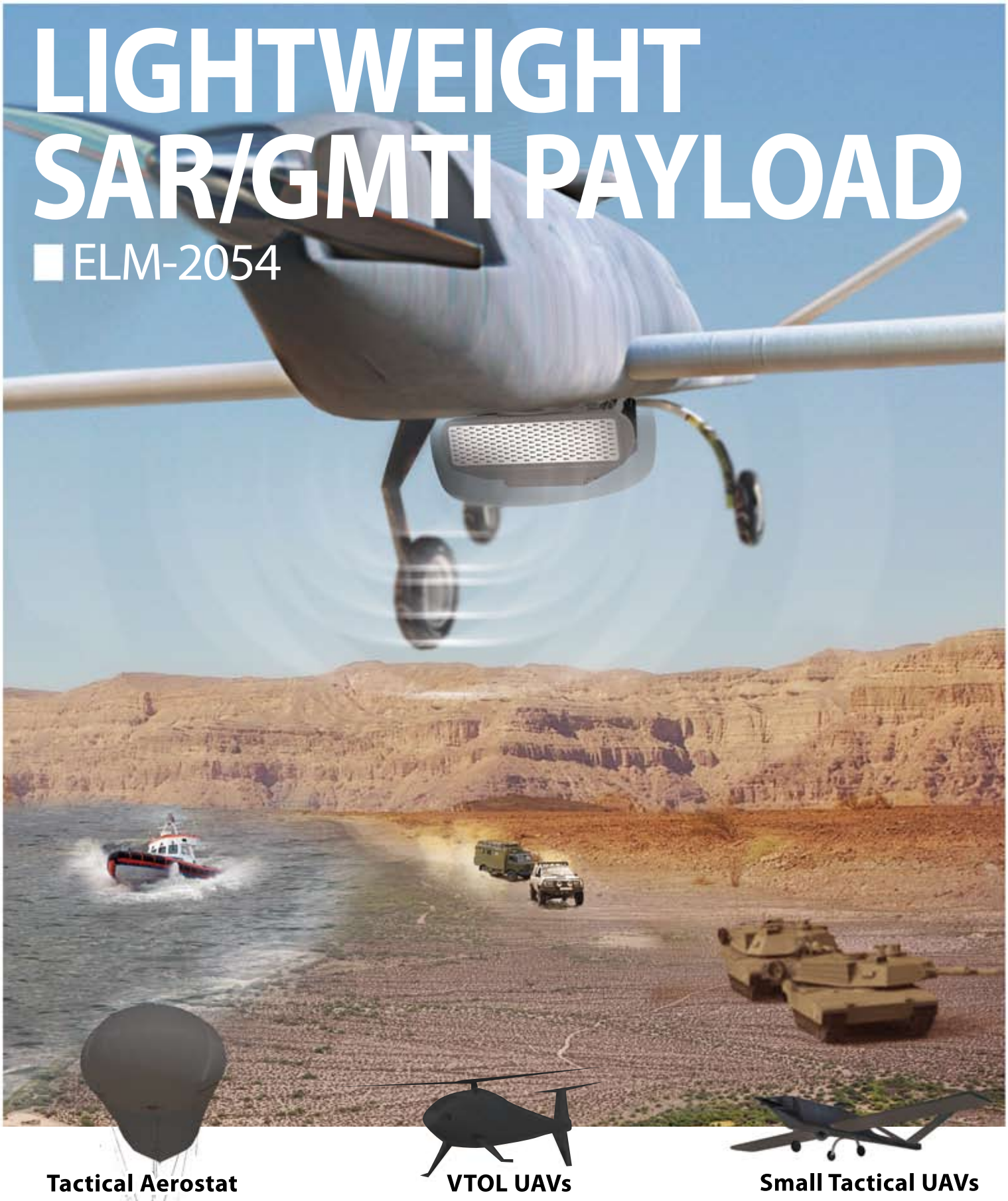
LIGHTWEIGHT SAR/GMTI PAYLOAD

ELM-2054



Tactical Aerostat

VTOL UAVs

Small Tactical UAVs

IAI ELTA

When Results Matter

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

LIGHTWEIGHT SAR/GMTI PAYLOAD

ELM-2054

General

ELM-2054 is a lightweight SAR/GMTI sensor for Small Tactical UAV (STUAV) and similar applications, providing state-of-the-art solution for all-weather, air-to-surface ISTAR applications from manned or unmanned airborne platforms. The ELM-2054 employs the latest technologies to achieve high performance at very low weight, small volume and low power consumption. The ELM-2054 can be easily configured for a broad range of platforms, from STUAVs, tactical VTOL UAVs; ultra-light reconnaissance aircraft and tactical aerostats.

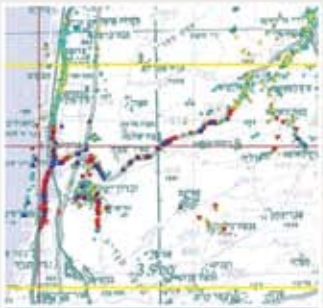
Applications

- Surveillance, BDA & target-acquisition
- Protection of borderlines and key-facilities
- Anti-terror warfare
- Counter narcotics and smuggling prevention
- Monitor disaster areas

Features

- The ELM-2054 delivers on-line SAR Imagery for:
  - Wide Area Search (WAS), by SAR Strip at resolution adequate for vehicle-target detection
  - Very high-resolution SAR Spot for stationary target classification
- High performance GMTI capabilities:
  - Persistent surveillance over tens of sq.km area
  - Detect and track targets of different size and over a very wide range of velocities
- Maritime/litoral search and classification
- Imagery & GMTI Exploitation
  - Automatic and computer aided target detection and track
  - Automatic change detection
  - Cross-cueing to/from EO/IR and other sensors

SAR Spot



GMTI Plots

Characteristics

- Ranges up to 12 km (SAR/GMTI modes)
- SAR Strip area collection rate up to 360 sq.km/hour

SAR Strip

Specifications

- Weight: 10 Kg to 15 Kg (installation dependent)
- Power: 250 Watt @ 28 Vdc
- Radar interfaces: fast ethernet, RS-422 (other formats optional)
- On-board processing, low downlink data rate

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

06/2014