



POINT LIGHTING CORPORATION

POINT HELIPORT LIGHTING HAPI LED HELICOPTER APPROACH PATH INDICATOR

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
 American Bureau of Shipping (ABS) Type Approval
 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 handheld field programming device. This may also program the alarm tolerances. For the portable HAPI, see catalog file HL272.

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

* 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.



HAPI SIGNALS:



Flashing – Above Slope



On Slope



Slightly Below Slope

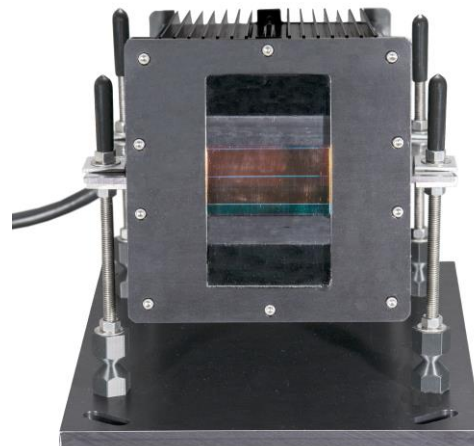


Flashing – Below Slope



Weights:	lbs.	kg.	Dimensions:	L: 15.5 (394)
Light Unit	25	11.3	Light Unit	W: 12.0 (305)
Hardware Kit	15	6.8	Inches (mm)	H: 9.5 (241)
ROS/ROSW	15	6.8	Power Use:	70 watts 75 VA
PLS Assembly	12	5.4	Adjustment:	0° to 15°
PLS Assembly	14	6.4	Brightness:	Three (3) steps
			Control	
			Alarms:	Flasher Failure LED Array Failure Alignment

HAPI-89001-1-F



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.



OPTIONS & ACCESSORIES

EX	Hazardous Area Class I, Division 2 (Zone 2) HAPI unit.
JB JBX	Junction Box safe area (JB) or Class I, Division 2 (JBX): For mating the cable loop connection at the HAPI with contractor supplied conduit/cabling to the remote mounted PHC, ROS or ROSEX.
PHC	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.
ROS	Remote Operator Station: Includes ON-OFF switch, brightness control, surge protection, alignment alarm indication and remote alarm contacts in a NEMA 4X (IP66) enclosure.
ROSW	Remote Operator Station Wireless: Same as -ROS plus wireless ON-OFF operation via a key fob operating at 868 MHz when set in the AUTO position. The fob is paired to the HAPI ROS. Note that the ROSW unit is hardwired to the HAPI; only the key fob operation is wireless.
ROSEX	Same as -ROS except Class I, Division 2 (Zone 2) & NEMA 4X (IP66) enclosure. It is available as -ROSWEX wireless operation.
SS	Stainless Steel 316L enclosure when used with -ROS or -ROSW.
GS	Gyro-Stabilized Mounting (safe area only)
PLB	Adds the PLB-40300 wiring junction box recessed in the pavement with baseplate & cable gland for the HAPI's standard cable loop. For land-based installations only and may be used with rigid or frangible HAPI system.
PLS	Same as option -PLB except uses the PLS-40304 shallow wiring junction box.

RECOMMENDED OR REQUIRED ACCESSORIES

Required	PL11248-HAPI Programmer 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.
Optional	PPC-40700-1-34T Photoelectric Control FAA photoelectric control used with ROS set in AUTO position.



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

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HAPI UNIT SIDE VIEW
FRANGIBLE MOUNTING

