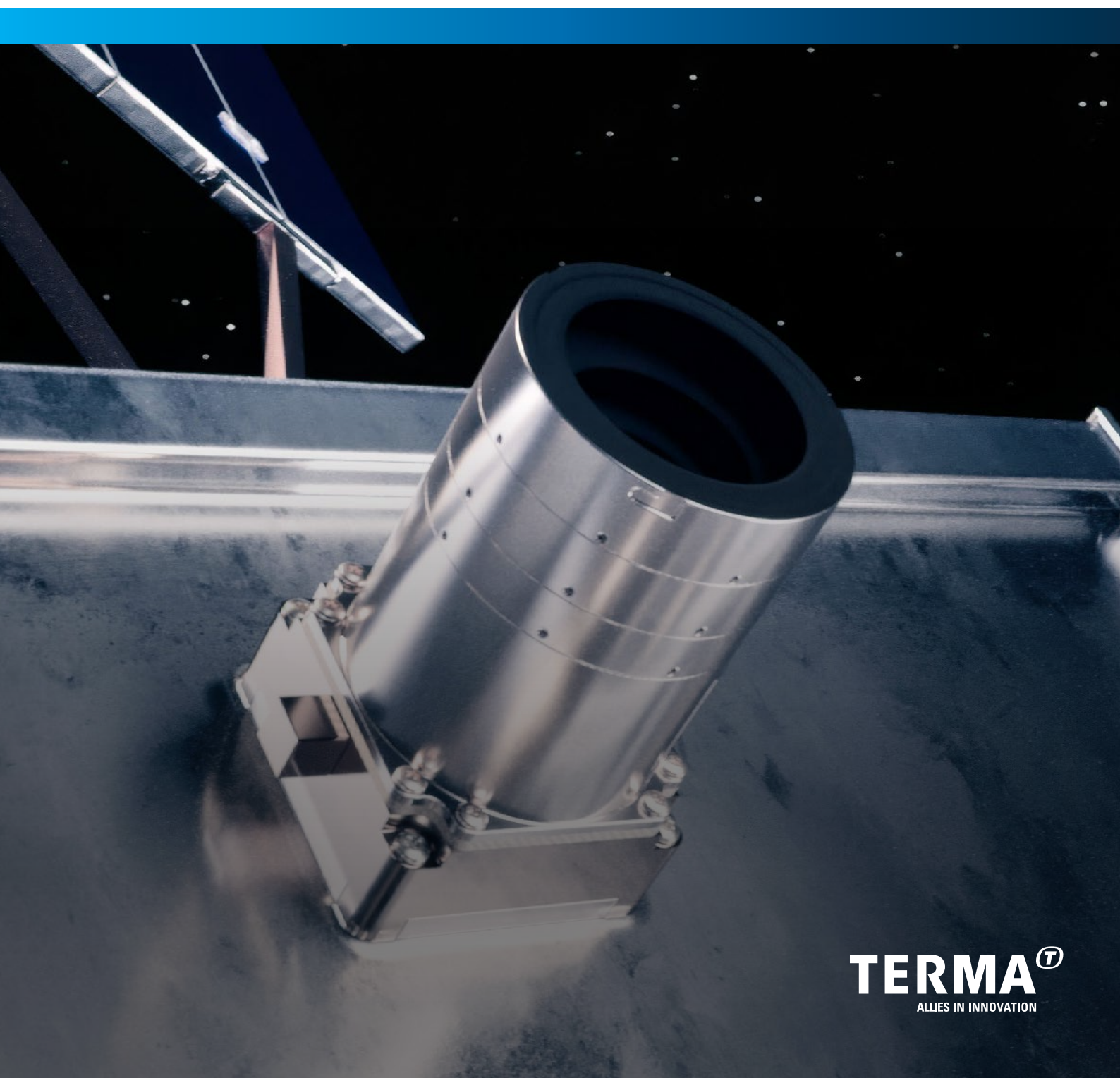




TERMA STAR TRACKERS

PROVEN PERFORMANCE FROM LEO TO DEEP SPACE



TERMA[®]
ALLIES IN INNOVATION

Whether you're running a high-value single satellite or a fast-growing constellation, Terma's T1 and T3 star trackers keep your spacecraft on target by delivering dependable attitude data for every orbit, from launch to decommissioning.

