Active Electronic Scan Array Airborne Fire Control Radar ■ EL/M-2052

■ TARGET ACQUISITION & FIRE CONTROL

Air-to-Air Superiority & Advanced Strike Capabilities

General

The EL/M-2052 is an advanced AESA Airborne Fire Control Radar (FCR) designed for air-to-air superiority and advanced strike missions. The FCR is based on fully solid-state active phase array technology.
This new technology enables the radar to achieve a longer detection range, high mission reliability and a multi-target tracking capability of up to 64 targets.
The EL/M-2052 radar incorporates ELTA's decades of field-proven experience with real operational feedback from Israeli Air Force combat pilots.

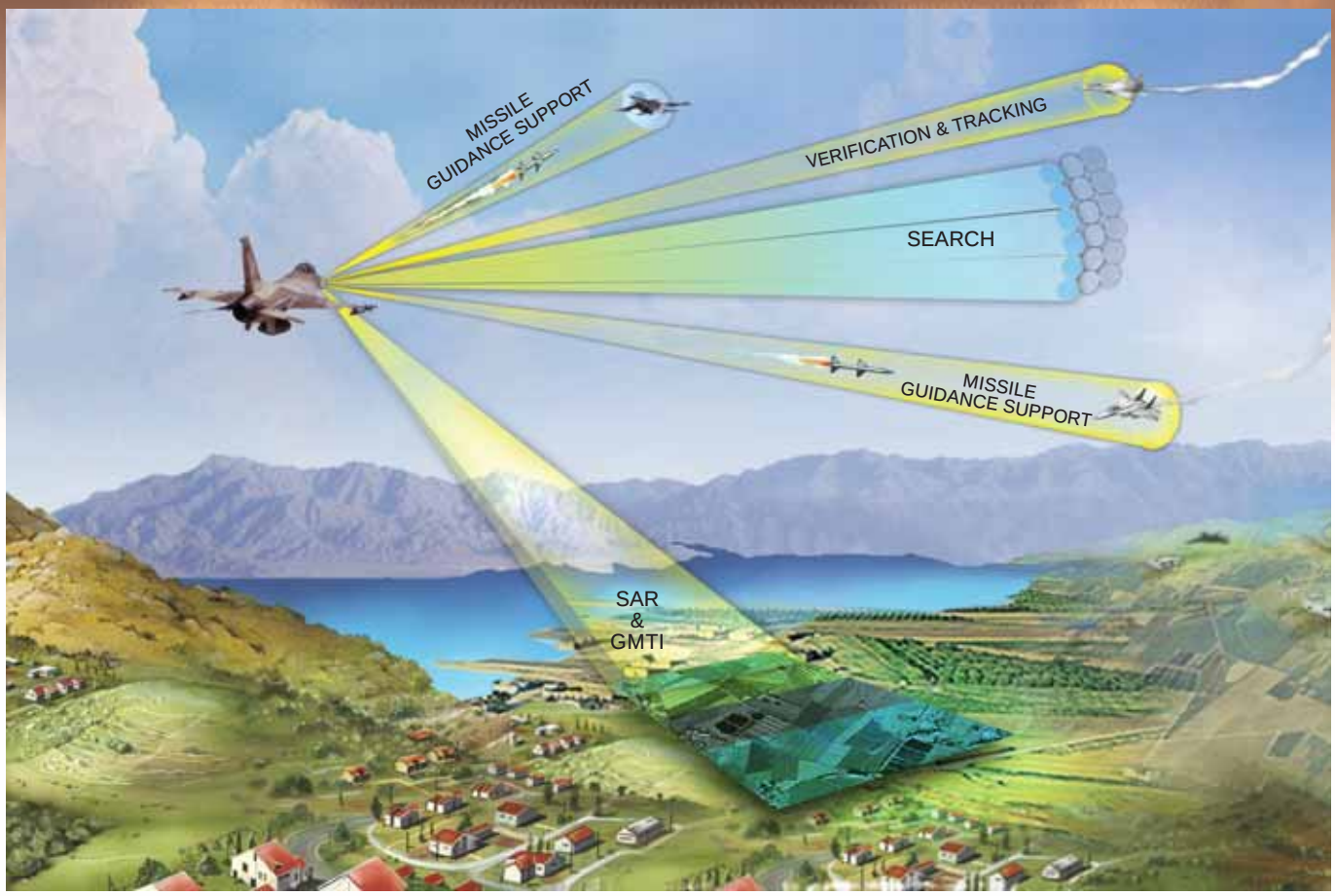
The EL/M-2052 radar introduces new dimensions to the Air-to-Air, Air-to-Ground and Air-to-Sea operation modes of the aircraft. In the Air-to-Air mode, the radar enables a very long-range multi targets detection and enables several simultaneous weapon deliveries in combat engagements. In Air-to-Ground missions, the radar provides very high-resolution mapping (SAR), surface moving 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
- Solid-State, Active Phased Array technology
- Simultaneous multi-targets tracking and engaging
- Simultaneous multi-mode operation
- High ECM immunity
- Ultra-low side-lobe antenna
- Two axes monopulse guard channel
- Flexible interfaces and growth potential:
  - Modular hardware and software
  - Spare memory and computing power
- High mission reliability (built-in redundancy)

IAI ELTA Systems Ltd.
Group & Subsidiary of ISRAEL AEROSPACE INDUSTRIES LTD.

Active Electronic Scan Array Airborne Fire Control Radar ■ EL/M-2052



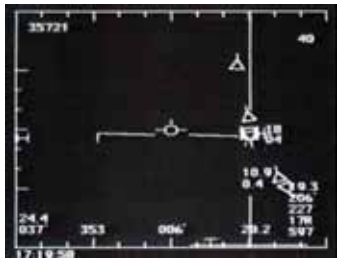
Operation Modes

Air-to-Air:	• Multi-target detection and tracking
	• Multi-target ACM
	• Weather
Air-to-Ground:	• High resolution mapping (SAR Mode)
	• AGR – Air-to-Ground Ranging
	• RBM – Real Beam Map
	• DBS – Doppler Beam Sharpening
	• GMTI on RBM, DBS, SAR
	• GMTT on RBM, DBS, SAR
	• Beacon
	• High resolution raid assessment
Air-to-Sea:	• Sea search and multi target tracking
	• RS and ISAR classification modes

*Additional modes per requirements

Physical Characteristic

- Antenna size : adapted to aircraft nose limitations
- Weight : 130-180 Kg. , depending on antenna size
- Power : 4-10 KVA. , depending on antenna size



Multi-target detection and tracking

GMTT over SAR image

ELTA Cat. No. 6185 MARCH-2009 (E)

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.

IAI ELTA Systems Ltd.
Group & Subsidiary of ISRAEL AEROSPACE INDUSTRIES LTD.
Innovation. Solutions. Control.
www.elta-iai.com • E-mail: market@elta.co.il