



SQUIRE
Man-Portable
Surveillance Radar

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Description

SQUIRE is a man-portable battlefield surveillance radar enabling detection and classification of moving ground targets up to 24 km. Additionally, it assists artillery and mortar firing units by giving feedback on shell impacts.

Deployment of troops under all circumstances demands a system that is easily transportable, not only by vehicles, but also by man. To enable this, SQUIRE is designed to be of lowest weight and portable in two handy backpacks.

The low peak power makes the system virtually undetectable by other troops. Even sophisticated devices will not detect SQUIRE, before it has detected them. This early information about the opponents' activities provides the SQUIRE unit with a clear tactical advantage.

Besides battlefield surveillance purposes, SQUIRE can also be deployed in peace-time to safeguard valuable areas and targets such as oil fields, power stations and other important potential targets for terrorist or criminal acts. In addition, SQUIRE is suited for assisting in counter-drug operations and control of border intrusion.



The use of reliable components like the solid state transceiver, results in an extremely high Mean Time Between Failure [MTBF>6000hr]. This, combined with extensive use of "Commercial of the Shelf" components, ensures that the Life Cycle Cost of SQUIRE is significantly lower than that of comparable systems now in use.



Features

- Surveillance up to 24km
- User-friendly Man Machine Interface
- Separation of radar unit and operator unit up to 100m
- Extremely low peak power
- Practically undetectable for ESM equipment
- Low weight
- Man portable
- Very Low Life Cycle Cost
- Human safety due to low output power
- Extreme high reliability

Key Parameters

- Typical ranges (single scan at 7°/s)
 - Pedestrian: 10km
 - Vehicle: 21km
 - Tank: 28km*
 - Helicopter: 21km
 - Boat: 12km
 - Vessel: 48km*
- *outside standard instrumented range 24km [optionally 48km]
- Accuracy
 - azimuth: ± 5mils
 - range (at 3km range setting): ± 2,5m
- I-J Band,
Frequency Modulated Continuous Wave Doppler Radar
- Environmental Conditions



- Weight
 - Radar Sensor 17kg
 - Operator Unit 6kg
- System Power Input (at 24V DC)
 - Typical (equals max.) 80W

THALES

LAND & JOINT SYSTEMS

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