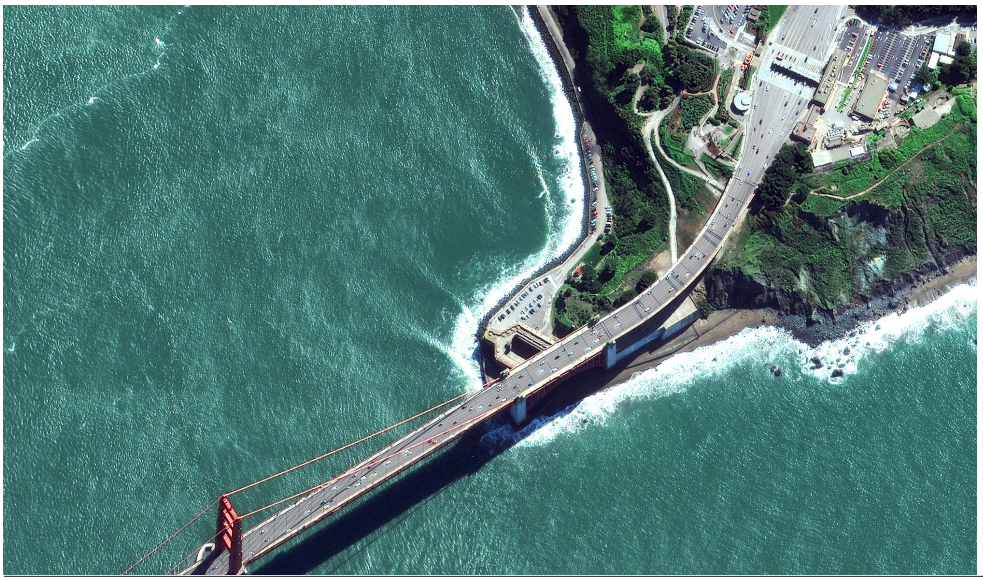
DATA SHEET

WorldView-2

Launched in October 2009, WorldView-2 is the first very high resolution 8-band multispectural commercial satellite. Operating at an altitude of 770 km, WorldView-2 incorporates industry-leading geolocation accuracy and is able to geolocate to less than 5 m to create maps in remote areas, thereby maximizing the utility of available resources. WorldView-2 has an average revisit time of 1.1 days and is capable of collecting up to 1 million sq km of 8-band imagery per day.

Utilzing the WorldView-2 satellite, European Space Imaging is capable of delivering very high resolution imagery options. We can currently offer our customers the following options: 31 cm panchromatic resolution, 1.85 m multispectural resolution, bi-directional scanning and rapid retargeting using Control Moment Gyros - more than two times faster than any competitor. In addition, our customers have access to direct access tasking to ensure you get the right image every time and an archive library that spans more than 4,000,000,000 km^2.



Company Information

European Space Imaging is a leading supplier of global very high-resolution (VHR) satellite imagery and derived services to customers in Europe, North Africa and CIS countries.

Operating a multi-mission capable ground station enables optimized image collection results taking into account real-time weather information and giving customers the highest degree of flexibility.

With a reputation for expert and personalized customer service it has been providing tailored VHR imagery solutions to meet the diverse project requirements of its customers since 2002.

MEMBER OF WORLDVIEW GLOBAL ALLIANCE™

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EUROPEAN SPACE IMAGING®

WorldView-2 Design and Specifications

Orbit	Altitude: 770km Type: SunSync, 10:30 am descending node Period: 100 minutes
Life	Estimated service life: 10- 12 years, including all consumables and degradables
Spacecraft size, mass and power	Size: 5.7 m H x 2.5 m W, 7.1 m across deployed solar arrays Mass: 2615 kg Power: 3.2 kW solar array, 100 Ahr battery
Sensor bands	Panochromatic: 450- 800 nm **8 Multispectral** Coastal: 400 - 450 nm Red: 630- 690 nm Blue: 450 - 510 nm Red Edge: 705- 745 nm Green: 510 - 580 nm Near-IR1: 770 - 895 nm Yellow: 585 - 625 nm Near IR2: 860 - 1040 nm
Sensor resolution	**Panochromatic** 0.46 m ground sample distance at nadir 0.52 m ground sample distance at 20˚ off-nadir **Multispectural** 1.85 m ground sample distance at nadir 2.07 m ground sample distance at 20˚ off-nadir:
Dynamic range	11-bits per pixel
Swath width	At nadir: 16.4 km
Attitude determination and control	Type: 3-axis stabilized Actuators: Control moment gyros (CMGs) Sensors: Star trackers, solid state IRU, GPS
Pointing accuracy and knowledge	Accuracy: <500 m at image start / stop Knowledge: Supports geolocation accuracy below
Retargeting agility	Time to slew 200 km: 10 sec
Onboard storage	2199 Gb solid state with EDAC
Communications	Image and ancilliary data: 800 Mbps X-band Housekeeping: 4, 16 or 32 kbps real time, 524 kbps stored, X-band Command: 2 or 64 kbps S-band
Max contiguous area collected in a single pass	Mono: 138 km x 112 km (8 strips) Stereo: 63 km x 112km (4 pairs)
Revisit frequency	1 m GSD or less at 1.1 days 3.7 days at 20˚ off-nadir or less (0.52m GSD)
Geolocation accuracy	Demonstrated <3.5 m CE90 without ground control
Capacity	1 million km^2 per day

Features

- The most spectral diversity commercially available:
  - four standard colors: blue, green, red and near-IR1
  - four new colors: coastal, yellow, red edge, and near-IR2
- Industry-leading geolocation accuracy
- High capacity over a broad range of collection types
- Bi-directional scanning
- Rapid retargeting using Control Moment Gyros (>2x faster than any competitor)
- Direct downlink to customer sites available
- Frequent revisits at high resolution

Benefits

- Provides highly detailed imagery for precise map creation, change detection and in-depth image analysis
- 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 competitor systems
- Stereoscopic collection on a single pass, ensures image continuity and consistency of quality
- Provides the ability to perform precise change detection, mapping and analysis at unprecedented resolutions in 8-band multispectural imagery

Sensor Bands

Panchromatic Multispectural Additional bands