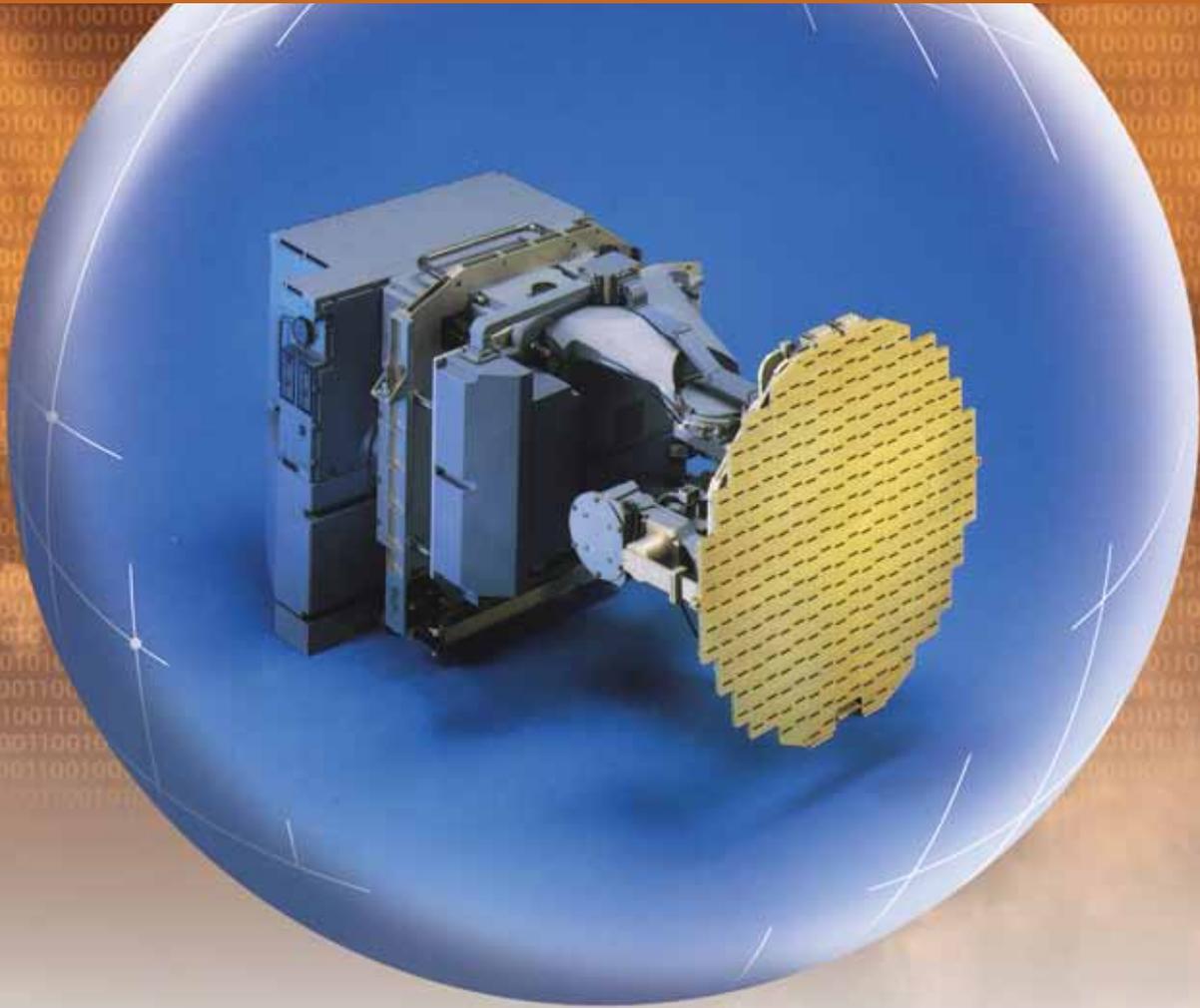


Multimode Airborne Fire Control Radar ■ ELM-2032



■ TARGET ACQUISITION & FIRE CONTROL

General

The ELM-2032 is an advanced Multimode Airborne Fire Control Radar designed for multimission fighters, oriented for both air-to-air and strike missions. Modular hardware design, software control and flexible avionic interfaces ensure that the radar can be installed in fighter aircraft (such as F-16, F-5, Mirage, F-4, Mig 21, etc.) and can be customized to meet specific user requirements. The ELM-2032 radar integrates ELTA's experience with real operational feedback from Israeli Air Force combat pilots.

The ELM-2032 greatly enhances the Air-to-Air, Air-to-Ground and Air-to-Sea capabilities of the aircraft. In the Air-to-Air modes, the radar enables long-range target detection and tracking for weapon delivery or automatic target acquisition in close combat engagements.

