

ZY1-02D SATELLITE

Hyperspectral, 8-band, HR, Agriculture & forest-oriented

ZY-1 02D (short for ZiYuan-1 02D, also named ZY-1E or ZY1E) was launched on September 12, 2019. It is equipped with two cameras, one is VNIR camera (VNIC) and the other is hyperspectral camera (AHSI). The VNIR camera has panchromatic and eight multispectral bands, and it has a large view field, with 115 km swath width. The hyperspectral camera has 166 bands, and its swath width is 60 km. It's mainly applied in investigating land resources, emergent monitoring and supervising services, and it also provides supports for disaster deduction, environmental protection, housing, transportation, agriculture, forestry, marine and mapping.

Technical Specifications

Number of satellites	2 satellites: ZY-1 02D and ZY-1 02E		
Mission life	5 years		
Weight	1840 kg		
Launch time	ZY-1 02D: September 12, 2019; ZY-1 02E: December 26, 2021		
Orbit	Sun-synchronous, 10:30 am descending node 778 km altitude, 98.5° inclination angle		
	Visible Near Infrared Camera	Hyperspectral Camera	IRS Camera (ZY-1 02E only)
Sensor bands	Panchromatic Blue, Green, Red, NIR1 Coastal Blue, Yellow Red Edge, NIR2	Spectral Range: 0.4 μm ~ 2.5 μm VNIR: 76 bands SWIR: 90 bands	Spectral Range: 7.7 μm ~ 10.5 μm
Resolution (at nadir)	Panchromatic: 2.5 m Multispectral: 10 m	30 m	10 m
Dynamic range at imaging	12 bits		
Swath width (at nadir)	115 km	60 km	115km
Locational accuracy	50 m CE90° (w/o GCPs)		
Onboard storage	2 Tb		
Revisit capacity	5 days		

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