NEWSPACE MARKET

NEWSPACE MARKET · SECTOR CATALOGUE

Star Trackers

Every unit we list in this sector — specifications, manufacturers and where to ask for a quote. Compiled from the live NewSpace Market catalogue.

67	28	16	31
PRODUCTS	MANUFACTURERS	COUNTRIES	WITH DATASHEETS

newspacemarket.com/catalogues/star-trackers/

as of 2 September 2026

ABOUT THIS CATALOGUE

What is inside

This catalogue lists **67 star trackers products** offered by **28 manufacturers** across **16 countries**. Of those, 31 carry a manufacturer datasheet and 4 publish a price; the rest are quoted on request — normal in this market, where configuration drives cost.

Entries are grouped alphabetically by manufacturer. Every product links back to its page on newspacemarket.com, where you will find the full specification, the datasheet and a quote form that reaches the manufacturer directly.

Compiled 2 September 2026 from the live catalogue. Specifications are as published by the manufacturers; we normalise units but do not re-measure. Where a figure looked implausible it was left out rather than guessed.

Manufacturers by country

United States 4 · Germany 3 · Italy 3 · France 2 · Canada 2 · Denmark 2 · China 2 · Sweden 1 · Belgium 1 · South Africa 1 · Russia 1 · Turkey 1 · India 1 · South Korea 1 · Spain 1 · Taiwan 1

OVERVIEW

All products at a glance

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
A-STR Autonomous Star Tracker	Leonardo SpA (Space Division)	Italy	Detector: MPP CCD (radiation-hardened)	on request
AA-STR Autonomous Star Tracker	Leonardo SpA (Space Division)	Italy	Detector: HAS APS (CMOS Active Pixel Sensor)	on request
ADCS + Star Tracker	Tensor Tech	Taiwan	—	on request
ARGO 1.0 Star Tracker	Hipparcos S.r.l.	Italy	Interface: RS422, SpaceWire, CANBus (redundant)	on request
ARGO-2 High Performance Star Tracker System (HSTS-2)	Tsd-space	Italy	Number of cameras: Up to three 4Mpixel resolution cameras	on request
ASTRO 10 Star Tracker	Safran Electronics Defense Space	France	Type: Star tracker	on request
ASTRO APS Autonomous Star Sensor	Jena-Optronik	—	Field of view: 20 deg circular	on request
ASTRO APS3 Autonomous Star Sensor	Jena-Optronik	—	Field of view: 20 deg full-cone (circular)	on request
ASTRO CL Star Tracker	Jena-Optronik	—	Field of view: 25 deg full-cone (circular)	on request
ASTRO XP High Accuracy Star Tracker	Jena-Optronik	—	Architecture: Separate Optical Head (OH) + remote Electronics Unit (EU)	on request
ASTROgyro Integrated Attitude Determination System	Jena-Optronik	—	Configuration: 2x AGS (star sensor) + 1x AGI (Inertial Reference Unit)	on request
AURIGA CP Star Tracker	Sodern	France	Architecture: Optical head; software on satellite OBC	on request
Auriga Star Tracker	Sodern	France	Platform compatibility: Small satellites from 6U and above	on request
Blue Canyon Technologies nano star tracker (NST)	Blue Canyon Technologies	United States	1p8s: 1 string × 8 Li-ion cells in series	on request
Compact Star Tracker	Glavkosmos	Russia	Purpose: Orientation of spacecraft by the star field.	on request
HORUS Star Tracker	Sodern	France	Mass: <1.6 kg	on request
HST-A1 Star Tracker	TY-Space Technology	China	—	on request
HST-A1 Star Tracker	TY-Space Technology	China	Lens dimensions: 140x125x212 mm3	on request
Hydra	Sodern	France	Tracking precision: a few arcseconds	on request
Hydra	Safran Electronics Defense Space	France	Flight-proven since: 2012	on request

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
HYDRA Star Tracker	Sodern	France	Precision xy: 2.8 arcsec	on request
KSST-01 Star Tracker	Kairo Space	South Korea	Measurement: 3-axis attitude quaternion	on request
MAI-SS Space Sextant	Adcole Space (Redwire)	United States	Manufacturer: MAI	€28 434
Micro Star Sensor	Pyxis Space	Germany	Dimensions: <Ø70 mm × 100 mm	€35 000
MicroST	Solar MEMS Technologies	Spain	Type: Star tracker for microsatellites	on request
Multi-Head Star Sensor	Pyxis Space	Germany	Pointing accuracy: <0.05° on all axes	€30 000
n-ART ST 1U Star Tracker	Gumush	Turkey	Mass: 0.1 kg	on request
n-ART ST 2U Star Tracker	Gumush	Turkey	Mass: 0.2 kg	on request
n-ART ST 3U Star Tracker	Gumush	Turkey	Mass: 0.3 kg	on request
Nano Star Sensor	Pyxis Space	Germany	Dimensions: 36 × 36 × 46 mm³	€10 000
Nano Star Tracker (NST)	Blue Canyon Technologies	United States	Environmental qualification: Beyond GEVS level environments	on request
Nano Star Trackers	Blue Canyon Technologies	United States	Standard nst - mass: .35 kg	on request
Nano Star Trackers (NST)	Blue Canyon Technologies	United States	Standard nst - mass: 0.35 kg	on request
nanoST	Solar MEMS Technologies	Spain	Interface: Digital (RS422 / TTL)	on request
NOVA and SUPERNOVA Star Trackers	Gimbal Space	United States	Configurations: Low-cost and high-accuracy options	on request
NST-3 Nano Star Tracker	TY-Space Technology	China	Mass: <165 g	on request
NST10-G1 Star Tracker	TY-Space Technology	China	Dimensions: Sensor+Baffle 56×47×86(mm³)	on request
NST20-G2 Star Tracker	TY-Space Technology	China	Dimensions: Sensor+Baffle 90×100×268 (mm³)	on request
NST20-G3 Star Tracker	TY-Space Technology	China	Dimensions: Sensor+Baffle 90×100×268 (mm³)	on request
NST4S-A2 Star Tracker	TY-Space Technology	China	Dimensions: Sensor+Baffle 57×57×182 (mm³)	on request
NST5S-A1 Star Tracker	TY-Space Technology	China	Dimensions: Sensor+Baffle 57×57×168 (mm³)	on request
PST3S-H4 Star Tracker	TY-Space Technology	China	Dimensions (Sensor+Baffle): 33x33x98 mm3	on request
PST3S-H5 Star Tracker	TY-Space Technology	China	Dimensions (Sensor+Baffle): 35.5x35.5x134 mm3	on request
PST3S-K4 Star Tracker	TY-Space Technology	China	Dimensions (Sensor+Baffle): Baffle Folded: 40×40×34.6 (mm³)	on request

