



# WorldView-1

WorldView-1, launched September 2007, is the first of our next-generation satellites—the most agile satellites ever flown commercially. The high-capacity, panchromatic imaging system features half-meter resolution imagery. Operating at an altitude of 496 km, WorldView-1 has an average revisit time of 1.7 days and is capable of collecting over one million km<sup>2</sup> per day of half-meter imagery. The satellite is also equipped with state-of-the-art geolocation accuracy capabilities and exhibits stunning agility with rapid targeting and efficient in-track stereo collection.

## Features

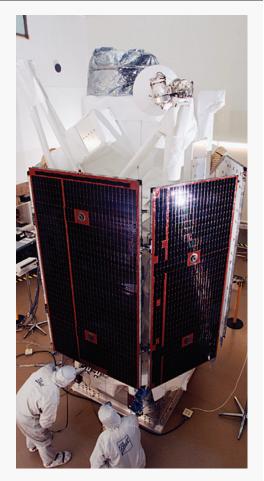
- » Very high resolution
- » Industry-leading geolocation accuracy
  - Ultra-stable platform, high-precision attitude sensors and GPS
- » Highest capacity over a broad range of collection types (wider than any competitor)
- » Bi-directional scanning
- Rapid retargeting using Control Moment Gyros (>2x faster than any competitor)
- » Direct downlink to customer sites available
- » World-class telescope
  - High contrast (MTF) and signal-to-noise ratio
  - Selectable Time Delay Integration (TDI) levels
- » Frequent revisits at high resolution

## **Benefits**

 Provides highly detailed imagery for precise map creation, change detection, and in-depth image analysis

(Note: imagery must be re-sampled to 50 cm for non-US government customers)

- » Geolocate features to less than 5 m to create maps in remote areas, maximizing the utility of available resources.
- » Collects, stores, and downlinks a greater supply of frequently updated global imagery products than competitive systems
- Stereoscopic collection on a single pass, ensures image continuity and consistency of quality
- » Extends the range of suitable imaging collection targets and enhances image interpretability
- Enhanced change detection applications and accurate map updates in 8-band multispectral imagery



WorldView-1 clean room pre-launch preparations. The second of DigitalGlobe's state-of-the-art high-resolution commercial imagery satellites.

#### **DIGITALGLOBE CONSTELLATION » WORLDVIEW-1**

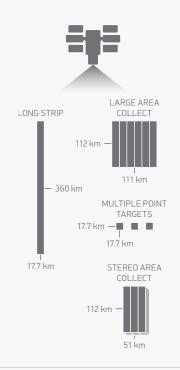
## **Design and specifications**







#### **Collection scenarios** (30º off-nadir angle)



### Sensor band



All imagery complies with U.S. regulation

DS-WV1-WVGA 07/13

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