

Surface Target Laser Aim Scoring System (STLASS)



OBSERVER VIEW



FLIR VIEW

Features

- Records over 8 hours of weapon platform data via on board removable media
- Records target platform laser image data on remote server via Iridium satellite link
- Provides over 12 hours of target platform laser image backup data via on board removable media
- Transparent operation
- No engagement geometry restrictions or geographic operation limitations
- Supports Hellfire weapon training using Captive Aerial Training Missile (CATM)
- Automatic laser PRI synchronization
- Energy on target UHF radio tone capability
- User friendly debrief station capability with data export features to conventional laptop computers running MS Windows

Description

The STLASS system provides high fidelity reconstruction of laser designated weapons training engagements. The system consists of three major elements:

A weapon platform subsystem with Digital Data Recording Unit (DDRU) which interfaces with the weapon and avionics data buses. The DDRU records weapon platform data on removable media for transfer to the debrief subsystem at completion of the training exercise.

A target platform subsystem that observes laser energy incident on target for the purpose of identifying laser PRI, as well as spot location and extent. The data is then transferred via Iridium satellite to a remote server for later use by the debrief subsystem.

A debrief subsystem that combines data from the weapon and target platforms to reconstruct a high fidelity 3D graphical depiction of the engagements. This permits assessment of target acquisition and pre launch procedures, event time line, and laser tracking performance during engagements.

Surface Target Laser Aim Scoring System (STLASS)

The Surface Target Laser Aim Scoring System (STLASS) was developed to meet a critical need for high fidelity non-destructive training with laser designated weapons against moving targets at sea. The system operates transparently to the crew during training exercises, does not require any mission specific setup, and places no restrictions on training engagement geometries or location. The initial deployment of the system was with H-60B/H helicopters fitted with the Hellfire weapon system. The training target was the High Speed Maneuvering Sea Target (HSMST). The system is extremely flexible and can be configured for use with any weapon platform that has a 1553, or equivalent, weapon and avionics data bus. The system is also suitable for mounting on a wide range of land or sea based targets with minimal interface modifications. The system operates with any laser designator having a wavelength of 1000 to 1600 nanometers and a PRI range of 50.1 to 112.7 milliseconds.

Meggitt Defense Systems, Inc.
9801 Muirlands Blvd.
Irvine
California
92618
United States

Tel: 949 465 7700
Fax: 949 465 9560

www.meggittdefense.com

MEGGITT
smart engineering for
extreme environments