AdvanceGuard®

Intelligent radar-based security solution

Radar detection solution for the most challenging security situations

✓ Configures to meet the most demanding security criteria

✓ Full situational awareness in all weathers and conditions

✓ Integrates seamlessly with existing systems

Safety is everything.

NAVTECH RADAR

AdvanceGuard secures critical infrastructure

Intelligent real-time threat detection

AdvanceGuard's high-definition, 360° radars detect every event, while its highly configurable rules-based software alerts operators only when it matters, ensuring high trust in the system.

Installed in over 80 critical infrastructure sites, where high performance in all conditions is essential, it is enhancing security around the world.

Airport Security

Airports represent a key target for intrusion and disruption. Maintaining safety and security, and detecting potential threats before they occur is a major concern for airports around the globe.

Military Sites

Military sites require rigorous 24/7 surveillance. Not only to detect access to unauthorised areas, but also to detect intrusion with the purpose of theft and damage.

Energy Generation Sites

Protection of energy generation sites is a top priority for state organisations and can be challenging due to the large and complex nature of the sites.

Ports and Harbours

The lack of physical barriers at ports and harbours excludes the use of many traditional security technologies. AdvanceGuard provides an ideal solution to these applications.
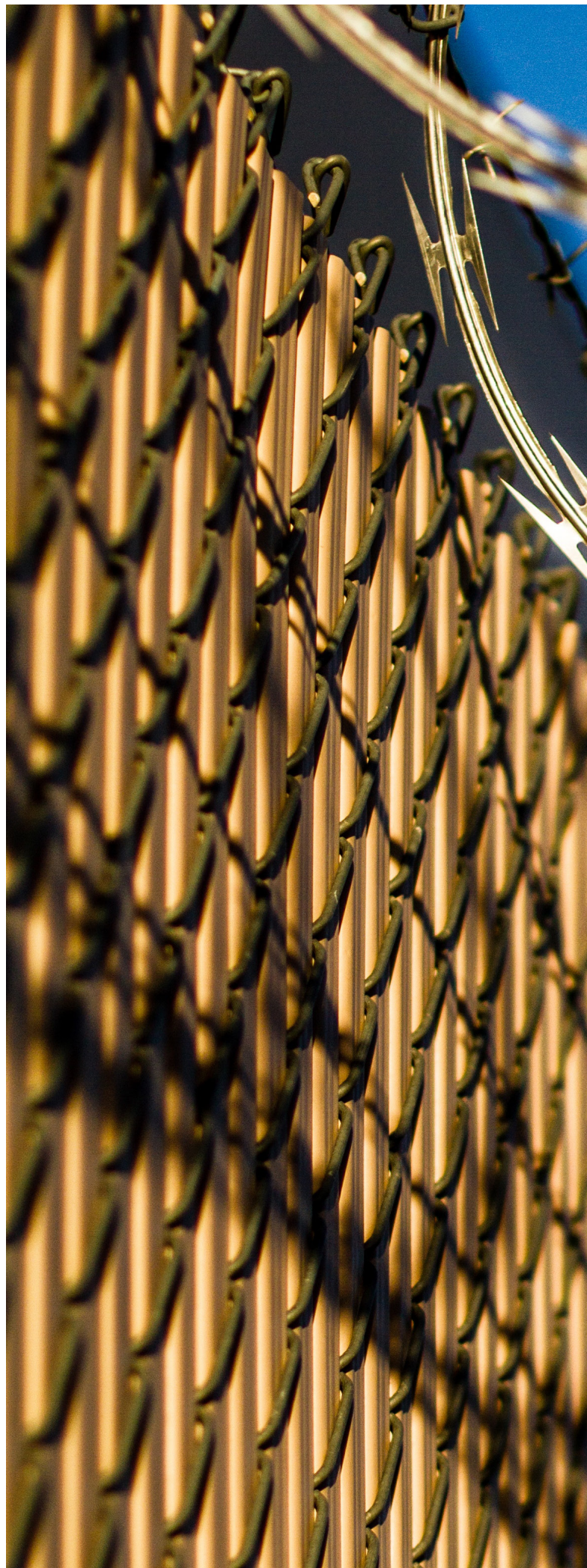
Other applications

AdvanceGuard has also been installed in Nuclear Power Stations, Oil and Gas sites, Solar Farms, Data Centres, Prisons and other critical national infrastructures.