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
PST4S-H1 Star Tracker	TY-Space Technology	China	Dimensions (Sensor+Baffle): 57x57x141 mm3	on request
Redwire SpectraTRAC Star Tracker	Redwire Corporation	United States	Accuracy (cross-axis / boresight): <6 arcsec / 27 arcsec	on request
Sagitta Star Tracker	arcsec	Belgium	Cross-boresight accuracy: 2" (1σ)	on request
SASC Sub-Arcsecond Star Camera	StarSpec Technologies	Canada	Full-lost accuracy: < 1 arcsec @ 10 Hz	on request
Scorpio Star Tracker	arcsec	Belgium	Cross-boresight accuracy: 2" (1σ)	on request
Sinclair Star Tracker (ST-16RT2)	Sinclair Interplanetary (Rocket Lab)	Canada	On-orbit heritage: 78+ units across SkySat, BRITE, GHGSat, Landmapper-BC, M…	on request
Sodern Auriga CP	Sodern	France	Operating temperature range: -20/+40 °C	on request
Sodern Auriga SA	Sodern	France	Operating temperature range: -20/+40 °C	on request
SpectraTRAC Star Tracker	Adcole Space (Redwire)	United States	Attitude accuracy: 10 arcsec (quaternion)	on request
ST200	Berlin Space Technologies	Germany	Accuracy: 10 arcsec	on request
ST200	AAC Clyde Space	Sweden	Attitude accuracy (cross-boresight): <10 arcsec (1σ)	on request
ST400	Berlin Space Technologies	Germany	Accuracy: 5 arcsec	on request
ST400	AAC Clyde Space	Sweden	Attitude accuracy (cross-boresight): <3 arcsec (1σ)	on request
Star Sensor	Xi'an Institute of Optics and Precision Mechanics (XIOPM)	China	Type: Star tracker / star sensor for attitude determination	on request
Star Tracker	HEX20	India	Field of view: 10°x10°	on request
Star Tracker – CubeStar	CubeSpace ADCS	South Africa	Manufacturer: CubeSpace	on request
Star Tracker GEO	Glavkosmos	Russia	Purpose: Star based satellite attitude determination.	on request
Star Tracker LEO	Glavkosmos	Russia	Purpose: Star based satellite attitude determination	on request
STR-P3	Space Inventor ApS	Denmark	Msrp: €85.000	on request
T1 Star Tracker	Terma	Denmark	Total system mass: 1.53 kg (with electronic unit)	on request
T3 Star Tracker	Terma	Denmark	Mass: 350 g (complete integrated unit)	on request
Twinkle Star Tracker	arcsec	Belgium	Cross-boresight accuracy: 3" (1σ)	on request
VST-68M, VST-41M Star Trackers	VECTRONIC Aerospace GmbH	Germany	Dimensions (with baffle) vst-68m: 60 mm x 60 mm x 138 mm	on request

Products by manufacturer

AAC Clyde Space

SWEDEN · 1999 · 2 PRODUCTS

AAC Clyde Space provides small satellite technologies and space-based data services, offering end-to-end solutions from satellite components to data analytics for various applications.

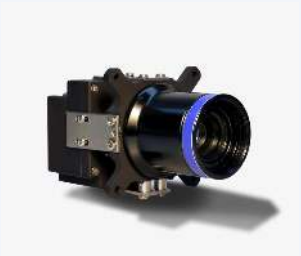
AAC CLYDE SPACE

ST200

The ST200 is a star tracker designed for small satellites, providing attitude determination capabilities.

Attitude accuracy (cross-boresight)	<10 arcsec (1σ)
Attitude accuracy (roll)	<30 arcsec (1σ)
Update rate	Up to 5 Hz
Acquisition time	<5 s (initial), <1 s (tracking)
Field of view	15° x 15°

price on request · datasheet



AAC CLYDE SPACE

ST400

The ST400 is a high-performance star tracker designed for small satellite missions, offering precise attitude determination.

Attitude accuracy (cross-boresight)	<3 arcsec (1σ)
Attitude accuracy (roll)	<10 arcsec (1σ)
Update rate	Up to 10 Hz
Acquisition time	<2 s (initial), <0.2 s (tracking)
Field of view	10° x 10°

price on request · datasheet

Adcole Space (Redwire)

UNITED STATES · 1957 · 2 PRODUCTS

Redwire is an integrated aerospace and defense company providing advanced technologies for space infrastructure, autonomous systems, and multi-domain operations to government agencies and defense cont

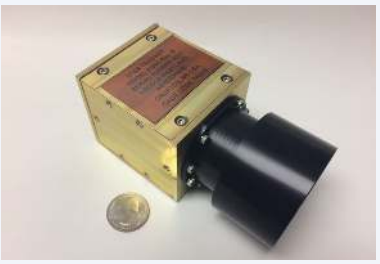
ADCOLE SPACE (REDWIRE)

MAI-SS Space Sextant

The MAI-SS Star Tracker is low in cost and intended for CubeSat and NanoSat missions. The unit is completely self-contained and features lost in space star identification. Just…

Manufacturer	MAI

€28 434



ADCOLE SPACE (REDWIRE)

SpectraTRAC Star Tracker

A miniature autonomous star tracker for CubeSat and NanoSat missions delivering 10 arcsecond quaternion accuracy at 4 Hz update rate, weighing only 475 grams with Lost-in-Space sta

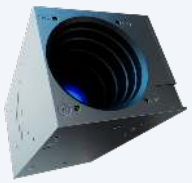
Attitude accuracy	10 arcsec (quaternion)
Output rate	4 Hz
Maximum tracking rate	>2°/sec
Solution availability	96.4%
Mass (with baffle)	475 g

price on request · datasheet

arcsec

BELGIUM · 3 PRODUCTS

Arcsec designs and manufactures star trackers and reaction wheels, with over 100 systems sold and 5 years of flight heritage.



