

Aerostat Early Warning System

> The ENA-2083 is an operationally proven tethered aerostat-borne, 3-D multiple beam, Doppler radar system providing accurate long-range early warning and air defense capabilities. Deployed at high altitude, the system's advanced Active Electronically Scanning Array (AESA), L-Band radar is able to detect and track multiple targets including aircraft, cruise missiles, loitering munition and other low flying threats, well beyond the range of ground based radars. The robust system offers persistent operation up to 30 days as well as low operating costs.

The system can be further enhanced with the addition of SIGINT sensors, IFF, and EO/IR improving classification, identification and target discrimination. Moreover, the system can act as a communication relay extending LOS communication networks. The complete solution is managed by a Command and Control center and can interface with other C4I systems.



MISSIONS



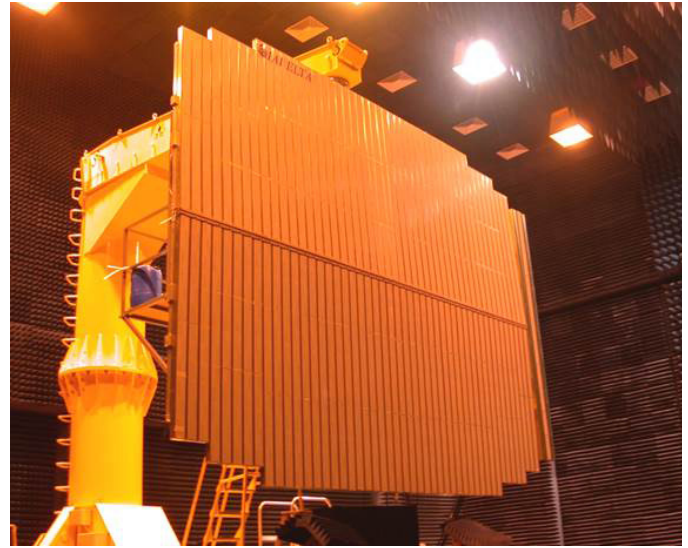
Air Defense



Airborne ISR

Features

- Automatic Track-While-Scan (TWS) of multiple targets
- Dedicated tracking beams
- High probability of detection by combination of mechanical rotation with electronic steering
- Low false alarms rate
- Excellent Doppler visibility
- Operation in heavy clutter and noisy environments
- High update rate enables continuous tracking of highly maneuvering targets
- High reliability, maintainability and availability
- Variety of interface options to C4I systems



Specifications

Description	Parameters
Detection range	Topographic LOS: 145 NM at 15k ft (4.6 km) elevation
Instrumented Range	200 NM
Angular accuracy	0.25°
Target update rate	5 sec. nominal
Coverage	360°
Tracking	Up to 500 targets
MTBCF	4,000 hrs
Transmit Radar Power	Peak 21.3 kW / Average 2.88 kW

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