PGC provides high-resolution imagery from Maxar Technologies (formerly DigitalGlobe). Here you will find information about the satellites’ spatial and temporal resolution, spectral capabilities, and more!

**About Maxar**

Maxar Technologies Inc. is a commercial satellite imagery company currently headquartered in Westminster, Colorado. DigitalGlobe and MDA Holdings Company merged to become Maxar Technologies in 2017.

Maxar operates a constellation of five electro-optical earth imaging satellites.

For more information, visit [Maxar’s Constellation](https://www.pgc.umn.edu/guides/commercial-imagery/maxar-satellite-constellation/).

**WorldView-1**

WorldView-1 was Maxar’s second satellite, increasing capacity for the growing demand for commercial satellite imagery.

Launched in September 18, 2007, WorldView-1 has a single panchromatic band with a resolution of 0.5 m.

**Satellite Specifications**

- **Launched**: 2007
- **Operational Altitude**: 496 km
- **Spectral Characteristics**: Panchromatic
- **Sensor Resolution**: 50 cm GSD at nadir
- **Dynamic Range**: 11-bits per pixel
- **Swath Width**: 17.7 km at nadir
- **Capacity**: 1.3 million km² per day
- **Stereo Collection**: Yes

[Datasheet](https://www.pgc.umn.edu/guides/commercial-imagery/maxar-satellite-constellation/)

**WorldView-2**

Maxar’s third satellite was launched on October 8, 2009.

WorldView-2 provides commercially available panchromatic imagery of .46 m resolution, and 8-band multispectral imagery with 1.84 m (6 ft 0 in) resolution.

**Satellite Specifications**

- **Launched**: 2009
- **Operational Altitude**: 770 km
- **Spectral Characteristics**: Panchromatic + 8 Multispectral
**WorldView-3**

Launched on August 13, 2014, WorldView-3 provides commercially available panchromatic imagery of 0.31 m (12 in) resolution, which was the highest resolution commercially available at the time.

In addition, eight-band multispectral imagery with 1.24 m (4 ft 1 in) resolution and shortwave infrared (SWIR) imagery at 3.7 m (12 ft 2 in) resolution are also available.

**Satellite Specifications**

- **Launched**: 2014
- **Operational Altitude**: 617 km
- **Spectral Characteristics**: Panchromatic + 8 Multispectral + 8 SWIR + 12 CAVIS
- **Sensor Resolution**: 31 cm GSD at nadir
- **Dynamic Range**: 11-bits per pixel, 14-bits per pixel SWIR
- **Swath Width**: 13.1 km at nadir
- **Capacity**: 680,000 km² per day
- **Stereo Collection**: Yes

**Datasheet**

As of 2018, WorldView-4 is not available in the NRO Electro-Optical Commercial Layer (EOCL) license.

**WorldView-4**

Launched on November 11, 2016, WorldView-4 is Maxar’s newest high-resolution satellite.

**Satellite Specifications**

- **Launched**: 2016
- **Operational Altitude**: 617 km
- **Spectral Characteristics**: Panchromatic + 4 Multispectral Bands
- **Sensor Resolution**: Pan: 31 cm GSD at nadir; MS: 1.24 m at nadir
- **Dynamic Range**: 11-bits per pixel
- **Swath Width**: 13.2 km at nadir
- **Capacity**: 680,000 km² per day
- **Stereo Collection**: Yes

**Datasheet**
QuickBird

Maxar's first Earth observation satellite, QuickBird launched in October of 2011 and became the first satellite provide commercially-available sub-meter optical imagery.

QuickBird was retired in December 2014 after its mission was extended in 2011 by raising the orbital altitude from 450km to 482km.

**Satellite Specifications**

**Launched:** 2011  
**Operational Altitude:** 400-450 km  
**Spectral Characteristics:** Panchromatic + 4 Multispectral  
**Sensor Resolution:** 55-61 cm GSD at nadir  
**Dynamic Range:** 11-bits per pixel  
**Swath Width:** 14.9-16.8 km at nadir  
**Capacity:** 200,000 km² per day  
**Stereo Collection:** Yes

Datasheet

IKONOS

A pioneer in earth-observation satellites, IKONOS was the first to collect publicly available high-resolution imagery at 1-(panchromatic) and 4-(multispectral) meter resolution.

Launched on September 24, 1999, the satellite performed for more than twice its life expectancy when it was retired in March 2015.

**Satellite Specifications**

**Launched:** 1999  
**Operational Altitude:** 681 km  
**Spectral Characteristics:** Panchromatic + 4 Multispectral  
**Sensor Resolution:** 82 cm GSD at nadir  
**Dynamic Range:** 11-bits per pixel  
**Swath Width:** 11.3 km at nadir  
**Capacity:** 240,000 km² per day  
**Stereo Collection:** Yes

Datasheet

GeoEye-1

Originally owned and operated by GeoEye Inc., GeoEye-1 was launched on September 6, 2008.

GeoEye-1 offers four multispectral bands (red, green, blue and near-infrared) in addition to its panchromatic band, which has a maximum resolution of 41 cm.
Satellite Specifications

- **Launched**: 2008
- **Operational Altitude**: 681 km
- **Spectral Characteristics**: Panchromatic + 4 Multispectral Bands
- **Sensor Resolution**: Pan: 41 cm GSD at nadir; MS: 1.65 m GSD at nadir
- **Dynamic Range**: 11-bits per pixel
- **Swath Width**: 15.3 km at nadir
- **Capacity**: 350,000 km² per day
- **Stereo Collection**: Yes

Datasheet

Summary

In this Guide, we’ve covered:

- History of Maxar Technologies, Inc.
- Detailed specifications of sensors