

RSR 102-1000

X-band Land/Perimeter Surveillance

FEATURES

The RSR 102-1000 is a small staring radar optimised for detection of human activity up to a range of 1000m. The radar has several unique features that provide the automatic detection and recognition of moving targets such as personnel, vehicles and other moving objects. Its small size, low weight, low battery power consumption and ease of operation, makes the unit ideally suited for application as part of an Intruder Detection System tailored for asset and area monitoring and protection.

The RSR 102-1000 is a low cost, small, light-weight, Low Probability of Intercept (LPI) product, making it ideal for covert operations. Its low transmitted power levels inherently increase reliability and reduce component cost, providing a cost-effective solution for short-range and intrusion monitoring radars.

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RADAR SYSTEMS

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PERFORMANCE SPECIFICATIONS

- Radar Frequency: X-band
  - 9.5-9.975 GHz, 475 MHz BW
- Radar Instrumentation Range: 1 km
- Measurable Target Velocity: < 4.9 m/s
- Detection and Tracking of Humans
- Coverage:
  - 70° Azimuth, 20° Elevation
  - 2 m Range Resolution
  - 3° Azimuth Accuracy
- Very low Transmit Power
- Linear FMCW
- Power Source:
  - 48 V Power Over Ethernet
- Easy to use Operator Interface

PERFORMANCE SPECIFICATIONS

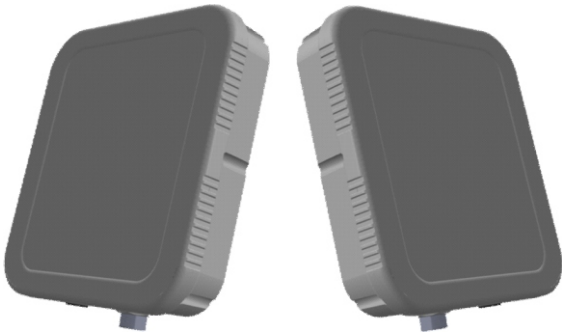
- 1000 m Instrumented Range
- High performance surveillance
- Target Detection and Localisation
- Low Cost
- Real time user interface
- IP65 Compliant
- Small form factor
- Highly flexible installation
- Alarm Zone Mapping with audible notifications
- Low power FMCW waveform

PHYSICAL FEATURES

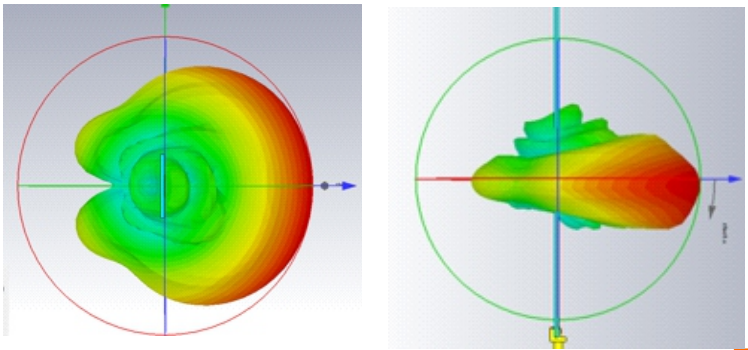
- Weather-Resistant
  - IP65 Compliant
  - Protection against harsh sunlight
- Function and Form
  - Full mounting freedom: up-down and left-right pivoting on walls or poles
- Operating Temperature
  - -30 to 55 °C
- Small Form Factor
  - 260 mm (W) x 322 mm (H) x 90 mm (







Compact Packaging



Antenna Radiation Patterns

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