

# X-band Radar Airborne Data Collection

## Flexible, High-Volume Data Acquisition

Intermap Technologies® provides custom airborne radar data collection services to help you create innovative geospatial solutions for numerous commercial, governmental, and defense applications. Intermap works with you to customize our proprietary airborne X-band Interferometric Synthetic Aperture Radar (IFSAR) technology to deliver the most cost-effective solution for your geospatial requirements. Collection can be coupled with Intermap's P-band SAR for additional efficiency in creating solutions.

## Key Benefits and Features



### All-Weather Acquisition

Mapping anywhere, day or night, in any weather or cloud coverage



### Fast, Wide-Area Coverage

Large mapping footprint, reducing collection time and saving you money



### Consistent Results

With mature processes, products are merged seamlessly creating reliable foundation data



### Set Project Schedules

Mapping areas of any size, in a deterministic time frame, removing project uncertainty



### High-Accuracy Data

Sub-meter vertical accuracy DEMs and high-resolution imagery



### Autonomous Collection

Operating in an automated fashion eliminates the overhead of an operator

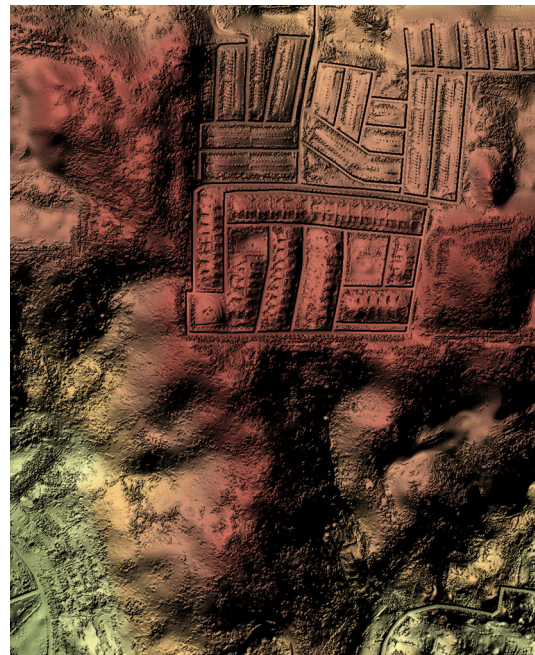
## X-band IFSAR Technology

Intermap's IFSAR data collection services are ideal if you need cost-effective, large area geospatial solutions that are more accurate than available satellite-acquired data. We provide accurate digital elevation models, high-resolution, radiometrically balanced 25 cm images, and supplemental thematic layers that are best suited for mapping projects. IFSAR is optimal for feature extraction of roads, manmade features, hydrology, and structures – all elements necessary for value-added geospatial products.

## Applications

Intermap has extensive experience working in austere environments around the world. With rigorous controls throughout the life cycle of a project, including planning, setup, acquisition, processing, editing, and delivery, Intermap ensures smooth operations and produces high-quality data on every program.

Item	Specification
Frequency	9.65 GHz center
Bandwidth	270 MHz to 1 GHz
Operational Altitude	Up to 38,000 feet
Operational Speed	400 knots
Resolution	Up to 25 cm imagery, 1 m posted DEM
Products	Orthorectified image Digital surface model Digital terrain model Application-dependent derivatives



*X-band Radar products include  
Orthorectified Radar Images (left) and  
Digital Surface Models (right)*



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Intermap Technologies is an industry leader serving a diverse geospatial marketplace. We provide highly accurate geospatial information to help commercial enterprises and government agencies make better location-based decisions.

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