Portable Multi-Mission Surveillance Radar
Ground Observer 80

- Long Range Ground & Coastal Surveillance
- Coast, Battlefield, Borders or High Value Assets/Camps
- Highest performance allowing reconnaissance under the most difficult conditions
- Portable for mobile or off-board vehicle operation
- Successor to proven BOR-A 550/560 family with > 400 systems worldwide in service
Operational advantages

- **Highest performance for critical missions**
  The ultimate performance of the GO80 enables missions under the most difficult conditions such as extreme weather, ECM or partial target obscuration by terrain/vegetation.

- **Flexible deployment**
  The GO80 can be operated off-board or integrated to masts/vehicles. All system units are maximum 2-men load allowing full portability. The system with sensor, tripod and notebook can be set-up in ≤ 5 min and operated by one man.

- **Digital Innovation for Battlefield Surveillance**
  The state-of-the-art HMI with mission centric focus and vast operator support features such as the mission planning and map import tools as well as the new Indirect Fire Adjustment mode (optional) redefine battlefield surveillance.

- **Highly reliable and field-proven**
  No scheduled maintenance.
  MTBF > 5,200 h (tactical/vehicle use). Fixed site MTBF typically 20,000 h.
  The BIT (built-in-test) extends down to SRU level. Easy replacement of faulty modules (‘plug-and play’) by fast accessibility and modular design.

Qualified and certified for worldwide use
Well suited to be operated in a wide range of climatic zones: Qualified according to MIL-STD-810 and MILSTD-461.

Service & support solutions

- **Thales support through the entire lifecycle**
  Keep your system operational and up-to-date through long term service & support solutions by Thales.

Features

- **Multiple modes**
  - Scan (Single and Multi-Sector)
  - Single Target Tracking

- **Fall-of-shot (option)**
  - ECCM including frequency agility
  - HMI according to latest ergonomic guidelines

- **State-of-the-art C4I interfaces (option)**

Key parameters

- **I/X-band for worldwide military use**
- **Coverage up to 40 or 80 km**
  - Range swaths of 80/40/20 km (high res.)
  - Continuous 360° scan (N x 360°)

- **Suited for very slow as well as fast targets**
  - 1.5 to 400 km/h radial speed

- **Detection ranges (Pd=90 %, Pfa=10-6)**
  - Person (0.5/1 m²): 23/27 km
  - Light vehicle (2 m²): 32 km
  - Vehicle (10/20 m²): 46/55 km
  - Seminrigid boat (1 m²): 27 km
  - Boat/Trawler (20 m²): 55 km
  - UAV (0.1 / 0.01 m²): 15/9 km
  - Helicopter (5 m²): 43 km
  - Impact 120mm (2.4 m²): 33 km