



IKONOS

The IKONOS satellite is the world's first commercial satellite to collect panchromatic (black-and-white) images with .80 m resolution and multispectral (color) imagery with 3.2-meter resolution. Imagery from the panchromatic and multispectral sensors can be merged to create .80 m color imagery (pan-sharpened). IKONOS imagery is being used for national security, military mapping, air and marine transportation, and by regional and local governments. From a 423-mile-high orbit, IKONOS has a revisit time of once every three days and downlinks directly to more than a dozen ground stations around the globe.

Features

- » Sub-meter resolution imagery
 - 0.82 m panchromatic at nadir
 - 3.2 m multispectral at nadir
- » High geolocational accuracy
 - Stable platform for precise location measurement
- » Fast large area collection
 - 11.3 km imaging swath width
- » High collection capacity
 - Captures up to 240,000 km² per day

Benefits

- » Acquire high quality satellite imagery for map creation, change detection, imagery analysis and more
- » Geolocate features to create maps worldwide
- » Collect a wide range of geospatial information products
- » Extend the range of suitable imaging collection targets improving decision making



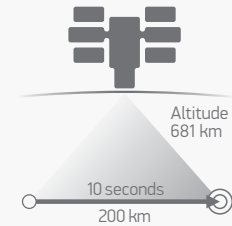
IKONOS artist rendering



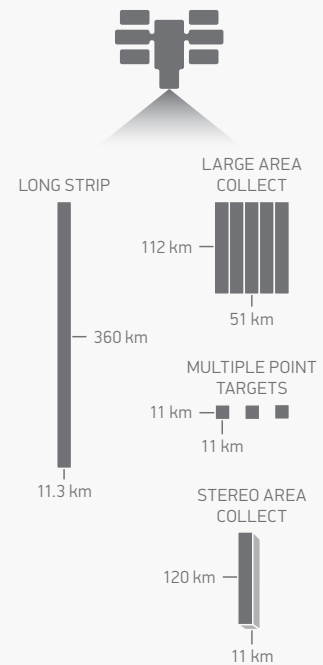
Singapore



DIGITALGLOBE CONSTELLATION » IKONOS
Design and specifications

Launch information	Date: September 24, 1999 Launch vehicle: Athena 2 Launch site: Vandenberg Air Force Base, California
Mission life	12+ years
Spacecraft size	1.83 m × 1.57 m (hexagonal configuration)
Spatial resolution	Panchromatic: 0.82 m Multispectral: 3.2 m
Positional accuracy	15 meter CE90 (specification) 9 meter CE90 (measured)
Swath width	11.3 km
Off-nadir imaging	Up to 60 degrees
Dynamic range	11 bits per pixel
Revisit time	Approximately 3 days
Orbital altitude	681 km
Nodal crossing	10:30am
Collection capacity	240,000 km ² /day (Pan + MSI)


Altitude and slew time

Collection scenarios

(30° off-nadir angle)


Sensor bands

-  Panchromatic
-  Multispectral

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