easat®
RADAR SYSTEMS

"GAPFILLER" & "WIND FARM MITIGATION"

7.4M PRINTED LINEAR ARRAY COASTAL SURVEILLANCE RADAR SYSTEM

Offshore wind farms are becoming increasingly popular as a source of renewable energy. However, they can pose a risk to maritime sovereignty and safety if not properly monitored. Easat's offshore coastal radar systems are an effective solution for detecting and tracking vessels in the vicinity of wind farms and beyond.

Easat's offshore coastal radar system is purpose designed for wind farm mitigation, ensuring reliable detection and tracking of vessels in the area. With a range of up to 26 nautical miles in clear weather and ranges up to 24 nautical miles in rain and a high degree of accuracy, the system provides operators with real-time information on vessel position, speed, and direction of travel. The system is also equipped with advanced features such as automatic target tracking and alarm notifications, ensuring rapid response in the event of a potential threat. With our offshore coastal radar system, operators can ensure the safety of their installations and the vessels operating around them. As an option we can also provide differtiation between boats and low flying aircraft.

easat.com
info@easat.com

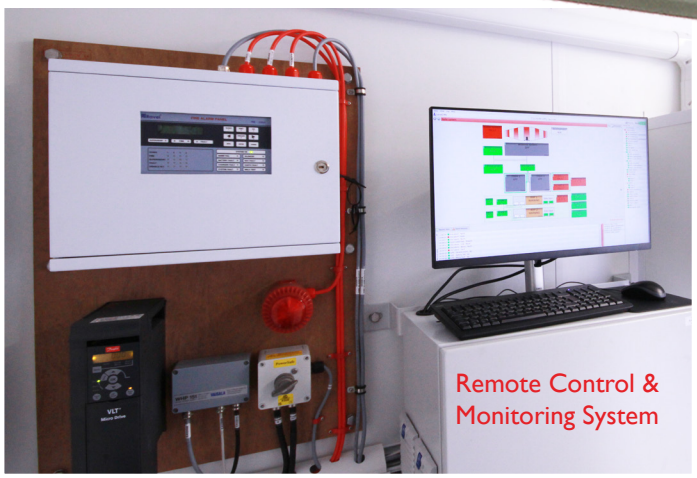
easat
RADAR SYSTEMS

Typical Range Performance

Antenna Elevation	IALA Target Type	Clear Weather (NM)	Rain 10mm/hr (NM)
20m Above Sea Level	1	6.0	5.2
	2	8.1	7.3
	3	9.6	8.8
	4	12.3	11.3
	5	14.9	13.7
50m Above Sea Level	1	10.0	8.7
	2	12.2	10.9
	3	14.2	12.9
	4	17.1	15.7
	5	20.0	18.3
100m Above Sea Level	1	12.8	10.7
	2	16.9	14.2
	3	19.4	16.9
	4	22.7	20.6
	5	25.7	23.5

- Target Separation:
  5.6m in Range & ≤ 0.43° in Azimuth
- Positional Accuracy:
  3.75m in Range & 0.09° in Azimuth
- No Beam-Squint with Frequency, increasing Positional Accuracy
- Circular Polarisation and Frequency Diversity for Superior Clutter Rejection from both the Sea Surface and Weather
- Inverse Cosec^2 Beam-Shape providing Excellent Near-in as well as Long-Range Coverage
- Sub 0.32° Azimuth Beam-Width achieving exceptional Target Separation and Reduced Clutter Returns
- Azimuth Sector Blanking and/or Power Reduction for Maximum Flexibility of Siting
- Low Wind Resistance
- Vessel Seperation between layman version

Antenna Control Unit



Remote Control & Monitoring System

Dual Redundant High Power 350W X-Trac Transceiver

EA7401M 7.4m Printed Linear Array

Fully Climate & Humidity Controlled

Fully sealed to protect from water ingress up to IP66