



JOVI-1

High resolution optical microsatellite

JOVI-1 is a mature design and advanced optical micro-satellite provides 0.5m panchromatic resolution 2m multi-spectral resolution images. It is an agile satellite which have several imaging modes, including multi-target, multi-strip and stereo. The constellation consist of several identical JOVI-1 will provide high-resolution, near real-time, high-quality, intelligent satellite images services to end users.

Key features

- Light weight small size with high resolution
- High data downlink rate, near real-time acquisition
- Large onboard storage 1 TB (can be customized)
- Artificial intelligence
- Cost-effective

Specifications

Orbit	Altitude : 500~550km Type : Sun-Synchronous Orbit
Life	5 years
Mass	≈ 200 kg
Sensor bands	Panchromatic : 450nm~700nm
	Blue : 450nm~510nm
	Green : 510nm~580nm
	Red : 630nm~690nm
Resolution	Panchromatic : 0.5m
	Multispectral : 2m
Dynamic range	11 bits
Swath width	≥15 km
Geolocation accuracy	20m without GCP
	2m with GCPs
Agility	2°/s
Onboard storage	1 TB
Data downlink rate	upto 900 Mbps*2 channels
Multi-point imaging capability	20 tragets per orbit
Revisit frequency (at 30 degrees Northlatitude)	2 days