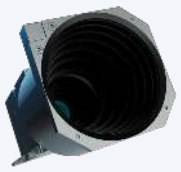
ARCSEC

Sagitta Star Tracker

The Sagitta star tracker is arcsec's standard, fully autonomous star tracker designed to fit in a CubeSat. It features an integrated baffle to reduce stray light effects and

Cross-boresight accuracy	2" (1σ)
Along-boresight accuracy	10" (1σ)
Dimensions	44 x 50 x 95 mm
Power	1500 mW
Supply voltage	5 V

price on request



ARCSEC

Scorpio Star Tracker

The Scorpio star tracker provides arc second range pointing accuracy for SmallSats and larger satellites, featuring custom algorithms for accuracy, robustness, and low computationa

Cross-boresight accuracy	2" (1σ)
Around-boresight accuracy	10" (1σ)
Dimensions	72 x 72 x 162 mm
Power	2000 mW
Supply voltage	5 V

price on request datasheet

ARCSEC

Twinkle Star Tracker

The Twinkle Star Tracker provides arc second range pointing accuracy for CubeSats and large satellites, featuring custom algorithms optimized for accuracy, robustness, and low comp

Cross-boresight accuracy	3" (1σ)
Around-boresight accuracy	30" (1σ)
Dimensions	20 x 20 x 40 mm
Power	1000 mW
Supply voltage	5 V

price on request datasheet

Berlin Space Technologies

GERMANY · 2010 · 2 PRODUCTS

Berlin Space Technologies (BST) designs and mass manufactures small satellite systems and technologies, providing end-to-end solutions for space missions.

BERLIN SPACE TECHNOLOGIES

ST200

The ST200 is a miniaturized, autonomous star tracker designed for CubeSats and nano-satellites, providing a full attitude solution.

Accuracy	10 arcsec
Update rate	5 Hz
Limiting magnitude	6.0
Sun exclusion angle	40°
Data interface	UART (TTL), RS422 (optional)

price on request · datasheet

BERLIN SPACE TECHNOLOGIES

ST400

The ST400 is a high-precision star tracker developed in collaboration with AAC Hyperion, providing a full and autonomous attitude solution for demanding small satellite missions.

Accuracy	5 arcsec
Update rate	5 Hz
Limiting magnitude	6.0
Sun exclusion angle	40°
Data interface	UART (TTL), RS422 (optional)

price on request · datasheet

Blue Canyon Technologies

UNITED STATES · 2008 · 4 PRODUCTS

Leading provider of small satellite buses, systems, and components for commercial, civil, and government space missions, a Raytheon (RTX) business.

BLUE CANYON TECHNOLOGIES

Blue Canyon Technologies nano star tracker (NST)

The Blue Canyon Technologies nano star tracker (NST) is a flight-proven, high-performing, and reliable star tracker designed for spacecraft platforms, offering a low SWaP-C solutio

1p8s	1 string × 8 Li-ion cells in series
2p8s	2 strings × 8 Li-ion cells; ~2× energy of 1P8S
Ip8s	Integrated pack variant
Chemistry	Li-ion
Compatible buses	BCT XB3, XB6, XB12, XB16 (XB1 avionics stack)

price on request

BLUE CANYON TECHNOLOGIES

Nano Star Tracker (NST)

Blue Canyon Technologies' flight-proven nano star tracker is a low SWaP-C, turnkey starlight-in/quaternion-out attitude sensor for standalone missions and constellations.

Environmental qualification	Beyond GEVS level environments
Interface	Starlight-in, quaternion-out (turnkey)
Tracking sensitivity	Down to 7.5 magnitude
On-board star catalog	More than 20,000 stars

price on request

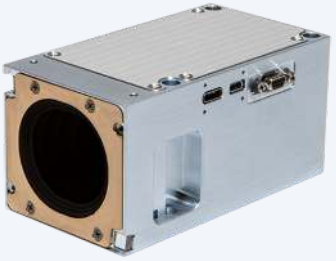
BLUE CANYON TECHNOLOGIES

Nano Star Trackers

A family of low SWaP-C nano star trackers from Blue Canyon Technologies offering lost-in-space star identification across three form factors with proven flight heritage.

Standard nst - mass	.35 kg
Standard nst - dimensions	10 x 5 x 5.5 cm
Standard nst - accuracy cross-boresight	6 arcsec
Standard nst - accuracy about-boresight	40 arcsec
Mid-extension nst - mass	.45 kg

price on request



BLUE CANYON TECHNOLOGIES

Nano Star Trackers (NST)

Blue Canyon Technologies' Nano Star Trackers (NST) are low SWaP-C attitude sensors offering lost-in-space star identification with flight-proven heritage.

Standard nst - mass	0.35 kg
Standard nst - dimensions	10 x 5 x 5.5 cm
Standard nst - accuracy cross-boresight	6 arcsec
Standard nst - accuracy about-boresight	40 arcsec
Mid-extension nst - mass	0.45 kg

price on request

CubeSpace ADCS

SOUTH AFRICA · 1 PRODUCT

South African manufacturer of space-proven, plug-and-play Attitude Determination and Control Systems (ADCS) for small satellites, with over a decade of flight heritage.

CUBESPACE ADCS

Star Tracker – CubeStar

CubeStar is a medium-to-high accuracy miniature star tracker equipped with an external thread for the easy integration of a mission-specific baffle, allowing you to customize the…

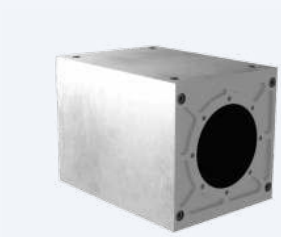
Manufacturer	CubeSpace
Lead time	16 weeks

price on request

Gimbal Space

UNITED STATES · 1 PRODUCT

Gimbal Space designs and manufactures custom attitude determination and control systems (ADCS), including integrated systems, for customers with GNC teams.



GIMBAL SPACE

NOVA and SUPERNOVA Star Trackers

Low-cost, high-accuracy star trackers with optional baffle for stray-light rejection — NOVA and SUPERNOVA configurations for smallsat attitude determination.

Configurations	Low-cost and high-accuracy options
Accessories	Baffle available (stray-light rejection)

price on request

Glavkosmos

RUSSIA · 1985 · 3 PRODUCTS

Glavkosmos coordinates international human spaceflight projects, facilitates satellite launches, develops and supplies rocket components, and provides equipment for space crews.

GLAVKOSMOS

Compact Star Tracker

A compact star tracker designed for small spacecraft (nano- and micro-satellites) to determine their orientation by the star field.

Purpose	Orientation of spacecraft by the star field.
Year of release	2017
Design life	3 years in LEO (300-800 km)
Lead time	6 months
Flight qualification of the product	No

price on request

GLAVKOSMOS

Star Tracker GEO

The Star Tracker GEO is an autonomous star tracker designed for star-based satellite attitude determination, specifically for geostationary Earth orbit (GEO) applications.

