

About Vision-1

What

Vision-1 refers to Airbus Defence and Space's imaging payload capacity of the agile Surrey Satellite Technology Ltd (SSTL) S1-4 satellite. It offers very high-resolution, sub-metric imagery to support activities in several economic sectors

When

Launched on
16 SEP 2018

S1-4 launched onboard the Polar Satellite Launch Vehicle from the Satish Dhawan Space Centre in Sriharikota, India

Built By

The S1-4 satellite was built and is owned by SSTL. Vision-1 is the portion of S1-4 imaging capacity owned by Airbus, and is operated in partnership with SSTL

Objectives

Vision-1 is designed to capture multiple targets in one pass, utilising spot, strip and mosaic imaging modes and 45 degree off-pointing agility for a range of applications

Vision-1



revisit time
1-8 days
depending on latitude and roll

Coverage

0.87 m
panchromatic band

3.48 m
multispectral bands

20.8 km

Vision-1 hosts a very high-resolution imager that provides 0.87 m resolution imagery in the panchromatic band and 3.48 m resolution imagery in the multispectral bands (blue, green, red and near-infrared) with a 20.8 km swath width and global revisit time of 1-8 days depending on latitude and roll

Applications

Vision-1 delivers imagery to support several applications, including:



- Urban planning
- Agricultural monitoring
- Land classification
- Natural resource management
- Disaster monitoring

capture
sub-metric imagery

45°
off-pointing agility

Data and Users

Through ESA's Third Party Missions programme, Vision-1 data products are delivered on a free basis to a range of stakeholders, supporting application development and enabling cutting-edge scientific research. **Vision-1 is also an active satellite in the International Disasters Charter**, collaborating with other data providers and enabling users on the ground to access vital data in times of need

Data Access: earth.esa.int/eogateway/catalog/vision-1-full-archive-and-tasking