

HF Over-The-Horizon Surface Wave Radar (HFSWR)

The BAE Systems Integrated System Technologies (Insyte) HFSWR is a new family of HF Over-The-Horizon radars designed for both civil and military applications. By utilising the HF surface wave propagation effect, we are able to provide unique low level target detection and tracking capability at extended ranges that are unavailable to conventional microwave systems.

For maritime situational awareness HFSWR is particularly effective when integrated with other sensor and identification systems.



Recent world events have confirmed the importance of effective Homeland Security and Exclusive Economic Zone (EEZ) management. HFSWR delivers a cost-effective solution for the complex task of wide area maritime surveillance.

Incorporating a number of technological innovations, an HFSWR system provides enhanced availability of accurate information with rapid updates, reducing the need for expensive air and sea patrols.

HFSWR can detect:

- Low-level, fast moving aircraft, helicopters and Unmanned Air Vehicles(UAVs)
- High-flying, fast moving aircraft, helicopters and Unmanned Air Vehicles(UAVs)
- Large and small surface vessels

HFSWR is capable of up to 120° azimuth coverage over long ranges. The modular design can be expanded to cover an entire national coastline, while its varied applications can encompass civil maritime surveillance, EEZ monitoring, low and high-level air defence, and co-ordination of civil assets.

HFSWR Options

Vessel Traffic Safety (VTS)

Acting in an EEZ role, establishing safe shipping lanes and monitoring vessel traffic out to and beyond the horizon.

Fisheries protection & management

Effective monitoring and policing of illegal fishing activities, regulation of licensed fishing activities within the EEZ area.

Homeland security

Policing of territorial waters against illegal immigration, drug running, piracy, anti-terrorism control, crisis management and search and rescue operations.

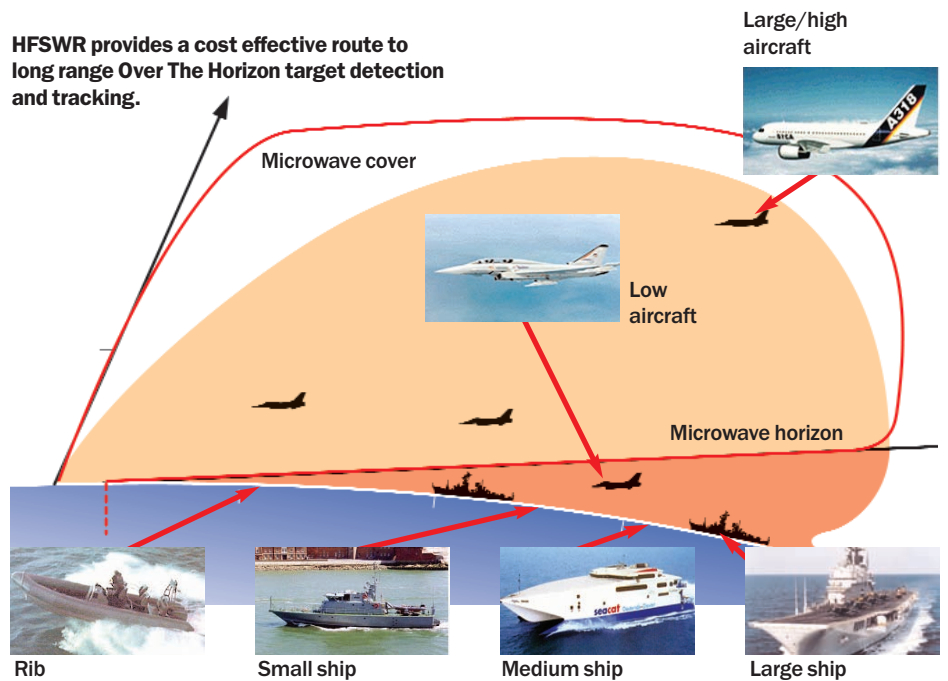
Security of offshore platforms and islands

Monitoring of activities around valuable offshore assets. Detection, guidance and co-ordination of surveillance and reconnaissance activities.

Military applications

Wide area detection and tracking of low-level and high-flying aircraft and surface vessel hostile targets beyond the horizon.

HFSWR provides a cost effective route to long range Over The Horizon target detection and tracking.



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