

HAPI

Helicopter Approach Path Indicator



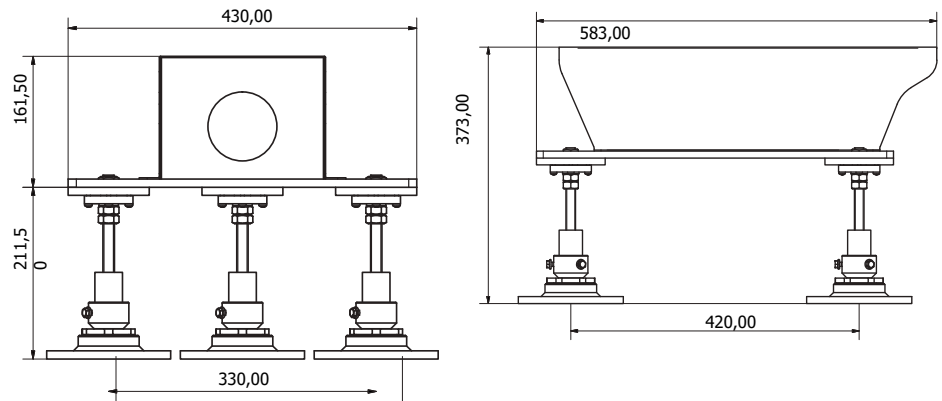
Compliance to standards	<p>ICAO: International Civil Aviation Organization, Aerodromes, Annex 14, Volume 2, Fourth Edition, July 2013 Photometric - (ICAO) Figure 5-11 illustration 4 – HAPI system and 5-15 HAPI signal format</p>								
Application	<p>HAPI is to be provided to serve the approach to a heliport, being possible to be used both day and night conditions, when there is needed to provide visual information on a required approach slope. The signal format of the HAPI shall include four discrete signal sectors, providing an “above slope”, an “on slope”, a “slightly below” and a “below slope” signal.</p>								
Features	<p>Designed and built with simplicity and ease of maintenance in mind. High power LED technology Lightweight, low-energy and environment friendly lighting fitting. Extensive use of aluminium alloys reduces fitting weight and eases handling in the field.</p>								
Product Code	<p>AL - 117 - 76 - GR-RE</p> <table> <tr> <td>Series Indicator (Airfield Lighting)</td><td>AL</td></tr> <tr> <td>Product Indicator</td><td>117</td></tr> <tr> <td>LEDs Number (76 LEDs)</td><td>76</td></tr> <tr> <td>LEDs Light Colour (green - red)</td><td>GR-RE</td></tr> </table>	Series Indicator (Airfield Lighting)	AL	Product Indicator	117	LEDs Number (76 LEDs)	76	LEDs Light Colour (green - red)	GR-RE
Series Indicator (Airfield Lighting)	AL								
Product Indicator	117								
LEDs Number (76 LEDs)	76								
LEDs Light Colour (green - red)	GR-RE								

<p>Description</p>	<div data-bbox="1390 322 1469 398" data-label="Image"> </div> <p>Housing - Powder coated aluminium RAL 1004 (aviation yellow) Fastening system powder - coated aluminium, RAL 1004 (aviation yellow) Anti glare visor powder - coated aluminium, RAL 9005 (gloss black) Dispenser -hardened front glass for sandblast protection Cable gland - nickel plated brass</p>
<p>Environment</p>	<p>Temperature range: - 40° to +55° Degree of protection: IP 65 Humidity: 0-100%</p>
<p>Mounting</p>	<p>Hapi unit may be aimed at any vertical angle up to 12°. The mounting system is equipped with frangible couples.</p> <div data-bbox="572 922 1404 1332" data-label="Image"> </div> <p>For a more accurate mounting inside the housing, there is a digital inclinometer with a factory-set 0 position. The inclinometer is equipped with a button and a display where you can see the coordinates and the brightness level.</p> <div data-bbox="1043 1451 1458 1646" data-label="Image"> </div> <p>By pressing, the button the correct position in the field is saved. After the field position has been saved, in case of any deviation higher than 0.5°, the alarm will be activated and the LEDs will turn off. If it's combine with the Controller V3 (AL-078-AX), the alarm will appear on Controller display.</p>

Mechanical Characteristics

Overall dimensions: 583 x 430 x 373 mm

Weight: 25 kg

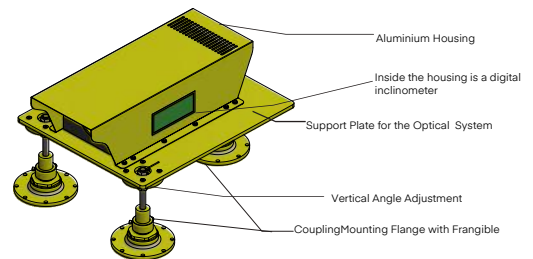


The HAPI is supplied in a ISPM

15 - compliant wooden crate.

