



We are VENG

A high value-added technology and services company specialized in the space industry.

SATELLITE CONSTELLATION FOR INFRASTRUCTURE MONITORING

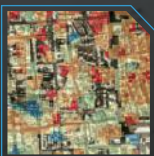
We have developed an advanced constellation of X-band SAR satellites. It redefines infrastructure monitoring with a scalable satellite system that offers centimeter-level resolution, ensuring image capture for greater target identification accuracy and proactive decision-making at a disruptive price.

The system concentrates all available resources on offering an effective and specific solution. This strategy allows the constellation to reduce costs and operate at disruptive market values, ensuring accurate and accessible surveillance of critical infrastructure around the world.

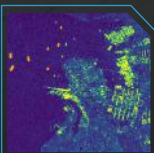
Satellite Information Strategic Uses



1 Target detection and operational intelligence



2 Infrastructure monitoring



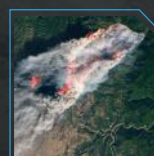
3 Support for land and maritime operations



4 Border Control



5 Emergency Management



6 Sea, forests, extensive activities: Mining & Oil & Gas
Management and protection of natural assets



7 Illegal fishing
Control and management of waterways and maritime routes

Technical Characteristics

Spacecraft Mass	150 kg
X-band (9.65 GHz)	
Orbital Altitude	500 - 600 km *
Acquisition Modes Dwell, Spot, Strip and Scan	

Pixel Resolution (Ground Sampling Distance)	25 cm, 50 cm, 1 m, 3 m, up to 15 km
Scene Size (Swath Width)	5 x 5 km up to 30 x 50 km

*Sun-synchronous orbit assumed



Constellation of microsatellites for Earth Observation

Objective > 3 satellites
Global Coverage



High resolution

Sub-meter / High definition demand



X-band SAR Technology

Cloudy / Day / Night
World-class State-of-the-Art



Operational Capacity

Operational training and space engineering capability acquisition for the Aerospace Force. A Rapid deployment is feasible by leveraging existing ground stations of the National Space Agency and the Armed Forces, requiring minimal intervention.



Optimized Design

"New Space" Cost Solution



High revisit frequency

Sub-daily



Technological control of the system

Rapid response in the short term, technological sovereignty in the long term



Rapid response

Delivery time < 1 hour



Data Analytics Platform

Control and flexibility access to other satellites

Operational Capability

The Eyes of the South

- Coverage Area: Complete coverage of the Southern Cone.
- Ground Segment: A backbone of ground stations, integrable with new capabilities to be developed.
- Command, Control, and Analysis Center: On-Premise infrastructure.
- Product Delivery Time: L1 < 1 hour.
- Constellation Revisit Time: Sub-daily.

TARGET

1 x 1 x 1

<1 meter resolution <1 day revisit <1 hour Access