Purpose	Star based satellite attitude determination.
Year of release	2019
Design life	5 years
Lead time	6 months
Flight qualification of the product	No

price on request

GLAVKOSMOS

Star Tracker LEO

The Star Tracker LEO is an autonomous star tracker designed for satellite attitude determination in Low Earth Orbit (LEO) up to 1200 km, offering a guaranteed service life of 5 yea

Purpose	Star based satellite attitude determination
Year of release	2019
Design life	5 years
Lead time	6 months
Flight qualification of the product	No

price on request

Gumush

TURKEY · 3 PRODUCTS

Turkish space and aerospace technology company; satellite engineering services, space system components, and technical expertise for Turkey's growing commercial space sector.

GUMUSH

n-ART ST 1U Star Tracker

Gumush's n-ART ST 1U is a compact 0.1 kg star tracker for CubeSat and small satellite attitude determination, part of the n-ART family scaling from 1U to 3U form factors.

Mass	0.1 kg
Form factor	1U
Function	Autonomous star-field attitude determination
Product family	n-ART ST (1U, 2U, 3U variants)

price on request

GUMUSH

n-ART ST 2U Star Tracker

Gumush's n-ART ST 2U is a 0.2 kg star tracker for small satellite attitude determination, the mid-size member of the n-ART family covering 1U to 3U configurations.

Mass	0.2 kg
Form factor	2U
Function	Autonomous star-field attitude determination
Product family	n-ART ST (1U, 2U, 3U variants)

price on request

GUMUSH

n-ART ST 3U Star Tracker

Gumush's n-ART ST 3U is the largest star tracker in the n-ART family at 0.3 kg, offering the highest pointing accuracy for small satellite missions requiring precision attitude det

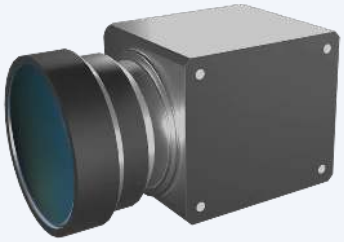
Mass	0.3 kg
Form factor	3U
Function	Autonomous star-field attitude determination
Product family	n-ART ST (1U, 2U, 3U variants)

price on request

HEX20

INDIA · 1 PRODUCT

Indian small satellite manufacturer offering flight-proven platforms, subsystems, and mission-as-a-service solutions.



HEX20

Star Tracker

Compact radiation-tolerant star tracker for micro/small satellites — ~16 arcsecond pointing accuracy, star detection to magnitude 6, 325g mass, compatible with any third-party ADCS

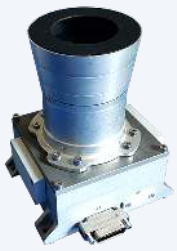
Field of view	10°x10°
Update rate	5 Hz
Dimensions	95x85x85 mm
Star detection	Up to magnitude 6.0
Pointing accuracy	~16 arcseconds

price on request

Hipparcos S.r.l.

ITALY · 2022 · 1 PRODUCT

Italian developer of autonomous attitude determination systems (star trackers) for small satellites.



HIPPARCOS S.R.L.

ARGO 1.0 Star Tracker

Flight-proven multicamera autonomous attitude determination system (star tracker) for small satellites.

Interface	RS422, SpaceWire, CANBus (redundant)
Flight heritage	In-orbit demonstration on D-Orbit ION SCV2, launched Jan 2021, validated through Jul 2022
TRL	8 (flight-demonstrated)
Validated functions	Pattern recognition, tracking-mode accuracy, straylight robustness, Moon/Earth-in-FOV hand
Field of view	± 11,2°

price on request datasheet

Jena-Optronik

1991 · 5 PRODUCTS

Jena-Optronik designs and manufactures sensors, space optics, and electronics for satellites and spacecraft, supporting communication, navigation, and Earth observation.

JENA-OPTRONIK

ASTRO APS Autonomous Star Sensor

Heritage autonomous star sensor for LEO-GEO-deep space: <1/18yr lifetime, >470 units contracted including NASA Orion/Artemis.

Field of view	20 deg circular
Optics	Refractive, 43 mm focal length, f/1.2, rad-hard glass
Detector	1024x1024 px; HAS2 or STAR1000 APS CMOS
Attitude random error xy (1-sigma)	<1 arcsec
Attitude random error z (1-sigma)	<8 arcsec

price on request

JENA-OPTRONIK

ASTRO APS3 Autonomous Star Sensor

Next-gen Jena-Optronik star tracker: 1.8kg, <6W, 20deg FOV, <0.8/<7 arcsec XY/Z accuracy, <1s lost-in-space acquisition, 7.0 mi sensitivity, 8-16 Hz, SpaceWire/1553/RS4

Field of view	20 deg full-cone (circular)
Optics	Refractive, 29 mm focal length, f/1.0
Image sensor	FaintStar2 SoC, 1024x1024 px
Update rate	8, 10, or 16 Hz
Accuracy (XY/Z, 1-sigma total)	<=0.8 / 7.0 arcsec (at <0.1 deg/s)

price on request

JENA-OPTRONIK

ASTRO CL Star Tracker

Ultra-compact SoC-based star tracker for small satellites and constellations: 320g, 1.2W, 25deg FOV, 2/12 arcsec XY/Z accuracy, 5/8 Hz update rate, SpaceWire interface, >1000 un

Field of view	25 deg full-cone (circular)
Optics	23 mm focal length, f/1.4
Image sensor	FaintStar2 SoC, 1024x1024 px
Update rate	5 or 8 Hz
Accuracy (XY/Z, 1-sigma)	<=2.0 / 12 arcsec BOL; <=2.2 / 16 arcsec EOL (7yr LEO)

price on request

JENA-OPTRONIK

ASTRO XP High Accuracy Star Tracker

Ultra-high precision star tracker for science and EO missions: <0.1/<3.5 arcsec XY/Z accuracy, catoptric all-mirror optics, 3.3deg FOV, 10.2 mi sensitivity, separate OH+EU ar

Architecture	Separate Optical Head (OH) + remote Electronics Unit (EU)
Field of view	3.3 deg circular
Optics	Catoptric (all-mirror), 175 mm focal length, f/2.0, low-CTE material
Image sensor	FaintStar2 SoC, 1024x1024 px
Update rate	2, 4, or 8 Hz

price on request

JENA-OPTRONIK

ASTROgyro Integrated Attitude Determination System

Integrated star tracker + gyro AOCS unit: 2x ASTRO APS star sensors + Coriolis Vibratory Gyroscopes IRU, 30 Hz output, <1/<8 arcsec star tracker accuracy, <0.005 deg/sqrt(

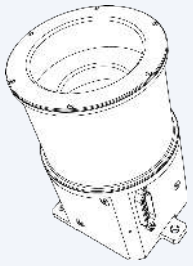
Configuration	2x AGS (star sensor) + 1x AGI (Inertial Reference Unit)
System update rate	30 Hz
Ags bias error	<5 arcsec (full temp range)
Ags noise equivalent angle xy (1-sigma)	<1 arcsec
Ags noise equivalent angle z (1-sigma)	<8 arcsec

price on request

Kairo Space

SOUTH KOREA · 1 PRODUCT

South Korean nanosatellite manufacturer offering CubeSat platforms, optical imagers, star trackers, solar panels, EPS, structures, and deployers for the commercial small satellite market.



