SQUIRE is a man-portable surveillance radar providing premium situational awareness in battlefield-, border-, coastal- and site-surveillance applications.

Advanced features and high-end performance make SQUIRE the equipment of choice for armed forces and high-end security solutions around the world.

With more than 400 systems in use or on order, Thales offers proven capability in man-portable, vehicle-mounted and fixed-location applications worldwide.
KEY BENEFITS

• Up to 360° intuitive situational awareness

• **Panoramic infrared view** for close-range situational awareness and intuitive operation

• Detection and classification of moving targets up to an instrumented range of 48 km

• **Virtually undetectable** (True LPI)

• 24h continuous operation with the lightweight man-portable set

• Low-level air surveillance for detection of mini-UAV and slow moving aircraft (< 360 km/h)

• **Very low false alarm rate** thanks to advanced Doppler processing and high radar sensitivity

• Low lifecycle cost and high availability because of the extremely high Mean Time Between Failure (>20,000 hrs).

• **Worry-free operations** thanks to a well thought-out scalable service offer.

FEATURES

• Integrated Infrared (IR) panoramic view

• I/J band FMCW Radar

• Intuitive man-machine interface

• Automatic and manual Doppler target classification

• Track While Scan

• Day and night, all-weather capability

• Threat warning via alarm zones

• Fire adjustment for artillery and mortar firing units

• Fast deployment and march-order

• Sea mode (sea clutter filtering)

• TCP/IP network operation

KEY PARAMETERS

**SQUIRE**

**Man-Portable Surveillance Radar**

**Instrumented range** 48 km

**Transmit power** 1 W max.

**Frequency band** I/J Band, FMCW

**Typical Detection Ranges**

- mini-UAV (0.01 m²) 6 km
- Person (0.5 m²) / (1m²) 11 km / 13 km
- Helicopter (5 m²) 19 km
- Vehicle (110 m²) 22 km
- Main Battle tank (50 m²) 33 km

**Accuracy**

- Azimuth ≤ 5 mils
- Range (at 3 km range setting) ≤ 5 m

**Max. number of tracks** 1000 tracks

**Integrated IR camera** 640x512 uncooled infrared

**Weight Radar Sensor** 18 kg

**System Power Input** (at 24V DC) Typical 50 W