

RSR 906

Air/Sea Surveillance Radar

SYSTEM DESCRIPTION

The RSR 906 continuous scanning surveillance radar is optimised for the simultaneous detection of both air and surface targets. The RSR 906 is a fully coherent, low cost, light-weight, Low Probability of Intercept (LPI) Frequency Modulated Continuous Wave (FMCW) radars.

FMCW provides a cost effective method to achieve coherent operation and the low transmitted power levels make the RSR 906 ideal for covert operations.

The low power levels also increase reliability and reduce component costs.

The antenna, transceiver and Power Amplifier are integrated into a single line-replaceable unit, which can be mounted on a mast or deployable frame.

The radar display is available for the local operator and can be easily integrated into control centres via suitable communication links.

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FEATURES

- Multi-function installation options
- Local and remote (via wire or wireless network) operation
- Data distribution to an area control centre
- Autonomous operation
- Geolocation and North alignment
- Asterix Interface

MODE OF OPERATION

Continuous Surveillance:

The unique architecture of the RSR 906 continuous scanning surveillance radars allows them to be optimised for both surface and air targets at the same time. This enables the RSR 906 to be deployed in littoral situations as well as on inland water areas and unmanned airfields, where it can serve in both air surveillance and surface surveillance roles.

TECHNICAL SPECIFICATIONS

- Frequency band: X-band
- Transmit power: 40 W
- Antenna size: 4 m
- Antenna tilt range: -7° to +7° (manually adjustable)
- Instrumented range:
  - 80 km/160 km (Mode dependent)
- Detection performance
  - Small light aircraft - 30 km
  - Large vessel - Radar horizon
- Scan rate
  - Continuous rotation: 10 RPM / 6 RPM
- Elevation coverage
  - 0 ft to 16 000 ft
- Range accuracy: 8 m
- Azimuth accuracy: 1°
- Power supply:
  - -230 VAC 50 Hz (User supplied)
- Power supply
  - Consumption <1 kW
- Weight
  - < 190 kg
- Temperature operational
  - -20°C to +55°C
- Humidity
  - 95%
- A universal mounting interface allows for various installation options
  - Mast mounted (lattice or extendable)
  - Building mounted (fixed)







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