

NEWSPACE MARKET · COMPANY PROFILE

SPIRAL BLUE

Spiral Blue

Australia · founded 2021 · spiralblue.space

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as of 20 August 2026



Spiral Blue

Spiral Blue Pty Ltd is a Sydney, Australia-based space technology company building LiDAR sensors and onboard AI computing hardware for LEO satellites, with a mission to protect the Earth from space. The company is the first Australian company to develop and operate AI hardware in space, having launched 10 Space Edge Computers (SE-1) aboard SpaceX Transporter rideshare missions starting January 2023, with first operational use in April 2023. In 2025, Spiral Blue pivoted to LiDAR-in-space as its primary focus, targeting ground-truth-grade 3D Earth observation data with 1 metre horizontal accuracy and 10 cm vertical accuracy. They received an AUD \$3 million Australian Government CRC-P grant in September 2025 to advance an AI-enabled LiDAR satellite demonstration from TRL 4 to TRL 7, with stratosphere testing planned for 2026 and orbital demonstration in 2027. Their SAPPHIRE LiDAR system has been exported to UK company Lodestar Space for defence proximity operations applications. The company also runs the YCIS (Your Code In Space) program, enabling developers and researchers worldwide to run custom AI code on their in-orbit SE-1 computers. Key clients include KaleidEO (India), Esper Satellites, and LatConnect 60. Spiral Blue received the APRSAF-29 Space Achievement Award in September 2023.

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SERVICES

Services

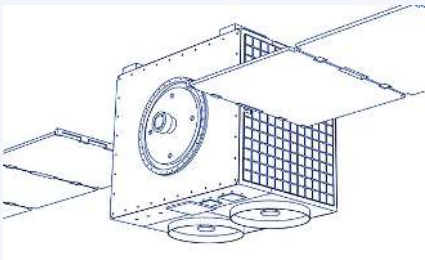
Drone LiDAR Program

Spiral Blue is launching a fixed-wing drone LiDAR program leveraging autonomy and beyond line of sight operations to provide high-quality, affordable LiDAR data.

Geospatial Platform

Spiral Blue offers an end-to-end geospatial platform providing strategy, data acquisition, reports, machine learning analytics, dashboards, and cloud-native data infrastructure.

Product catalogue



SPIRAL BLUE
Sapphire LiDAR

Sapphire is a low size, weight, and power LiDAR instrument designed for rendezvous, proximity operations, and docking (RPOD) in space, intended for fleets of spacecraft involved in

Platform type	Space-as-a-Service / software deployment on in-orbit edge computers
Underlying hardware	SE-1 / SE-2 Space Edge Computers (Spiral Blue fleet)
First notable use	KaleidE0 – first Indian company to demonstrate edge computing in space

price on request



SPIRAL BLUE
SAPPHIRE Space LiDAR

Space-qualified LiDAR sensor for rendezvous, proximity operations and space domain awareness — multi-km range demonstrated at 4.2+ km in ground testing. Exported to Lodestar Space

Technology	FMCW (Frequency-Modulated Continuous Wave) LiDAR
Scanning range	Multi-kilometre (4.2+ km demonstrated on ground, June 2026)
Applications	Rendezvous, proximity operations, space domain awareness, ISR
TEAL-1+ EO horizontal accuracy	1m
TEAL-1+ EO vertical accuracy	10cm
Capability	Foliage-penetrating
Orbital demo target	2027

price on request



SPIRAL BLUE

SE-1 Space Edge Computer

Most powerful commercially available satellite edge computer (outside a space station) — NVIDIA Jetson Xavier NX, reduces raw data downlink by up to 99.7%. 10 units in orbit since

Processing module	NVIDIA Jetson Xavier NX
Orbit	LEO
First operational date	April 2023
Units in orbit	10
Data reduction demonstrated	99.7% (1,004 MB to 3.063 MB)
Processing speed improvement demonstrated	80x over traditional algorithms
Launch vehicle	SpaceX Falcon 9 (Transporter rideshare)

flight proven • TRL 9

price on request

Contact Spiral Blue

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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