

## Ground and Coastal Radar

# GR12/5



GR12/5 persistent ground and coastal surveillance radar is a new advanced high resolution radar with unique and outstanding capabilities. Featuring simultaneous multibeam technology, the radar provides persistent surveillance and instantaneous target tracking over a wide area.

Operational in all weather conditions, the radar immediately detects, monitors and tracks all ground moving targets and all sea targets (moving and stationary) in the Region Of Interest (ROI), such as a walking person, a moving vehicle and various vessels and boats at sea.

The radar features two or four stationary (non-rotating) planar array antennas, each covering a sector of 90°, thus achieving 180° or full 360° coverage.

The GR12/5 radar detection range is 5000m for a rubber boat or a moving person and up to 10000m for a small sail boat or a moving vehicle.

One of this radar's most unique capability is its simultaneous detection and tracking targets, both on ground and on sea surface.

### Features

- Instantaneous and continuous multi-beam coverage of the entire Region of Interest
- High probability of target interception, in all weather conditions, even if the target is not persistent
- Automatic and continuous detection and tracking with high accuracy
- Dual mode simultaneous operation both on ground and on the sea surface
- Multi-target automatic tracking
- Unparallel performance for small and slow moving targets
- Very low false alarm rate
- Easily deployed and operated
- Interoperability with Electro-Optic sensor
- Several radars can be networked, providing an integrated picture on a C4ISR console display
- Solid state radar with very high MTBF
- Very low Life Cycle Cost (LCC)
- Multi-beam Solid State FMCW Radar
- Non-moving parts
- Each target is continuously monitored and its track is updated multiple times per second
- 360° coverage can be achieved by employing 4 planar stationary antennas of 90° each
- Locally or remotely controlled and operated

### Applications

- Border surveillance and protection
- Critical infrastructure protection
- Harbor surveillance

### Specifications

Radar type:	High resolution FMCW radar
Frequency:	X-Band
Detection range:	Up to 5000m for rubber boat / moving person Up to 10000m for sailboat / moving vehicle Up to 32000m for medium ship
Azimuth coverage:	Instantaneous 180° / 360° (according to model)
Range accuracy:	Less than 10m
Azimuth accuracy:	0.5°
Interface connection:	Ethernet TCP/IP
Power:	24 VDC
Power consumption:	130W
Radiated power:	5W
Radar weight:	35kg/55kg
Max number of tracks:	200
Track update rate:	Few times per second