Introduction for HJ HSI

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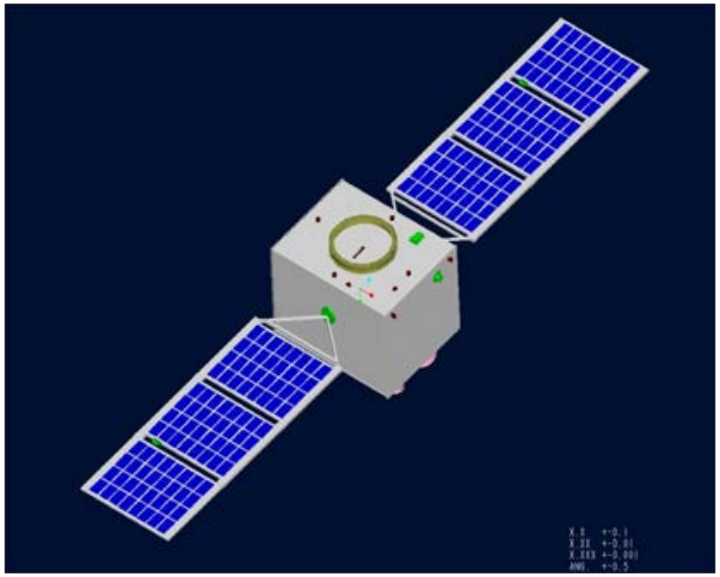
- HSI (Hyper Spectral Imager) is Chinese first spaceborne hyperspectrum sensor, which is loaded on HJ-1A satellite. HJ is the Chinese abbreviation of “Environment”.
- HSI sensor is a Fourier transform imaging spectrometer, which is designed by Xi’an Institute of Optics and Precision Mechanics of Chinese Academy Sciences.

EO-1 Orbit

- Type: Sun-Synchronous
- Altitude（km）: 649.093
- Inclination（°）: 97.9486
- Period（min）:97.5605
- Repeat Cycle(day):31
- descending time:10：30AM±30min
- Orbital velocity（km/s）:7.535

HSI Sensors

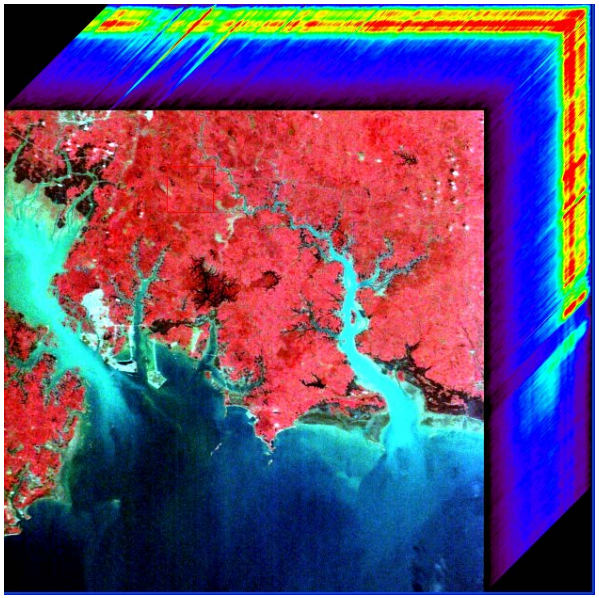
- Spatial Resolution 100 m
- Swath Width 50km
- Spectral Channels 115unique channels.
- Spectral Bandwidth 2-8nm (nominal)
- Digitization 12 bits
- Signal-to-Noise Ratio (SNR) >50
- Weight 50.78kg



HJ-1A Satellite

HSI Image

HSI Sensor



HSI Image