Vantor

PACGEO

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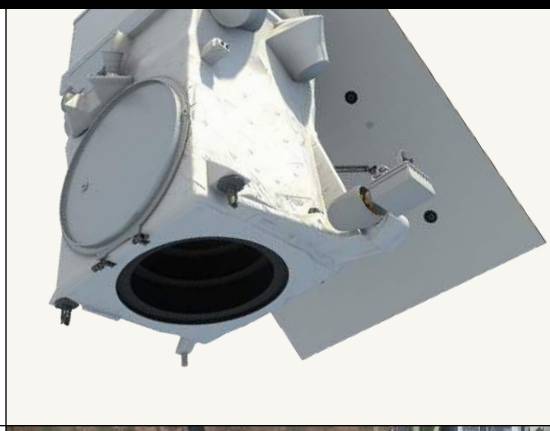
WorldView Legion®

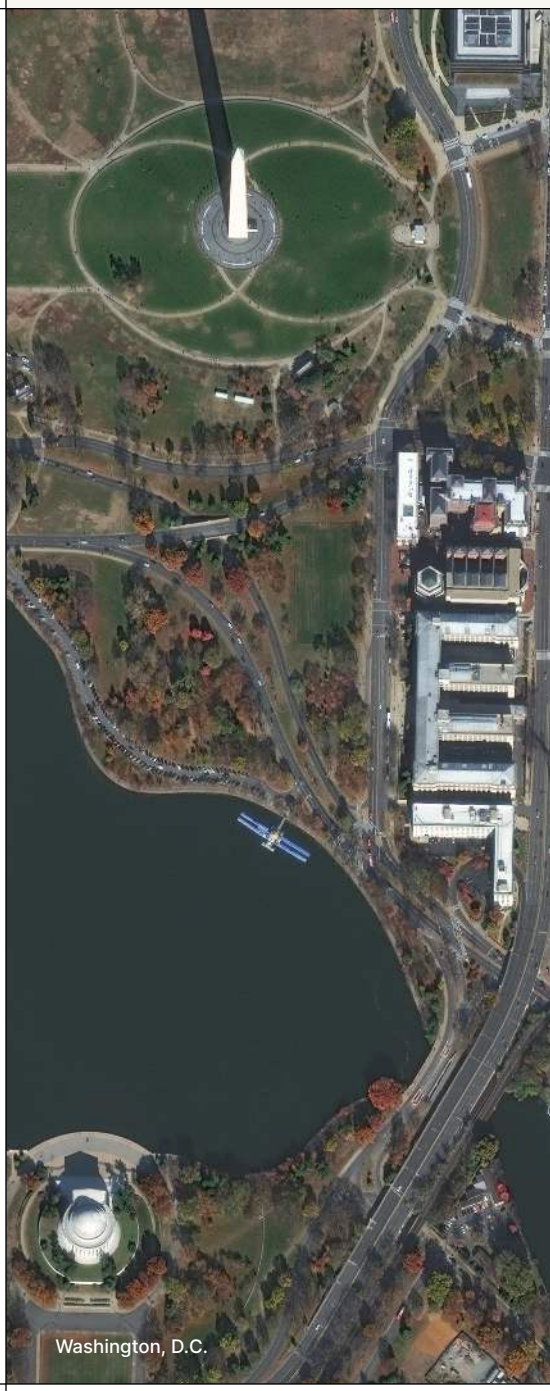


WorldView Legion is the next generation of Vantor's industry-leading Earth observation constellation. WorldView Legion is a fleet of high-performance satellites that triples Vantor's capacity to collect 30 cm class imagery, with more than 6 million sq km collected per day when combined with the entire Vantor™ constellation. With a mix of sun-synchronous and mid-inclination orbits, WorldView Legion dramatically expands Vantor's ability to revisit high-interest areas to better inform critical, time-sensitive decisions.

