

StriX SAR Satellite



Satellite Specifications

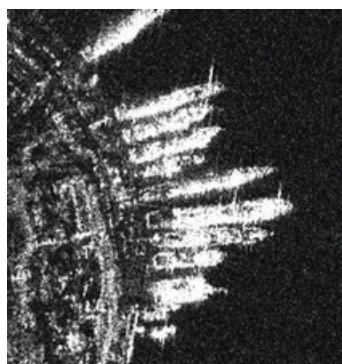
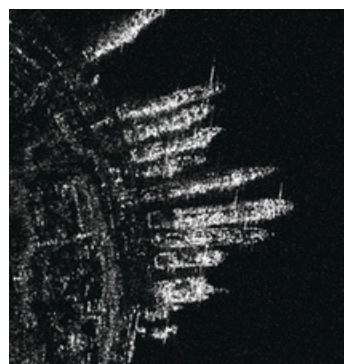
| | |
|------------------|---|
| Mass | 100kg class |
| Size | 0.8m x 1.0m x 0.8m Before antenna deployment 5.0m x 1.0m x 0.8m After antenna deployment |
| Propulsion | Yes |
| Mission Life | Approx. 5 years |
| Center Frequency | 9.65 GHz (X-band) |
| Look Direction | Right and Left |
| PRF | Up to 7 kHz |
| Chirp Bandwidth | Up to 600 MHz |
| RF Peak Power | Up to 1.5 kW |
| Polarization | W |
| Off-Nadir Angle | 15 - 45 degree |

Super-Resolution Processing

SR-GRD: Sharper, Clearer, Ready to Analyze

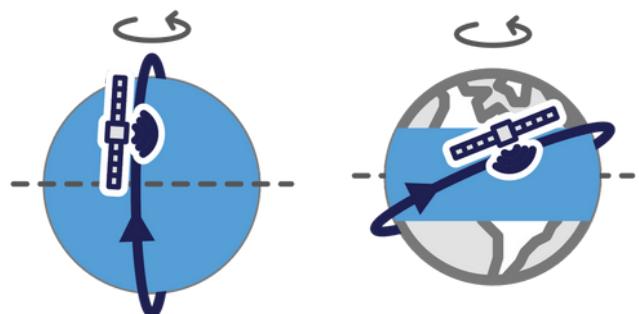
Super-resolution processing cuts speckle and enhances edges, making small objects stand out while keeping precise geolocation in a standard GeoTIFF package.

Comparison of SR-GRD & GRD Ships (Sevastopol / Ukraine)



Reducing Invisible Areas

The combination of sun-synchronous and inclined orbits enables imaging from four directions: north, south, east, and west. This reduces areas that are not visible in mountainous areas.



Sun Synchronous Orbit

Provide global coverage by passing over the poles, enabling daily observations of any ground location.



Increase your revisit frequency. More frequent observations of the world's most populated areas.

Constellation Timeline

A scalable X-band SAR fleet delivers reliable, all-weather, day-night monitoring. By combining sun-synchronous and inclined orbits, it reduces blind spots and is expanding toward 30+ satellites to enable hour-level global access.

Dec. 2020

First Mission
Weekly Revisits

Current (as of Dec 2024)

4+ Satellites
Daily Revisits

2028 -

30+ Satellites
Every Few Hours

Observation Modes

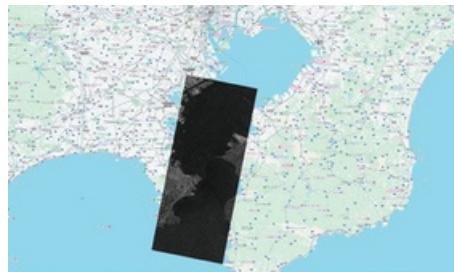
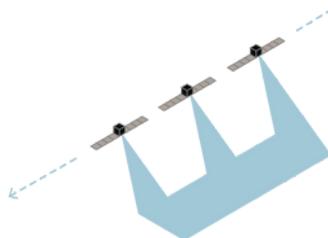
Stripmap Mode

