

RSR 903

Lightweight Multi-mode Ground Surveillance Radar

FEATURES

- Panoramic scanning, sector scan or staring modes
- Target classification through track and micro-Doppler analysis
  - Pedestrians
  - Vehicles
- Wind-blown vegetation clutter suppression
- Low probability of false alarms
- Radome enclosure providing enhanced protection in harsh environments
- Low probability of intercept supporting covert operations
- Automatic data recording and playback
- Wired or wireless link between radar and display
- Display optimised for ease of use

APPLICATIONS

- Game protection
- Livestock protection
- Border Surveillance
- Ports and waterways protection
- Re-locatable or fixed installation
- Local or remote operation

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PERFORMANCE SPECIFICATIONS

- Radar frequency: Ku-band (NATO J-band)
- Instrumented range: 30 km
- Radar detection ranges:
  - Pedestrian 8 km
  - Small vehicle 15 km
  - Large vehicle 20 km
- Range/Azimuth accuracy: 5m / 0.3°
- Scan rates:
  - Panoramic up to 10 rpm
  - Sector 0 to 36°/s
- Minimum detection velocity: 0.5 m/s
- Temperature (Operational): -20° to +60°C
- Wind (Operational, with ground peg): 50 kts

SUBSYSTEM FEATURES

- Antenna: Slotted guide array
- Transmitter:
  - Type: Solid State
  - Output power: 5W
- Rotator: Geared belt-driven servo motor
- Signal/Data Processor:
  - Type: Doppler software signal processor
  - Target classification: µDoppler
  - Plot/Track capacity: > 500/scan
  - Track initiation: Manual or Automatic
- Data Interface: Ethernet
- Display: Ruggedized Tablet
- Display information:
  - Multi-chromatic Doppler
  - Plots
  - Tracks
  - Clutter maps
  - Target classification

PHYSICAL FEATURES

- Dimensions:
  - Radome: 550 mm (ø) x 350 mm (H)
- Weight:
  - Radar head: 20 kg
  - Tablet Display: 2 kg
- Power supply: 24V DC
- Power consumption: 240W

OPTIONS

- Wireless interface to user interface
- Power Supply options:
  - Generator
  - Batteries
  - Solar panels
  - Mains
- Wireless Data link to external C2 system (Asterix compliant)
- Interface to cue external optic system



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