

NEWSPACE MARKET · COMPANY PROFILE



Zhongke Xingchen

China · founded 2021 · xiopmspace.com

8

PRODUCTS

newspacemarket.com/companies/zhongke-xingchen/

as of 20 August 2026

A large, faint, dark blue graphic on the right side of the page, resembling a stylized eye or a circular sensor with a central dot and concentric arcs.

Zhongke Xingchen

Zhongke Xingchen — operating under the registered name Xi'an Institute of Optics and Precision Mechanics CAS Aerospace Science and Technology Group Co., Ltd. and trading as Xiopm Space — is a Chinese commercial satellite company established in January 2021 as a wholly-owned commercial spin-off of the Xi'an Institute of Optics and Precision Mechanics (XIOPM), Chinese Academy of Sciences, represented by Xi'an Xiguang Industrial Development Co., Ltd. The company independently develops hyperspectral remote sensing satellites and provides associated data services, spanning the full business chain from satellite development and constellation operation to payload customization and data application. Zhongke Xingchen is building the "Xiguang Series", a planned constellation of 158 satellites comprising 108 general-purpose hyperspectral satellites plus infrared monitoring satellites, 40 dual-carbon (greenhouse gas) monitoring hyperspectral satellites, and 10 mission-specific hyperspectral satellites for ocean, agriculture, forestry and mineral-resource monitoring. Its product line covers Gaofen-class high-resolution imaging satellites, general hyperspectral satellites, and dedicated series for carbon dioxide monitoring, methane (point-source and wide-swath) monitoring, agriculture/forestry monitoring, mineral exploration and ocean colour monitoring, all built on lightweight, miniaturised small-satellite platforms of 55-200 kg. Since its first self-developed satellite, Xiguang-1 03 (Xiamen Science and Technology No. 1), launched in January 2023, the company has put multiple satellites into orbit, including a five-satellite batch in August 2023 and China's first commercial point-source methane monitoring satellites (Xiguang-1 04 "Quehua-1" and Xiguang-1 05 "Tianxianpei") in Novem

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.

Product catalogue



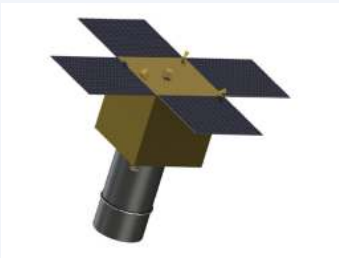
ZHONGKE XINGCHEN

Carbon dioxide series satellites

The Carbon dioxide series satellites are designed for global greenhouse gas emission monitoring, equipped with a greenhouse gas detector and a multispectral camera.

satellite	Carbon dioxide series satellites
Imaging mode	Pushbroom imaging
Load index	Greenhouse gas camera
Spectral range	1600nm~2100nm
Spectral resolution	0.15nm
Detection accuracy	Better than 5ppm
Width	200km@500km

price on request



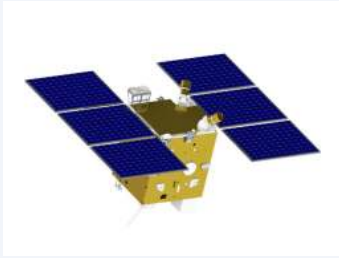
ZHONGKE XINGCHEN

Gaofen series satellites

The Gaofen series satellites are lightweight, miniaturized remote sensing satellites featuring 0.5-meter panchromatic and 2-meter multispectral cameras for high-precision imaging.

satellite	Gaofen series satellites
Imaging mode	Pushbroom imaging
Load index	High-resolution camera
Spatial resolution	All colors: 0.5m Multispectral: 2m
Width	12km@500km
Spectral range	P/All colors: 0.45μm ~ 0.80μm B1/Blue band: 0.45μm~0.52μm B2/Green band: 0.52μm~0.59μm B3/
Signal-to-noise ratio	Peak signal-to-noise ratio: 48dB

price on request



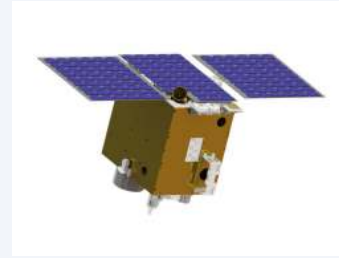
ZHONGKE XINGCHEN

General-purpose Hyperspectral Satellite Series Product

A general-purpose hyperspectral satellite equipped with a 40-meter hyperspectral camera and a 10-meter panchromatic camera, suitable for Earth observation tasks.

