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**AdvanceGuard**

**OVERVIEW**

From small sites to large complex compounds, the AdvanceGuard high definition radar security system from Navtech Radar, provides the most comprehensive security solution available. It is ideal for applications such as airports, critical national infrastructure and commercial installations.

The system detects, tracks and identifies threats. By detecting beyond the perimeter, it can identify intruders before they can enter the site and cause any damage. AdvanceGuard is an effective alternative to high cost manned guarding and provides a reliable, cost effective solution that delivers continuous automatic surveillance.

**HIGH DEFINITION RADAR**

AdvanceGuard's high definition radars provide clarity between objects, allowing differentiation between two targets that are close together.

This is important to determine whether a target is an animal, a person, or a vehicle and to identify if the target is moving close to a fixed object.

AdvanceGuard is able to separate objects that are just 25cm apart. A lower definition security radar may struggle to distinguish between objects many metres apart.

**UNAFFECTED BY POOR WEATHER OR LIGHTING CONDITIONS**

As with camera images, higher definition technology enables easier identification of objects.

**COMPLETE COVERAGE**

AdvanceGuard’s distributed architecture allows sensors to be placed anywhere. This ensures that even the most obscured areas are covered.

Matching the range of the sensor to the line of sight, enables complete coverage that is cost effective and fault tolerant.

**ACCUTRACK TECHNOLOGY**

AdvanceGuard completes a full 360° scan several times a second. During each scan every object is accurately positioned and displayed to the operator. The sophisticated tracking algorithms, follow the movement of each object to provide speed and direction information. The combination of high definition radar sensors and advanced real-time statistical processing gives AdvanceGuard the ability to more accurately detect, track and identify objects than traditional low frequency radars. We call this Accutrack technology.
**Automatic Detection and Camera Control**

**AN INTEGRATED SYSTEM**

AdvanceGuard is a highly intelligent security system that provides continuous automatic surveillance of large areas, both within and outside perimeter fences. The security surveillance system combines high definition radar technology, integrated software and CCTV to provide unsurpassed threat detection and situational awareness. AdvanceGuard is robust, durable and deployable in extreme environments.

AdvanceGuard's flexible choice of sensor, results in far less infrastructure and maintenance costs than alternative technologies such as cameras and video analytics. This leads to both economic and environmental benefits.

**flexible solutions for your security needs**

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**AdvanceGuard**

- **High Definition Radar**
- **Detection of small animals can be filtered out.**
- **Guards can monitor and track potential intruders.**
- **Images and activity inside and outside of the premises can be relayed to the security services.**
- **AdvanceGuard can be mounted at an elevated position.**
- **The radar directs the PTZ camera where to focus.**
- **AdvanceGuard can be installed in any location.**

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**HDR100 Series**

- **Detection of small animals can be filtered out.**
- **AdvanceGuard directs the camera to focus in on an intruder.**

**HDR200 Series**

- **The radar is effective over land and water.**
- **AdvanceGuard can be installed in any location.**

**HDR300 Series**

- **The radar is unaffected by environmental conditions.**
- **AdvanceGuard can be installed in any location.**

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**SOLUTION FEATURES**

- **EASE OF USE**
- **REAL-TIME TRACKING**
- **LOW FALSE ALARM RATES**
- **ACCUTRACK TECHNOLOGY**
- **RECALL OF TRACK HISTORY**
- **AUTOMATIC 24/7 OPERATION**
- **SCALABLE AND CONFIGURABLE**
- **BEYOND THE PERIMETER DETECTION**
- **COMPLETE SITUATIONAL AWARENESS**

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**SENSOR COVERAGE**

- **0.1km²**
- **2km²**
- **30km²**

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**CAMOUFLAGE OPTIONS**

The sight of a high technology security system can be a deterrent in itself. However some installations prefer to hide theirs. For these types of applications, Navtech sensors can be camouflaged using a wide variety of coatings.
A System you can Trust

DESIGNED FROM EXPERIENCE

With 17 years of designing, manufacturing and delivering high definition radar solutions, Navtech Radar have the experience to produce and install a system that is best suited to your needs. AdvanceGuard will accurately track objects, generate alarms and direct cameras with a supported lifetime of, at least, 10 years. The low false alarm rate and reliability of the system, generates a high degree of trust from operators. Routine cleaning and maintenance is unnecessary and with a service interval of 5 years, the system has a very low cost of ownership.

NavCover+

OUR EXPERIENCED TEAM ARE HERE TO HELP

Navtech Radar believe in creating a strong relationship with our customers. Wherever your installation is in the world, the customer support centre can connect to it over the internet to help identify potential issues. 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. The plan is included for one year from the date of delivery.

10 YEARS SUPPORT

17 years of experience installations in 40 countries

QUALITY STANDARDS

Navtech Radar is 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 utilised across many industry sectors, from Security Surveillance and Industrial Automation to Traffic Incident Detection. Navtech Radar have installed radars for 17 years in over 40 countries for a multitude of applications; from airports and large industrial sites, to property protection and specialised leisure activities.

5 YEARS MAINTENANCE

SOFTWARE INTEGRATION

The AdvanceGuard software has been designed and created by our own award winning design team. It can be easily integrated with other systems via a simple XML interface.

SAFETY

Very low power emissions allowing the sensor to be placed in accessible areas.

OEM INTEGRATION

Our radars provide highly accurate positioning information in an easy to use format. This can be used to control other automated equipment. We are happy to discuss OEM opportunities to integrate Navtech technology into your products. Recent examples include autonomous vehicles, camera control, safety equipment for the rail industry and mining equipment.

RELIABILITY AND MAINTENANCE

No cleaning required
5 year service interval
Supported for at least 10 years

OUR CUSTOMERS ARE OUR FOCUS

Navtech Radar strives to ensure the best interests of our clients are served through the continuous pursuit of innovative technology and operational expertise. All of our business relationships with clients, suppliers and employees rest on a foundation of trust and honesty to ensure the best customer service possible. Navtech Radar’s vision, strategy, goals and values are the substance of our company.
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