

WorldView-4

Introducing WorldView-4, a multispectral, high-resolution commercial satellite. Operating at an expected altitude of 617 km, WorldView-4 provides 31 cm panchromatic resolution, and 1.23 m multispectral resolution. WorldView-4 has an average revisit time of <1 day and is capable of collecting up to 680,000 sq km per day, further enhancing the DigitalGlobe collection capacity for more rapid and reliable collection.

Features & Benefits

- · Very high-resolution
 - Panchromatic 31 cm
 - Visible ® near-infrared 1.24 m
- Industry-leading geolocation accuracy
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- High capacity in various collection modes
- · Bi-directional scanning
- Rapid retargeting using Control Moment Gyros (>2x faster than any competitor)
- Direct Access tasking from and image transmission to customer sites
- Daily revisits

- Simultaneous, high resolution, super-spectral imagery
- Large area mono and stereoscopic collection eliminates temporal variations
- Precision geolocation possible without ground control points
- Global capacity of 680,000 sq km per day, which doubles 30 cm collection capability and the ability to collect for large-area mapping projects at the highest commercially available resolution



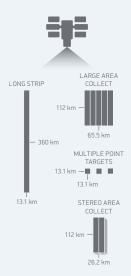
WorldView-4 artist rendering

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Design & Specifications

| Orbit | Altitude: 617 km Type: Sun Synchronous, 10:30 am descending Node Period: 97 min. |
|--|---|
| Life | Estimated service life: 10 to 12 years |
| Spacecraft size and aperture | Size: 5.3 m (17.7 ft) tall x 2.5 m (8 ft) across 7.9 m (26 ft) across deployed solar arrays Aperture: 1.1m |
| Sensor bands | Panchromatic: 450 - 800 nm 4 Multispectral: Red: 655 - 690 nm Green: 510 - 580 nm Blue: 450 - 510 nm Near-IR: 780 - 920 nm |
| Sensor resolution (or GSD, ground sample distance; off-nadir is geometric mean) | Panchromatic Nadir: 0.31 m 20° Off-Nadir: 0.34 m 56° Off-Nadir: 1.00 m Multispectral Nadir: 1.24 m 20° Off-Nadir: 1.38 m 56° Off-Nadir: 4.00 m |
| Dynamic range | 11-bits per pixel |
| Swath width | At nadir: 13.2 km |
| Attitude determination and control | Type: 3-axis Stabilized Actuators: Control Moment Gyros (CMGs) Sensors: Star trackers, precision IRU, GPS |
| Pointing accuracy and knowledge | Accuracy: 170 m at 40 off-nadir Knowledge: Supports geolocation accuracy below |
| Retargeting agility | Time to Slew 200 km: 10.6 sec |
| Onboard storage | 3200 Gb solid state with EDAC |
| Communications | Image ® ancillary data: 800 Mbps X-band Housekeeping: 120 kbps real time, X-band Command: 64 kbps S-band |
| Max contiguous area collected in a single pass (30° off-nadir angle) | Mono: 66.5 km x 112 km (5 strips) Stereo: 26.6 km x 112 km (2 pairs) |
| Revisit frequency (at 40°N latitude) | 1 m GSD: < 1.0 day Total constellation >4.5 accesses/day |
| Geolocation accuracy (CE90) | Predicted <5 m CE90 without ground control |
| Capacity | 680,000 sq km per day |

Collection scenarios



Sensor bands

- ° Panchromatic
- ° Multispectral

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