

GR80



General

BATS GR80 is a fifth generation family of movement detection tactical Ground Surveillance Radars (GSR). The GR80 innovative design and its state-of-the-art technology deliver excellent performance in a small size, low-weight system.

Featuring a high update rate, the radar enables very high probability of target detection and tracking to support complex missions.

The GR80 is a solid-state, active electronically scanning phased array (AESA) multi-beam radar family operating under all weather conditions and providing high accuracy detection data, either locally or to remote Command and Control (C&C) systems.

Features

- Simultaneous multi-mode operation combining Staring and Scanning
- Programmable search regime
- Single Module Pulse Doppler Radar (SMPDR)
- Digital Beam Forming (DBF)
- Fully internal calibration with extensive BIT capabilities
- Flexible modular design to support different range and sector coverage
- 4 configurations:
 - 90° fixed, 180° fixed, 360° fixed, 360° Rotating
- 3 types of antenna
 - 5° – long range application
 - 10° – hard terrain
 - 30° – land and aerial applications
- Can be cascaded to increase detection range & angle accuracy
- Track-while-scan supporting up to 300 targets
- Automatic Recognition (ATR)
- Doppler Audio Signature
- Fast Update Rate (less than 1 sec)
- Independent operation or integrated with other surveillance systems and/or C&C
- Easily coupleable with E.O. for visual identification
- Local or remote operation
- High reliability due to non-moving parts
- Event recording
- Very quick and easy deployment
- Internal GPS

Detection

Pedestrians (RCS=0.5 m²) 8km
 Vehicules (RCS=5m²) : 15km
 Mini-Drone (RCS=0.01m²) : 2.5km
 Low Flying Airborne Targets
 Maritime Targets