

Pléiades, SPOT & TerraSAR-X

Pléiades

60° slew in 25 seconds
- 200km in 11 seconds
including
stabilization time



Orbit
Sun-synchronous, 10:30 AM
descending node, 26-day cycle,
694-km altitude

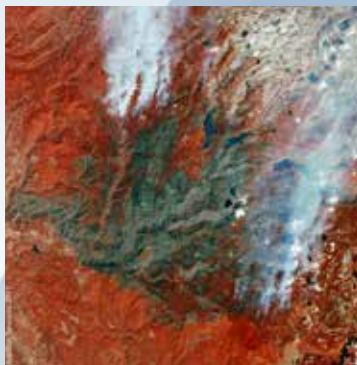
Product Resolution
Panchromatic: 0.5m;
Multispectral: 2m

Allows single pass collection scenarios over
areas as big as 120 x 110 km, and also Stereo
or Tristereo imagery acquisition

Pearl Harbor, Hawaii
06/07/2014



SPOT



Orbit
Sun-synchronous, 10:00 AM
descending node, 26-day
cycle, 694-km altitude

Allows single pass collection scenarios over
areas as big as 300 x 330 km, and also Stereo
or Tristereo imagery acquisition

Yosemite National Park, USA (False Colour)
09/05/2013

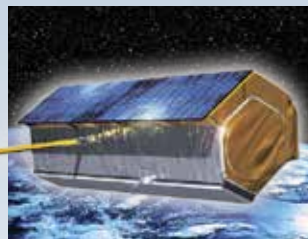


60° slew in 25 seconds - 200km in 11
seconds including stabilization time

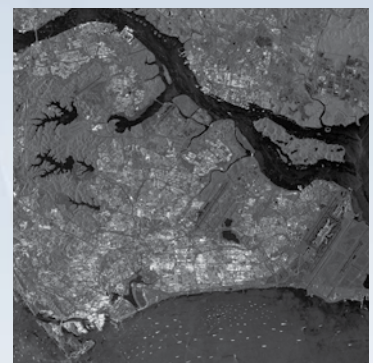
Product Resolution
Panchromatic: 1.5m;
Multispectral: 6m

TerraSAR-X

Resolution
Up to 0.25m, 1m, 2m,
3m, 18.5m and 40m



Imaging Modes
Staring SpotLight
High Res. SpotLight
SpotLight
StripMap
ScanSAR
Wide ScanSAR



Orbit
Sun-synchronous repeat orbit with 11 days repeat
period (4/7 days in constellation with PAZ), equatorial
passing time 06:00 AM (descending pass), 06:00 PM
(ascending pass), 514-km altitude

Centre Frequency
9.65 GHz (X band)

Straits of Singapore
17/05/2010

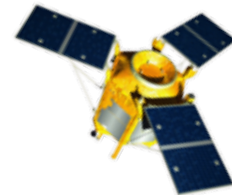
AgilSpace is the authorised reseller for Pléiades, SPOT and TerraSAR-X data.

Pléiades, SPOT & TerraSAR-X

Product Specifications



Pléiades



SPOT

Number of Satellites	2 - Pléiades 1A and Pléiades 1B, featuring a true constellation	2 - SPOT 6 and SPOT 7, featuring a true constellation
Launch	Pléiades 1A: December 17, 2011; Pléiades 1B: December 2, 2012	SPOT 6: September 9, 2012; SPOT 7: June 30, 2014
Orbit	Sun-synchronous, 10:30 AM descending node, 26-day cycle, 694-km altitude	Sun-synchronous, 10:00 AM descending node, 26-day cycle, 694-km altitude
Spectral Bands	Panchromatic, Blue, Green, Red, Near Infrared for all acquisitions	Panchromatic, Blue, Green, Red, Near Infrared for all acquisitions
Product Resolution	Panchromatic: 0.5m; Multispectral: 2m	Panchromatic: 1.5m; Multispectral: 6m
Geolocation Accuracy	8.5m CE90 at Nadir	< 18m CE90 at Nadir
Dynamic Range at Acquisition	12 bits	12 bits
Swath	20 km at Nadir	60 km at Nadir
Revisit Capacity	Daily, everywhere	Daily, everywhere
Pointing Agility	- Allows single pass collection scenarios over areas as big as 120x110 km, and also Stereo or Tristereo imagery acquisition. - 60° slew in 25 seconds - 200km in 11 seconds including stabilization time	- Allows single pass collection scenarios over areas as big as 300x330 km, and also Stereo or Tristereo imagery acquisition. - 60° slew in 25 seconds - 200km in 11 seconds including stabilization time
Acquisition Capacity	700,000 km ² / day (max. capacity), with an average of 500,000 km ² / day - 1.2 times the equivalent of the Earth landmasses per year	6,000,000 km ² / day (max. capacity), with an average of 3,600,000 km ² / day - 8.8 times the equivalent of the Earth landmasses per year
Mission Lifetime	Minimum of 5 years with an estimated life of more than 10 years	Minimum of 10 years

TerraSAR-X



Number of Satellites	2 - TerraSAR-X and TanDEM-X operated as a constellation					
Launch	TerraSAR-X: June 15, 2007; TanDEM-X: June 21, 2010					
Orbit	Sun-synchronous repeat orbit with 11 days repeat period, equatorial passing time 06:00 AM (descending pass), 06:00 PM (ascending pass), 514-km altitude					
Centre Frequency	9.65 GHz (X band)					
Polarization	Single, dual (quadruple during dedicated acquisition campaigns)					
Imaging Modes	Staring SpotLight	High Res. SpotLight	SpotLight	StripMap	ScanSAR	Wide ScanSAR
Resolution	Up to 0.25m	Up to 1m	Up to 2m	Up to 3m	Up to 18.5m	Up to 40m
Swath	4x3.7 km ²	10x5 km ²	10x10 km ²	30x50 km ²	100x150 km ²	up to 270x200km ²
Geolocation Accuracy	Up to 1 m depending on incidence angle and DEM utilized for orthorectification					
Revisit Capacity	Daily for most latitudes					
Acquisition Capacity	5,400,000 km ² / day (max. capacity), with images as wide as 400,000 km ² cleared in a pass					
Mission Lifetime	5 years for both satellites (TerraSAR-X and TanDEM-X), an extended lifetime beyond 2018 is expected					

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Note: All specifications are subject to change without notice.
Rev. 210116



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