

# AEROSTAT EARLY WARNING RADAR

ELM-2083

*Creating a Difference*



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The ELM-2083 is an operationally proven aerostat-borne solid state L-Band Active Electronically Scanning Array (AESA) radar system.

The radar provides long range early warning and airspace control.

The ELM-2083 system enhances any ground based air defense network with the advantages of elevated sensor.

The system incorporates IAI/ELTA's vast experience in surveillance radars and utilizes the company's state-of-the-art phased array technology.

Compared to other airborne early warning solutions, the system has low operation costs.

## Features

- 3D multibeam system implemented by AESA and Doppler measurement
- 12 rpm antenna rotation for fast update rate
- Automatic Track-While-Scan (TWS) of multiple targets
- High probability of detection by combination of mechanical rotation with electronic steering
- Low false alarms rate
- IFF system integrated
- Advanced signal processing for:
  - Operation in heavy clutter and noisy environments
  - Operation in dense environments
  - Superior detection of low flying targets
- High reliability, maintainability and availability
- Extensive Built-in-Test (BIT)
- Variety of interface options to C4I systems

## Specifications

Detection range for fighter aircraft:	in excess of 250 km (135 Nm)
Range accuracy:	50m
Angular accuracy:	0.25°
Target update rate:	5 sec. nominal
Coverage:	360° from ground up to 24,000 feet MSL
Tracking of:	up to 500 targets
IFF modes:	Mk XA modes 1,2,3/A and C (mode S optional)

