

Vantor Pulse™



Proliferated fleet of high-revisit satellites

Delivering 40 cm-class imagery as frequently as every 15 minutes, Pulse powers persistent monitoring and cues high-resolution intelligence across the Vantor™ constellation.

Vantor Pulse™ is designed to solve one of the hardest challenges in spatial intelligence: knowing when and where to look.

As a proliferated fleet of high-revisit satellites, Pulse provides continuous, global monitoring, capturing 40 cm-class imagery of any location on Earth as frequently as every 15 minutes. This persistent awareness allows you to detect change as it happens, track activity over time, and respond faster to evolving conditions.

Expandable to other sensor bands, Pulse works in concert with Vantor's high-resolution satellites to automatically cue targeted collection, turning broad-area monitoring into precise, actionable intelligence. The result is a system that doesn't just collect data, but directs attention to what matters most.

Integrated into the Vantor™ constellation and spatial intelligence platform, Pulse strengthens the living globe, a continuously updated, high-fidelity representation of the world, giving you the foundation to detect, understand, and act on change at machine speed.

Specifications

Orbit	450–600 km MIO
Native resolution	37–50 cm
Geolocation accuracy	<15 m CE90, post-processed to <5 m CE90
Launch	As early as 2027
Points	>500 points/day
Area	>300k sq km/day
Useful lifetime	>5 years
Bands	8 multi-spectral bands
Radiometric accuracy	<5%

Features and benefits

Persistent global monitoring at unmatched frequency
Revisit any location every 15 minutes for continuous visibility with no gaps.

Detect change as it happens
Identify activity, movement, and anomalies in near real time. Act on signals, not delays.

Cue high-resolution intelligence automatically
Automatically cue high-resolution satellites for follow-on collection to confirm and act with detail.

From detection to decision faster
High-frequency monitoring and rapid tasking cut time between signal to insight from hours to minutes.

Built for multi-sensor fusion and AI workflows
Frequent observations improve change detection, pattern analysis, and alerts, enhancing human and machine insight. The Pulse platform is also expandable to other sensor bands.

Expand coverage without sacrificing precision
Increases global capacity and revisit rates 5x, fully aligned to Vantor's authoritative spatial foundation.

Power real-time intelligence systems
Feed directly into platforms like Vantor Tensorglobe™ to enable persistent monitoring, automated tasking, and continuous terrain updates.