Nominal swath width: 10-30km

Nominal product length: 50-70km

Resolution [m] Ground 3.6 x Azimuth 2.6

*Long Stripmap Mode can extend to up to 500km swath

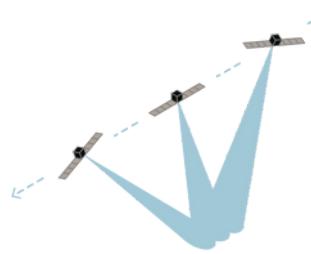


Sliding Spotlight

Nominal swath width: 10km

Nominal product length: 10km

Resolution [m] Ground 0.46 x Azimuth 0.5

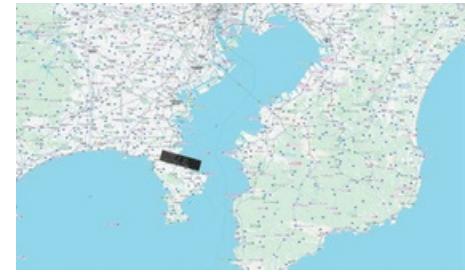
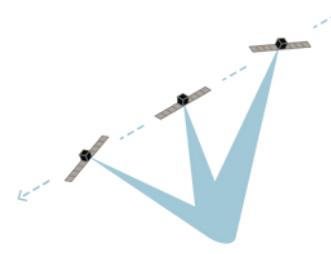


Staring Spotlight

Nominal swath width: 10km

Nominal product length: 3km

Resolution [m] Ground 0.46 x Azimuth 0.25



Maps Data: Google © 2024, © Synspective Inc.

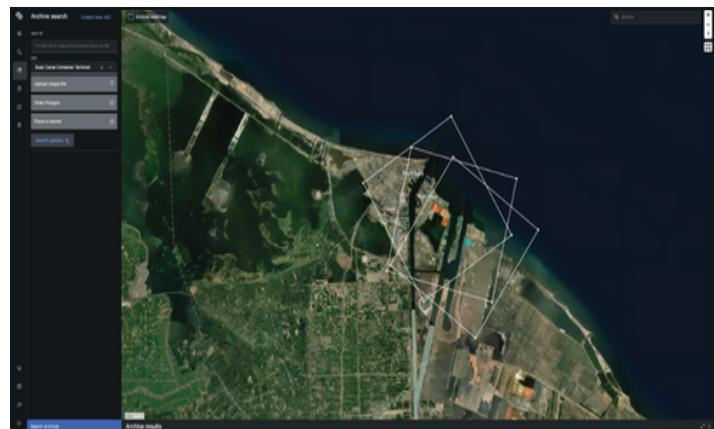
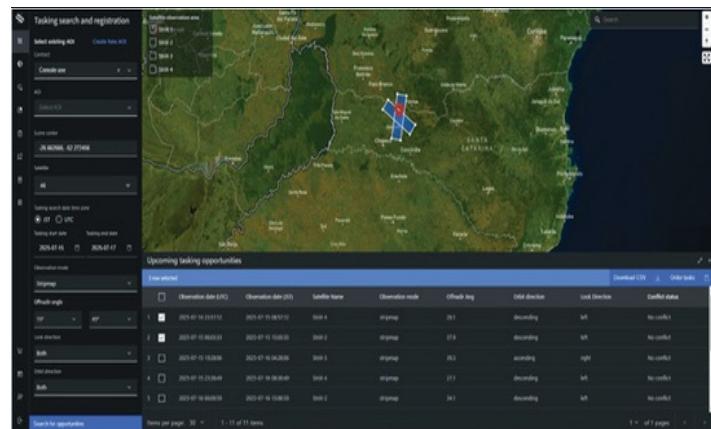
Capture the Changing World and Explore New Possibilities

The Synspective Data Platform provides quick and easy access to Synspective's SAR data, empowering data-driven decision-making. Easily search, order, and download data to contribute to solutions in diverse fields.

Our platform offers the following key features:

1. Archive search and download
2. Feasibility and task management
3. Imagery acquisition progress monitoring
4. Data sharing through signed URLs
5. Integration via API connections

* Each Data Platform service is currently being offered on a limited basis and will be gradually expanded in the future.



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