The Terma Star Trackers come out of an extensive heritage of sensor systems and constitute the primary technology for space navigation.

**200+
satellites
supported
with Terma's
Star Trackers**

**9
Technology
Readiness
Level (TRL)**

**25+
years of
experience in
star tracker
technology**

**50+ years of
experience
in space
industry**

**LEO
MEO
GEO
Deep Space**

Mission-Ready. High Accuracy Star Trackers

Precision, Powered by the FaintStar-2 Sensor

Developed with ESA, the FaintStar-2 is a CMOS Active Pixel Sensor with a suite of integrated on-chip functionality. The high sensitivity ensures reliable star detection in challenging conditions, and paves the way for high-performance star trackers with an ultrasmall mechanical footprint.

No Active Cooling Required

Unlike traditional star trackers with power-hungry cooling systems, our innovative design maintains optimal performance across extreme temperatures without active cooling. The radically reduces power consumption and simplifies integration.

Flexible, Cost-Effective Architecture

Integrate our baffle, camera, and software library directly into your existing systems. No separate star tracker computer is needed. The software license covers multiple cameras, reducing costs, and streamlines constellation projects where space and weight are critical.

Exceptional Accuracy

Rad-hard aspherical optics delivers arcsecond performance. This ensures reliable attitude determination in demanding missions.

T1 Star Tracker For High Radiation Mission

A radiation-hardened, high-reliability attitude sensor for demanding GEO and deep space operations.

Modular Design, Maximum Reliability

The Optical Head uses minimal components to reduce failure points. Direct SpaceWire communication enables two configurations:

- Without Electrical Unit: Direct connection to spacecraft computer: lower mass and cost
- With Electrical Unit: Simplified integration: less development work

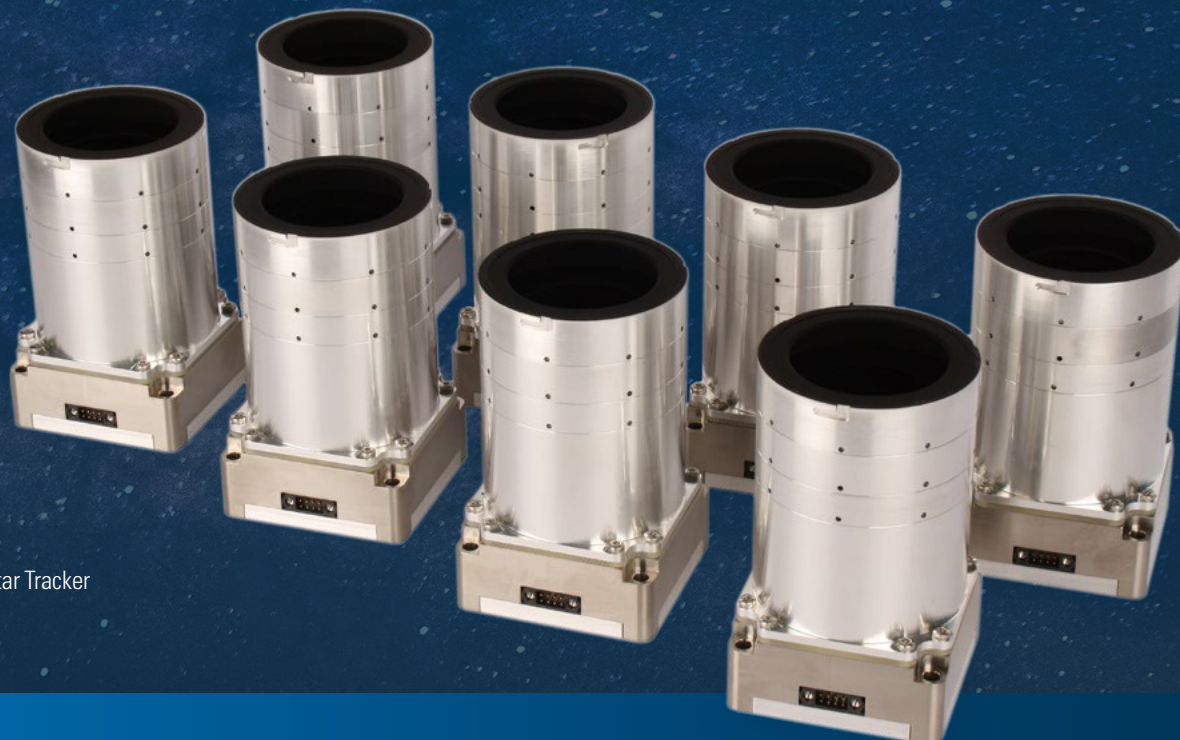
Both options deliver full performance with autonomous, high-accuracy attitude determination.

