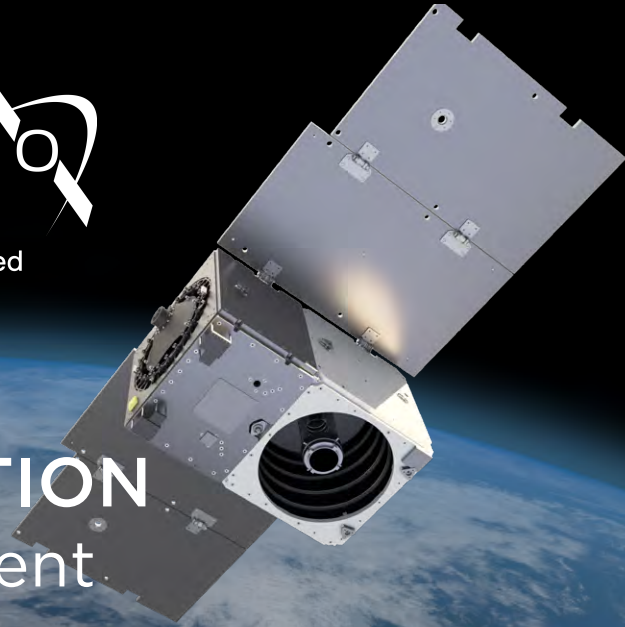




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PELICAN CONSTELLATION

Rapid, Responsive, Resilient

The Pelican constellation will be Planet's next generation of high-resolution Earth imaging satellites. These cost-effective and high-performance Pelican spacecraft are intended to enhance Planet's existing high-resolution imagery offerings by capturing images with finer resolution and additional spectral bands. The spacecraft are expected to be launched into a combination of sun-synchronous and mid-inclination orbits. They are engineered to deliver improved imaging quality and more frequent revisit times, ensuring timely information for decision makers.

For more information on the Pelican spacecraft, please see [Planet's Modular, Extensible SmallSat Platform](#).

PLANNED FEATURES OF FULLY OPERATIONAL PELICAN FLEET

- 30-50 cm high-resolution imagery
- 6 multispectral bands optimized for cross-sensor analysis
- Geolocation accuracy of <10m CE90 post-processed with ground control points
- Downlink rate up to 10 Gbps for low-latency applications via Planet Ground Station network
- Latency: < 2-4 hours supported by our global ground station network
- Near Real-time Tasking (up to 5 minutes before imaging) via an intersatellite link partner
- Onboard edge compute platform for rapid analytic applications



PRODUCTS

Planet plans to offer Pelican products at several processing levels:

- Basic L1A product offers a rapid product without orthorectification for customers that wish to perform their own processing and prefer the fastest product possible.
- Basic L1B products offer basic optical and geometric corrections, band aligned, radiometrically calibrated panchromatic and multispectral products.
- Ortho products are orthorectified and resampled to a standard pixel spacing; Standard products and will be offered with a refined state model, footprint, and radiometric calibrations applied. Surface reflectance, visual, and pan-sharpened products are also expected to be available.

PELICAN PLANNED SPECIFICATIONS

Orbit	350 km - 450 km altitude Sun-synchronous or mid-inclination compatible
Life	Anticipated design life of 5 years
Spacecraft	Dimensions: 300 x 120 x 80 cm Mass: 200 kg
Sensor Bands*	Panchromatic: 450 - 800 nm Blue: 465 - 518 nm Red Edge: 699 - 716 nm Green: 547 - 585 nm Near-IR Wide: 779 - 885 nm Red: 650 - 682 nm Near-IR Narrow: 846 - 887 nm
Ortho Product Ground Sample Distance	Generation 1 sats: 50 cm Generation 2 sats: 30 cm
NIIRS at Nadir**	5 - 5.5
Swath Width***	Generation 1 sats: 8 km Generation 2 sats: 6 km
Geolocation Accuracy	< 75 m CE90 without ground control points < 10 m CE90 with Planet ground control points

*Pelican-2 will have similar, though slightly broader filters, and alternative NIR Narrow band.

**NIIRS values are projections based on the General Image-Quality Equality Version 5.0. Detailed operator based evaluations are pending.

***Pelican mission consists of multiple phases, including tech demos and other milestones. Generation 1 satellites are additionally expected to support 40 cm class products when operated at 350 km. Generation 2 Pelican spacecraft are anticipated to produce 30 cm class imagery.

ABOUT PLANET

Planet is the leading provider of global, near-daily satellite imagery data, and insights. Planet is driven by a mission to image all of Earth's landmass every day, and make global change visible, accessible, and actionable. Founded in 2010 by three NASA scientists, Planet designs, builds, and operates the largest Earth observation fleet of satellites, and provides the online software, tools, and analytics needed to deliver data to users.

To learn more visit planet.com, follow on LinkedIn [@planet-labs](https://www.linkedin.com/company/planet-labs), and on X [@Planet](https://twitter.com/Planet).

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