

HJ-1A&B Satellites

Archived Data Coverage of Land Surface of Whole Earth

Launched on 6 September 2008, HJ-1 is composed of 2 optical satellites HJ-1A and HJ-1B, HJ-1A is equipped with 1 CCD camera and 1 hyperspectral imager, and HJ-1B is equipped with 1 CCD camera and 1 infrared camera. The 2 CCD cameras adopt the same design, and placed symmetrically at nadir and split the field of view and observe in parallel and realize imagery of 700 km swath, 30 m resolution and 4 spectral bands. The hyperspectral imager enables HJ-1A 50 km swath, 100 m resolution and 110~128 bands and $\pm 30^\circ$ oblique viewing angle. The infrared camera enables HJ-1B 720km swath, 150/300 m resolution and 4 spectral bands.

Technical Specifications

Number of satellites	2 identical satellites: HJ-1A and HJ-1B			
Launch time	September 6, 2008			
Mission life	3 years			
Orbit	Sun-synchronous, 10:30 am, descending node, 649 km altitude, 97.95° inclination angle			
	HJ-1A		HJ-1B	
Operational	Operational		Retired	
Cameras	2 x CCD	Hyperspectral	2 x CCD	Infrared MS
Resolution	30 m	100 m	30 m	150 m
Sensor bands	Blue, green, red and near-infrared	110th-128th bands	Blue, green, red and near-infrared	Red-edge 1, red-edge2, coastal blue and yellow
Swath Width (at nadir)	700 km	50 km	700 km	720 km
Dynamic range at imaging	8 bits	12 bits	8 bits	10 bits
Revisit capacity	4 days	4 days	4 days	4 days

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