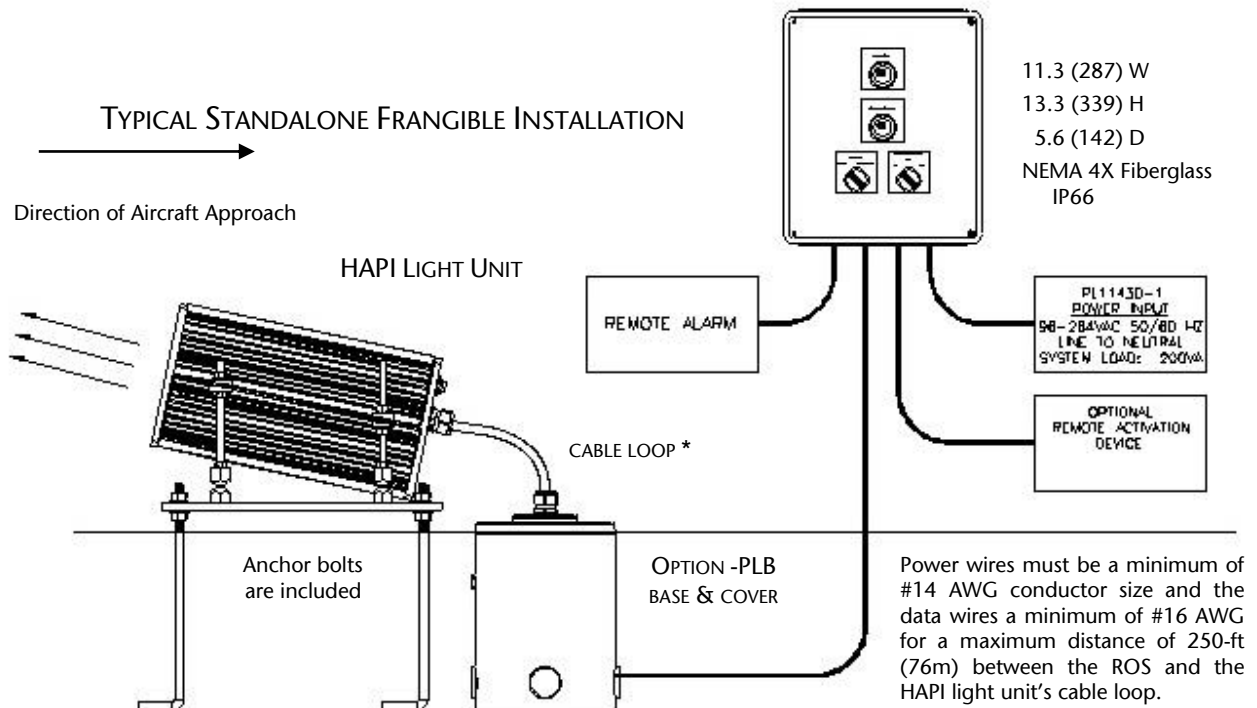


HAPI LEG ASSEMBLY DETAIL
SHOWING BEVELED WASHERS FOR
POSITIVE MECHANICAL CONTACT



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

TYPICAL STANDALONE FRANGIBLE INSTALLATION
Direction of Aircraft Approach



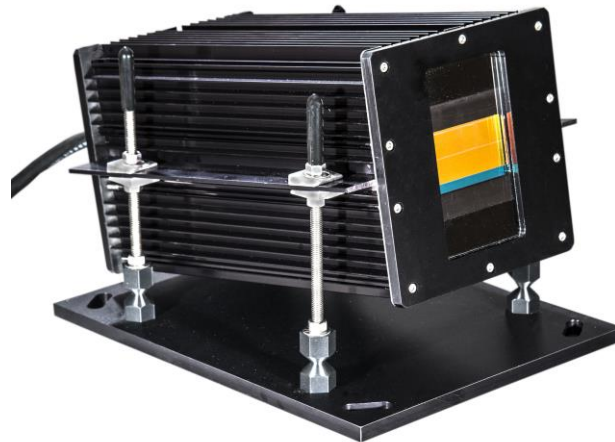
* The 3-meter cable loop consists of seven (7) conductors all #16 AWG: Line-Neutral-Ground and four (4) data wires.



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HAPI-89001-1-F
FRANGIBLE MOUNTING



PL11248-HAPI
SYSTEM PROGRAMMER

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





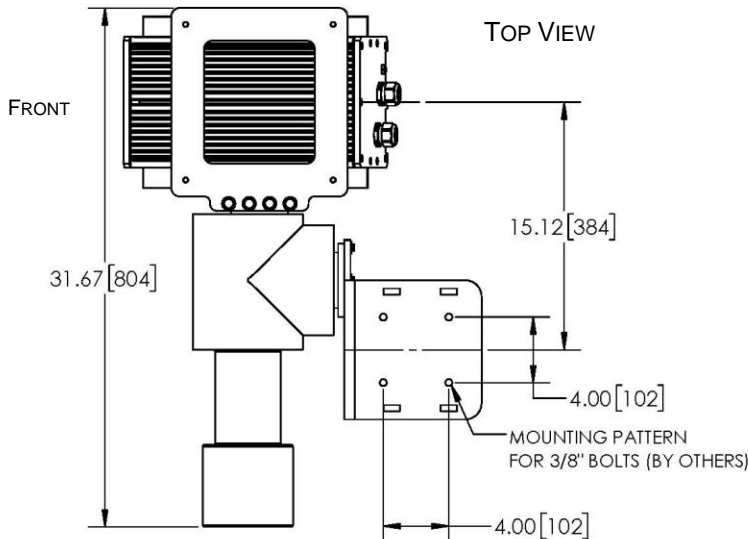
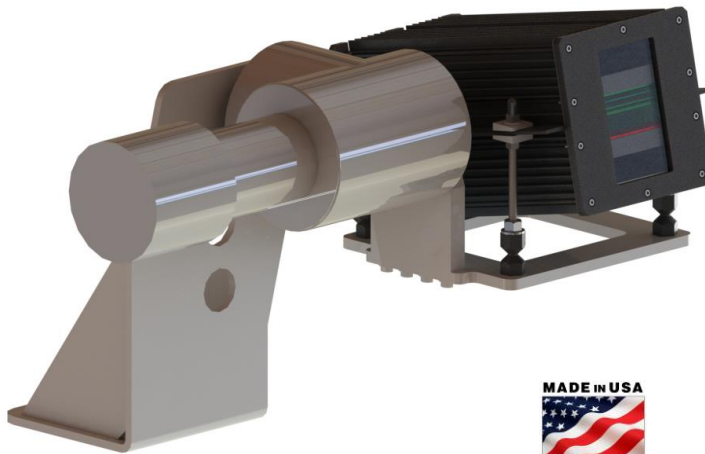
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GYRO-STABILIZED MOUNTING OPTION -GS