47+
Airport installations

80+
Security sites installations

Delivers full situational awareness

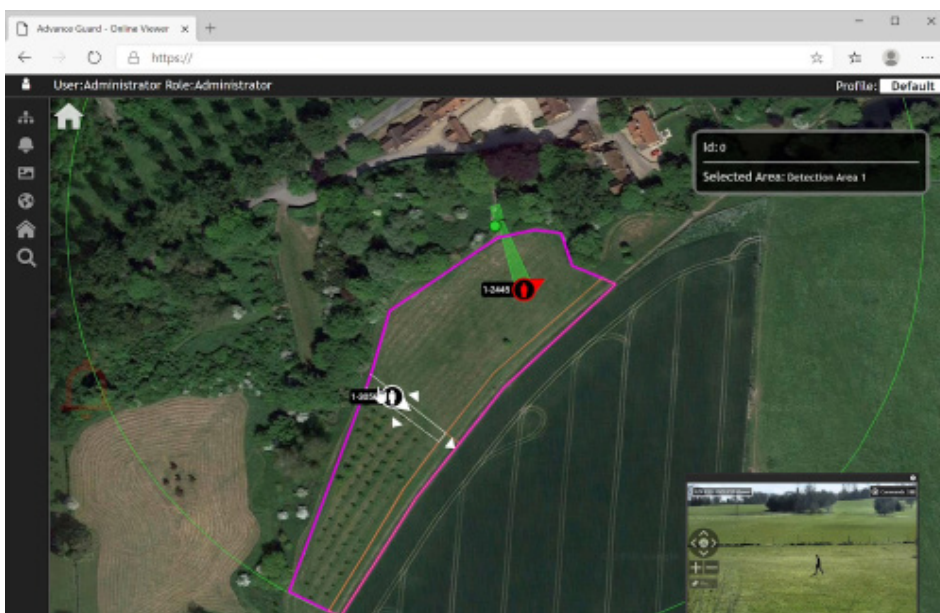*Accurate real-time threat detection and tracking*

Industry-leading accuracy and low false alarm rate

The combination of Navtech's high-definition radar technology and smart software detects and tracks intruders in real-time, while automatically directing your cameras to give you visual information. It creates a system that provides operators with the information they need to quickly verify alarms, respond accurately to events, and analyse historical data.

Our radar-based solution detects in all-weather and environmental conditions. Intelligent rules-based software and virtual alarms zones allow you to precisely define what activity will trigger an alarm in the different areas of your site. Together, the result is industry-leading low false alarm rates, saving operator time and ensuring high trust in the system.

Features such as 'Friend or Foe', and our ADS-B integration, provide a high level of information enabling you to protect critical parts, whilst allowing authorised movement .

✓ **Full situational awareness**
Pinpoint and track intruders in real-time on the user-friendly interface

✓ **All-weather performance**
Know what's going on in any environment, in any weather, with accurate detection in all conditions

✓ **Exceptionally low false alarm rate**
Save operator time with AdvanceGuard's fully automated operation and industry-leading low false alarm rate

✓ **Cost-effective coverage**
Achieve wide-area surveillance with the minimum of sensors reducing infrastructure costs

