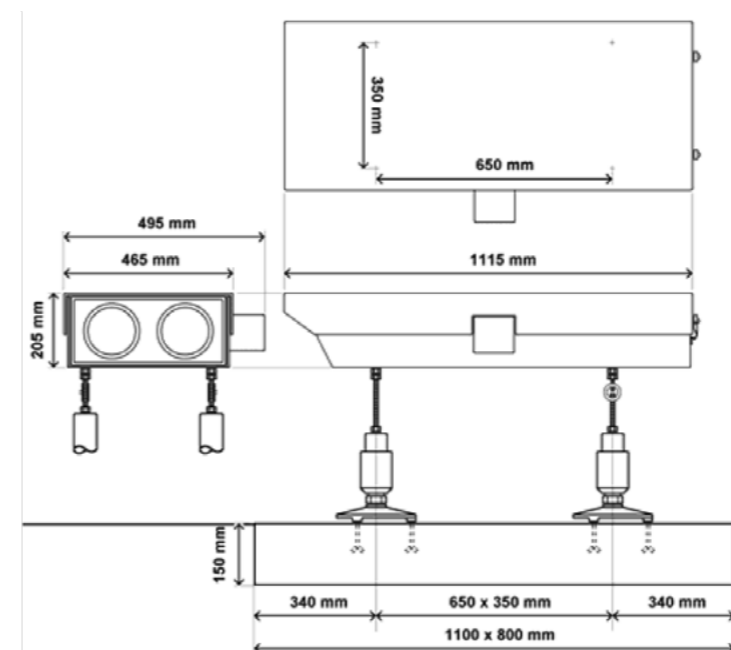
OPTICAL CHARACTERISTICS

Light Source	Two 24 Vac G6.35/15 of 250 W pre-focused halogen lamps
Light Color	Red and green

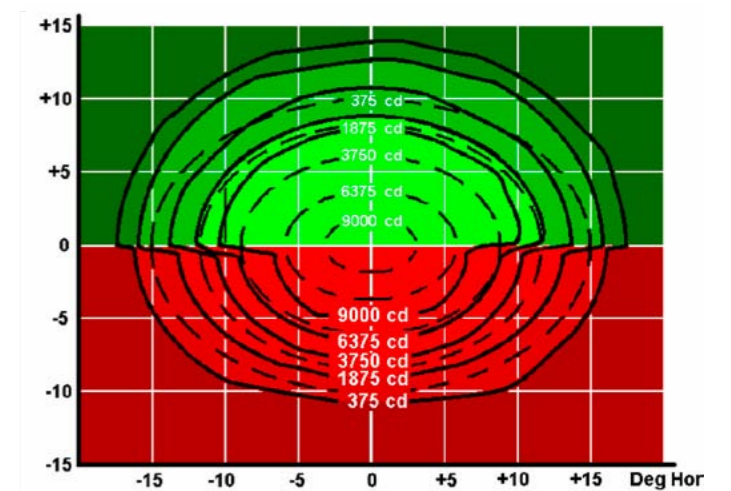
ELECTRICAL CHARACTERISTICS

Power Supply	220 to 240 VAC 50/60 Hz
Connection	For connections use a three-wire cable (two phases + earth) with an outer diameter of between 12.5 and 18 mm

DIMENSIONS



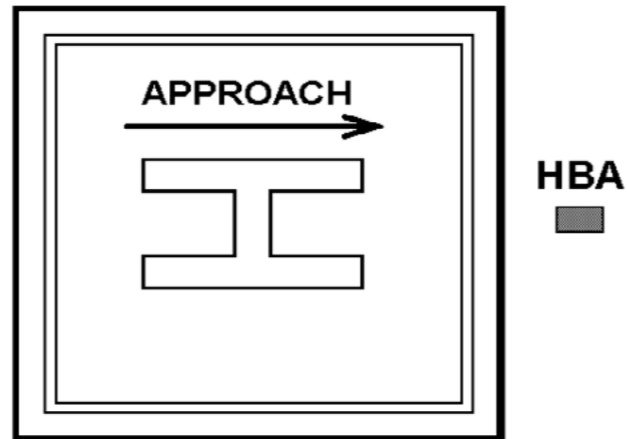
PHOTOMETRY



Operation Principle

In compliance with ICAO requirements the HBA (HAPI) must be located adjacent to the nominal landing point and installed in line with the preferred approach direction.

The angle-of-elevation setting of the HBA (HAPI) must be such that during approach when the helicopter pilot observes the upper boundary of the „Below Slope“ sector (Fix Red) all objects in the approach area are still cleared by a safe margin.



The DWT-HBA system provides with the necessary visual information to place the helicopter on the ideal approach slope and can be used by day or night.

The system can be used by all helicopters as soon as it has been set up since it does not require any airborne instrumentation.

The HBA is a light box which emits four distinct types of light :

- 1) Flashing Green Light = Helicopter above the optimal approach slope (too high)
- 2) Fix Green Light = Helicopter on the slope
- 3) Fix Red Light = Helicopter slightly below the optimal slope (slightly too low)
- 4) Flashing Red Light = Helicopter below the optimal slope (too low).

The signal repetition rate of the flashing sectors must be greater than 2 Hz.

In accordance with ICAO recommendations, the HBA (HAPI) shall be capable of adjustment in elevation at any desired angle between 1° and 12° above the horizontal with an accuracy of +/- 5 minutes of arc.

The angle size of the Fix Green sector (on the slope) must be 45 minutes of arc.

