

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.



SQUIRE

Man-Portable Surveillance Radar





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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

Instrumented range	48 km
Transmit power	1 W max.
Frequency band	I/J Band, FMCW
Typical Detection Ranges	
• mini-UAV (0.01 m ²)	6 km
• Person (0.5 m ²) / (1m ²)	11 km / 13 km
• Helicopter (5 m ²)	19 km
• Vehicle (10 m ²)	22 km
• Main Battle tank (50 m ²)	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



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