✓ **No need for physical barriers**
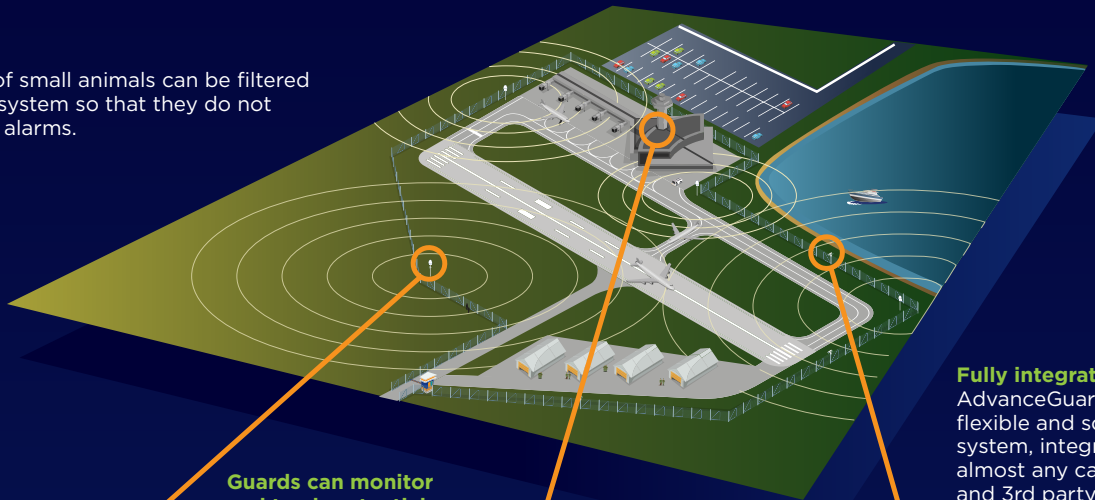Virtual alarm zones and features such as 'Friend or Foe' protect critical parts, no matter how complex your site

AdvanceGuard's user-friendly interface pinpoints intruders on an overhead map of the site.

AdvanceGuard is designed for optimum coverage
Sensors are available in a variety of ranges up to 3,000m radius. Multiple sensors can be linked together to provide coverage of the entire site.

Wildlife
Detection of small animals can be filtered out by the system so that they do not cause false alarms.

Fully integrated solution
AdvanceGuard is a very flexible and scalable system, integrating with almost any camera, sensor and 3rd party system.

Guards can monitor and track potential intruders from a single location
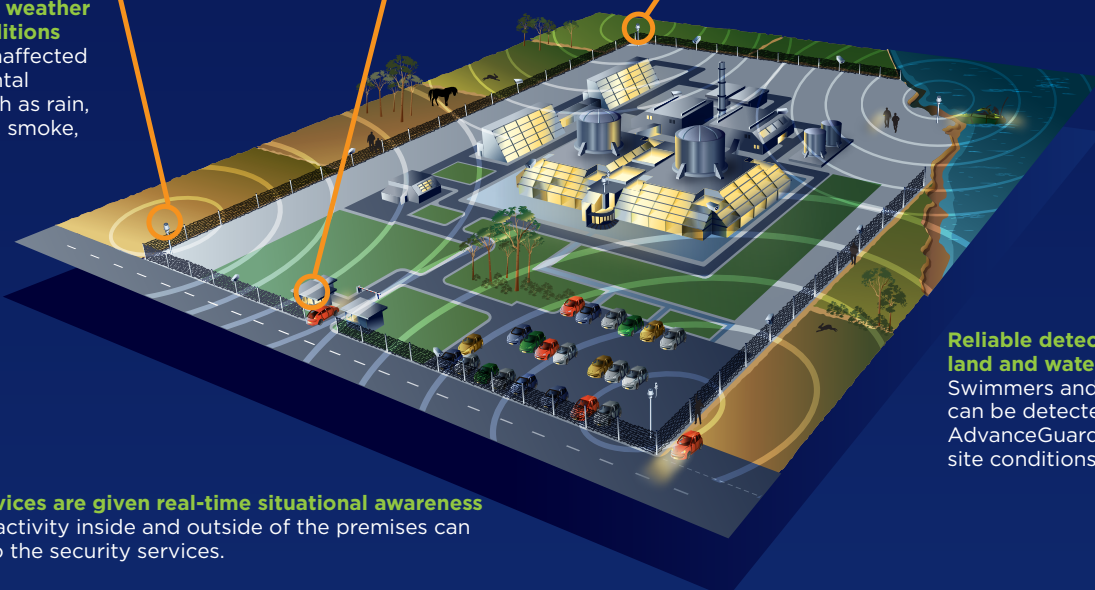This can also be viewed from a remote location if required.

