



DEFENCE AND SPACE

Pléiades

PACGEO

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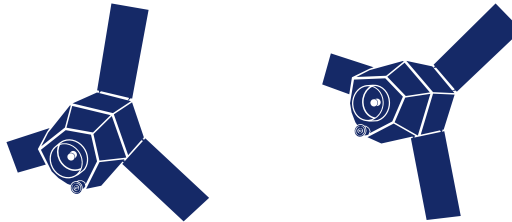
Pléiades

Timely, Available Very High Resolution

The identical Pléiades 1A and Pléiades 1B satellites deliver 50 cm optical products in record time, with an unrivalled reliability when it comes to collecting a new image.

Number of Satellites: 2

Pléiades 1A & Pléiades 1B,
featuring a true constellation.



Features & Benefits

Key Features

- Detailed & precise: 50 cm products.
- Fast & frequent: daily revisit capacity and highly reactive tasking.
- Available & flexible: advanced agility and truly available capacity.
- Stereo/Tristereos new acquisitions and archive.

Key Benefits

- Ideal for precision mapping and in-depth intelligence.
- Particularly suitable for emergency response and up-to-daily change detection.
- An industry-leading acquisition success rate, for reliable and timely decision-making.
- Detailed and solid 3D models, affordable even in the most inaccessible locations.

Technical Specifications

- **Launch**Pléiades 1A: December 17, 2011; Pléiades 1B: December 2, 2012
- **Orbit**Sun-synchronous, 10:30 AM descending node, 26-day cycle, 694 km altitude
- **Period**98.79 minutes
- **Inclination**98.2°
- **Optical System**The telescope is a Korsch type combination with 65 cm aperture diameter, focal length of 12.905 m, f/20, TMA optics
- **Spectral Bands**Pan: 0.47-0.83 mm; Blue = 0.43-0.55 mm, Green = 0.50-0.62 mm, Red = 0.59-0.71 mm, Near Infrared = 0.74-0.94 mm
- **Product Resolution**Panchromatic: 0.5 m; Multispectral: 2.0 m
- **Swath Width**20 km at Nadir
- **Dynamic Range at Acquisition**12 bits per pixel
- **NIIRS Class**6
- **Viewing Angle**Standard: +/- 30° in roll | Extended: +/- 45° in roll
- **Revisit capacity, using Both Pléiades 1A & 1B**Daily, anywhere
- **Pointing Agility**Roll/Pitch 60° within 25 seconds including stabilization time
- **Acquisition Capability**700,000 km² / day (max. capacity), with an average of 500,000 km² / day
- **Location Accuracy at Nadir**< 6.5 m CE90 as measured during the IOT phase (In Orbit Tests)

Mission Lifetime

Minimum of 5 years with an estimated lifetime of more than 12 years.