



**Astrium GEO-Information Services**  
**TerraSAR-X Services**  
**International Price List**



## TerraSAR-X Services - International Price List

- A complete description of the TerraSAR-X products and services is available on [www.astrium-geo.com](http://www.astrium-geo.com)
- For any additional information concerning prices, volume discounts, etc. please contact the Customer Service Team through Tel. +49 7545 8 4344, Fax: +49 7545 8 1337 or [terrasar@astrium-geo.com](mailto:terrasar@astrium-geo.com)

## TerraSAR-X - Basic Image Products

Image Product	Scene Size (Width x Length)	Resolution	Price New Acquisition	Price Archive Data**
Staring SpotLight (ST)	4 x 3.7 km <sup>2</sup> ***	up to 0.25 m	€ 6,950	€ 3,475
High Resolution SpotLight (HS)	10 x 5 km <sup>2</sup>	up to 1 m	€ 5,950	€ 2,975
SpotLight (SL)	10 x 10 km <sup>2</sup>	up to 2 m	€ 4,250	€ 2,125
StripMap (SM)*	30 x 50 km <sup>2</sup>	up to 3 m	€ 2,950	€ 1,475
ScanSAR (SC)*	100 x 150 km <sup>2</sup>	up to 18 m	€ 1,750	€ 875
Wide ScanSAR (WS)*	up to 270 x 200 km <sup>2</sup>	up to 40 m	€ 1,750	€ 875

- TerraSAR-X Data is available as single or dual polarisation data (except Staring SpotLight, ScanSAR and Wide ScanSAR). In case of Dual Polarisation, Basic Image Products will be reduced in size and resolution.
- Product options: SSC, MGD, GEC, EEC. Price for additional processing level product: € 300 / each.
- Prices include a single-user license.
- StripMap products are also available with reduced (30 x 30 km<sup>2</sup>) or extended scene lengths. Prices are adjusted proportionally to scene extent change.
- In addition to standard image products, enhanced image products are available on request:
  - MC<sup>SAR</sup>: Mosaic of neighbouring, geocoded or orthorectified scenes providing seamless image information of an area larger than a standard scene size.
  - ADM<sup>SAR</sup>: Image product computed from two SAR acquisitions from ascending and descending right looking orbits to reduce radar effects (shadow and layover) for enhanced image analysis.
- \* Image length up to 1,500 km possible. Prices are adjusted proportionally to scene extent change.
- \*\* Archive data conditions: data in archive for more than 30 days after acquisition date. Data is priced at 50% of the price of new acquisitions.
- \*\*\* Scene size dependant on incidence angle (small incidence angle: wide footprint at short length, increasing incidence angle: tendency towards equal proportions). Possible range: incidence angle 20°: 7.5 x 2.5 km<sup>2</sup> - incidence angle 60°: 4 x 3.7 km<sup>2</sup>
- Further details on technical specifications can be found in the TerraSAR-X product guide: <http://www.astrium-geo.com/en/228-terrasar-x-technical-documents>

## NRT Delivery Fee

Delivery Option	Delivery Times	Surcharge
Regular: Science Orbit	t < 7 d	€ 0
Regular: Rapid Orbit	t < 1 d	€ 0
NRT: Predicted Orbit	Under 7 hours*	€ 700

- \* From time of acquisition to data made available on a pick-up point.

## Rapid Tasking Fee

Programming Level	Description	Surcharge
Standard	Order confirmation up to 3 days before submission deadline	€ 0
Fast	Order confirmation sent between 3 and 1 day before submission deadline	€ 400
Urgent	Order confirmation sent less than 1 day before submission deadline	€ 900

- Submission deadlines are 08:30 UTC and 21:30 UTC or as indicated in the financial quotation.

## Modification and Cancellation Conditions - New Acquisitions

Cancellation Notice	Surcharge
Before 24 h prior to submission deadline	free of charge
Within 24 h prior to submission deadline	€ 500
After submission deadline	Full scene price

- Modification and cancellation notice must be submitted in written format via e-mail or fax.
- Submission deadlines are 08:30 UTC and 21:30 UTC.

## Priority Concept

- For Direct Access Customers a priority concept can be offered.

## TerraSAR-X - InSAR Data Packages

InSAR Data Stack Package	Price per scene
SpotLight InSAR	€ 2,500
StripMap InSAR	€ 1,250
InSAR "Programming only" (standard programming level)	€ 200

- Applicable for a minimum order volume of 5 scenes within 6 months from the first order date. All data with identical acquisition geometry and coverage of one defined location dedicated to InSAR applications.
- InSAR "Programming only" allows customers to speculatively order image acquisitions for an InSAR data stack without the necessity to purchase the scenes after acquisitions.
- Image delivery in SSC format.
- Rapid Tasking services may be requested (refer to service description above).