KAIRO SPACE

KSST-01 Star Tracker

Miniaturized star tracker for precise 3-axis attitude determination on CubeSat and small satellite platforms.

Measurement	3-axis attitude quaternion
Method	Star pattern matching with on-board catalog
Platform	3U CubeSat and larger
Output	Quaternion attitude solution

price on request

Leonardo SpA (Space Division)

ITALY · 1948 · 2 PRODUCTS

Leonardo SpA (Space Division) designs, develops, and produces space launchers, propulsion systems, satellites, and provides space system services including launch management and satellite control.

LEONARDO SPA (SPACE DIVISION)

A-STR Autonomous Star Tracker

The Leonardo A-STR (Autonomous Star Tracker) is a medium-FOV star tracker in a single assembly housing a radiation-hardened MPP CCD detector. Provides autonomous attitude acquisiti

Detector	MPP CCD (radiation-hardened)
FOV	16.4 x 16.4 deg
Dynamic range	1.5-5.5 Mi
Max stars tracked	10
Tracking rate	Up to 2 deg/s

price on request

LEONARDO SPA (SPACE DIVISION)

AA-STR Autonomous Star Tracker

The Leonardo AA-STR (Autonomous Star Tracker Advanced) is a next-generation star tracker using an HAS APS (CMOS Active Pixel Sensor) detector — the first star tracker with CMOS tec

Detector	HAS APS (CMOS Active Pixel Sensor)
FOV	20 x 20 deg
Dynamic range	1.5-5.5 Mi
Max stars tracked	15
Tracking rate	Up to 2 deg/s

price on request

Pyxis Space

GERMANY · 3 PRODUCTS

German manufacturer of miniature optoelectronic ADCS components for small satellites and CubeSats.

PYXIS SPACE

Micro Star Sensor

The Pyxis Space Micro Star Sensor is a high-accuracy, compact star tracker designed for demanding nanosatellite and microsatellite missions requiring superior pointing precision. W

Dimensions	<Ø70 mm × 100 mm
Pointing accuracy	<0.02° on all axes
Data rate	Up to 4 Hz
Stray light protection	Enhanced
Price	€35,000

€35 000

PYXIS SPACE

Multi-Head Star Sensor

The Pyxis Space Multi-Head Star Sensor provides enhanced attitude determination performance through the use of multiple optical sensor heads operating simultaneously. Supporting up

Pointing accuracy	<0.05° on all axes
Max sensor heads	Up to 6
Base configuration	4 sensor heads
Redundancy	Automatic - excludes blinded sensors
Price	€30,000 (base, 4 heads)

€30 000

PYXIS SPACE

Nano Star Sensor

The Pyxis Space Nano Star Sensor is a miniaturized attitude determination sensor designed specifically for CubeSat platforms. Achieving sub-0.05° accuracy on all axes, it delivers

Dimensions	36 × 36 × 46 mm³
Pointing accuracy	<0.05° on all axes
Target platform	CubeSat (1U–12U)
Price	€10,000
Measurement type	Star pattern recognition, absolute attitude determination

€10 000

Redwire Corporation

UNITED STATES · 2020 · 1 PRODUCT

Redwire is an integrated aerospace and defense company that designs and manufactures advanced technologies for space and defense, including optical imaging, sun sensors, solar arrays, and spacecraft p

REDWIRE CORPORATION

Redwire SpectraTRAC Star Tracker

Compact, autonomous Lost-in-Space star tracker for CubeSat, NanoSat, and Spaceflight missions.

Accuracy (cross-axis / boresight)	<6 arcsec / 27 arcsec
Update rate	4 Hz
Max tracking rate	>2.0 deg/sec
Time to solution	230 ms LIS, 170 ms track (typical)
Star catalog	1889 stars (6th visual magnitude)

price on request datasheet

Safran Electronics Defense Space

FRANCE · 2 PRODUCTS

Safran Electronics & Defense designs and produces high-tech equipment and services for civil and military aerospace, defense, and space applications, including solutions for sovereign space control.

SAFRAN ELECTRONICS DEFENSE SPACE

ASTRO 10 Star Tracker

Compact, high-accuracy star tracker for satellite attitude determination, flight-proven on over 50 missions worldwide.

Type	Star tracker
Accuracy	<1 arcsecond (2-sigma)
Flight heritage	50+ missions
Orbits	LEO, MEO, GEO, interplanetary

price on request

SAFRAN ELECTRONICS DEFENSE SPACE

Hydra

Hydra is a high-performance, modular star tracker system available in various configurations to match different mission profiles and architectures, offering autonomous operation an

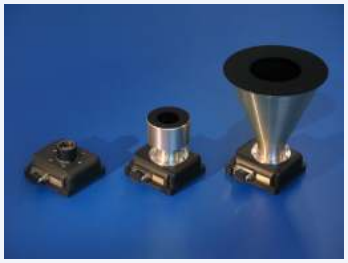
Flight-proven since	2012
Units launched	More than 245
Hours in operation	Over ten million
Sun exclusion angle	26°
Hydra - access delivery time	8-week

price on request datasheet

Sinclair Interplanetary (Rocket Lab)

CANADA · 2001 · 1 PRODUCT

Canadian manufacturer of reaction wheels and star trackers for small satellites; 200+ wheels and 78+ star trackers in orbit; part of Rocket Lab since April 2020; founded 2001.



SINCLAIR INTERPLANETARY (ROCKET LAB)

Sinclair Star Tracker (ST-16RT2)

High-performance star tracker and baffle for small spacecraft, with 78+ units flown on more than a dozen missions.

