

The background of the entire page is a high-resolution aerial radar image of a city, likely taken by a synthetic aperture radar (SAR) satellite. The image shows a dense urban area with various buildings, roads, and green spaces. The radar data is overlaid with a complex pattern of colors, including red, green, blue, and yellow, which represent different radar returns or classifications. The overall image has a grainy, high-contrast appearance typical of radar imagery.

**Geo-Intelligence**

## **TerraSAR-X Services**

Radar Satellite Services of Unique  
Precision, Quality and Reliability

AUTHORIZED RESSELLER



**L3HARRIS™**



**AIRBUS**  
DEFENCE & SPACE



# Focus on the Essentials:

## Weather-Independent and in Near Real Time

TerraSAR-X reliably acquires high-resolution and wide-area radar images, independent of the weather conditions. The satellite features a unique geometric accuracy that is unmatched by any other commercial spaceborne sensor.

TerraSAR-X is specifically optimised to meet the requirements of commercial users around the globe who require readily available, high-quality and precise Earth observation data.

### TerraSAR-X benefits:

- Flexible coverage and resolution: high resolution for specific target areas, medium resolution for large area coverage
- Excellent geometric and radiometric accuracy
- Comprehensive network of ground stations and Direct Access Services ensure data delivery in near real time

### TerraSAR-X / PAZ Radar Satellite Constellation

The identical Spanish satellite PAZ (owner and operator: Hisdesat) will be launched into the same orbit as TerraSAR-X in 2015. Together, the satellites form a constellation with significantly optimised coverage and capacity. The new constellation supports numerous data-intensive and time-critical applications in the areas of crisis management, defence and security.

### TerraSAR-X & TanDEM-X for a Global Elevation Model

Together with its almost identical twin TanDEM-X, TerraSAR-X acquires the data basis for the WorldDEM™, a global Digital Elevation Model with unrivalled quality, accuracy and coverage.

### Wide ScanSAR for Large Area Maritime Surveillance

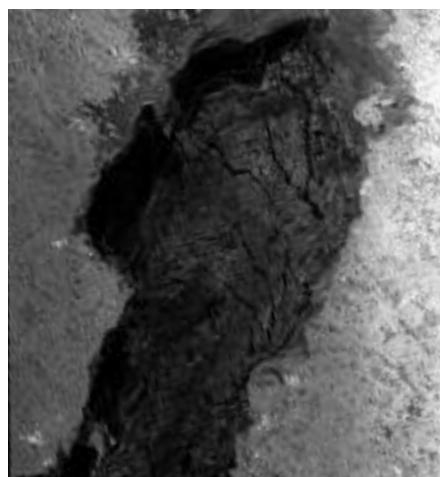
With a scene size of up to 405,000km<sup>2</sup> the new Wide ScanSAR mode has been specifically optimised for maritime monitoring applications.

Wide ScanSAR data enables continuous large-area surveillance of shipping traffic, monitoring of sea ice and timely detection of oil spills.

### Staring SpotLight for Crucial Detailing

The new Staring SpotLight mode is now available for applications requiring highly detailed object information.

With a resolution of down to 0.25m, improved radiometric quality and outstanding geometric sensor accuracy, Staring SpotLight data provides precise information for image intelligence (IMINT) and GEOINT applications.



\*Acquisition length extendable to 1,500km  
\*\* Scene size dependent 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 2.5km<sup>2</sup> - incidence angle 60°: 4 x 3.7km<sup>2</sup>

Imaging Mode	Resolution	Scene Size
NEW: Staring SpotLight	down to 0.25m	4 x 3.7km <sup>2</sup> **
High Resolution SpotLight	1m	10 x 5km <sup>2</sup>
SpotLight	2m	10 x 10km <sup>2</sup>
StripMap	3m	30 x 50km <sup>2</sup> *
ScanSAR	18.5m	100 x 150km <sup>2</sup> *
NEW: Wide ScanSAR	40m	up to 270 x 200km <sup>2</sup> *