



## **MetaSensing Guardian SAR selected for autonomous maritime surveillance in the Mediterranean Sea and Middle East regions.**

*MetaSensing Guardian multimode airborne radar has been selected to be installed on different TUAS for maritime and border surveillance.*

MetaSensing Guardian radar has been chosen to fly on different Tactical Unmanned Aircraft Systems (TUAS) for border and maritime surveillance in the Mediterranean Sea and in the Middle East regions.

The different Guardian units will support the real-time surveillance activities offering real-time high-resolution Synthetic Aperture Radar (SAR) images, Inverse SAR features and Moving Target Indicator (MTI) to the ground control station crew for reliable law enforcement and surveillance tasks.

These first deliveries, besides running law enforcement operations, are also used for testing, installation and optimization work on the selected platforms for a long-term collaboration with the TUAS manufacturers.

The Guardian is a scalable multichannel high-resolution X-band SAR/ISAR/MTI system featuring onboard heterogeneous computing by employing embedded FPGA, GPU and CPU for real-time processing. It provides valuable information to the ground crew about targets even at far distance with imaging and detection during extremely poor visibility, in all weather conditions and during night and day.

The Guardian, with its total weight below 30 kg and small form factor, is suitable for installation on multiple platforms. It provides 360 degrees field of view and a range of digital modes including SAR imaging with stripmap and spotlight mode, Inverse SAR and Ground-, Maritime-, Dismount- MTI.



The Guardian, completely military graded, is entirely based on Solid State Technology allowing for high reliability, low repair and maintenance cost, and long lifetime.

Currently, new orders of the Guardian for UAV platform for maritime and border surveillance are being negotiated with new customers interested in this state-of-the-art technology.

MetaSensing is an Italian-Dutch SME operating in the field of EW and Synthetic Aperture Radar (SAR) remote sensing for airborne, space, and ground applications. MetaSensing offers EW and high-resolution SAR sensors and services for surveillance and defense. The company currently has offices in the Netherlands, Italy, Singapore and South Korea with a commercial and technical network of partners worldwide. MetaSensing main goal is to provide to the partners innovative remote sensing and EW solutions based on advanced but cost-effective radar and sensors.

MetaSensing products are being used worldwide for ground and airborne high-resolution imaging and patrolling, coastal and maritime surveillance, drone detection and jamming. Our portfolio offers a wide range of SAR sensors through all the main radar bands including Ka, Ku, X, C, L, P, UHF and VHF band.

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