

NEWSPACE MARKET · COMPANY PROFILE

KAIROSPACE

Kairo Space

South Korea · kairo.space

13

PRODUCTS

5

SERVICES

2

WITH DATASHEETS

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as of 20 August 2026



Kairo Space

Kairo Space is a South Korean space hardware manufacturer specializing in CubeSat platforms and satellite subsystems for commercial nanosatellite missions. The company offers an integrated product portfolio spanning structural components, power systems, attitude determination sensors, communication hardware, optical payloads, and complete satellite platforms — enabling customers to source a large fraction of their nanosatellite hardware from a single vendor. Kairo Space's platform portfolio covers 3U and 8U CubeSat form factors. The 8U Bio-Platform is notable for its life science mission focus, targeting microgravity biology and pharmaceutical research applications in LEO. On the payload side, the company offers the KSOI line of optical imagers covering a wide range of apertures from a 22 mm visible-light imager up to a 300 mm telescope-class instrument. The company also manufactures structural CubeSat frames (KSCS series), body-mounted and deployable solar panels (KSSP series), electrical power systems (KSEPS), a miniaturized star tracker (KSST-01), an UHF/VHF patch antenna (KSPA-U), and satellite deployers (KSD series) for launch vehicle integration. The breadth of the product line positions Kairo Space as a one-stop supplier for small satellite programs targeting LEO remote sensing and in-orbit service markets. Kairo Space makes technical datasheets available for its higher-specification optical products, including the KSOI-90 and KSOI-300 systems, supporting the purchasing decisions of satellite prime contractors and system integrators.

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

Services

Consulting service

Kairo Space offers high-class consulting services, leveraging 25+ years of experience in space technologies for in-depth analysis, advanced design, optics construction, and electronics testing.

Ground stations & Satellite operations

Kairo Space offers cost-effective, turnkey ground station solutions for seamless communication with LEO satellites in Amateur or commercial S-band, UHF, and VHF frequencies.

Payload and subsystem development and manufacturing

Kairo Space develops and manufactures spacecraft components, including payloads for telecommunications, RF monitoring, remote sensing, and scientific research, offering COTS or custom solutions.

Satellite platform customization and support

Kairo Space customizes satellite platforms to exact specifications, providing design, development, integration, and testing support for optimal mission performance.

Turn-key satellite solutions

Kairo Space offers comprehensive turnkey satellite solutions for CubeSats, small, and medium satellites, designed to meet a wide array of mission requirements, with delivery within 18 months.

Product catalogue



KAIRO SPACE
3U CubeSat Platform

Complete 3U CubeSat platform with integrated structure, power, ADCS, OBC, and communication subsystems.

Form Factor	3U CubeSat
Orbit	LEO
price on request	



KAIRO SPACE
8U Bio-Platform

8U CubeSat platform optimized for in-orbit life science and microgravity biology experiments.

Form Factor	8U CubeSat
Application	Microgravity biology, life science experiments
Orbit	LEO
price on request	



KAIRO SPACE
KSCS CubeSat Structure

Aluminum CubeSat structural frames in standard 1U–8U form factors for nanosatellite missions.

Material	Aerospace-grade aluminum alloy
Form Factors	1U, 2U, 3U, 6U, 8U CubeSat
Standard	CDS-compatible
Deployer Compatibility	P-P0D, NRCSD, J-SS0D
price on request	



KAIRO SPACE
KSD CubeSat Deployers

CubeSat deployer systems for launch vehicle integration, supporting 1U–6U nanosatellite deployment in LEO.

Compatible Payloads	1U, 2U, 3U, 6U CubeSat
Deployment	Spring-ejection
Retention	Positive retention during launch loads
Trigger	Separation command signal
price on request	



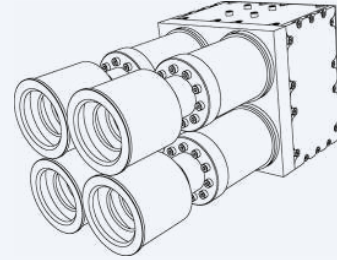
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KSEPS Electrical Power System

CubeSat electrical power system with MPPT solar charging, battery management, and regulated power distribution.