## TerraSAR-X - Maritime Monitoring Data Packages

TerraSAR-X Maritime Monitoring Imagery Package	Price per scene
StripMap	€ 1,050
ScanSAR	€ 900
Wide ScanSAR	€ 900

- > 75% of the scene area is water.
- > 5 ordered scenes in 3 months (global).
- NRT and Rapid Tasking services may be requested (refer to service description above).

## GEO Elevation - Elevation10 Products

	Description	Price
<b>DSM<sub>raw</sub></b>	The DSM <sub>raw</sub> is the output of radargrammetric processing of ascending and descending StripMap data pairs without any post-processing. This product usually contains radar artefacts and voids. Further processing has to be applied. <i>Minimum order size: 500 km<sup>2</sup> (Minimum width: 20 km)</i>	€ 16.00 / km <sup>2</sup>
<b>DSM<sub>basic</sub> (add-on option)</b>	The DSM <sub>basic</sub> is derived from the DSM <sub>raw</sub> representing the surface of the Earth including buildings, infrastructure and vegetation. The DSM <sub>basic</sub> is delivered with 10 m posting and an absolute horizontal and vertical accuracy of 5 - 10 m. <i>Minimum order size: 500 km<sup>2</sup> (Minimum width: 20 km)</i>	Price DSM <sub>raw</sub> + € 1.00 / km <sup>2</sup>
<b>Hydro-enforcement (add-on option)</b>	The hydro-enforced DSM is derived from the DSM <sub>basic</sub> , ensuring hydrological consistency, i.e. flattening of water bodies, assurance of a monotonic flow of rivers and editing of shore- and coastlines. <i>Minimum order size: 500 km<sup>2</sup> (Minimum width: 20 km)</i>	Price DSM <sub>basic</sub> + € 3.00 / km <sup>2</sup>
<b>Terrain editing/ DTM (add-on option)</b>	In additional editing steps, the hydro-enforced DSM will be transformed into a Digital Terrain Model representing the bare Earth terrain. <i>Minimum order size: 500 km<sup>2</sup> (Minimum width: 20 km)</i>	Hydro-enforced DSM + € 10.00 / km <sup>2</sup>
<b>Options</b>	Additional information layers <ul style="list-style-type: none"> <li>• Orthorectified radar image layer (single look direction, no mosaicking)</li> <li>• Quality layers (incl. water body mask)</li> </ul>	€ 3.00 / km <sup>2</sup> € 1.00 / km <sup>2</sup>

## GEO Elevation - Elevation10 Package

	Description	Price
<b>Elevation10 Package</b>	Includes DSM hydro, DTM, ORI and quality layers <i>Minimum order size: 500 km<sup>2</sup> (Minimum width: 20 km)</i>	€ 39.00 / km <sup>2</sup>

## Geo-Information - TerraSAR-X Services

	Description	Price
<b>3D Topographic Mapping</b>	Radar-derived topographic maps (including contour lines) at scale 1:10,000 - 1:250,000 delivered as map sheets and vector data sets. Pricing upon receipt of feature extraction guidelines, scale and feature density.	On request
<b>Surface Movement Monitoring</b>	Derivation of surface displacements down to a precision of millimetres. Different technologies, such as Differential Interferometry (DInSAR), Persistent Scatterer Interferometry (PSI), Small Baseline Subset (SBAS) or Corner Reflector Interferometry (CRInSAR) will be applied depending on boundary conditions.	On request
<b>Change<sup>SAR</sup></b>	<b>Basic:</b> Raster and vector products (latest SAR image included) depicting temporary changes between two TerraSAR-X acquisitions. Changes are derived using Amplitude and Coherence Change Detection. Besides SM and HS data, also data from other TerraSAR-X modes can be applied (price on request).	
	Change <sup>SAR</sup> Basic StripMap	€ 3,850
	Change <sup>SAR</sup> Basic High Resolution Spotlight	€ 6,000
	<b>Advanced:</b> Raster and vector products (latest SAR image included) depicting temporary changes between two TerraSAR-X acquisitions including interpretation report. Changes are derived using Amplitude and Coherence Change Detection. Besides StripMap and High Resolution SpotLight data, also data from other TerraSAR-X modes can be applied (price on request).	
	Change <sup>SAR</sup> Advanced StripMap	€ 5,850
	Change <sup>SAR</sup> Advanced High Resolution Spotlight	€ 6,500
<b>Ground Control Points</b>	<b>TerraSAR-X GCP-1:</b> 5 GCPs with 1m accuracy in X/Y/Z direction in an area of ~20 km <sup>2</sup> . Orthorectification service building on Astrium GEO-Information Services SAR experts' experience offered on demand. GCP products can be extended in terms of number of GCPs and area (price on request).	€ 6,600
	<b>TerraSAR-X GCP-3:</b> 10 GCPs with up to 3m accuracy in X/Y/Z direction in an area of ~ 1,000 km <sup>2</sup> . Orthorectification service building on Astrium GEO-Information Services SAR experts' experience offered on demand. GCP products can be extended in terms of number of GCPs and area (price on request).	€ 5,000
<b>TerraSAR-X IMINT Manual (TIM)</b>	<b>TIM basic:</b> Expert data base for training purposes, covering the principles of SAR data interpretation, the detection and recognition of IMINT-relevant objects in high resolution SAR data in comparison to optical very high resolution imagery. Standard configuration with 200 examples including hardware. <i>Special configurations (including remote access services) and extension packages available on request.</i>	on request

