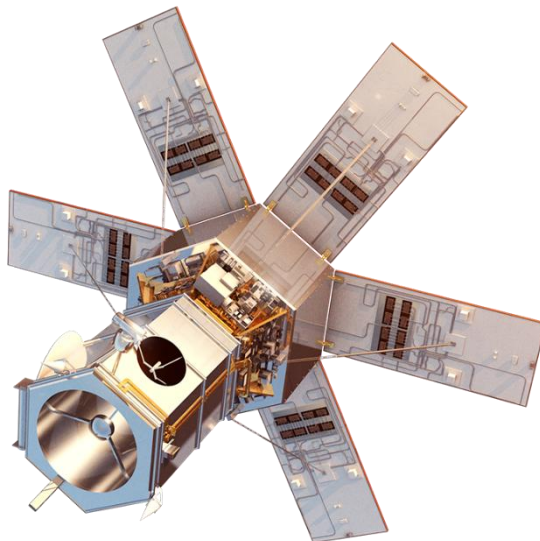




WorldView-4:

WorldView-4 is the latest earth observation satellite operated by DigitalGlobe launched on 11th November 2016 from Vandenberg Air Force Base Space Launch Complex 3E. Worldview-4 provides similar imagery as WorldView-3 with highest resolution of 31cm. It is designed and built by ITT Exelis and Harris having 1.1m in diameter.

WorldView-4 will provide products such as digital elevation models, digital surface models, satellite imagery, geometrically corrected products, terrain corrected or ortho-rectified products, stereo pair products and large-area mosaics and feature maps. Advantages of the satellite are high resolution and multi-spectral imagery, remove all the errors such as temporal variation and reducing slew time, precision geo-location possible without ground control points.



WorldView-4 Satellite Specifications are as follow-

Launch Information:	Date: 11 October, 2016 Launch Vehicle: Atlas V 401, AV-062 Launch Site: Vandenberg Air Force Base Space Launch Complex 3E.
Operator:	DigitalGlobe.
Orbit:	Altitude: 617 km above earth's surface.
Type:	Sun-synchronous, 10:30 am descending Node.
Life:	10 to 12 years.
Period:	97 min.
Inclination:	97.98 degrees.
Spacecraft Size:	Size: 5.3 m (17.7 ft.) tall x 2.5 m (8 ft.) across 7.9 m (26 ft.) across deployed solar arrays.
Aperture:	Aperture: 1.1m
Sensor Bands:	Panchromatic: 450 - 800 nm 4 Multispectral: Red:655 - 690 nm Green:510 - 580 nm Blue:450 - 510 nm Near-IR:780 - 920 nm
Sensor Resolution: (GSD, Ground Sample Distance, geometric mean)	56° Off-Nadir:1.00 m 65° (earth limb):3.51 m Multispectral Nadir:1.24 m 20° Off-Nadir:1.38 m 56° Off-Nadir:4.00 m 65° (earth limb):14.00 m
Dynamic Range:	11-bits per pixel.
Swath Width:	At nadir: 13.1 km.
Attitude Determination and Control:	Type: 3-axis Stabilized Actuators: Control Moment Gyros (CMGs) Sensors: Star trackers, precision IRU, GPS

Retargeting Agility:	Time to Slew 200 km: 10.6 sec
Onboard Storage:	3200 Gb solid state with EDAC
Communications:	Image & Ancillary Data: 800 Mbps X-band Housekeeping: 120 kbps real time, X-band Command: 64 kbps S-band
Max Contiguous Area Collected in a Single Pass: (30° off-nadir angle)	Mono: 66.5 km x 112 km (5 strips) Stereo: 26.6 km x 112 km (2 pairs)
Revisit Frequency: (at 40°N Latitude)	1 m GSD: < 1.0 day Total constellation >4.5 accesses/day
Geolocation Accuracy: (CE90)	Predicted <4 m CE90 without ground control
Capacity:	680,000 km ² per day
Main telescope name:	GeoEye Imaging System-2

First image was taken on 26th November, 2016 and published on 2nd December, 2016

