



STAT=INTERCEPT
ID=CM

STAT=TRACKING
ID=UAV

STAT=TARGETING
ID=LM

POINT@AIR

Aerostat Borne Air Surveillance
& Fire Control
ELM-2083





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The modern aerial battle arena is flooded with ground hugging Low Radar Cross Section (RCS) aircraft, UAVs and cruise missiles. Taking advantage of terrain features, these challenging targets exploit the dependency of ground-based air defense systems on a clear line of sight (LOS) for detection, tracking and interception. IAI ELTA overcomes LOS limitations with a highly effective and survivable mobile airborne solution that employs the company's unique array of combat proven technologies – Point@Air (ELM-2083).

Point@Air is an advanced air surveillance and fire control system which marries a purpose designed high-performance, multimode tactical radar system together with a highly mobile medium sized aerostat. With the clear line of sight afforded by high-altitude deployment, Point@Air maximizes radar coverage and range, efficiently detecting and tracking low Radar Cross Section (RCS) air breathing targets (ABT), including aircraft, UAVs and cruise missiles that fly low to evade interception. Taking advantage of the radar's high accuracy, the system serves as a Fire Control Radar (FCR), capably cuing other sensors and Ground Based Air Defense (GBAD) systems onto these targets.

Point@Air's agile radar is based on IAI ELTA's operationally proven, in-house, multi-beam forming AESA technology, which employs multiple digital transmitters and receivers to deliver superb performance, operational flexibility, redundancy and reliability.

A fully digital design, Point@Air's radar utilizes SDR (Software Defined Radar) technology to provide maximum flexibility in waveform and beam-shape selection. As a true multi-mission system, Point@Air executes both air and maritime surveillance missions. Performance is optimized using IAI ELTA's unique, combat proven algorithms, purpose designed for aerostat borne operations.

A high mobility, high endurance tactical aerostat enables Point@Air to operate continuously for thirty days. The system can change locations rapidly before relaunch, enhancing battlefield survivability. In fact, less than one hour is needed to recover and prepare the system for deployment at a different site.

Incorporating the extensive operational experience that IAI ELTA has amassed deploying aerostat borne systems in Israel and around the globe over the past thirty years, Point@Air is ready to deliver its unique, powerful capabilities against the challenging threats today and tomorrow.

MISSIONS

- Air Surveillance
 - Early Warning - Targets detection & tracking
 - Fire Control support for weapons systems
- Maritime surveillance

FEATURES

- Early detection, tracking and fire control of low medium altitude threats
- Fully digital with Digital Beam Forming
- Rotating 360° or sectorial coverage
- Advanced ECCM capabilities
- Intelligent signal processing for operation in dense, high clutter environments
- Interoperability with C2/C4 and weapon systems
- High mobility and survivability

SPECIFICATIONS

Description	Fixed Installation (ER)
Hovering Altitude	1,000 to 5,000 feet
Operation Mode	Rotating, Sector
Instrumental Range	150Km
Azimuth Coverage	360°
Elevation Coverage	±40°
Height Coverage	10Kf
Simultaneous Tracking	Hundreds of targets
Interoperability	C ² / C ⁴ / Weapon system

