



## GABBIANO FAMILY

**GABBIANO Family is a low cost, state-of-the-art, X-Band radar solution for surveillance over ground, along coasts and on the sea in any weather condition.**

Ground, Coastal and Sea Surveillance has become a primary need for civilian and military forces involved in missions ranging from:

- Homeland Surveillance against drug trafficking, smuggling, illegal immigration and terrorism;
- EEZ protection (e.g. illegal fishing)
- Environmental surveillance (oil and hazardous material spills, wild life protection)
- Maritime Patrolling and Search and Rescue operations;
- Combat Search and Rescue Missions;
- Support to covert operations of special forces (at day or night and all-weather).

In all these situations, the role of a well equipped platform flying the area of interest is essential.

The use of state-of-the-art day and night surveillance sensors provides the best results. The radar is the key sensor to achieve long range surveillance capability for any mission.

Answering these requirements, Gabbiano is suitable for Unmanned Aerial Vehicles, as well as both fixed and rotary wing manned platforms. It can be installed both in nose-mounted and belly-mounted configurations, providing respectively a 180° and 360° surveillance. Antennas of several sizes, tailored to the specific application are available.

Gabbiano is available in two basic configurations: Ground Surveillance and Sea Surveillance.

### KEY FEATURES

- Low weight, low power consumption;
- LPI capability;
- Over 64 targets TWS (100 for maritime version);
- ECCM capabilities (frequency agility, jammer avoidance, etc.);
- Short blind zone (40 ns pulse width);
- High resolution modes;
- Maritime surveillance, up to 80 NM;
- High reliability;
- Standard and flexible interfaces.

**GABBIANO FOR GROUND SURVEILLANCE**

Lightweight, compact, specifically designed and developed for Ground Surveillance, can be employed for Homeland Security missions, primarily aimed to border protection, or in Combat Search and Rescue missions for shot down allied aircraft.

High resolution modes (Spot SAR and Strip SAR) grant a sub-meter resolution over wide swath areas. GMTI mode allows detection of moving targets on ground.

Low power consumption from a single power supply source, along with standard and flexible interfaces and LPI characteristics make it perfect for installation onboard UAV and/or small/medium fixed wing platforms, both in nose-mounted and belly-mounted configurations.



**GABBIANO FOR SEA SURVEILLANCE**

In the same hardware configuration, Gabbiano can be installed onboard lightweight, medium helicopters and in lightweight fixed wing aircrafts to perform search and rescue and maritime surveillance missions. In this configuration in addition to the standard Air-to-Surface search modes with TWS, this radar provides the high resolution (ISAR) mode which enables the user to classify the intercepted targets. Ground mapping, weather and beacon modes provide navigation aid. Gabbiano is available with 360° antenna, for belly-mounted installations or with ± 90° antenna, for nose-mounted installations.



**TECHNICAL CHARACTERISTICS**

Weight:	360° antenna - 43 Kg ± 90° antenna - 37 Kg
Cooling:	Air cooled
Frequency:	X band
MTBF:	1300 hours
Input power:	450 W; single power source 28 Vdc
Fully coherent transmitter:	Solid state power amplifier
Average transmitted power:	20 W