Representative satellite	Xiguang-1 03 Satellite (Xiamen Science and Technology No.1)
Imaging mode	Pushbroom imaging
Load index	Hyperspectral camera
Spatial resolution	40m/10m
Width	80km@500km
Spectral range	450nm~900nm
Number of spectral segments	150/300

price on request



ZHONGKE XINGCHEN

High-resolution agricultural and forestry monitoring satellite series

A series of high-resolution satellites designed for agricultural and forestry monitoring, equipped with both hyperspectral and panchromatic cameras for detailed Earth observation.

satellite	High-resolution agricultural and forestry monitoring satellite series
Imaging mode	Pushbroom imaging
Load index	Hyperspectral camera
Spectral range	450nm~900nm
Spatial resolution	10m@500km
Number of spectral segments	70
Spectral resolution	6.5nm

price on request



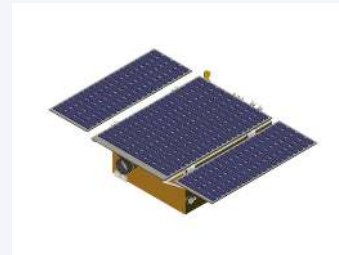
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Methane Integrated Satellite Series

The Methane Integrated Satellite Series are advanced satellites equipped with a high-resolution methane camera and other instruments for comprehensive environmental monitoring and

Representative satellite	Xi Guang 1-04 Star (Xi Guang 1)
Imaging mode	Pushbroom imaging
Load index	methane camera
Spectral range	1630nm~1675nm
Spectral resolution	0.1nm
Width	12km@500km
Spatial resolution	25m

price on request



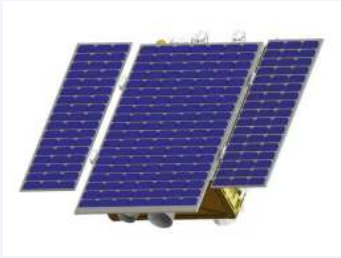
ZHONGKE XINGCHEN

Mineral Monitoring Satellite Series

The Mineral Monitoring Satellite Series are Earth observation satellites equipped with shortwave infrared and panchromatic cameras for mineral exploration and identification.

satellite	Mineral exploration satellite series
Imaging mode	Pushbroom imaging
Load index	shortwave infrared camera
Spectral range (shortwave infrared camera)	2000nm~2500nm
Spatial resolution (shortwave infrared camera)	20m/5m
Spectral resolution (shortwave infrared camera)	15nm
Number of spectral segments (shortwave infrared camera)	34

price on request



ZHONGKE XINGCHEN

Ocean monitoring hyperspectral satellite

The Ocean monitoring hyperspectral satellite is designed for marine ecology, pollution monitoring, and biological resource management, carrying both hyperspectral and panchromatic

satellite	Ocean monitoring hyperspectral satellite
Imaging mode	Pushbroom imaging
Load index	Hyperspectral camera
Spatial resolution	500m
Width	100km@500km
Spectral range	500nm~1000nm
Number of spectral segments	50

price on request



ZHONGKE XINGCHEN

Wide-field methane series satellites

The Wide-field methane series satellites are designed for comprehensive methane monitoring and carbon neutrality assessment, featuring a wide-swath methane camera and a multispectr

satellite	Wide-field methane series satellites
Imaging mode	Pushbroom imaging
Load index	methane camera
Single-track continuous imaging time (methane camera)	≥300s
Spectral range (methane camera)	1610nm~1685nm
Spectral resolution (methane camera)	0.1nm
Width (methane camera)	200km@500km

price on request

Contact Zhongke Xingchen

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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