



DEFENCE AND SPACE  
Intelligence

# Pléiades

Lisbon, Portugal

IMAGENGEO  AIRBUS

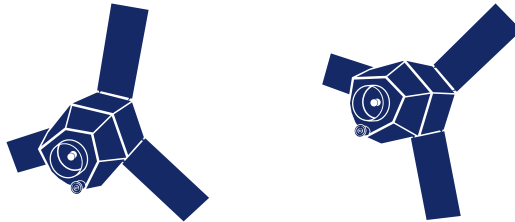
# Pléiades

## 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 km<sup>2</sup> / day (max. capacity), with an average of 500,000 km<sup>2</sup> / day
- **Location Accuracy at Nadir** .....< 8.5 m CE90

### Mission Lifetime

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