Solar Charging	MPPT
Interface	PC/104 stack
Compatible Panels	KSSP series
Platform	1U–8U CubeSat

[price on request](#)



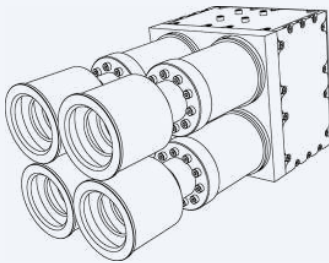
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KS0I-22 Optical Imager (22 mm)

22 mm focal length miniature CubeSat optical imager for visible-band earth observation.

Focal Length	22 mm
Band	Visible
Application	Wide-swath earth observation, technology demonstration

[price on request](#)



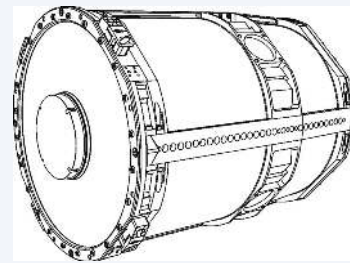
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KS0I-22C Optical Imager (22 mm Compact)

Compact variant of the 22 mm CubeSat optical imager with reduced form factor for tighter integration envelopes.

Focal Length	22 mm
Variant	Compact (reduced form factor)
Band	Visible

[price on request](#)



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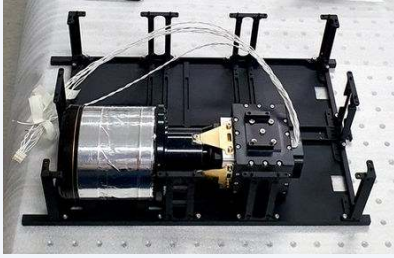
KS0I-300 Optical Imager (300 mm)

300 mm telescope-class CubeSat optical imager for high-resolution sub-meter earth observation.

Aperture	300 mm
Class	Telescope-class high-resolution imager
Band	Visible
Application	High-resolution earth observation, precision monitoring
Datasheet	Available

[price on request](#)

[datasheet](#)



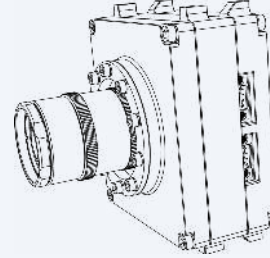
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KSOI-90 Optical Imager (90 mm)

90 mm aperture CubeSat optical imager providing high-resolution visible-band earth observation imagery.

Aperture	90 mm
Band	Visible
Compatible Platform	6U CubeSat and larger
Datasheet	Available

[price on request](#) [datasheet](#)



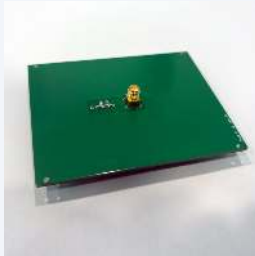
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KSOI-VA Optical Imager

Visible-band optical imager for CubeSat earth observation missions.

Band	Visible (RGB)
Compatible Platform	3U CubeSat and larger

[price on request](#)



KAIRO SPACE

KSPA-U UHF/VHF Patch Antenna

Miniature UHF/VHF patch antenna for CubeSat telemetry, tracking, and command communication links.

Type	Patch antenna
Bands	UHF (435–438 MHz), VHF (144–146 MHz)
Form Factor	Body-mounted, no deployment mechanism
Application	TT&C link for CubeSat TM/TC

[price on request](#)



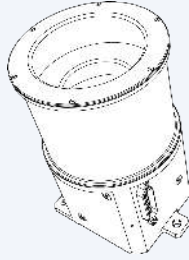
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KSSP Solar Panels

Body-mounted and deployable solar panels for CubeSat electrical power generation in LEO.

Types	Body-mounted and deployable
Cell Technology	Triple-junction
Compatible EPS	KSEPS
Form Factors	1U–8U CubeSat

[price on request](#)



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

Contact Kairo Space

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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