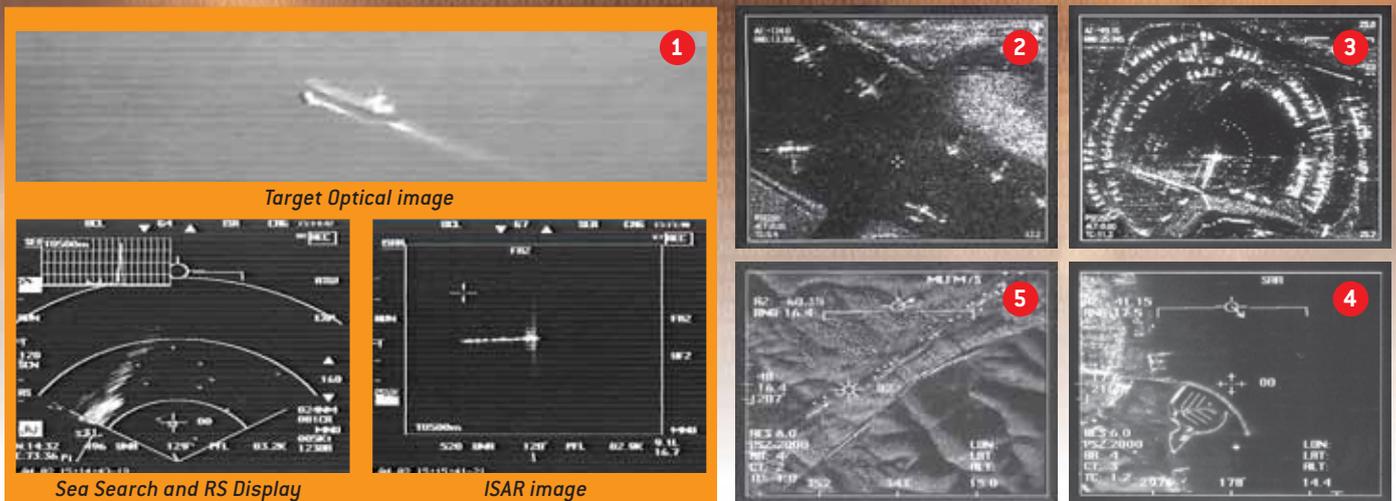
In Air-to-Ground missions, the radar provides very high-resolution mapping (SAR), surface target detection and tracking over RBM, DBS and SAR maps in addition to A/G ranging. In Air-to-Sea missions the radar provides long range target detection and tracking, including target classification capabilities (RS, ISAR).

Features

- Pulse Doppler, all aspect, look-down shoot-down capabilities
- TWT coherent transmitter
- Ultra low sidelobe planar antenna
- Two axes monopulse, guard channel
- Programmable signal processor
- Full software control
- Most advanced architecture, technology and components
- Adaptability and growth potential
 - MIL 1553B interface to avionic system
 - Modular hardware configuration
 - Spare memory space and computing power



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Performance

- Air-to-Air detection and tracking range up to 80 NM.
- Air-to-Ground mapping, High Resolution Mapping and surface target detection up to 80 NM.
- Air-to-Sea detection, tracking and classification up to 160 NM.

Physical Characteristics

Weight: 72-100 Kg depending on antenna size.
 Power: 2-3 KVA. depending on Transmitter configuration.
 Antenna Size: adapted to aircraft nose limitations.

Operational Modes

Air-to-Air

- Range While Search (RWS)
- Single Target Track (STT)
- Track While Scan (TWS)
- Situation Awareness Mode (SAM)
- Dual Target Track (DTT)
- Raid Assessment (RA)
- Air Combat Modes (ACM)
 - Vertical Scan
 - Slewable ACM
 - HUD ACM
 - Boresight
 - Adaptive Boresight

Air-to-Ground

- High resolution mapping (SAR mode) with Image tracking
- SMTI over RBM DBS or SAR
- SMTT over RBM DBS or SAR
- Real Beam Map (RBM)
- Doppler Beam Sharpening (DBS)
- Air-to-Ground Ranging (AGR)
- Beacon (BCN)
- Weather (WA)

Air-to-Sea

- Sea Search (SS)
- Sea Targets TWS
- Sea Target Continuous Track (STCT)
- Inverse SAR (ISAR) Sea target Classification
- Range Signature (RS) Sea target Classification

- 1 Air to sea detection and classification
- 2 Airfield SAR image
- 3 Armory Museum SAR image
- 4 Harbour SAR image
- 5 GMTI over SAR image

www.elta-iai.com

ISRAEL Tel: (972)8-857-2312/2410. Fax: (972)8-856-1872
 E-mail: market@elta.co.il

U.S.A. Tel: (703)875-3726. Fax: (703)875-3770

EUROPE Tel: (33)1-46.40.47.47. Fax: (33)1-46.40.47.48.

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