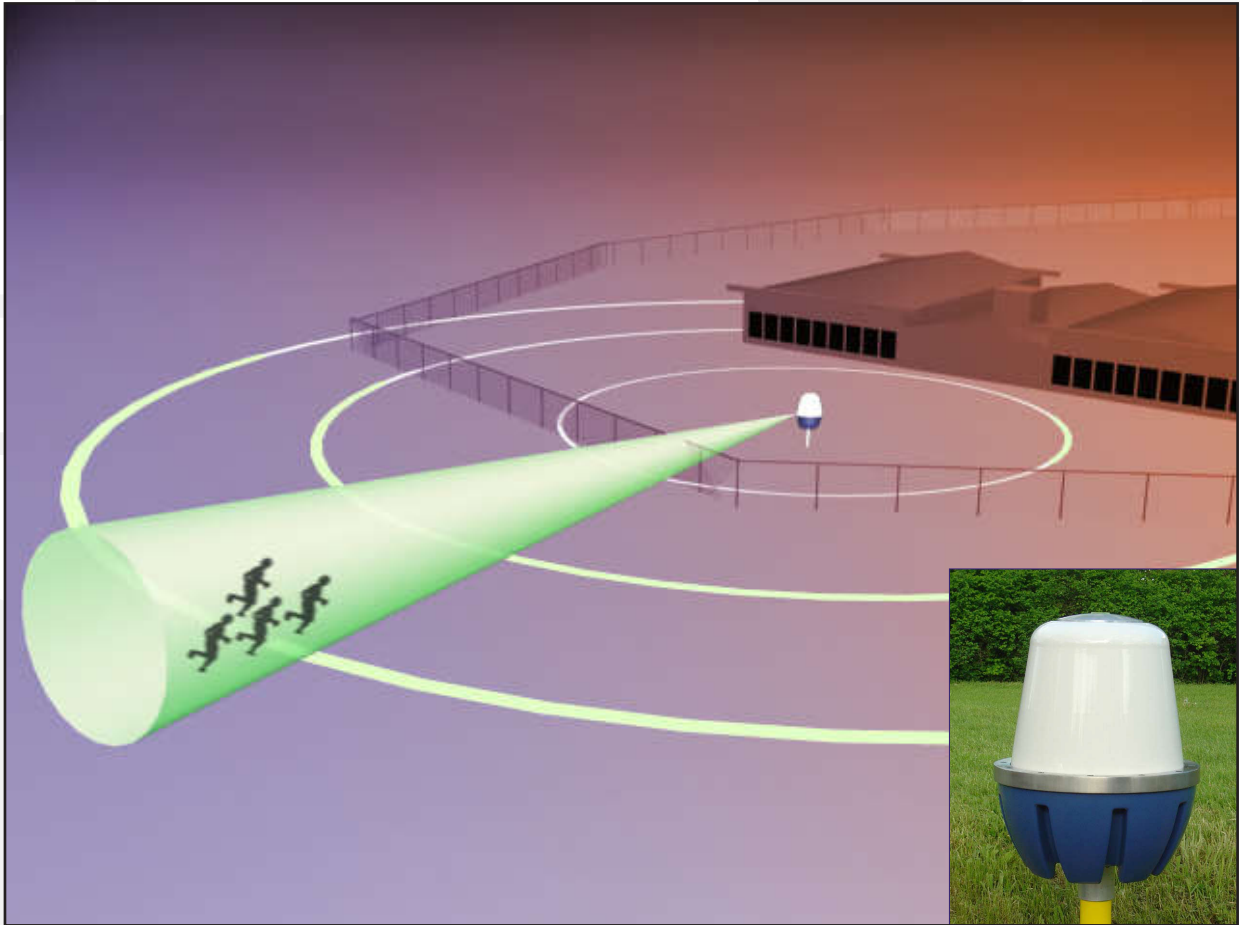


W500 Surveillance Radar



The Navtech W500 Surveillance Radar provides automatic perimeter security for large open spaces. The sensor detects moving or stationary objects appearing anywhere within a range of 10m up to 800m in all weather conditions and light levels.

The Navtech W500 is a high performance 77GHz Millimetre Wave FMCW radar designed for continuous use in harsh environments. The system is extremely rugged with built-in self-test, condition monitoring and calibration.

The radar system constantly scans 360° up to 800m once a second. The radar fills a volume of space in which detection data is processed every 25cm from the sensor out to the 800m instrumented range. Intelligent assessment of the intruder threat is then provided by Navtech NS3-CT software.

Network Enabled Surveillance Radar

Multiple radar systems can be networked together to provide complete coverage of expansive sites. Using the Navtech NS3 Site Security System and Navtech W500 radar, a complete multi-sensor intruder detection system can be realised.

Key Benefits

- Compact, low cost radar surveillance
- Effective in all weather and light conditions
- High range and azimuth resolution for excellent object detection
- Continuous tracking of target allows intelligent assessment of intruder threat
- Built-in self-test, condition monitoring and calibration
- Available for temporary or permanent installation
- Low radiated power
- 360° coverage
- Single unit covers up to 1.6km diameter
- Enhanced site security
- Low cost and rapid installation
- Battery operation optional
- Ethernet interface



Technical Specifications

Radar	W500	W800-H
Max range	800m	800m
Range resolution	0.25m	0.25m
Detect/track man walking	10-500m line-of-sight	10-800m line-of-sight
Detect/track man running	10-450m	10-700m
Detect person crawling (hands and knees)	10-300m	10-460m
Detect person crawling (low profile)	10-175m	10-280m
Scanner field of view	360°	360°
Scan speed	1.0 Hz	1.0 Hz
Interfaces	100 MB Ethernet	100 MB Ethernet
Supply voltage	+24V nominal (12-36v)	+24V nominal (12-36v)
Power consumption	22W	22W
Environmental	IP67, NEMA-4X	IP67, NEMA-4X
Temperature	-20 to 60°C	-20 to 60°C

About Navtech Radar

Navtech Radar is an innovative British company founded in 1999 by a team of engineers with over sixteen years experience in the specialist field of millimetre wave radar. Navtech Radar is dedicated to providing cost effective radar solutions for a wide range of critical commercial applications.