



High Performance Radar Systems for Offshore Protection

- High performance radar antennas for long range detection of small craft in all weather conditions
- Early detection of potential threats for maximum reaction / intercept times
- Enhanced security and protection of offshore assets as well as coastal infrastructure and facilities

easat

RADAR SYSTEMS

Easat was established in 1987 as a specialist independent company to design and build antennas and complete radar systems. Since then the company, a subsidiary of Goodwin PLC, has established itself as market leader in the manufacture of bespoke high-performance commercial radar antennas. Easat also supplies radar sensors for land-based surveillance installation engaged in the detection and identification of sea and air targets.

Easat products are in service in many part of the world - applications include: coastal surveillance for law enforcement and border protection; port approach and coastal traffic monitoring for coastguard services, port authorities and commercial organisations; offshore surveillance around sensitive facilities, notably oil and gas installations; air traffic monitoring and airport surface movement using permanent or transportable systems; military range safety.

Easat is able to provide complete solutions to include:

- Project management
- Site surveys
- Antenna tower design and manufacture
- Installations and commissioning services
- Control room displays
- Full integration with other security sensors to provide multi-layer surveillance systems
- Maintenance

Easat provides complete turn-key radar sensor systems for:

- Offshore oil and gas platforms
- FPSOs
- Inshore Facilities
- Oil and gas terminals



To monitor...

- Movement of water-borne threats, notably militants, pirates and potential hostage takers
- Search and rescue
- Drug control
- Security of sensitive installations



For all-weather detection of...

- Large vessels
- Rigid inflatable boats
- High-speed launches
- Low flying targets
- Fishing boats



Easat: market leader in production of cost-effective surveillance radars for long-range detection of small targets

