

Hawai`iSat-1 Remote Sensing System

The Hawai`iSat-1 mission aims to demonstrate the Hawai`i Space Flight Laboratory's ability to design, launch, and operate satellites. This supports the Department of Defense Office of Responsive Space activities, as well as the research objectives of the University of Hawai`i. The Hawai`iSat-1 mission includes a 55kg low-Earth orbiting satellite, named 'HiakaSat', which will be the platform for demonstrating a UH-developed long wave infrared hyper-spectral imaging system. In addition, the satellite will be carrying visible color and IR imagers to provide wide and narrow view images of the Earth, and a wide field-of-view star tracker (star camera) for attitude determination.

The currently targeted low-Earth orbit is within the range of 430-505km at 94.8 degrees inclination. During nominal operations, the system will collect hyper-spectral data with approximately 260-373m ground resolution. Visible color and IR imagers are estimated to provide 22.5m or larger ground resolution.

For more information, visit <http://hsfl.hawaii.edu/>

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