

# Persistent Perimeter Detection Radar

## GR14



The Persistent Perimeter Detection radar GR14 is an advanced high resolution radar for Perimeter Detection.

It provides persistent surveillance and instantaneous target detection and tracking with a radius in 90° increments:

- pedestrian at 500m,
- vehicle at 1000m.

The GR14 is a very affordable 24/7 solution with high MTBF. The intuitive HMI requires no training and is able to support few radars. Intrusions are marked on GIS display.

This new radar solution is designed to be very portable with 5\*13\*17 cm in dimension and 1.2 Kg in weight and 15W power.

The GR14 has a single cable connection (POE) very easy to install and is available in a number of colors.

### Features

|  |                       |
|--|-----------------------|
| Size of each antenna module                                  | 17x13x5cm             |
| Weight of each antenna module                                | 1Kg                   |
| Max. power consumption (w/o OWS)                             | 15W                   |
| Operating voltage  | 48V DC POE            |
| Frequency band   | K                     |
| Operating bandwidth  | ISM, 24.0-24.25 GHz   |
| EiRP (ETSI/FCC compliant)                                    | 26dBm / 18dBm         |
| Spurious signals/harmonics (ETSI/FCC compliant)              | -30dBm Typ.           |
| Human/rubber boat detection range (RCS=0.5-1m <sup>2</sup> ) | 500m                  |
| Vehicle/sail boat detection range (RCS=10m <sup>2</sup> )    | 1000m                 |
| Medium ship detection range (RCS=1000m <sup>2</sup> )        | 3000m                 |
| Range resolution (part of instrumental range)                | 1/100                 |
| Range accuracy   | 0.5m (@3m resolution) |
| Azimuth coverage   | 90°                   |
| Azimuth accuracy   | 1°                    |
| Elevation coverage   | 12°                   |
| Minimum radial velocity (land targets only)                  | 1.8Km/h               |
| Simultaneous tracks  | 50                    |
| Track update rate  | >1 per second         |