## TerraSAR-X - Ship Detection Service

TerraSAR-X Mode	Products	Specifications	Price
StripMap	Ship detection product*	Information: vessel position, size, heading	€ 1,200
	Ship detection product + image data package**	StripMap MSO image product: 12 m spatial resolution, 30 x 50 km <sup>2</sup> coverage NRT delivery in less than 7 hours***	€ 1,700
ScanSAR	Ship detection product*	Information: vessel position, size, heading	€ 1,100
	Ship detection product + image data package**	ScanSAR MSO image product: 36 m spatial resolution, 100 x 150 km <sup>2</sup> coverage NRT delivery in less than 7 hours***	€ 1,600
Wide ScanSAR	Ship detection product*	On request	
	Ship detection product + image data package**	On request	

Product delivery option contains:

\* Ship detection product only

\*\* Ship detection product + data package: additional delivery of MSO level 1 b image product

\*\* Maritime Safety Optimised (MSO) level 1 b image product: MGD product with reduced spatial resolution by 50% optimised for fast image delivery.

\* / \*\* Iceberg detection information can be provided on request

\* / \*\* Customer supplied AIS (Automatic Identification System) information can be included in the Ship Detection Service (price on request).

Format options:

\* kmz, ASCII, jpg

\*\* kmz, ASCII, jpg, geoTIFF

Image length: up to 4 x standard image length possible. Prices are adjusted proportionally to scene extent change (downlink in Neustrelitz station only)

Applicability:

> 75% of scene area is water

> 5 ordered scenes in 3 months (global)

\*\*\* From time of acquisition to data made available on a pick-up point

## SAR Training

	Target Group	Description	Participants	Duration	Price
<b>SAR Information Days</b>	SAR beginners	Brief introduction to TerraSAR-X and TanDEM-X missions, products and services.	15 - 20 persons	1 - 2 days	On request
<b>SARIntro</b>	SAR beginners with a strong image processing and GIS background	SAR Fundamentals, TerraSAR-X mission, SAR system, image products and services; outlook on advanced topics.	10 - 15 persons	5 days	€ 1,500 per person
<b>SARTrix</b>	GIS and remote sensing technicians	Dedicated high, medium and low resolution SAR image interpretation training for topographic and thematic mapping purposes.	10 - 15 persons	5 days or more	On request
<b>SALSAR</b>	Image Intelligence (IMINT) Image Analysts	High Resolution SAR image interpretation for image intelligence purposes.	10 - 15 persons	10 days	€ 60,000

- ❑ Prices are for training carried out on-site at the premises of Astrium GEO-Information Services in Germany
- ❑ Adaptation of location, duration, topics and imagery needs on request.



## Taxes

- The prices listed in this Price List exclude any taxes (withholding taxes, VAT, GST or similar taxes), duties, stamps, surcharges, clearance costs and other fees. Any such taxes, duties, or other imposts etc. payable by Astrium GEO-Information Services will be charged additionally to the customer.

## Licenses

- Single-User License (included in the image product price).
- Multi-User / Organisation License (on request).

Download available at [www.astrium-geo.com](http://www.astrium-geo.com)

## Delivery Options

- Online / FTP server
- Shipment of DVD or tape via courier (ICC Incoterms 2010, - DAP, Delivered at Place -).

## Terms and Conditions

- Unless otherwise specified, all products and services refer to the TerraSAR-X Data Supply - General Terms & Conditions.

Download available at [www.astrium-geo.com](http://www.astrium-geo.com)

### Astrium Services, GEO-Information

Infoterra GmbH  
88039 Friedrichshafen | Germany

[terrasar@astrium-geo.com](mailto:terrasar@astrium-geo.com)

[www.astrium-geo.com](http://www.astrium-geo.com)