

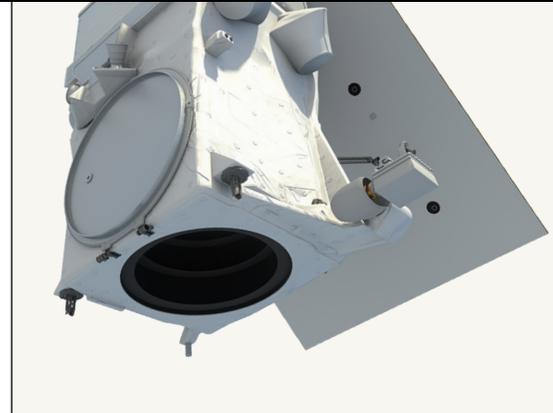
# WorldView Legion

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, radiometrically 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

<b>Orbit</b>	Altitude: 518 km Type: Sun-synchronous and mid-inclination
<b>Spacecraft and mass</b>	Size: ~3 m tall x ~2 m x ~2 m (not including width of solar array) Dry mass: ~630 kg
<b>Sensor bands</b>	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
<b>Ground Sample Distance (GSD)</b>	Panchromatic nadir: 34 cm Multispectral nadir: 1.36 m
<b>National Imagery Interpretability Rating Scale (NIIRS)</b>	5.9
<b>Swath width</b>	At nadir: 10.0 km
<b>Geolocation accuracy</b>	<5 m CE90 without ground control points

## Sensor bands

-  Panchromatic
-  8-band multispectral

