The Space Dynamics Laboratory (SDL) has developed a miniature Star Camera based on its Digital Imaging Space Camera (DISC) product line. The DISC Star Camera is a science-enabling technology for missions that require more stringent pointing knowledge than is currently available on extremely small satellites. Using a radiation-hardened focal plane, it is able to detect down to magnitude 6 stars.

**STAR TRACKER OPTION**

Also available is SDL’s DISC Star Tracking Algorithm, with a complete ‘Lost in Space’ solution for each image. The algorithm computes a quaternion that rotates the bore of each image to the J2000 inertial coordinate frame of the Hipparcos Star Catalog.

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**SPECIFICATIONS**

**POWER**  
<1 W

**MASS**  
0.8 kg

**DIMENSIONS**  
96 × 96 × 70 mm

**FEATURES**

- Designed specifically for star imaging
- Sized to fit in a CubeSat
- HAS2 RadHard CMOS FPA
- 60 mm aperture, 13° FOV
- SpaceWire interface
- High-quality, custom optics
- Optional radiation tolerant version