HAPI is a system for use as visual slope guidance on heliports and offshore helidecks. One HAPI system is for one helicopter approach path. It is installed on the side opposite the approach, facing across the landing area. Digital leveling and aiming by means of a hand held field programming device. This may also program the alarm tolerances.

### Compliances:
- ETL Listed to UL 1598A Marine Vessels, IP66 & IP67
- ETL Listed to CSA C22.2 No. 137-M1981 & No. 250.0-08 Canada
- ETL Listed to UL 1598 at -40 deg C to +55 deg C
- Class I, Division 2, Groups A B C D, T5 at -40 deg C to +55 deg C
- Class I, Zone 2, Groups IIA IIB+H2 IIC, T5 at -40 deg C to +55 deg C
- ICAO Annex 14, Volume II, Chapter 5
- FAA AC 150/5390-2C, paragraphs 219, 318 & 418
- ONGC (India) FS-4044, paragraph 6.6
- Registered ISO 9001:2015

HAPI is a system for use as visual slope guidance on heliports and offshore helidecks. One HAPI system is for one helicopter approach path. It is installed on the side opposite the approach, facing across the landing area. Digital leveling and aiming by means of a hand held field programming device. This may also program the alarm tolerances.

### Table: HAPI-89001 Specifications

<table>
<thead>
<tr>
<th>Point Type</th>
<th>Voltage</th>
<th>Classification</th>
<th>Form*</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAPI-89001</td>
<td>1: AC, 96-264V</td>
<td>(blank): Safe Area</td>
<td>F</td>
<td>Frangible</td>
</tr>
<tr>
<td></td>
<td>50/60 Hz</td>
<td></td>
<td>EX: Class I, Division 2</td>
<td>See page 2</td>
</tr>
<tr>
<td></td>
<td>3: 24 volts DC</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**HAPI SIGNALS:**
- Flashing – Above Slope
- On Slope
- Slightly Below Slope
- Flashing – Below Slope

* The frangible universal mounting is less than 25 cm tall when installed. Frangible mounting includes four threaded legs with frangible couplings, mounting plate & anchor bolts. The HAPI includes a 3m cable loop as standard.

**Dimensions:**
- L: 14.8 (375) inches (mm)
- W: 9.6 (243)
- H: 8.1 (205)
- Overall Height: 9.5 (241)

**Power Use:**
- 70 watts
- 75 VA

**Adjustment:**
- 0° to 15°

**Brightness:**
- Three (3) steps

**Control:**
- LED: 3-step

**Alarms:**
- Flasher Failure
- LED Array Failure
- Alignment

**Important Note:**
The HAPI system is a visual slope guidance aid to assist the pilot in aligning the aircraft for approach to landing. It does not replace the pilot's judgment, skill and responsibility to land the aircraft safely with or without this visual aid.

HL-2.7.0 April, 2019
OPTIONS & ACCESSORIES

<table>
<thead>
<tr>
<th>EX</th>
<th>Hazardous Area Class I, Division 2 (Zone 2) HAPI unit.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC</td>
<td>See PHC system controller data file HL411PHC. HAPI operation requires either a PHC controller with option –HC or one of the –ROS options below must be added to the HAPI.</td>
</tr>
<tr>
<td>ROS</td>
<td>Remote Operator Station: Includes ON-OFF switch, brightness control, surge protection, alignment alarm indication and remote alarm contacts in a NEMA 4X (IP66) enclosure.</td>
</tr>
<tr>
<td>ROSW</td>
<td>Remote Operator Station Wireless: Same as –ROS plus wireless ON-OFF operation when set in the AUTO position via a key fob operating at 433.92 MHz. Note that the ROSW unit is hardwired to the HAPI; only the key fob operation is wireless.</td>
</tr>
<tr>
<td>ROSEX</td>
<td>Same as –ROS except Class I, Division 2 (Zone 2) &amp; NEMA 4X (IP66) enclosure.</td>
</tr>
<tr>
<td>SS</td>
<td>Stainless Steel 316L enclosure when used with –ROS or –ROSW.</td>
</tr>
<tr>
<td>GS</td>
<td>Gyro-Stabilized Mounting used only with safe area rigid mounting HAPI.</td>
</tr>
<tr>
<td>PLB</td>
<td>Adds the PLB-40300 wiring junction box recessed in the pavement with baseplate &amp; cable gland for the HAPI’s standard cable loop. For land-based installations only and may be used with rigid or frangible HAPI system.</td>
</tr>
<tr>
<td>PLS</td>
<td>Same as option –PLB except uses the PLS-40304 shallow wiring junction box.</td>
</tr>
</tbody>
</table>

RECOMMENDED OR REQUIRED ACCESSORIES

<table>
<thead>
<tr>
<th>Required</th>
<th>PL11248-HAPI  Programmer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>This handheld device is required to install and maintain the HAPI system. It plugs into the HAPI unit to set the leveling and the aiming angle.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Optional</th>
<th>PPC-40700-1-34T  Photoelectric Control</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FAA photoelectric control used with ROS set in AUTO position.</td>
</tr>
</tbody>
</table>

View our YouTube flight test video of the HAPI & VAGS Systems

Please follow Point Lighting Corporation on:

FACEBOOK  INSTAGRAM  YOUTUBE  LINKEDIN
HAPI UNIT SIDE VIEW
FRANGIBLE MOUNTING

HAPI LEG ASSEMBLY DETAIL
SHOWING BEVELED WASHERS FOR
POSITIVE MECHANICAL CONTACT

REMOTE OPERATOR STATION (-ROS)
OR AS -ROSW WITH OPTIONAL WIRELESS CONTROL

TYPICAL STANDALONE FRANGIBLE INSTALLATION

Direction of Aircraft Approach

HAPI LIGHT UNIT

11.3 (287) W
13.3 (339) H
5.6 (142) D
NEMA 4X Fiberglass
IP66

* The 3-meter cable loop consists of seven (7) conductors
all #16 AWG: Line-Neutral-Ground and four (4) data wires.
HAPI-89001-1-F
FRANGIBLE MOUNTING

Plugs into the rear of the HAPI unit for leveling and for setting of the aiming vertical angle.

GYRO-STABILIZED MOUNTING
OPTION - GS

PL11248-HAPI
SYSTEM PROGRAMMER
AIMING:
If the HAPI system is installed with a VAGS system, both systems should be aimed at the same vertical angle. We recommend an On Slope vertical angle setting between 5 and 10 degrees. The HAPI angle must be set so the transition line to flashing red allows the aircraft to clear any obstacles in the approach path.

Approximately 4 meters