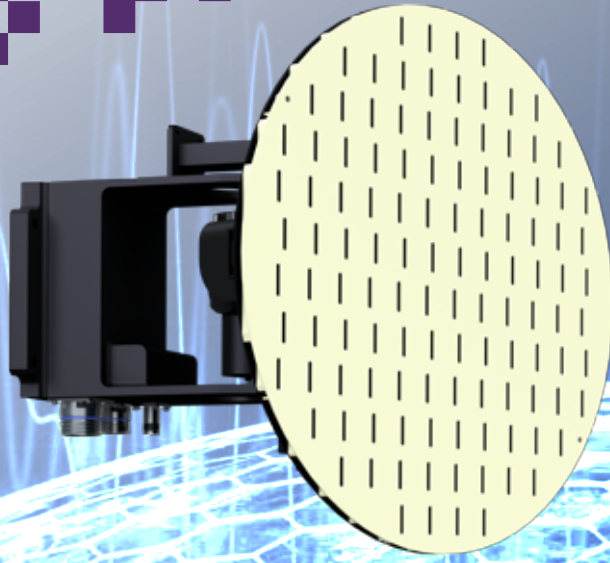


GABBIANO
ULTRA-LIGHT



Radar & Advanced Targeting

STATE-OF-THE-ART, COMPACT, X-BAND RADAR FOR ALL-WEATHER SEA, GROUND AND AIR SURVEILLANCE

Gabbiano Ultra-Light provides long and short range surveillance capabilities for both civilian and military forces.

With a high level of modularity and flexibility, the system is suited for operation aboard of mini/small Unmanned Aerial Vehicles (UAVs) as well as both fixed and rotary wing small manned platforms. It has been designed for the following applications:

- Homeland Security
 - Drug trafficking, smuggling, illegal immigration and terrorism
- EEZ protection
 - Illegal fishing
- Environmental surveillance
 - Oil and hazardous material spills, wildlife protection
- Maritime Patrol and Search & Rescue operations
- Support to covert day/night operations of Special Forces.

MULTI-MODE, HIGH PERFORMANCE RADAR FOR FITMENT TO MINI AND SMALL UAV PLATFORMS

Installing a payload aboard mini and small manned/unmanned platforms is fast becoming the most challenging aspect.

Gabbiano Ultra-Light takes advantage of its light weight and low power consumption to provide a compelling solution to the problem. It weighs 24kg and is powered from a single 28VDC power supply source.

Gabbiano Ultra-Light provides top capability performance for those platforms with demanding installation constraints.

GABBIANO ULTRA-LIGHT

Key features

- Low weight
- Low power consumption
- $\pm 90^\circ$ surveillance
- LPI capability
- TWS >200 targets
- ECCM capabilities
- Short blind zone
- High resolution imaging modes and target recognition
- Maritime surveillance, up to 160NM
- High reliability
- Standard and flexible interfaces.

Ground Surveillance

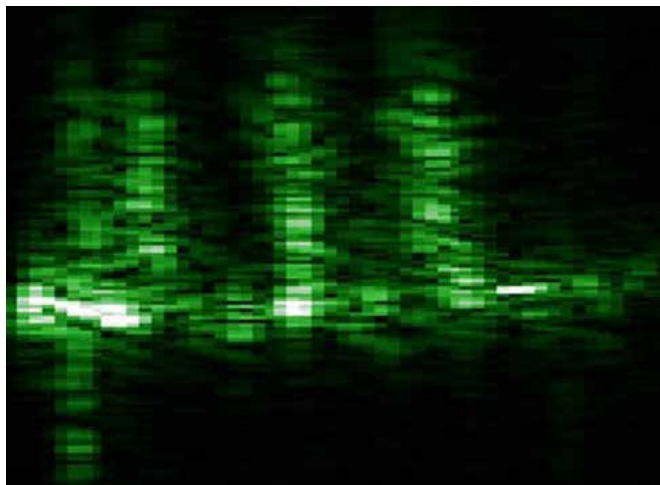
The Gabbiano Ultra-Light provides all the features for Homeland Security missions, primarily aimed at border protection or Combat Search & Rescue missions.

High resolution modes (Spot Synthetic Aperture Radar and Strip Synthetic Aperture Radar) provide a sub-metric resolution over wide swath areas. GMTI mode allows detection of moving targets on ground. Unique patents and owned proprietary techniques have been developed for High Resolution Radar Imaging.

Sea Surveillance

Gabbiano Ultra-Light is ideal for Search & Rescue and long range maritime surveillance missions with TWS.

High resolution ISAR mode enables the user to classify the intercepted targets. To complete the Search & Rescue features, SMTI and several standard beacon modes are also available (SST-181X, DO-172 and SART classes). A dedicated search mode is optimised for Oil Spill Detection.



Air Surveillance

Air-to-Air mode allows detection and high resolution imaging of air targets.

Navigation

Navigation aid to the crew is provided through the following modes: ground mapping, doppler beam sharpening, weather (compliant with civil certification standard) and beacon (SART, SST-181X and DO-172 standards supported).

Growth Capability

State-of-the-art high computational capabilities guarantee wide growth and customisation by software updates.

TECHNICAL CHARACTERISTICS

DIMENSIONS

LRU Antenna $\pm 90^\circ$ (nose) 12"	350mm x 350mm x 350mm
LRU RTP	446mm x 290mm x 220mm

GENERAL

Weight	24kg
Cooling	Air cooled
Frequency	X band
Interfaces	Ethernet plus Mil Std 1553B, ARINC 429, RS422 and ARINC 708
MTBF	2000 hours
Input power	450W single power source 28VDC
Fully coherent transmitter	Solid state power amplifier
Average transmitted power	>20W

