IRANSAR Service Brochure

Intelligent Earth monitoring, from image to decision. Remote sensing engineering, aerial mapping and geospatial products for organizations, operators and project owners.

Operational Policy

IRANSAR focuses on open and authorized data, protected internal data workflows, AI/neural processing models, validated final products, confidentiality and user-friendly delivery. The exact internal data chain is not disclosed unless required by contract and permission scope.

Core Services and Products

- Periodic area monitoring with defined time windows and update cycles.
- Enhanced image production, noise control, co-registration and visual improvement for decision support.
- Time-series change analysis, change maps, trends and before/after comparison.
- Aerial mapping in authorized countries: orthomosaic, elevation products, point cloud, contour map and volumetric analysis.
- Custom or field radar feasibility for research-oriented or special monitoring projects where legally and technically feasible.
- GIS-ready delivery: GeoTIFF, COG, GeoPackage, GeoJSON, MBTiles, WMS/WMTS, dashboard-ready layers and technical reports.

Resolution and Mapping Accuracy

Satellite imaging products can be delivered with spatial resolution up to 3 meters for wide-area monitoring and regional analysis. For authorized drone projects with ground control and photogrammetric processing, mapping products may reach positional accuracy up to 30 centimeters depending on mission conditions, terrain, control points and permissions.

Quality and Validation

- CRS, pixel size, processing notes and metadata.
- Control/check point summary and error indicators such as RMSE or CE90 when applicable.
- Uncertainty notes and explicit limitations for terrain, acquisition geometry, access level and permissions.

Project Start

- Send the AOI as GeoJSON, KML, Shapefile ZIP, GeoPackage or a clear map reference.
- Define the objective, time window, monitoring cycle and expected product.
- Select deliverables, validation expectations, confidentiality and delivery constraints.

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