

TECSAR
Space SAR Radar
ELM-2070





TECSAR

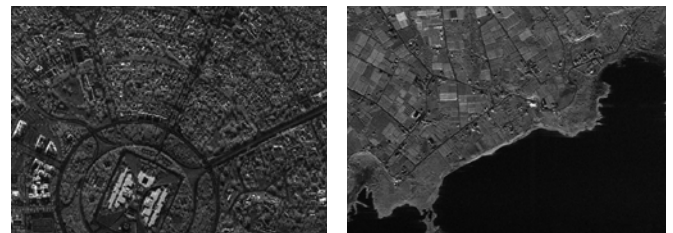
Space SAR Radar

GENERAL

The TecSAR is a lightweight Synthetic Aperture Radar (SAR) for Low Earth Orbiting (LEO) Image Intelligence (IMINT) Satellites. Combining high maneuverability with multi-beam electronic antenna steering, the TecSAR is capable of covering large areas and providing high-resolution SAR images of up to 0.5 meters, for any area of interest on the globe. Images can be produced in any weather condition and at any time during the day.

FEATURES

- High imaging capability
- Flexible mission planning
- Time from tasking to dissemination: less than 3 hours
- Full redundancy of all active units
- Light Weight: Satellite = 350kg, Radar = 150kg
- Design life of 8 years



MULTIMODE SAR OPERATIONS

Scan SAR: wide area imaging coverage by electronic beam steering

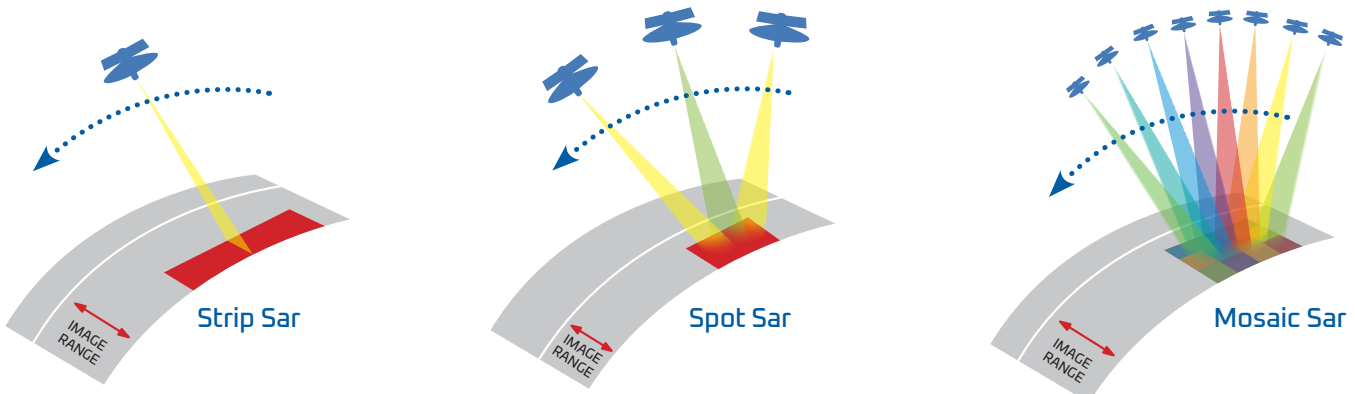
Strip SAR: strip width imaging according to required resolution

Spot SAR: mechanical steering spot imaging

Mosaic SAR: high resolution images of large areas by employing both mechanical and electronic steering

Multi-look SAR: for improved image quality

Multi-polarization SAR: better target discrimination within the image by implementing HH, HV, VH, or VV polarizations



GROUND IMAGING EXPLOITATION SEGMENT (IES)

IES enables users to receive all the raw data from the satellite, process them into SAR images, and distribute the results to relevant agencies. The IES can perform automatic target, cluster or change detections as well as report generation and dissemination.

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