

EARTH FROM ALL ANGLES



SATELLITE IMAGE ACQUISITION AND PROCESSING

© MAXAR, Sensor: WorldView-3, Olympic Stadium, Montreal, 02/08/2019

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CHARACTERISTICS OF THE MAIN COMMERCIAL EARTH OBSERVATION SATELLITES

Sensor	Spectral bands	Spatial resolution (m)		Work scale	Stereo	Operational / Launch planned	Features and comments
		P*	MS (I)**				
WorldView-3	Panchro + 16 MS	0.3 - 0.4 - 0.5	1.2 - 1.6 - 2	1:1,000	X	since 2014	16 MS include 8 new SWIR bands (shortwave infrared) at 3.7 m. 12 additional bands
WorldView-4	Panchro + 4 MS	0.3 - 0.4 - 0.5	1.2 - 1.6 - 2	1:1,000	X	2017 - 2019	(System failure - January 2019)
WorldView-2	Panchro + 8 MS	0.4 - 0.5	1.6 - 2	1:2,000	X	since 2010	
Kompsat-3A	Panchro + 4 MS	0.4	1.6	1:2,000	X	since 2015	Plus 1 medium infrared band at 5.5 m resolution
GeoEye-1	Panchro + 4 MS	0.4 - 0.5	2	1:2,000	X	since 2009	
WorldView-1	Panchro	0.5		1:2,000	X	since 2007	Since June 2016, changed to afternoon orbit
Pléiades 1A & 1B	Panchro + 4 MS	0.5	2	1:2,000	X	since 2012	Constellation of 2 satellites; stereo triplets available
QuickBird-2	Panchro + 4 MS	0.65	2.62	1:5,000		2001 - 2015	Considerable archives
Kompsat-3	Panchro + 4 MS	0.5 - 0.7	2 - 2.8	1:5,000	X	since 2012	
PlanetScope	4 MS		3.125	1:15,000		since 2016	Constellation of 120 Planet satellites
KazEOSat-1	Panchro + 4 MS	1	4	1:5,000	X	since 2016	
Kompsat-2	Panchro + 4 MS	1	4	1:5,000	X	since 2006	
IKONOS-2	Panchro + 4 MS	1	4	1:5,000	X	1999 - 2015	Considerable archives
SPOT-6 & 7	Panchro + 4 MS	1.5	6	1:10,000	X	since 2012	Stereo triplets available; operated in constellation
ALOS PRISM/ AVNIR	Panchro + 4 MS	2.5	10	1:15,000	X	2006 - 2011	
SPOT-5	Panchro + 4 MS	2.5	10	1:15,000	X	2002 - 2015	
RapidEye	5 MS		5	1:25,000		2008 - 2020	Last taskings February 2020
KazEOSat-2	5 MS	6.5		1:30,000	X	since 2016	Includes 1 Red Edge band
SPOT-4	Panchro + 4 MS	10	20	1:50,000	X	1986 - 2013	
Landsat-8	Panchro + 10 MS	15	30	1:100,000		since 2013	Free data; 2 SWIR bands & 2 thermal bands are included
Landsat-7 ETM	7 MS	15	30	1:100,000		since 1999	Landsat-5 data (7 MS to 30 m) available for 1984-2012
Sentinel 2A & 2B	10 MS		10 and 20	1:50,000		since 2015 & 2016	Free data; 3 SWIR bands in addition to 10 MS bands
Jilin	Panchro + 4 MS	0,72	4	1:5,000		2015	Constellation of more than 10 satellites; video; nighttime
TripleSat	Panchro + 4 MS	0,8	3,2	1:5,000		2015	Constellation of 3 satellites
SuperView	Panchro + 4 MS	0,5	2	1:2,000		2014	Constellation of 2 satellites
Kompsat-5	X-band radar	≤ 0.85 to ≤ 20			X	2013	Single polarization (HH, HV, VV, VH)
PAZ	X-band radar	1 to 16			X	since 2018	Same characteristics as and operated in constellation with TerraSAR-X
Sentinel 1A & 1B	C-band radar	5 to 100				since 2014	Constellation of 2 satellites; dual polarization; open data
ALOS-2 PALSAR	L-band radar	1 to 100			X	since 2014	Polarimetric; left & right view; ALOS-1 data available for 2006-2011
TerraSAR-X	X-band radar	1 to 16			X	since 2007	Single or dual polarization
TanDEM-X	X-band radar	1 to 16			X	since 2010	Near simultaneous interferometric pairs with TerraSAR-X eventually available
COSMO-SkyMed	X-band radar	1 to 100				since 2007	Constellation of 4 satellites; single or double polarization
RADARSAT Constellation Mission	C-band radar	3 to 100			X	2020	Constellation of 3 satellites; Polarimetric; open data
RADARSAT-2	C-band radar	3 to 100			X	since 2007	Polarimetric; open data stereo acquisition
RADARSAT-1	C-band radar	8 to 100			X	1995 - 2013	HH polarization only; stereo acquisition

Note: Radar sensors () can acquire images regardless of meteorological conditions

*P: panchromatic / **MS (I): bands in the visible and near infrared

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