Packaging:

650 x 500 x 1400 mm 26 kg



Electrical Characteristics

Power consumption max 100W

Power supply:

- 48V DC from controller - dimmable : 100% ,30%, 10%
- 110 - 230V, 50/60Hz - dimmable via contacts 100% ,30%, 10%
- 2.8 - 6.6A series from CCR - dimmable via current changes 100%, 30%, 10%

Type of power supply to be specified in order.

Types of power supply :

- 48V DC power supply from controller with 3 core cable
 - V+** (brown)
 - V-** (blue)
 - Dimming** (green/yellow)
- 230V AC directly from mains power supply
 - Live** (brown)
 - Neutral** (blue)
 - Ground** (green/yellow)
- 2.8-6.6A power supply by isolating transformer from constant current regulator power supply.

Heater: optional heater resistor available, to be specified in order, with thermostat inside of HAPI.

Photometric Characteristics

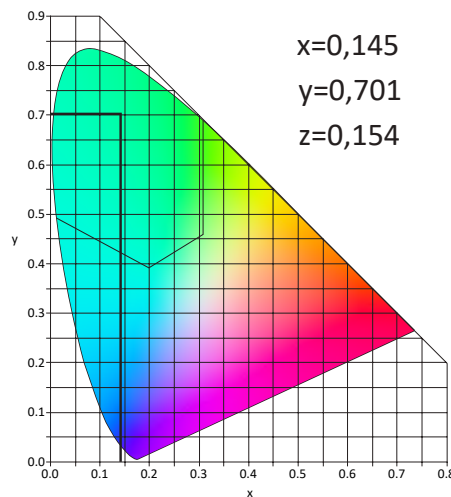
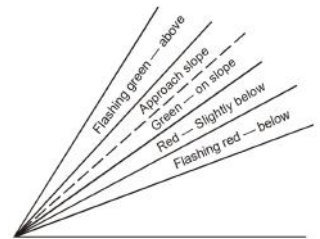
Light colour: Green light and red light

Azimuth angle	3°	6°	9°	12°	15°
Vertical elevation angle	2°	4°	6°	8°	10°
Required minimum intensity [cd] red/green	9000	6375	3750	1875	375

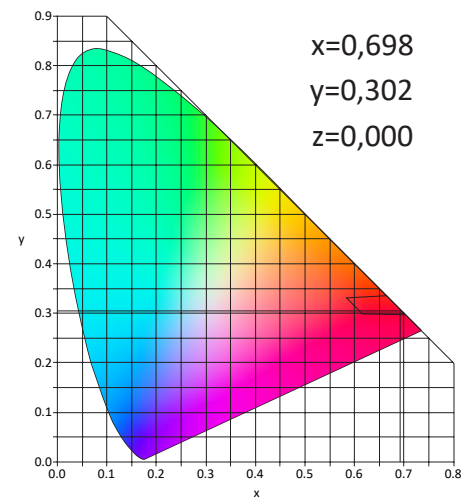
The angular size of the "on-slope" sector of the HAPI shall be 45 minutes.

HAPI Signal format

Sector	Format
Above	Flashing green(2Hz)
On slope	Green
Slightly below	Red
Below	Flashing red (2Hz)



The green light colour emitted, with the trichromatic coordinates



The red light colour emitted, with the trichromatic coordinates

The measured trichromatic coordinates correspond to colour range requirements in:

**ICAO Annex 14 - Aerodromes Vol.1, fig. A1-1b.
Colours for aeronautical ground lights (solid state lighting)**



Signalight

+40 254 515 465
office@signalight.com

36 Lunca Street, Petrosani,
Hunedoara County, Romania

www.signalight.com