TACTICAL 3D AIR DEFENSE RADAR

ELM-2106 ATAR

Creating a Difference

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The ELM-2106 ATAR (Advanced Tactical Acquisition Radar) is ELTA's fourth generation 3D solid state L-band tactical air defense radar, designed to support air defense, early warning and traffic control missions. Featuring fully digital beam forming in elevation, the ELM-2106 ATAR provides accurate target 3D position, differentiates between aircraft and helicopters and classifies the helicopter type.
The radar is field proven (including in NATO), and can operate either as a stand-alone radar or as a part of a larger air defense and surveillance system.
The ELM-2106 ATAR system is capable of detecting a wide variety of low RCS targets such as low flying fighter aircraft, hovering helicopters, low velocity ultra-lights and UAVs.

Configurations

- Fixed, on the ground or on a tower
- Transportable
  - 20 ft ISO interface
  - Operator room, generator, antenna and hardware in a single container
  - Self-loading and offloading capability

Fixed Installation

Applications

- Search and fire control radar for surface-to-air weapon system
- Medium range air surveillance (up to 180Km)
- Gap filler for main air defense radar systems

Features

- Track While Scan (TWS) of over 100 targets
- Target differentiation and classification
- Integrated IFF (mode 4/5 optional)
- High MTBCF (2500 Hrs) and low MTTR (20 Minutes)
- Extensive ECCM capabilities
- Integration with C3 using standard protocol (ASTERIX)
- Cooling by natural heat convection

Mobile Configuration

Specifications

Detection range instrumental	180 km
Detection range for fighter aircraft	70-110 Km
Detection range for hovering helicopters	40 Km
Detection range for UAVs and Ultra Lights	40-60 Km
Range accuracy	30 meters
Azimuth accuracy	0.5°
Elevation accuracy	1°
Elevation coverage	60°

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