



# 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

<b>Mission life</b>	5 years	
<b>Weight</b>	1840 kg	
<b>Launch time</b>	September 12, 2019	
<b>Orbit</b>	Sun-synchronous, 10:30 am descending node, 778 km altitude, 98.5° inclination angle	
	<b>Visible Near Infrared Camera</b>	<b>Hyperspectral Camera</b>
<b>Sensor bands</b>	Panchromatic, Red, Green, Blue, NIR, Coastal Blue, Red-Edge, Yellow	Spectral Range: 0.4 μm ~ 2.5 μm VNIR: 76 bands SWIR: 90 bands
<b>Resolution (at nadir)</b>	Panchromatic: 2.5 m Multispectral: 10 m	30 m
<b>Dynamic range at imaging</b>	12 bits	12 bits
<b>Swath width (at nadir)</b>	115 km	60 km
<b>Locational accuracy</b>	50 m CE90° (w/o GCPs)	100 m CE90 ° (w/o GCPs)
<b>Onboard storage</b>	2 Tb	
<b>Revisit capacity</b>	5 days	

! This document is made for our data users, clients and customers' reference, for other use, please contact us. It is subject to change without notice. All rights reserved.