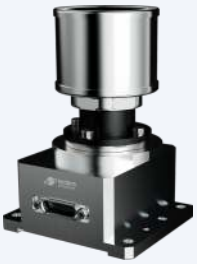
On-orbit heritage	78+ units across SkySat, BRITE, GHGSat, Landmapper-BC, MKA-N, BlackSky Global, ALE, Moment
Product type	Star tracker with integrated sun-baffle
Interface	Serial digital interface, quaternion attitude output plus telemetry
Absolute Accuracy	5 arcsecond cross-boresight (RMS)
Absolute Accuracy (2)	55 arcsecond around boresight (RMS)

price on request datasheet

Sodern

FRANCE · 1961 · 7 PRODUCTS

French world leader in star trackers (Hydra, Auriga, Horus), space cameras, and neutron technology, an ArianeGroup subsidiary delivering attitude sensors to hundreds of satellites worldwide.



SODERN

AURIGA CP Star Tracker

Affordable smallsat star tracker: software on OBC, SpaceWire interface, 11 arcsec XY precision, up to 10 Hz update rate, LEO-GEO-MEO, 200-unit permanent stock for <2-week delive

Architecture	Optical head; software on satellite OBC
Precision xy	11 arcsec
Temporal noise (XY/Z)	11 / 70 arcsec
Update rate	Up to 10 Hz
Acquisition robustness	<=1 deg/s

price on request datasheet

SODERN

Auriga Star Tracker

Compact off-the-shelf star tracker for small satellites from 6U upward and New Space constellations. Selected for all 1,800+ OneWeb constellation satellites.

Platform compatibility	Small satellites from 6U and above
Availability	Off-the-shelf catalogue product
Flight heritage	OneWeb constellation (1,800+ units), NASA Blue Ghost 1 lunar lander, DLR COMPASSO

price on request

SODERN

HORUS Star Tracker

High-performance single-box star tracker: <1.6kg, 3 arcsec XY precision, CMOS with TEC, LEO-GEO-deep space, qualified 2025, withstands severe mechanical and radiation environmen

Mass	<1.6 kg
Architecture	Single-box (OH + EU integrated)
Precision xy	3 arcsec
Temporal noise (XY/Z)	3 / 22 arcsec
Detector	CMOS with thermoelectric cooler (TEC)

price on request datasheet

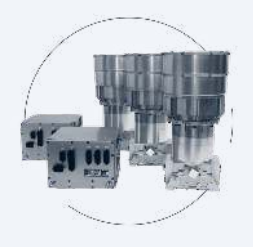
SODERN

Hydra

Hydra is a high-performance, modular multi-head star tracker family from Sodern, flight-proven since 2012, offering configurable optical heads and electronic units for satellite at

Tracking precision	a few arcseconds
Detector type	CMOS
Sun exclusion angle	26°
Thermoelectric cooler	Available with or without
Flight heritage	More than 245 units launched, flight-proven since 2012, over ten million hours in operatio

price on request datasheet



SODERN

HYDRA Star Tracker

Best-in-class modular star tracker for institutional and commercial satellites: 2.8 arcsec XY precision, 245+ units launched, LEO-GEO-deep space, 1-4 optical heads, 18-year GEO lif

Precision xy	2.8 arcsec
Temporal noise (XY/Z)	2.3 / 18 arcsec
Acquisition robustness	<=6 deg/s
Tracking robustness	<=8 deg/s
Detector	CMOS

price on request datasheet

SODERN

Sodern Auriga CP

The Sodern Auriga CP is a compact, radiation-resistant star tracker optimized for small satellite missions and constellations, offering high performance and reliability with a cent

Operating temperature range	-20/+40 °C
Storage temperature	-30/+70 °C
Mechanical environment (in/out of plane)	14/22 gRMS / 2000gSRS @2000 Hz
Oh size (including baffle)	66 x 56 x 94 mm (height)
Eu size	No Electronic Unit, centralized software

price on request datasheet

SODERN

Sodern Auriga SA

The Sodern Auriga SA is a compact, radiation-resistant star tracker optimized for small satellite platforms and CubeSats, offering high performance and reliability for missions up

Operating temperature range	-20/+40 °C
Storage temperature	-30/+70 °C
Mechanical environment (in/out of plane)	14/22 gRMS gRMS / 2000gSRS @2000 Hz
Oh size (mm, including baffle)	66 x 56 x 94 (height)
Eu size	91 x 117 x 25 (height) mm

price on request datasheet

Solar MEMS Technologies

SPAIN · 2009 · 2 PRODUCTS

Solar MEMS Technologies is a Spanish company specializing in MEMS-based sun sensors and star trackers for satellite attitude determination systems.

SOLAR MEMS TECHNOLOGIES

MicroST

High-precision star tracker for microsatellites with <6 arcsec XY accuracy, multi-camera support and LEO/MEO/GEO qualification.

Type	Star tracker for microsatellites
Interface	Digital
Model	EM and FM
Sun exclusion angle	<32°
Supply voltage	5 V, <6 W

price on request datasheet

SOLAR MEMS TECHNOLOGIES

nanoST

Compact plug-and-play star tracker for nanosatellites with <40 arcsec XY accuracy and 15° field of view.

Interface	Digital (RS422 / TTL)
Model	EM and FM
Field of view	15°
Supply voltage	5 V, 1 W consumption
Temperature — qualification	-30°C to +70°C

price on request datasheet

Space Inventor ApS

DENMARK · 2015 · 1 PRODUCT

Space Inventor ApS is a Danish second-generation NewSpace company providing non-ITAR CubeSat, nanosat, and microsat components, platforms, and turnkey satellite missions with full vertical integration, headquartered in Aalborg with offices

SPACE INVENTOR APS

STR-P3

The STR-P3 is a star tracker unit designed for mini- and microsatellites, utilizing advanced star-tracking algorithms and a compact, radiation-hardened camera.

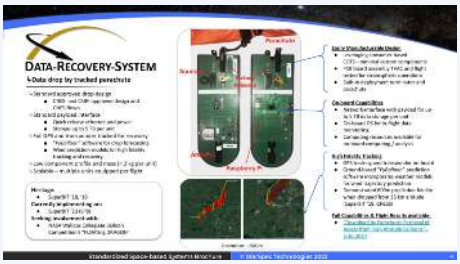
Msrp	€85.000

price on request

StarSpec Technologies

CANADA · 2020 · 1 PRODUCT

Canadian space technology company developing ADCS hardware, satellite platforms, high-altitude balloon systems, and testing services for the small satellite industry.



STARSPEC TECHNOLOGIES

SASC Sub-Arcsecond Star Camera

The SASC is a sub-arcsecond star camera offering high accuracy and precision for attitude determination, designed for plug-and-play integration with full-sky catalog onboard.

