

DATA SHEET

# Laser Aim Scoring System (LASS)



## 01 Description

The Laser Aim Scoring System (LASS) is an infrared (IR) Laser detection/scoring system used to evaluate Hellfire Missile engagement procedures and techniques. The system is optimized for the AH-64 Apache and AH-58D Kiowa Warrior helicopters, but is capable of training all laser designator operators. The LASS provides a live-fire range capability for evaluation of target presentation procedures and precision measurement of the Laser designator operator target tracking capability in a compact, portable system. The LASS also incorporates a boresight verification function to check laser and sight reticle alignment.

The LASS consists of a Laser Control Station (LCS), located up-range and Laser Scoring Sensor(s) (LSS), located down-range. System control, score processing and report generation are functions performed by the LCS. Detection, timing evaluation, and kill determination are performed by the LSS. The LSS assembly consists of an environmental enclosure housing the processor control unit, laser camera, on-target detector and data link. An interface cable connects the LSS assembly to the combined laser offset/overspill detector and target position indicator unit, the LSS (12 volt) battery, and the target lifter hit port.

## 02 Key features and benefits

- 24-Hour operation
- Lightweight and portable
- 12 V dc operation
- Easy setup and teardown
- Adaptable for all targetry systems
- Minimal alignment procedures
- Optimized for Nd:YAG laser
- AWS compatible, narrow band RF data link

## 03 Applications

- Laser detection tracking for training and evaluation missions

## 04 Contact

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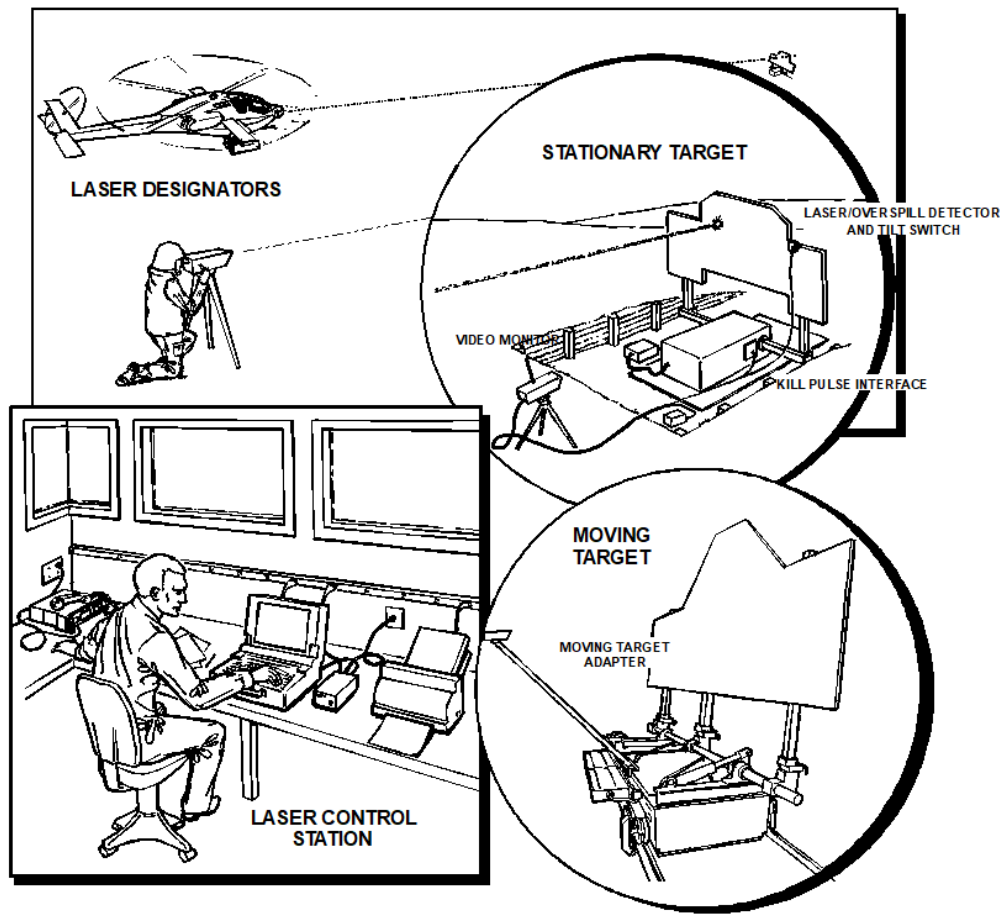
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05 Specifications

The LCS via data link activates the LSS in an engagement as part of a predefined scenario. Laser energy emitted from the aircraft and directed at the target, is detected, timed and evaluated. On-target time, off-set time and laser overspill are measured, timed and plotted against required engagement times. "Kill" determination is performed by the LSS and reported in real-time to the target-lifting device via hit pulse. Engagement results are reported in real-time to the LCS for display on the computer screen. Results are stored in the LCS and are available as hard copy score sheets depicting designation time lines and laser spot locations on the target for each engagement.

06 Outline details



Note: Due to continuous process improvement, specifications are subject to change without notice. TCO Review # XXX