IKONOS

DATA SHEET

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 m 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.

IKONOS artist rendering

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 sq km 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

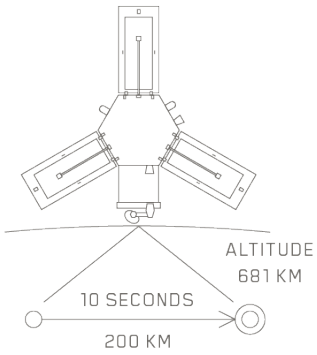
Sinapore

MAXAR

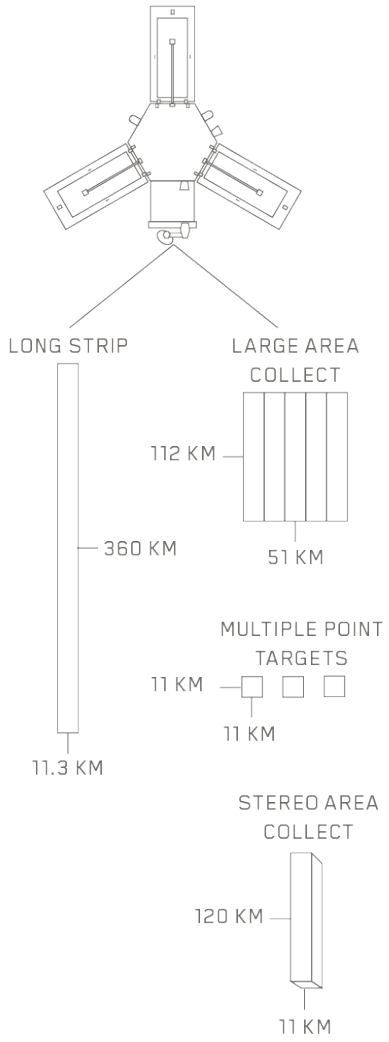
Specifications

Launch information	Date: 09/24/1999 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 m CE90 (specification) 9 m 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	10:30 am
Collection capacity	240,000 sq km/day (Pan+MSI)

ALTITUDE AND SLEW TIME



COLLECTION SCENARIOS



SENSOR BANDS

- Panchromatic
- Multispectral

MAXAR