Full-lost accuracy	< 1 arcsec @ 10 Hz
Differential precision	0.23 arcsec @ 60 Hz
Max. slew rate	1 dps
Features	Plug-and-play; full-sky catalog onboard
Interface	GigE or RS-232/485 available

price on request datasheet

Tensor Tech

TAIWAN · 2019 · 1 PRODUCT

Taiwanese ADCS company in New Taipei City; CMG control moment gyroscopes, sun sensors, magnetorquers, and integrated nanosatellite attitude control systems; ISO 9001 certified.

TENSOR TECH

ADCS + Star Tracker

Tensor Tech ADCS products support integration with third-party star trackers for enhanced pointing accuracy, fusing data from star trackers with onboard attitude sensors to improve

price on request

Terma

DENMARK · 1949 · 2 PRODUCTS

Terma is a global aerospace, defense, and security company that develops and manufactures radar systems, aircraft self-protection systems, and space components like star trackers for international cus

TERMA

T1 Star Tracker

The Terma T1 star tracker is a high-heritage, radiation-hardened star tracker qualified for the demanding environment of GEO missions including electrical orbit raising through the

Total system mass	1.53 kg (with electronic unit)
Electronic unit dimensions	100 × 100 × 40 mm
Power (average)	3.25 W from 20–36 V supply
Sensor	Faintstar-2 CMOS APS 1024×1024 (ESA-developed)
Field of view	20°

price on request

TERMA

T3 Star Tracker

The Terma T3 is a lightweight, integrated star tracker designed specifically for small satellites and commercial LEO constellation platforms operating with COTS-grade components an

Mass	350 g (complete integrated unit)
Dimensions	100 × 60 × 60 mm
Power	2 W max
Supply voltage	5–12 V
Field of view	20° circular

price on request

Tsd-space

ITALY · 1977 · 1 PRODUCT

Italian space imaging and avionics company in Pozzuoli; cameras, focal plane arrays, image compression, OBCs, C&DH systems, power management, and ground segment equipment.

TSD-SPACE

ARGO-2 High Performance Star Tracker System (HSTS-2)

ARGO2.0 is a compact, scalable multi-camera Star Tracker System designed for small platforms, including CubeSats, offering high accuracy and reliability for attitude determination.

Number of cameras	Up to three 4Mpixel resolution cameras
Dpu dimensions	95 mm x 94 mm x 22 mm
Dpu mass	~250 g
Dpu power consumption	About 3 W @5VDC
Dpu interfaces	RS422 and SpaceWire I/F

price on request

TY-Space Technology

CHINA · 12 PRODUCTS

Chinese manufacturer of high-precision star trackers, sun sensors, star simulators, and attitude control modules for satellites, with over 1,000 units flown on-orbit.

TY-SPACE TECHNOLOGY

HST-A1 Star Tracker

The HST-A1 Star Tracker is a high-performance attitude optical sensor designed for space industry applications, providing precise attitude determination for satellites.

price on request

TY-SPACE TECHNOLOGY

HST-A1 Star Tracker

The HST-A1 is a fully autonomous, high-precision star tracker offering ultra-high pointing accuracy (up to 0.3 arcseconds, 3-sigma) for satellite attitude determination.

Lens dimensions	140x125x212 mm3
Sensor+baffle dimensions	155x155x297 mm3
Mass	4700 g
Optical design	Refractive
Vibration (FM)	sine 13 g, random 12 grms

price on request datasheet

TY-SPACE TECHNOLOGY

NST-3 Nano Star Tracker

The NST-3 is an advanced Nano Star Tracker designed for compact working conditions, featuring a smaller baffle and lower weight compared to its predecessor, the NST-4.

Mass	<165 g

price on request

TY-SPACE TECHNOLOGY

NST10-G1 Star Tracker

The NST10-G1 is a star tracker equipped with a MEMS gyroscope, offering high pointing accuracy and dynamic performance for spacecraft attitude determination.

Dimensions	Sensor+Baffle 56×47×86(mm³)
Mass	Sensor+Baffle 90 g
Optical design	Lens refracitive
Environmental vibration (FM)	sine 13 g, random 12 grms
Vibration (Qualification)	sine 16 g, random 18 grms

price on request datasheet

TY-SPACE TECHNOLOGY

NST20-G2 Star Tracker

The NST20-G2 is a fully autonomous, highly reliable, and precise star tracker designed for attitude determination with high dynamic performance and a secondary baffle for sun exclu

Dimensions	Sensor+Baffle 90×100×268 (mm³)
Mass	Sensor+Baffle 1200 g
Optical design	Lens refracitive
Environmental	Vibration (FM) sine 13 g, random 12 grms
Vibration (Qualification)	sine 16 g, random 18 grms

price on request datasheet

TY-SPACE TECHNOLOGY

NST20-G3 Star Tracker

The NST20-G3 is an upgraded, fully autonomous, high-precision, and high-dynamic attitude star tracker designed for spacecraft navigation.

Dimensions	Sensor+Baffle 90×100×268 (mm³)
Mass	Sensor+Baffle 1200 g
Optical design	Lens refracitive
Environmental vibration (FM)	sine 13 g, random 12 grms
Vibration (Qualification)	sine 16 g, random 18 grms

price on request datasheet

TY-SPACE TECHNOLOGY

NST4S-A2 Star Tracker

The TY-Space NST4S-A2 Star Tracker is an autonomous nano star tracker designed for high-accuracy attitude determination in space applications.

Dimensions	Sensor+Baffle 57×57×182 (mm³)
Mass	Sensor+Baffle 370 g
Optical design	Lens refracitive
Environmental vibration (FM)	sine 13 g, random 12 grms
Vibration (Qualification)	sine 16 g, random 18 grms

price on request datasheet

TY-SPACE TECHNOLOGY

NST5S-A1 Star Tracker

The NST5S-A1 is an autonomous, high-precision, and compact star tracker designed for spacecraft attitude determination, featuring a Sun Exclusive Angle of 35°.

