Radar Constellation
Radar Satellite Services Provide Unique Precision, Quality and Reliability
Precision – Reliability – Revisit

All the advantages of Synthetic Aperture Radar remote sensing provided by one unique constellation:
Highly accurate and reliable Earth observation in near-real-time – independent of weather and daylight conditions.

Our Radar "Toolbox" – Made for Results

Airbus Defence and Space and Hisdesat’s unique Synthetic Aperture Radar (SAR) satellite constellation is geared to serve user’s needs. Its accurate measurement, extraordinary acquisition success and high reactivity makes the Radar Constellation the first choice for users seeking the "go-to" solution for innovative business solutions and crisis management.

The Radar Constellation consists of the commercially available radar sensors TerraSAR-X/TanDEM-X and PAZ which operate in the same orbital tube and feature identical ground swaths & imaging modes in order to max out the versatile advantages of this precise technology.

Using spaceborne SAR we can provide accurate measurements, unmatched geometric accuracy and provide highly precise information of any point on Earth. Our imagery is ranging from very high resolution to wide-area coverage. The satellites’ proven data quality and resolution of up to 25cm continues to be among the very best in the spaceborne commercial radar market. The constellation’s capacity empowers both data-hungry services and time-critical missions, enabling a broad array of applications, e.g.

- Interferometric (InSAR) analysis (e.g. oil & gas fields, civil engineering structures)
- Detection and identification of objects and their changes (e.g. for image intelligence applications – IMINT, GEOINT)
- Monitoring of objects and their movement (maritime and on-shore)

Weather and Daylight independent
Global coverage
Constellation Capacity

Benefits
- 6 Imaging Modes
- Resolution from 25cm to 40m
- Wide Area Monitoring
- 4 / 7 Day Interferometric Revisit Cycle
- Up to 12hrs Revist Time (depending on location)
- Highest Geolocation Accuracy (<1m)
- High Reactivity
- Capacity suits data-hungry missions
- Capability to detect changes, measure surface motion and heights
- Source for Ground Control Points
- Weather- and Daylight-independent

The Power of Radar Satellite Images

Fully Operational at Night or in Clouded Conditions
Wide Area Monitoring Suited for e.g. maritime surveillance
Pinpoint Detail • Down to 0.25m resolution • Image interpretation close to optical
Millimetre-accurate Monitoring Enabling Surface motion analysis & change detection, high spatial & temporal resolution

Airbus Australia, Brazil, China, Finland, France, Germany, Hungary, Singapore, Spain, United Kingdom, United States

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