Most compact & light-weight
Ground Surveillance Radar
Ground Observer 12

Surveillance in all battlefield spaces
- Battlefield Recce/Indirect Fire
  Adjustment and Protection of
  Borders or High Value Assets/Camps
- True man-pack for dismounted or
  mobile operation
- Fully autonomous operation
  in the field
- Digital Innovation for Battlefield
  Surveillance
- More than 100 systems on
  5 continents incl. NATO countries

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Operational advantages

- **Designed for dismounted operation**
  Given the small size (‘briefcase’) and light weight (approx. 16 kg for the sensor), the man-pack configuration can be easily carried over long distances by two men. The system with sensor, tripod and notebook can be set-up in ≤ 5 min and operated by one man.

- **Fully autonomous operation**
  From two MOTS (2590-type) batteries GO12 can be supplied for up to 8h. Full autonomy is available with an optional solar energy kit. A GPS compass (optional) allows for automatic positioning and northing in the field.

- **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. Modern interfaces allowing quick integration of radar data into C4I systems.

- **Highly reliable and field-proven**
  No scheduled maintenance.
  MTBF > 7100 h (full pack, tactical field use).
  The built-in-test extends down to SRU level.
  Developed and produced in Germany.

- **Qualified and certified for worldwide use**
  Well suited to be operated in a wide range of climatic zones: Qualified according to MIL-STD-810G and MILSTD-46F. CE-certified.
  Qualified by NATO army.

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

- **Fall-of-shot (option)**

- **Track-While-Scan for slow and fast targets**

- **Automatic Target Classification in all modes**

- **ECCM including frequency agility**

- **HMI according to latest ergonomic guidelines**

- **State-of-the-art C41 interfaces (option)**

Key parameters

- **Ku-band allowing worldwide military use**

- **Coverage up to 27 km**
  - Range swaths of 25.6 km or 12.8 km (high res.)
  - Low minimum range (50 m)
  - > 360° azimuth

- **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 (1/0.5 m²): 12/10 km
  - Light vehicle (2 m²): 14 km
  - Vehicle (10/50 m²): 20/27 km
  - Impact (120 mm): 14 km
  - Helicopter (5 m²): 19 km
  - Semi-rigid boat (1 m²): 12 km
  - UAV (0.1 / 0.01 m²): 7/4 km