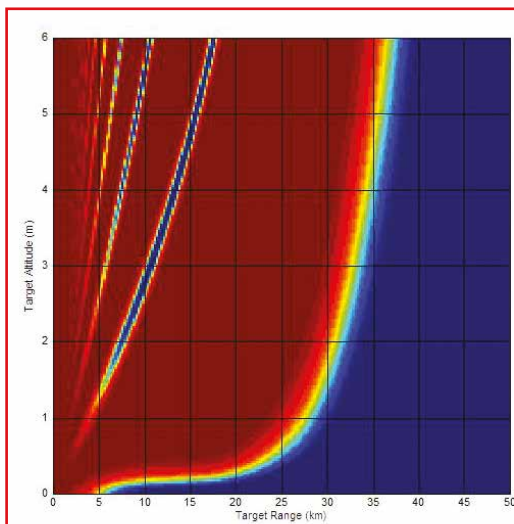
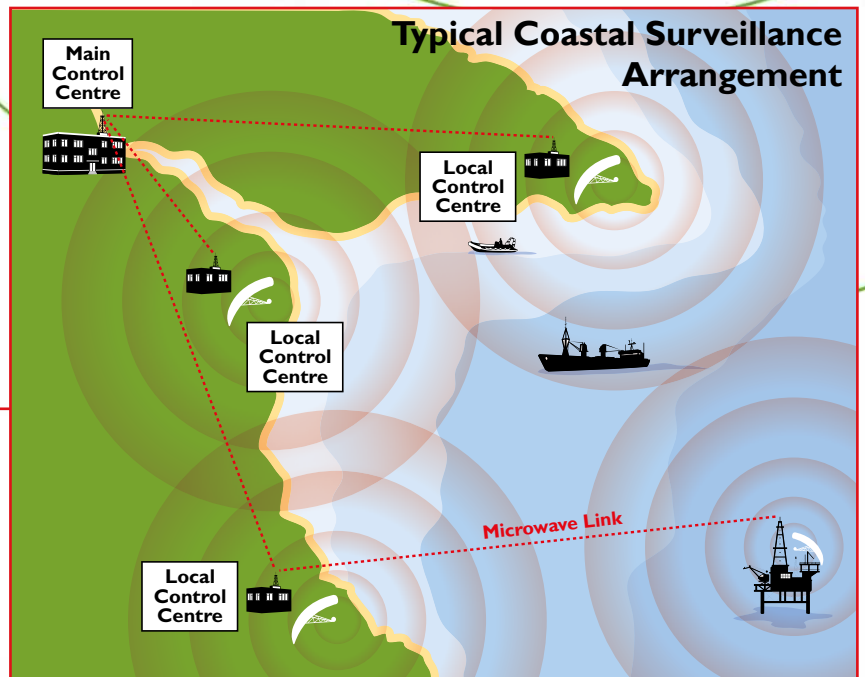
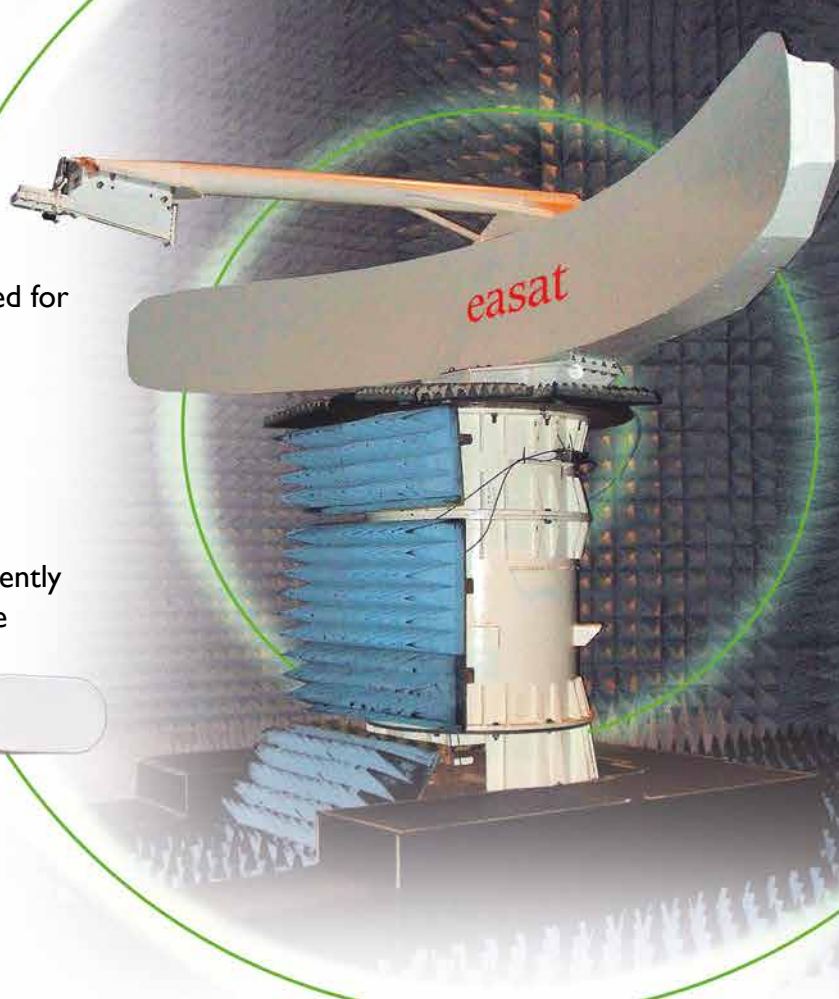
- Easat antennas offer superior performance to conventional marine radar antennas, detecting very small targets (in order of 1.0m² radar cross-section) at long ranges in all weather conditions.
 - To date, over 140 Easat radar systems have been installed in 32 countries worldwide.
 - Easat customers include defence agencies, port authorities, coastguard services, law enforcement agencies, oil and gas companies, national air traffic control authorities and airports.
 - Open architecture allows the Easat antenna range to be used with traditional magnetron or the latest advanced solid state transceivers, integrated into existing radar processing and tracking systems.
- Easat's design team includes highly qualified RF engineers, supported by experienced mechanical and structural specialist.
 - Easat Radar Systems can be linked to thermal imaging devices to achieve 'slew-to-cue' functionality, thereby increasing detailed situational awareness around key maritime and shore-based facilities.
 - Easat offer complete solutions to potential customers to include site survey, tower assembly design and integration with existing systems to ensure maximum cost effectiveness.
- existing radar processing and tracking systems.



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RADAR SYSTEMS

- Latest 3D computer modelling software is utilised for mechanical design and structural analysis
- Industry standard software is used to evaluate radar sensor parameters thus ensuring maximum performance
- Each antenna manufactured by Easat is independently RF tested to ensure full performance compliance



Center Frequency	8375 kHz
PRF	0.8 kHz
Peak Power	25 kW
Pulse Length	0.00 us
Inst. Bandwidth	1.2 kHz
Transmit Gain	40 dBi
Receive Gain	40 dBi
Target RCS	100 m ²
Sweeping Code	1
False Alarm Prob.	1e-004
Radar Height	83 m
Sea State	3
Doppler Processing	none
Pulse Bursts	3



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