NEWSPACE MARKET

NEWSPACE MARKET · COMPANY PROFILE

EOI Space (Earth Observant)

United States · founded 2016 · eoi.space

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as of 20 August 2026

ABOUT

EOI Space (Earth Observant)

EOI Space (Earth Observant Inc.) is a US-based commercial space company headquartered in Louisville, Colorado, developing a unique constellation of very low-flying satellites called Stingrays to collect ultra-high-resolution imagery from Very Low Earth Orbit (VLEO). By operating at roughly half the altitude of typical imaging satellites, EOI Space aims to capture the highest commercially available resolution views of Earth for real-time intelligence, asset monitoring, and situation awareness. The company has patented a standardized VLEO-specific satellite bus featuring an aerodynamic design, extended solar arrays, high-speed radios, and drag-resistant materials, paired with a proprietary electric propulsion system called HET-X that maintains a consistent 250 km altitude for at least five years. Each Stingray satellite includes onboard edge computing to process imagery before downlink, enabling faster delivery and AI-generated analytics directly from space. EOI Space plans a fully operational constellation of up to 60 Stingray satellites, delivering 15 cm-resolution multispectral and near-infrared imagery with re-imaging of any global location as frequently as every 10 minutes and the capacity to image over 10,000 areas of interest per day. Services include Priority Imagery, Tasking (leasing capacity to governments and partners), OnDemand Imagery via API/cloud streaming, Library Imagery, and AI-based Monitoring, serving industries such as defense, energy, insurance, transportation, maritime, and disaster response. The company is led by co-founders Christopher Thein (CEO) and Nathan Rosenblad (Chief Engineer), with a leadership team drawing on experience from the National Geospatial-Intelligence Agency, Lockheed Martin, DigitalGlobe, Ball Aerospace, and the U.S. Air Fo

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SERVICES

Services

AI-generated analytics from Space

On-board super compute processes imagery and enables automation and AI-generated analytics directly from space, improving latency.

Customized privacy for imagery

Customers control whether the imagery they task is released publicly or remains private.

Flexible tasking

Customers can request imagery at precise times or for continuous monitoring of a location, tailored to their specific needs.

Propulsion technology for satellite maneuvers

EOI Space's propulsion technology enables crucial satellite operating maneuvers for other organizations, including attitude adjustments, constellation spacing, and deorbiting.

Secure access to imagery

Customers can access imagery from the constellation through their own facilities, a private cloud, or the EOI Space imagery portal.

PRODUCTS

Product catalogue

EOI SPACE (EARTH OBSERVANT)

Hyperspectral Earth Observation Satellite

EOI Space's (Earth Observant) hyperspectral LEO satellites providing hundreds of spectral bands for precision agriculture, mineral prospecting, and environmental monitoring.

Technology	Hyperspectral imaging (200+ bands, ~5 nm resolution)
Spectral Range	VNIR (400–1,000 nm) + SWIR (1,000–2,500 nm)
Applications	Crop disease detection, mineral prospecting, methane plumes, soil classification
Competitors	Satellogic, Planet Hyperspectral, NASA DESIS (ISS payload)
HQ	USA (Earth Observant Inc.)

price on request

Stingray Imagery Specification	
Resolution (all bands)	15cm
Spectral Bands	
Panchromatic:	450-800 nm
Blue:	450-520 nm
Green:	520-600 nm
Red:	630-690 nm
Revisits (one sat)	1.5 days
Revisit (constellation)	10-15 minutes
Scene Size (max)	5km x 50km

EOI SPACE (EARTH OBSERVANT)

Stingray Satellite Constellation

The Stingray Satellite Constellation is a unique system of very low-flying satellites designed to collect ultra-high-resolution Earth imagery from Very Low Earth Orbit (VLEO). Thes

Orbit	Very Low Earth Orbit (VLEO)
Altitude	250km
Operational Lifetime	Up to five years
Propulsion System	Proprietary electric propulsion system (HET-X)
Onboard Processing	Yes
Imagery Resolution	15cm

price on request

Contact EOI Space (Earth Observant)

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

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