



HETS Helicopter Obstacle Detection System



Make It Visible

Fiber-laser sensor based system which is designed for helicopter platforms in order to increase pilot's situational awareness and give required navigational aids especially for low-level flights.

High Performance in Advance Weather Conditions

Helicopter platforms are widely used in adverse weather and low-altitude/high-speed conditions for mission success. At these circumstances, detection of the vertical and horizontal obstacles and alerting the pilot in a timely-manner is an important safety issue.

HETS is an equipment which uses 1550 nm wavelength fiber-laser, which detects obstacles such as wires, poles, trees etc. The system detects the obstacles and gives necessary alerts to the pilots with aural and visual means.

System solution includes variety of interfaces with low size-weight-power characteristics, which supports easy integration and installation to different platforms.





HETS

HELICOPTER OBSTACLE DETECTION SYSTEM


Technical Properties

System is operational with 30x40 degrees Field-of-View, and scans in 2 Hz for detecting vertical and horizontal obstacles upto 5 mm diameter. Total instrumental range is 1500 m.


With the LIDAR technology, accurate signal processing and user-friendly visualization characteristics, HETS alerts the pilot on-time against obstacles.

Visual alerts are generated as MFD video and aural alerts are generated as synthetic voice and tones.

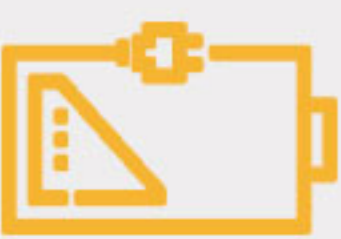
Key Features

 1550 nm erbium fiber-laser

 Eyesafe


 5 mm wire detection

 30x40 view

 Low power consumption

 Light weight

 Platform independent

 Compatible with military standards

Military Standards

Compliance to military standards for supporting different air platforms and adverse environmental conditions:

- Environmental conditions: MIL-STD-810G
- EMI/EMC: MIL-STD-461F
- Power Characteristics: MIL-STD-704F

Additionally, airworthiness and system safety standards are being considered during development activities.

