

NEWSPACE MARKET · COMPANY PROFILE



HEO Robotics

Australia · founded 2016 · heospace.com

4

PRODUCTS

5

SERVICES

newspacemarket.com/companies/heo-robotics/

as of 20 August 2026



HEO Robotics

HEO (High Earth Orbit Robotics Pty Ltd) was founded in 2016 in Sydney, Australia by Dr Will Crowe, who began developing the company's approach to non-Earth imaging (NEI) while completing his PhD in astrodynamics at the University of New South Wales (UNSW), and Dr Hiranya Jayakody, Co-Founder and CTO, who holds a PhD in mechatronics engineering from UNSW Sydney. After Crowe completed his PhD in 2018, the pair applied their research to urgent applications in space debris management and inspecting damaged satellites, growing HEO into a company focused on helping satellite operators, defence organisations and governments monitor assets in space. HEO provides commercial, resolved non-Earth imaging services by tasking a global network of third-party and proprietary space-based sensors to capture images of satellites and other resident space objects, then processes the imagery through proprietary software to deliver actionable insights. The company's platform, HEO Inspect, lets customers explore an imaging catalogue, task satellites in real time, and retrieve imagery and analytics for use cases including threat assessment, anomaly resolution and attribution, satellite commissioning, and rendezvous and proximity operations support. For sovereign and defence customers, HEO also offers Tessera, an end-to-end NEI software suite (command and control, analytics, visualisation, cameras and embedded imagery analysts), and its own compact, flight-proven non-Earth imaging camera payloads, Holmes and Adler. HEO has completed over 4,500 non-Earth imaging missions, imaged more than 800 unique space objects, and operates a network of 40+ NEI sensors including 8 NEI cameras it has launched itself. The company works with commercial satellite operators, defence and intelligence agencies, and

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SERVICES

Services

Fleet Management Imaging

Streamline fleet management with persistent, reliable on-demand imaging across your constellation for full operational awareness.

Operational Anomaly Detection

Rapidly detect operational anomalies, identify behavioural changes, and attribute activities to specific space objects using deep archives and real-time tasking.

Post-Launch Satellite Verification

Visually verify satellite deployment post-launch to reduce misidentification risks, confirm orientation, and detect early anomalies.

Satellite Tracking and Characterisation

Track high-interest satellites daily to reveal intent, expose behaviour, and provide a clearer operational picture, identifying and characterising objects in orbit for space domain awareness.

Space Imagery Analyst Support

HEO's Space Imagery Analysts provide support for Tessera deployments, onboarding teams, integrating workflows, and ensuring operational effectiveness.

Product catalogue



HEO ROBOTICS

Adler Mk2 Non-Earth Imaging Camera

HEO's larger-aperture flight-proven non-Earth imaging payload, offering higher resolution for hosted-payload NEI missions.

Resolution (GSD @ 100 km)	22 cm
Volume	580 x 230 mm
Mass	8.5 kg
Max Power	7.0 W

price on request



HEO ROBOTICS

HEO Inspect 3.0

Web app and API gateway to HEO's non-Earth imaging catalogue, letting customers task satellites in real time and retrieve imagery and insights.

Core functions	Explore, Task, Analyse
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Use cases	Threat assessment; anomaly resolution and attribution; satellite commissioning; rendezvous
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Analytical capabilities	Identification & characterisation; attitude estimation & tumble rate; 3D modelling; mensur
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Access	Web application and API
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price on request



HEO ROBOTICS

Holmes Mk2 Non-Earth Imaging Camera

HEO's most compact flight-proven non-Earth imaging payload, designed to operate as a hosted payload with negligible impact on a host satellite's primary mission.

Resolution (GSD @ 100 km)	34 cm
Volume	320 x 140 x 148 mm
Mass	3.8 kg
Max Power	7.0 W

price on request



HEO ROBOTICS

Tessera Non-Earth Imaging Software Suite

Tessera is HEO's end-to-end non-Earth imaging (NEI) software suite, built for sovereign, defence and government customers who need to operate their own NEI capability rather

Components	Tessera C2, Tessera Analytics, Tessera Visualise, NEI Cameras, Space Imagery Analysts
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Value propositions	Scale, Control, Process, Understand
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Target customers	Sovereign, defence and government NEI programs
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price on request

Contact HEO Robotics

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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<https://www.heospace.com/>

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