



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



Market leader in production of cost-effective surveillance radars for long-range detection of small targets

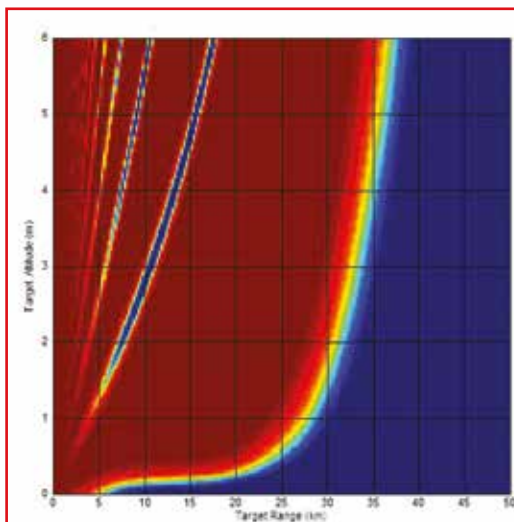
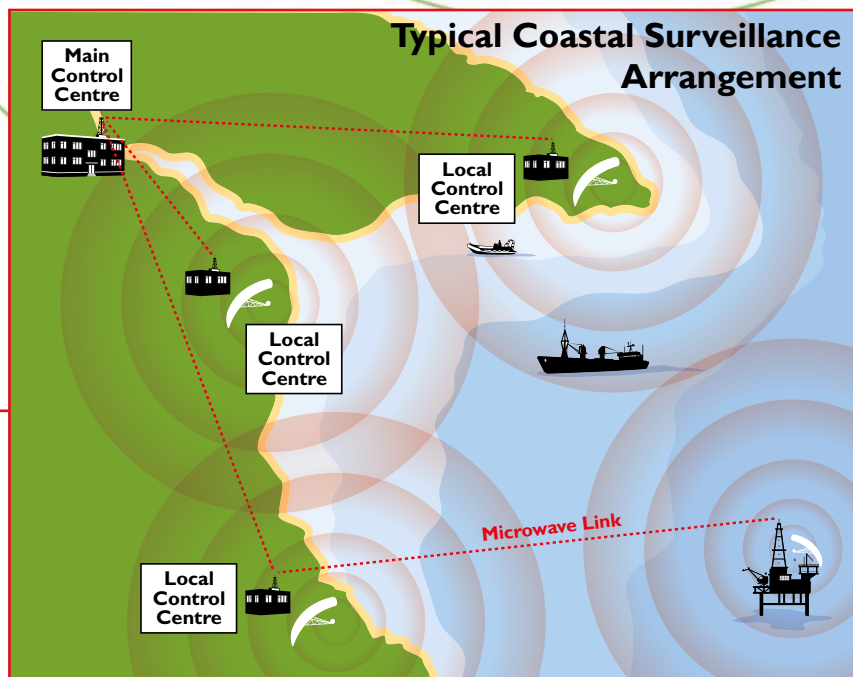
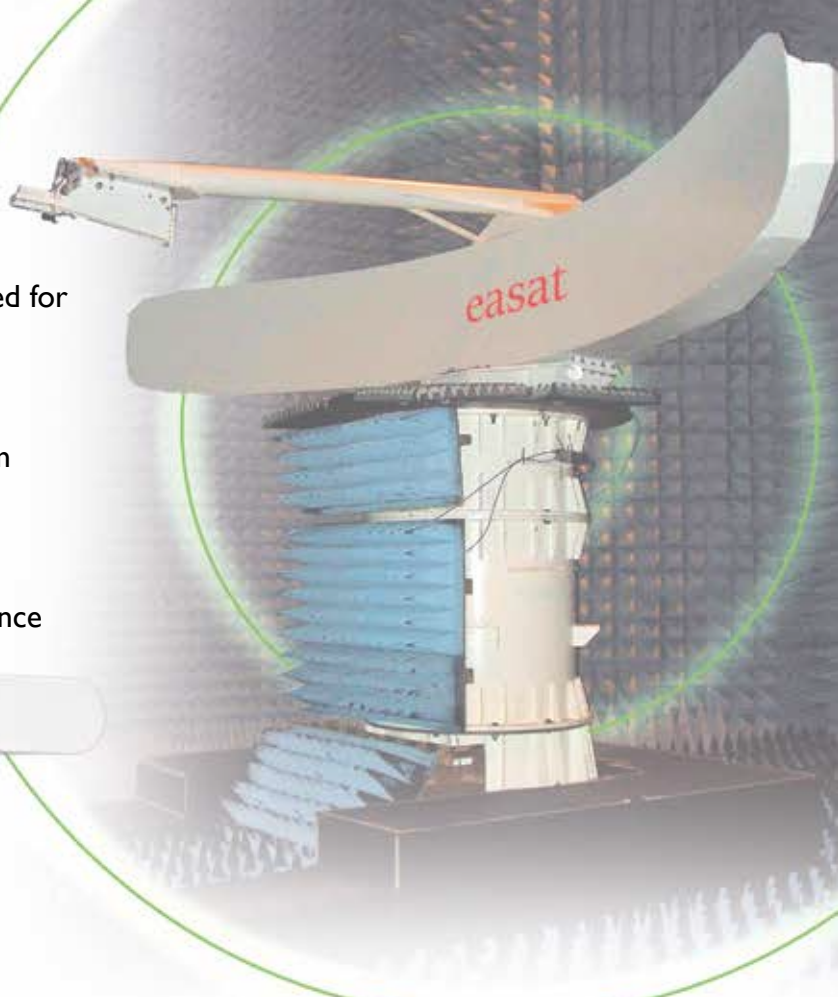
- Easat radar antennas offer superior performance to conventional marine radar antennas, detecting very small targets (in order of 1.0m² radar cross-section) at long ranges in all weather conditions.
- To date, over 140 Easat radar systems have been installed in 32 countries worldwide.
- Easat customers 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 radar antenna range to be used with traditional magnetron or the latest 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's 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 radar processing and tracking systems to ensure maximum cost effectiveness.



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- 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 radar antenna manufactured by Easat is independently RF tested to ensure full performance compliance



Center Frequency:	1075 MHz
ERP:	1.5 kW
Pulse Power:	25 kW
Pulse Length:	0.20 us
Max. Bandwidth:	1.3 MHz
Transmit Gain:	40 dB
Receive Gain:	40 dB
Target RCS:	100 m ²
Swearing Loss:	1
False Alarm Prob. (No.0):	10 ⁻⁶
Range Resoln:	50 m
Sea Clutter:	5
Display Processing:	1010
Pulse Bursts:	1

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RADAR SYSTEMS

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