This option is used for a HAPI light unit installed on a mobile marine vessel. The gyro unit stabilizes on the Bank (X) and Elevation (Y) axis so that the mounting arm with HAPI unit will always stay level, regardless of the motions of the vessel.

Note: The HAPI-GS unit operates at 24V DC. For 120V and 230V AC power systems, the DC is produced by the ROS control unit.







Weights:	lbs.	kg.
HAPI-GS Unit	102.4	46.5
ROS/ROSW	15.0	6.8

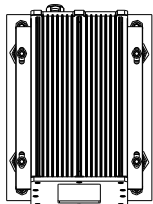
Dimensions:	Inches (mm)
Width:	31.7 (804)
Height:	18.6 (473)
Depth:	21.9 (555)

Power Use:	156 VA at 120V AC
(system)	299 VA at 230V AC



HAPI-89001

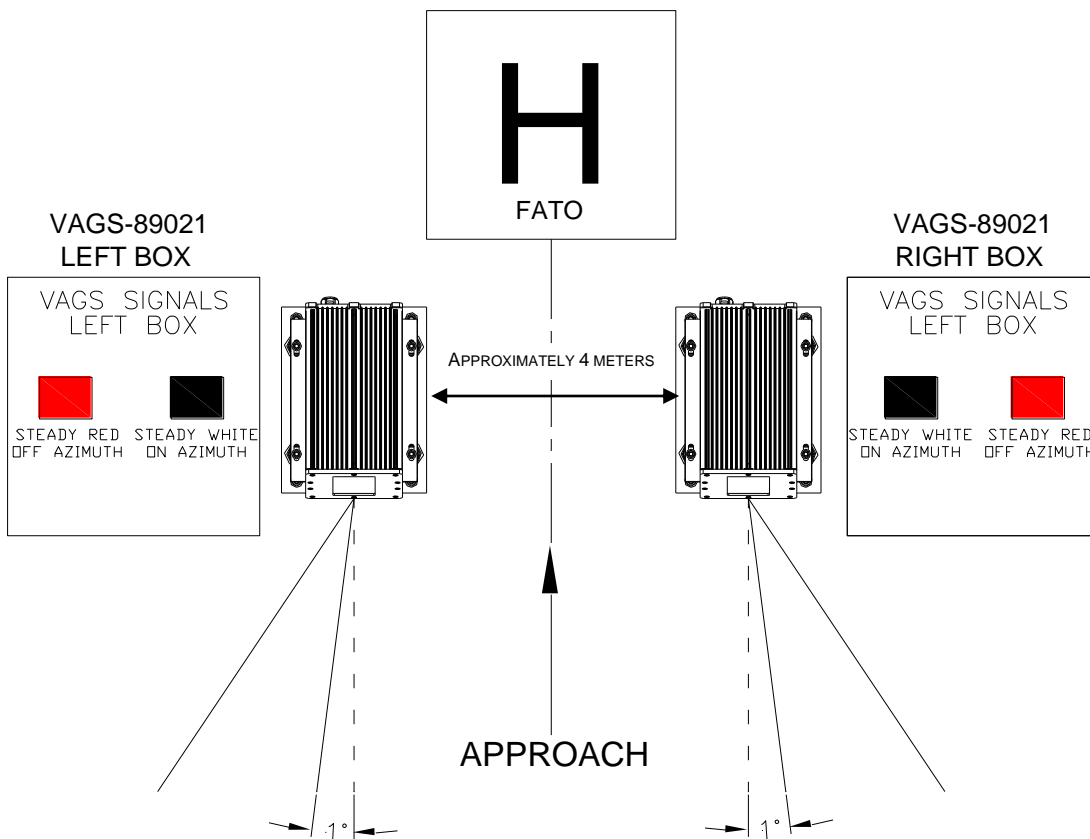
HAPI SIGNALS	
	FLASHING GREEN TOO HIGH
	STEADY GREEN ON SLOPE
	STEADY RED BELOW SLOPE
	FLASHING RED TOO LOW



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.

Not to Scale



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