

NEWSPACE MARKET · COMPANY PROFILE



Synspective Inc.

Japan · founded 2018 · synspective.com

8

PRODUCTS

5

SERVICES

newspacemarket.com/companies/synspective/

as of 3 September 2026



Synspective Inc.

Synspective was founded in 2018 as a spin-off from the SynspectiveLab at the Institute of Industrial Science, University of Tokyo. The company develops and operates a constellation of synthetic aperture radar (SAR) satellites — the StriX series — and provides analytics derived from SAR data for infrastructure monitoring, land displacement measurement, disaster assessment, and security applications. SAR satellites operate in X-band, enabling cloud-penetrating, day-and-night imagery regardless of weather or illumination conditions. Synspective's StriX constellation began with demonstration satellite StriX- α (launched 2020) and subsequent commercial satellites StriX- β (2022) and StriX-1 (2022), with a growing constellation planned toward dozens of satellites. Each StriX satellite is a compact SAR platform developed with Synspective's in-house engineering team, building toward high revisit rates over monitored infrastructure assets and disaster zones. The company's analytics products include the Land Displacement Monitor (LDM) for measuring millimeter-scale ground deformation over time — applicable to monitoring road subsidence, mine tailings stability, dam safety, and building settlement — and the Area Change Detector for automated identification of infrastructure changes between observation epochs. Synspective primarily serves government agencies, infrastructure operators, urban planners, and insurers across Japan and broader Asia, with expanding international operations.

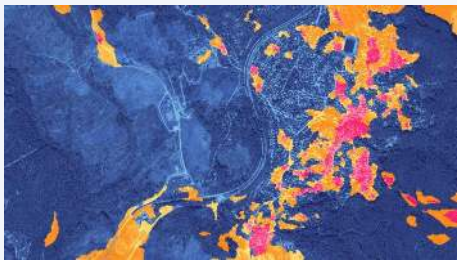
This profile is generated from the live NewSpace Market catalogue. Specifications are as published by the manufacturer; every product links to a page where a request for quotation reaches the company directly.

SERVICES

Services

Analytics Services (Cloud-based) Synspective offers cloud-based analytics services using data science and machine learning to extract insights from large data volumes.	Disaster Damage Assessment (DDA) DDA captures the location of change detection from satellite data analysis to understand the extent of natural disaster damage.
Flood Damage Assessment (FDA) FDA uses satellite observation for rapid and accurate assessment of flood damage, including inundation area and depth.	Land Displacement Monitoring (LDM) LDM analyzes ground risks by monitoring millimeter-scale surface changes using SAR satellites and InSAR technology.
Remote Monitoring Services Synspective provides remote monitoring services using SAR data to government agencies and companies globally.	

Product catalogue



SYNSPECTIVE INC.

Disaster Damage Assessment (DDA)

Synspective's Disaster Damage Assessment (DDA) solution utilizes SAR satellite imagery to analyze and measure damage caused by various natural disasters over wide areas.

price on request



SYNSPECTIVE INC.

Flood Damage Assessment (FDA)

A flood damage evaluation service for disaster response that assesses inundation area, inundation depth, and damage to roads and buildings using SAR satellite data and AI technolog

price on request



SYNSPECTIVE INC.

Forest Inventory Management (FIM)

FIM allows for remote observation of forests, including tree height and biomass estimation, forest fauna classification, logging detection, and CO2 absorption calculation, enabling

price on request



SYNSPECTIVE INC.

Ground Displacement Analytics

Synspective's InSAR-based analytics product detecting millimeter-level ground subsidence and infrastructure deformation from StriX SAR time-series data.

Technique	InSAR (Interferometric SAR) on StriX L-band time series
Measurement precision	Millimeter-level (mm/year velocity)
Coverage	Up to 200×200 km per scene
Update frequency	Monthly or quarterly
Detectable causes	Groundwater extraction, underground construction, mining, geological
Customers	Municipal governments, rail/road operators, REITs, construction

price on request



SYNSPECTIVE INC.
Land Displacement Monitoring (LDM)

Synspective's Land Displacement Monitoring (LDM) solution uses InSAR analysis to detect timely vertical land displacement in millimeters over wide areas, enabling periodical observ

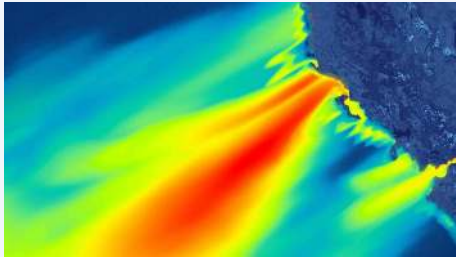
price on request



SYNSPECTIVE INC.
Object Detection and Classification (ODC)

Synspective's Object Detection and Classification (ODC) analytics solution uses advanced Synthetic Aperture Radar (SAR) data and AI/ML analytics to provide timely insights for moni

price on request



SYNSPECTIVE INC.
Offshore Wind and Wave (OWW)

OWW utilizes cutting-edge Synthetic Aperture Radar (SAR) satellite data to observe and analyze wave heights and wind speeds across vast ocean areas, optimizing offshore wind turbin

price on request



SYNSPECTIVE INC.
StriX SAR Constellation

Synspective's StriX SAR microsat constellation for infrastructure monitoring, disaster response, and land deformation analytics from space.

Radar band	L-band (1.25 GHz)
Resolution	1–3 m
Orbit	SSO ~500 km
Satellite mass	~100 kg
Key application	Ground subsidence monitoring (mm-level), vegetation penetration
HQ	Tokyo, Japan
Founded	2018

price on request

Contact Synspective Inc.

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.

<https://newspacemarket.com/companies/synspective/>

<https://synspective.com>

© 2026 Synspective Inc. — product data. Document compiled by NewSpace Market from the live catalogue on 3 September 2026. May be shared freely.