Low false alarm rate
High-definition sensors and intelligent software track objects and analyse their behaviour, providing reliable detection.

AdvanceGuard directs the camera to focus in on an intruder
The radar directs the PTZ camera to where the intruder is detected. This provides continuous monitoring of any incident without requiring operator input.

AdvanceGuard is effective in all weather and light conditions
The radar is unaffected by environmental conditions such as rain, snow, sunlight, smoke, and fog.

Reliable detection over land and water
Swimmers and watercraft can be detected by AdvanceGuard subject to site conditions.

Security services are given real-time situational awareness
Images and activity inside and outside of the premises can be relayed to the security services.

AdvanceGuard Software

Sophisticated, scalable and easy to integrate

Intelligent threat analysis

AdvanceGuard's smart software and intuitive interface integrates seamlessly with other systems. Its rules-based criteria easily manage the most complex site providing fully automated people/vehicle detection and tracking with 'friend or foe' features and intelligent threat analysis.

- ✓ Supports a wide variety of cameras for automatic control
- ✓ Full redundancy with automatic failover
- ✓ Easily scalable to create a custom solution
- ✓ Supports single or multiple displays

Our software team can integrate AdvanceGuard with almost any ONVIF camera with positioning and most Video Management Systems and Security Management Systems. Please contact us to discuss your integration requirements.

38+
Camera integrations

8+
Supported Security/ Video Management Systems

Global provider of radar solutions

High performance in all conditions

Designed From Experience

Navtech Radar has been manufacturing and delivering high-performance, radar-based solutions for complex applications since 1999. We have the experience to produce and deliver a system to meet your requirements, however complex.

AdvanceGuard has been deployed in over 36 airports around the globe and over 80 security projects. Its low false alarm rate and accurate tracking mean operators place a high degree of trust in the system.

Quality Standards

We are a British, award-winning designer and manufacturer of commercially deployed radar detection solutions. Our innovative technology is created at our own ISO 9001 certified facilities in the UK, to ensure the highest standards of quality.

Our patented products are used in the intelligent transport systems, security and industrial automation markets, where high performance in all conditions is essential.

Support and Maintenance

Our Experienced Team is Here to Help

At Navtech Radar we believe in building a strong relationship with our customers. Wherever your installation is in the world, our customer support team can connect to it and provide remote technical assistance.

For complete peace of mind, we offer the NavCover+ support plan and a maintenance contract for up to 10 years. NavCover+ is a supplement to the service and product support you receive from your local authorised integrator. To get you started, the plan is included for the first year from the date of delivery.

Low Cost of Ownership

The system only needs servicing once every 3 to 5 years. No cleaning is required and once commissioned, the system does not require any further recalibration. Sensors can be mounted on existing infrastructure, requiring low voltage power and a reliable high-speed network.

Next Steps

The journey begins with a demonstration. This could be at your site, using our mobile demonstration technology, or online. We also have a demonstration facility in the UK where you can see AdvanceGuard operating in a busy airfield environment. During the demonstration, we show you the full capabilities of the AdvanceGuard high-definition security solution.

Following the demonstration, we provide an illustration of how AdvanceGuard could be implemented for your specific project.

We have a track record of success and are always pleased to provide references and testimonials from our customers.

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Why our Customers Trust AdvanceGuard

✓ **Guaranteed performance**
We guarantee the performance of any project designed by us following a site survey

✓ **Easy integration**
AdvanceGuard integrates seamlessly with existing systems

✓ **Unrivalled radar technology**
Our patented, high-definition radars accurately detect in all conditions

✓ **Comprehensive support**
We offer end-to-end service and support

View our technical specifications

Scan QR code or visit https://navtechradar.com/advanceguard-technical-specifications/