Description

The Dual-Axis Head Assembly (DAHA), part of the Line-Of-Sight (LOS) Stabilization System, presently in full scale production, is a key element of the full solution Fire Control System (FCS) presently being used on Main Battle Tanks and other fighting vehicles. The LOS system developed by partner allows the gun to fire accurately while on the move, and at stationary or moving targets. Applications include any vehicle requiring stabilized guns and sights.

The dual-axis head mirror is operated with either analog electronics or digital VME control electronics. The system provides improved image acquisition, improved target tracking, and maintains the sight aim reticle at the sight's center of view.

The dual-axis systems are available in two sizes. The larger unit is designed for the M1A2 Abrams head assembly envelope. The smaller designed as a sealed unit, for the EFV envelope.

Inertial stabilized mode with rate tracking, as well as backup unstabilized mode are provided. Single-axis LOS stabilization systems are also available.
## LOS PERFORMANCE

**LOS Excursion:**
- **Elevation:**
  - Large: +22° to -16°
  - Small: +32.5°, -34.5°
- **Azimuth:**
  - Large: +5° to -9°
  - Small: +5° to -5°

**Stabilization accuracy:**
- Without Friction Compensation: <100µ radians
- With Friction Compensation: <50µ radians

**Tracking Rate:**
- **Elevation:**
  - Large: 750 mils/s
  - Small: 1100 mils/s
- **Azimuth:**
  - Large: 450 mils/s
  - Small: 1100 mils/s

**Synchronization:** <100µ radians

**Boresight retention:** <100µ radians

## PHYSICAL CHARACTERISTICS

**Head Dimensions:**
- Large DAHA: 8.8"H x 11.5"D x 18"W
- Small DAHA: 8.7"H x 11"D x 14.4"W

**Mirror size:**
- Large: 9.4" x 13.3"
- Small: 9.5" x 8"

**Power:**
- 24 V dc, 150 W (max.)

**Weight:**
- Head Assembly:
  - Large: 57 lbs
  - Small: 53 lbs
- Digital VME Electronics: <4.5 lbs

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**For information on this Line-of-Sight, Fire Control Systems, Navigators, Ruggedized Displays and CDU's, Rate Gyro Packages or any other product applications, please contact info@defensetechs.com**