

PERFORMANCE SPECIFICATIONS

IR/Visual Mini PLASI

Part Number

DA3605-1

Specification

System Requirements Overview

The Mini IR/Visual PLASI system is to be operated by local and federal international agencies.

The system will be capable of operating on 12 VDC Battery operated (12.8 VDC Ion-Lithium Battery Included).

The system should be of the lightest weight for easy of mobility, and designed to withstand the shock and vibration of transportation by person or vehicle.

The system shall have in place the ability to switch from visual to NVG(Mnaua) during nighttime operations.

The systems NVG capability shall be such that the operators can use any type of NVG apparatus during night operations.

The system will have the capability for the operator to change the desired glide slope from 0 – 10 degrees.

Electrical requirements

On/Off Power Switch: Toggle Style (recommended)

Input power connector: Cannon Style (recommended)

Night Dimming: Rotary 5 step or 3 step (last setting to be for NVG use)

Power Requirement: The PLASI is to be designed to operate at 12 VDC. System to be attached to a Ion-Lithium 12.8 VDC battery in the compartment attached to the portable base assembly.

Structural

Housing: Composite

Pulse Generator: Formed Metal or Machined

Tie Down Loops: Yes

Handles: Yes

Legs: Yes

Portable Base: Yes

Hardware: All internal/external hardware will be made of stainless steel

Painting requirements

Internal: Flat Black

External: Customer specified

Environmental:

Water Resistance: Yes

HELI Signal Format Requirements

Filter: Red and White

IR Filter: Yes (moveable manually)

Width: 16 degrees minimum

Height: Per HELI Format Visual

Above glidepath signal pulsing green light - 2.5 degrees

On glidepath signal steady green light .75 degrees

Slightly below-glidepath signal steady red light .175 degrees

Below glidepath signal pulsing red light 5.0 degrees

Height: Per HELI Format IR

Above glidepath signal pulsing green light - 2.5 degrees

On glidepath signal steady green light .925 degrees

Below glidepath signal pulsing red light 5.0 degrees

Glidepath: The glidepath is defined as the vertical angle established between the center plane of the steady green light and the landing surface. The leveling arm will be preset at 6-degree angle. Unit will be adjustable from 0 to 12 degrees.

Range: The range at which the signal is visible is at least four miles (6.5 km).

Pulsing Frequency: The above-glidepath White light and below- glidepath Red light, at 12VDC +/-10% the pulse rate will be at least 2 Hz. continuous at the edge of the glidepath to zero length at the off-glidepath limit of visual contact.