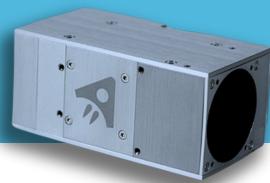


Precision Aerospace Solutions



The Sagitta Star Tracker offers arcsecond range pointing accuracy to your CubeSat. The custom algorithms are optimized for accuracy, robustness and low computational cost. The star tracker has a built-in baffle to reduce the effect of stray light. The system is compact and easy to interface in CubeSats and large satellites. The flight heritage is successfully demonstrated in several missions on different types of platforms.



STAR TRACKER FEATURES

Performance

- Cross-boresight accuracy: 2" (1σ)
- Around boresight accuracy: 10" (1σ)
- Tracks stars up to magnitude 6.2
- Tracks up to 64 stars Update rate of
- 10 Hz Field of view: 25.2°
- Autonomous calibration

Features

- Star tracking and attitude determination
- Full image download capability
- Image histograms
- Fast lost-in-space algorithm

Power consumption

Nominal: 1500 mW

Interface

- RS485
- +5 V
- Mass: 270 g
- Alignment cube for integration

Robustness

- Lost-in-space availability: >99% of the night sky
- Discards vast majority of false star instances
- Autonomous detection and correction for outlier stars
- Baffle sun rejection angle: 40°
- Radiation shielded lens
- Electronics are radiation tested
- Flight Heritage (>10 units)







Precision Aerospace Solutions





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