Dimensions	Sensor+Baffle 57×57×168 (mm³)
Mass	Sensor+Baffle 380 g
Optical design	Lens refracitive
Environmental vibration (FM)	sine 13 g, random 12 grms
Vibration (Qualification)	sine 16 g, random 18 grms

price on request datasheet

TY-SPACE TECHNOLOGY

PST3S-H4 Star Tracker

The PST3S-H4 is a compact, low-power refractive-optics star tracker designed for high-pointing-accuracy spacecraft attitude determination, with strong dynamic performance and radia

Dimensions (Sensor+Baffle)	33x33x98 mm3
Mass (Sensor+Baffle)	95 g
Optical design (Lens)	Refractive
Vibration (FM)	sine 13 g, random 12 grms
Vibration (Qualification)	sine 16 g, random 18 grms

price on request datasheet

TY-SPACE TECHNOLOGY

PST3S-H5 Star Tracker

The PST3S-H5 is a compact, lightweight star tracker that operates normally under stray light conditions and can be customized for various satellite mission requirements.

Dimensions (Sensor+Baffle)	35.5x35.5x134 mm3
Mass (Sensor+Baffle)	130 g
Optical design (Lens)	Refractive
Vibration (FM)	sine 13 g, random 12 grms
Vibration (Qualification)	sine 16 g, random 18 grms

price on request datasheet

TY-SPACE TECHNOLOGY

PST3S-K4 Star Tracker

A micro-miniature, radiation-resistant star tracker with a deployment baffle, providing high-accuracy attitude determination for small satellites.

Dimensions (Sensor+Baffle)	Baffle Folded: 40×40×34.6 (mm³)
Dimensions (Sensor+Baffle) (deployed)	Baffle Deployed: 40×40×75.7 (mm³)
Mass (Sensor+Baffle)	60 g
Optical design (Lens)	refractive
Vibration (FM)	sine 13 g, random 12 grms

price on request datasheet

TY-SPACE TECHNOLOGY

PST4S-H1 Star Tracker

The PST4S-H1 is a low-power-consumption, pico-class star tracker customizable for various small-satellite applications, part of a TY-Space product line with over 100 units successf

Dimensions (Sensor+Baffle)	57x57x141 mm3
Mass (Sensor+Baffle)	310 g
Optical design (Lens)	Refractive
Vibration (FM)	Sine 13 g, random 12 grms
Vibration (Qualification)	Sine 16 g, random 18 grms

price on request datasheet

VECTRONIC Aerospace GmbH

GERMANY · 2000 · 1 PRODUCT

German manufacturer of space subsystems — reaction wheels, star trackers, power control, and data handling units — with over 25 years of flight heritage on small satellite missions.

VECTRONIC AEROSPACE GMBH

VST-68M, VST-41M Star Trackers

The VST-series star trackers are high-performance attitude determination sensors for small satellites, offering radiation tolerance and suitable for various orbital and interplanet

Dimensions (with baffle) vst-68m	60 mm x 60 mm x 138 mm
Mass vst-68m	0.470 kg
Mounting pattern vst-68m	4 x M4 50 mm x 90 mm
Power consumption, max vst-68m	3.0 W
Input voltage range (vcd) vst-68m	9 to 40

price on request datasheet

Xi'an Institute of Optics and Precision Mechanics (XIOPM)

CHINA · 1962 · 1 PRODUCT

Chinese Academy of Sciences research institute in Xi'an developing space optics, precision photonic instruments, and optical remote sensing payloads for China's satellite and space programs.

XI'AN INSTITUTE OF OPTICS AND PRECISION MECHANICS (XIOPM)

Star Sensor

Star sensor technology for spacecraft attitude determination by XIOPM LSOT.

Type	Star tracker / star sensor for attitude determination
Developer	LSOT, XIOPM, Chinese Academy of Sciences

price on request

DIRECTORY

Manufacturers in this sector

AAC Clyde Space

Sweden · 1999 · 2 products

AAC Clyde Space provides small satellite technologies and space-based data services, offering end-to-end solutions from satellite components to data analytics for various applications.

Adcole Space (Redwire)

United States · 1957 · 2 products

Redwire is an integrated aerospace and defense company providing advanced technologies for space infrastructure, autonomous systems, and multi-domain operations to government agencies and de

arcsec

Belgium · 3 products

Arcsec designs and manufactures star trackers and reaction wheels, with over 100 systems sold and 5 years of flight heritage.

Berlin Space Technologies

Germany · 2010 · 2 products

Berlin Space Technologies (BST) designs and mass manufactures small satellite systems and technologies, providing end-to-end solutions for space missions.

Blue Canyon Technologies

United States · 2008 · 4 products

Leading provider of small satellite buses, systems, and components for commercial, civil, and government space missions, a Raytheon (RTX) business.

CubeSpace ADCS

South Africa · 1 product

South African manufacturer of space-proven, plug-and-play Attitude Determination and Control Systems (ADCS) for small satellites, with over a decade of flight heritage.

Gimbal Space

United States · 1 product

Gimbal Space designs and manufactures custom attitude determination and control systems (ADCS), including integrated systems, for customers with GNC teams.

Glavkosmos

Russia · 1985 · 3 products

Glavkosmos coordinates international human spaceflight projects, facilitates satellite launches, develops and supplies rocket components, and provides equipment for space crews.

Gumush

Turkey · 3 products

Turkish space and aerospace technology company; satellite engineering services, space system components, and technical expertise for Turkey's growing commercial space sector.

HEX20

India · 1 product

Indian small satellite manufacturer offering flight-proven platforms, subsystems, and mission-as-a-service solutions.

Hipparcos S.r.l.

Italy · 2022 · 1 product

Italian developer of autonomous attitude determination systems (star trackers) for small satellites.

Jena-Optronik

1991 · 5 products

Jena-Optronik designs and manufactures sensors, space optics, and electronics for satellites and spacecraft, supporting communication, navigation, and Earth observation.

Kairo Space

South Korea · 1 product

South Korean nanosatellite manufacturer offering CubeSat platforms, optical imagers, star trackers, solar panels, EPS, structures, and deployers for the commercial small satellite market.

Leonardo SpA (Space Division)

Italy · 1948 · 2 products

Leonardo SpA (Space Division) designs, develops, and produces space launchers, propulsion systems, satellites, and provides space system services including launch management and satellite co

Pyxis Space

Germany · 3 products

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Redwire Corporation

United States · 2020 · 1 product

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France · 2 products

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Tensor Tech

Taiwan · 2019 · 1 product

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China · 12 products

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Xi'an Institute of Optics and Precision Mechanics (XIOPM)

China · 1962 · 1 product

Chinese Academy of Sciences research institute in Xi'an developing space optics, precision photonic instruments, and optical remote sensing payloads for China's satellite and space programs.

Need a quote?

Open any product on newspacemarket.com and send one request — it goes straight to the manufacturer. Comparing several? Add them to a list and send a single bulk request.

`https://newspacemarket.com/catalogues/star-trackers/`