Whether your mission faces high radiation exposure, extended lifetime requirements, or tight integration constraints, T1 provides trusted accuracy and resilience that ensures confident performance where it matters most.



T1 Star Tracker

- Designed for high-radiation environments using Class 1/2 components, **qualified for up to 15 years in GEO**
- Delivers miniaturized, high-performance capability
- Provides autonomous, high-accuracy attitude determination



T3 Star Tracker

T3 Star Tracker For LEO Missions

High-end attitude accuracy in a compact, integrated unit designed for LEO missions with 5+ years lifetime.

Small on Power, Big on Performance

Based on the proven T1 design, T3 combines arcsecond precision with a smaller optical system and lightweight built-in processing unit, delivering Terma's reliability in a low mass, low volume, low cost package.

Whether you're scaling constellations, pushing performance in agile platforms, or building first-time missions, T3 gives you confidence of proven reliability without compromise.

- Ideal for small, power- and volume-constrained platforms
- Designed for the fast-paced development of New Space with the assured reliability of heritage space systems
- Trusted for performance under real orbital sensors

Optical Stimulation For T1 and T3

Dynamic or Static Optical Ground Support Equipment designed for streamlined star tracker testing.

Compact and Versatile

- Highly compact design for both open- and closed-loop tests
- User-friendly operation with quick installation
- Adapts to any baffle configuration

In-House Manufacturing and Test Excellence

At Terma, we design, manufacture, and test advanced space technology. We work with 50 years of spaceflight heritage and ongoing collaboration with leading universities and research institutions.

From design to delivery, quality and performance built into every step.

25 Years of Star Tracker Excellence

Terma's star tracker legacy began with the HE-5AS – a system that set the standard for reliability in space. Our trackers are already deployed on high-profile missions including ESA's CryoSat-2, which continues delivering critical data on Earth's ice sheets and sea levels today. Building on this foundation, T1 and T3 Star Trackers were developed in close partnership with ESA, and combines proven technology with next-generation performance and reliability.

Engineering Excellence, Mission Partnership

Behind every Terma Star Tracker is a team of passionate engineers who not only design and build advanced space technology but also actively contribute to the wider engineering and space community.

We work closely with our customers throughout every mission and ensure each solution delivers the precision and reliability you need. This hands-on partnership, combined with the confidence of working with Denmark's leading aerospace and defense company, has made Terma a trusted name in space industry.

If you have any questions, please contact our team,
terma.space@terma.com



Operating in the aerospace, defense, and security sector, Terma supports customers and partners all over the world. Our dedicated and talented global workforce develops and manufactures mission-critical products and solutions that meet rigorous customer requirements.

At Terma, we believe in the premise that creating customer value is not just about strong engineering and manufacturing skills. It is also about being able to apply these skills in the context of our customers' specific needs. Only through close collaboration and dialog can we deliver a level of partnership and integration unmatched in the industry.

Our business activities, products, and systems include: command and control systems; radar systems; self-protection systems for ships and aircraft; space technology; and advanced aerostructures for the aircraft industry.

Terma has decades of hands-on know-how in supporting and maintaining mission-critical systems in some of the world's most hostile areas. Terma Support & Services offers through-life support of all our products to maximize operational availability, enhance platform lifetime, and ensure the best possible cost of ownership.

Headquartered in Aarhus, Denmark, Terma has subsidiaries and operations across Europe, in the Middle East, in Asia Pacific as well as a wholly-owned U.S. subsidiary, Terma Inc., with offices in Washington D.C., Georgia, and Texas.