Features and benefits

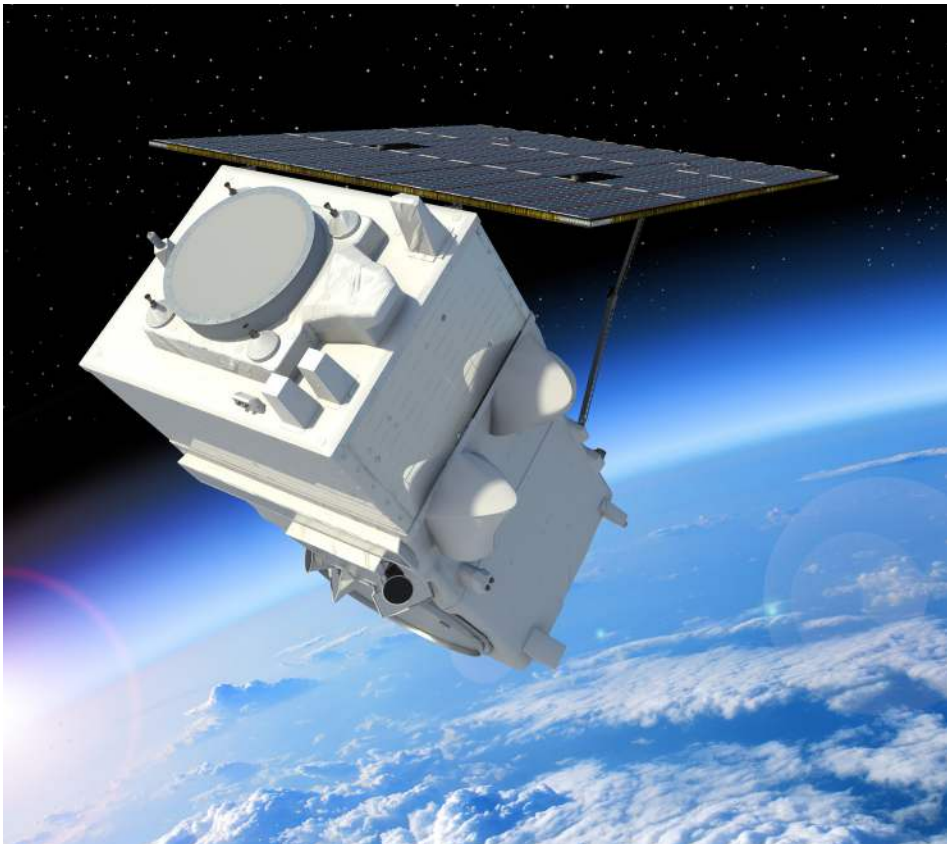
+ High-resolution imagery (30 cm class)
+ 8-band VNIR multispectral imagery for a wide variety of applications
+ Industry-leading precision geolocation accuracy (DAFs)
+ Direct Access tasking from and to customer sites using customer-unique encryption keys
+ Simultaneous receive, image, and downlink operations
+ Large area mono and stereoscopic collection eliminates temporal variations
+ 10-year mission life consistent with WorldView satellites

WorldView Legion will have three product levels. Basic products (Level 1B) provide sensor-oriented, radiometically calibrated mono and stereo imagery for users to do their own image geo or orthorectification. Standard products (Level 2A/2B) are map-projected with uniform pixel spacing across products for image manipulation and analysis by image-processing software. Ortho Products (Level 3) are ideal for image viewing and locational reference when high positional accuracy is required.



Specifications

Orbit	Altitude: 518 km Type: Sun-synchronous and mid-inclination
Spacecraft and mass	Size: ~3 m tall x ~2 m x ~2 m (not including width of solar array) Dry mass: ~630 kg
Sensor bands	Panchromatic: 450 - 800 nm 8 Multispectral Coastal Blue: 400 - 450 nm Blue: 450 - 510 nm Green: 510 - 580 nm Yellow: 585 - 625 nm Red: 630 - 690 nm Red Edge1: 695 - 715 nm Red Edge2: 730 - 750 nm Near-IR: 770 - 895 nm
Ground Sample Distance (GSD)	Panchromatic nadir: 34 cm Multispectral nadir: 1.36 m
National Imagery Interpretability Rating Scale (NIIRS)	5.9
Swath width	At nadir: 10.0 km
Geolocation accuracy	<5 m CE90 without ground control points



Sensor bands

- Panchromatic
- 8-band multispectral