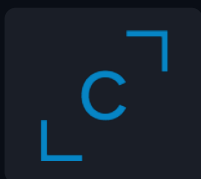


NEWSPACE MARKET · COMPANY PROFILE



cosine (Berlin Adlershof)

Netherlands · founded 2001 · cosine.eu

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PRODUCTS

4

SERVICES

newspacemarket.com/companies/berlin-adlershof-cosine/

as of 20 August 2026



cosine (Berlin Adlershof)

cosine is a space instrumentation company founded in 2001 and headquartered in Leiden, the Netherlands. The company designs, builds, and tests high-performance optical instruments and payloads for scientific and commercial satellite missions. cosine specializes in hyperspectral imaging technology, developing compact optical payloads such as the HyperScout line of instruments used for Earth observation. These systems provide onboard hyperspectral image processing capabilities, enabling real-time data analysis directly on small satellites. The company has supplied instruments and subsystems to ESA missions, national space agencies, and commercial small satellite operators. cosine's engineering team combines expertise in optics, mechanics, and electronics to deliver flight-qualified payloads for CubeSats and larger satellite platforms. With a growing presence in the European New Space sector, cosine partners with satellite manufacturers and research institutions across Europe to advance the capabilities of miniaturized, high-performance Earth observation instruments.

This profile is generated from the live NewSpace Market catalogue. Specifications are as published by the manufacturer; every product links to a page where a request for quotation reaches the company directly.

Services

Calibration and Traceability cosine performs calibration processes to ensure accurate and consistent measurement outputs, linking calibration to recognized standards for traceability and comparability.	Compliance with Mission and Industry Standards cosine supports compliance with relevant technical and regulatory standards, including space qualification (e.g., ECSS (ESA)), industrial, safety, scientific, and calibration protocols.
Environmental Testing cosine performs environmental testing to simulate demanding conditions like vacuum, radiation, shock, vibration, and extreme temperatures, verifying system behavior under realistic constraints.	Qualification and Compliance Integration cosine integrates qualification and compliance throughout the entire development lifecycle, from design to verified performance, ensuring systems are ready for their intended mission.

Product catalogue



COSINE (BERLIN ADLERSHOF)

HyperScout 2

Compact hyperspectral imaging instrument combining VNIR hyperspectral imaging with thermal infrared channels — Intel Myriad 2 onboard AI chip, first flown 2020.

First launch	2020
Orbit	540 km
GSD (channel 1)	75 m
GSD (channel 2)	490 m
Swath	310 x 150 km
Spectral range (channel 1)	400-1000 nm
Spectral range (channel 2)	8000-14000 nm

price on request



COSINE (BERLIN ADLERSHOF)

Silicon Pore Optics (SPO)

Most lightweight high-quality X-ray optics in the world — stacked X-ray mirror modules forming small X-ray lenses for X-ray astronomy instruments.

Application	X-ray astronomy instruments
Design	Stacked X-ray mirror modules

price on request



COSINE (BERLIN ADLERSHOF)

T-Scout

First multi-spectral thermal infrared imager with high spatial resolution for small satellites — 85m resolution from 500km, onboard real-time processing.

FOV	9.9 deg
Focal length	100 mm
Aperture	67 mm
F-number	F/1.5
Spatial resolution	85 m from 500 km
Swath	87 km from 500 km
Pixels (ACT)	1024

price on request



COSINE (BERLIN ADLERSHOF)

Valk

Valk is cosine's new Very High Resolution (VHR) Earth observation electro-optical instrument line, first flying as the primary sensor on the Dutch Ministry of Defence's PAMI-1 sate

Instrument class	Very High Resolution (VHR) Earth observation electro-optical instrument
Primary mission	PAMI-1 (Dutch Ministry of Defence), expected launch early 2028
Mission role	Primary ISR sensor, gathering visible and spectral data
Co-manifested payload	TScout HP (high-resolution thermal imaging), same PAMI-1 mission
Program status	Unveiled 12 June 2025; showmodel presented at 4S Symposium 2026

price on request

Contact cosine (Berlin Adlershof)

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.cosine.eu>

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