



Hawkeye Laser Rangefinder

Hawkeye is a LiDAR-based range finder qualified for use in Geosynchronous Orbit (GEO). Specifically designed to provide Satellite Situational Awareness for formation flying applications.



Hawkeye provides ranging and situational awareness information on surrounding objects including space vehicles, satellites and debris. Its compact form factor is specifically designed for use on small satellites. Weighing less than 3 kg and consuming as little as 2.2W, this sensor has an operational range in excess of 30 km.

Hawkeye supports a simple command and control interface through an RS422 serial port. Laser operation can be put in standby mode between range measurements to reduce power usage and ease thermal management.



Physical Data

- **Mass:** 3 kg
- **Power Interface:** 28V MIL-STD-461 compliant
- **Standby Power:** 2.2W @28V
- **Maximum Power:** 10W at maximum fire rate
- **Dimensions:** 4.9" x 5.6" x 8.2"

Ranging Capability

- Reach exceeds 30km depending on target size and reflectivity

Software Interface

- RS422 data interface
- Full control over range finder operation
- On-board calibration electronics
- In-field software upgrade



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