

AD-STAR

AIR DEFENSE AND AIR TRAFFIC CONTROL RADAR

■ ELM-2288



When Results Matter

Israel Aerospace Industries | ELTA Systems | market@elta.co.il | www.iai.co.il

AD-STAR - AIR DEFENSE & AIR TRAFFIC CONTROL RADAR

■ ELM-2288

When Results Matter

General

The AD-STAR ELM-2288 is an advanced 3D solid-state long-range S-Band family of transportable radars designed to support Air Defense, Early Warning and Traffic Control activities. Featuring fully digital beam forming in elevation (receiving and transmitting) the AD-STAR provides high accuracy 3D data on tracked targets, initiating automatic tracking based on preprogrammed targets parameters.

Including multiple transmitters and digital receivers, the AD-STAR ensures high redundancy, graceful degradation, high reliability and high availability. The radar system is integrate with a compatible IFF (SSR) antenna mounted on the primary antenna. The SSR performs cooperative detection, interrogation, decoding and tracking.

The AD-STAR antenna can be folded on its container roof to enable its transportation on standard roads, under bridges and inside a single C-130 Transport A/C.

The AD-STAR can operate as a stand-alone radar or as part of a larger Air Defense System.

Features

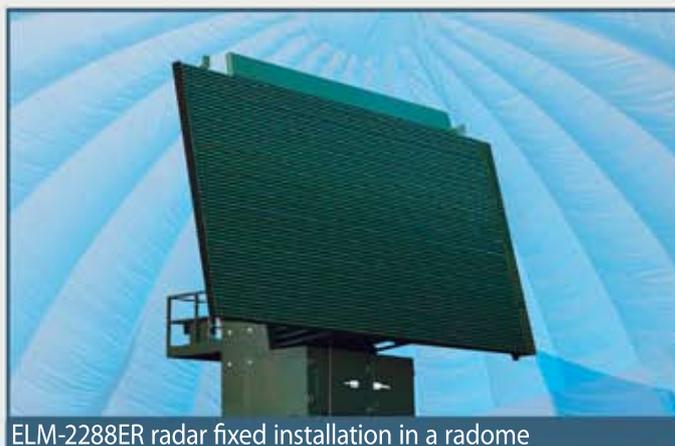
- Mobile, long-range Air-Defense radar
- Coherent Pulse-Doppler processing
- Fully digital beam forming in elevation (receive and transmit)
- Target classification
- Ballistic missile detection capability
- Advanced ECCM capabilities
- Local or remote operation
- Integrated IFF antenna
- Operation room, antenna and hardware in a single container
- Fast deployment and easy transportation

Configurations

- ELM-2288-MR – The Medium Range configuration, designed for rapid deployment, consists of a single container housing all of the equipment, including the foldable antenna on the shelter. The antenna consists of 32 row elements
- ELM-2288-ER – The Extended Range configuration is designed for deployment to fixed sites. The antenna consists of 60 row elements

Specifications

- Spatial coverage:
 - Instrumented range 480 km
 - Azimuth 360°
 - Elevation 30°
 - Height up to 100 Kft
- Typical fighter aircraft detection range:
 - ELM-2288 MR >300 km
 - ELM-2288 ER >430 km



ELM-2288ER radar fixed installation in a radome



ELM-2288MR radar



Israel Aerospace Industries
ELTA Systems
market@elta.co.il
www.iai.co.il