Maxar's retired QuickBird satellite is no longer collecting imagery but continues to offer sub-meter resolution imagery with high geolocational accuracy through the imagery archive. With global collection of panchromatic and multispectral imagery, QuickBird imagery supports a wide range of geospatial applications.

**Features**

- Sub-meter resolution imagery
  - 55 cm panchromatic at nadir
  - 2.16 m multispectral at nadir
- High geolocational accuracy
  - Stable platform for precise location measurement
- Fast large area collection
  - 14.9 km width imaging swath
- High image quality
  - Off-axis unobscured design of QuickBird’s telescope - Large field-of-view
  - High contrast (MTF)
  - High signal to noise ratio
- Large on-board data storage
  - 128 gigabits on-board image storage capacity

**Benefits**

- Acquire high quality satellite imagery for map creation, change detection, and image analysis
- Geolocate features to create maps in remote areas without the use of ground control points
- Collect a greater supply of frequently updated global imagery products
- Extend the range of suitable imaging collection targets and enhance image interpretability
**Design and specifications**

| Launch Information                  | Date: October 18, 2001  
|                                    | Launch Vehicle: Delta II  
|                                    | Launch Site: SLC-2W, Vandenberg Air Force Base, California |
| Mission Life                       | Extended through early 2014 |
| Spacecraft Size                    | 2400 lbs, 3.04 m (10 ft) in length |

<table>
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<tr>
<th><strong>Altitude 482 km</strong></th>
<th><strong>Altitude 450 km</strong></th>
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| **Orbit**           | Type: Sun-synchronous,  
|                     | 10:00 am descending node  
|                     | Period: 94.2 min.  
| **Sensor Resolution** | Panchromatic: 65 cm GSD at nadir  
|                     | Black & White: 405 - 1053 nm  
|                     | Multispectral: 2.62 m GSD at nadir  
|                     | Blue: 430 - 545 nm  
|                     | Green: 466 - 620 nm  
|                     | Red: 590 - 710 nm  
|                     | Near-IR: 715 - 918 nm  
| **Dynamic Range**   | 11-bits per pixel |
| **Swath Width**     | Nominal Swath Width: 18.0 km at nadir  
|                     | Nominal Swath Width: 16.8 km at nadir |
| **Attitude Determination** | Type: 3-axis Stabilized  
|                     | Star tracker/IRU/reaction wheels, GPS |
| **Retargeting Agility** | Time to slew 200 km: 37 sec  
|                     | 38 sec |
| **Onboard Storage** | 128 Gb capacity |
| **Communications**  | Payload Data: 320 Mbps X-band  
|                     | Housekeeping: X-band from 4,16 and 256 Kbps, 2 Kbps S-band uplink |
| **Revisit Frequency** | 2.5 days at 1 m GSD or less  
| (at 40°N Latitude)  | 5.6 days at 20° off-nadir or less  
|                     | 2.4 days at 1 m GSD or less  
|                     | 5.9 days at 20° off-nadir or less |
| **Metric Accuracy**  | 23 m CE90, 17 m LE90 (without ground control) |
| **Capacity**         | 200,000 sq km per day |

**Collection scenarios**

(at nadir)

**Sensor bands**

- Panchromatic
- Multispectral

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