

DEFENCE AND SPACE  
Intelligence

# Pléiades Neo for Defence

Trusted Intelligence

AIRBUS



## Pléiades Neo, Get the Best Intelligence for your Missions

Defence and Intelligence (D&I) customers evolving in a demanding environment need the most robust and precise tools to achieve their missions seamlessly.

With 30 cm resolution, best-in-class geolocation accuracy and twice-a-day revisit, the four identical Pléiades Neo satellites unlock new possibilities for D&I stakeholders worldwide: enhanced projection preparation, precise location of enemy positions, and better anticipation and prevention for increased responsiveness and protection.

## Your Mission Success is Key, Pléiades Neo Makes it a Priority

### **30 cm Resolution as if You Were There**

The very high resolution (VHR) enables you to detect, recognise and identify assets to provide the most precise situational awareness. In targeting context, Armed Forces will benefit from accurate terrain information to prepare their mission.

### **High Reactivity for Emergency Situations**

Receive Pléiades Neo images in 40 minutes in emergency mode or less than two hours in routine mode.

### **High Revisit Rate for Monitoring and Information Superiority**

With at least two revisits per day anywhere on Earth for near-real-time intelligence situational awareness. Frequently monitor your sensitive area of interest and detect suspicious activity before anyone else.

### **< 5mCE90 Native Location Accuracy for Informed Decision-Making and Mission Planning**

Base your decision on trusted dataset: the geolocation accuracy provided by Pléiades Neo guarantees reliable information.

### **Massive Acquisition Capacity**

With up to 2 million sq km daily capacity, Pléiades Neo can answer needs demanding important imagery quantity such as mapping and cartography.

### **Increase your Reactivity with Analytics and Machine Learning Support**

Analyse the huge quantity of 30 cm data delivered by Pléiades Neo with the support of automatic object and change detection algorithms, to increase your speed and allow your image analysts to focus on what matters.





# Ultimate Reactivity

## Pléiades Neo at all Stages of your Mission

**Pre-Mission** – In today's asymmetrical warfare, having a thorough insight of an AOI has become both a requirement and an asset. Pléiades Neo's performance enables the creation of quick and reliable 3D textured models and Digital Elevation Models (DEMs) of urban and remote areas. This detailed knowledge of the field will ensure quicker, better mission preparation and safety.

**In-Mission** – Pléiades Neo's very high resolution allows positive identification of mobile or fixed target status, and the ability to plan a potential follow-up activity, if necessary.

**Post-Mission** – Detailed analysis of the events is mandatory in order to fully assess the mission's outcome and potential miss. VHR is required in order to positively ID mobile and fixed target status, and plan a potential follow-up activity in case it is required.



## Better Capabilities for your Day-to-Day Applications



- Border monitoring
- Defence critical infrastructure monitoring
- Counter terrorism
- Air and land navigation support
- Mission planning
- Mapping and cartography
- Order of battle (ORBAT)
- Targeting
- Battle damage assessment (BDA)
- Treaty verification
- Infrastructure assessment
- Aid station
- Humanitarian and disaster response (HADR)

# Technical Specifications



## Number of satellites

4 identical satellites in constellation



## Revisit frequency

Daily, anywhere (30° off-Nadir)  
Twice daily, anywhere (46° off-Nadir)



## Launch

2021



## Product resolution

30 cm (GSD)



## Geolocation accuracy

<5 m CE90



## Spectral bands

Deep Blue, Blue, Green, Red, Red Edge, Near-infrared, Panchromatic



## Dynamic range at acquisition

12 bits



## Acquisition capacity

Up to 2 million km<sup>2</sup> per day



## Swath

14 km at Nadir



## Orbit

Sun-synchronous, 10:30 a.m.  
Descending node, 620 km altitude



## Mission lifetime

10 years