



# ISTAR Aircraft

ELI-3150





# ISTAR Aircraft

## ELI-3150

ELI-3150 is a turnkey multi-mission Intelligence, Surveillance, Target Acquisition, and Reconnaissance (ISTAR) special mission aircraft designed to provide persistent wide area surveillance stand-off ISR capabilities in all weather and visibility conditions. The solution is based on ELTA's operationally proven state-of-the-art multi-sensor ISR suite, advanced Multi-INT Mission System and C3 systems that are customized into high performance Gulfstream G550 or Bombardier Global 6500 business jets.

ELI-3150 employs various combat proven sensors including an AESA Multi-Mode SAR/GMTI radar, SIGINT and LOROP systems. It uses advanced AI algorithms to automatically generate mission-relevant target detection and classification. This allows for persistent stand-off ISTAR and provides real-time actionable intelligence to commanders at strategic, operative, and tactical levels.

### Key Capabilities

- Multi-INT Situational Awareness Picture
- Information superiority
- Hostile activities indication & warning
- Tracking and Targeting of stationery and mobile objects
- Battle Damage Assessment - BDA
- Tactical area monitoring & force protection
- Homeland Security (HLS), border protection and disaster relief operations

### System Characteristics

- Wide and Persistent stand-off coverage
- Real-Time Actionable Intelligence
- Automated on-board processes minimizing operators' workload
- Advanced decision-making tools
- Advanced AI and ML algorithms
- Interoperability and Networks synergy
- Open architecture for additional capabilities and future enhancements



ISTAR is delivered with a variety of sensors, communication and management systems:

### Sensors and Systems

SAR/GMTI, Maritime & Air Situation Picture Multi-mode AESA Radar  
Long Range Oblique Photography System  
Multi-band high accuracy SIGINT Suite: ELINT & COMINT

### Self-Protection Suite

Missile Approach Warning System  
Radar Warning Receiver  
Chaff & Flare

### C4I

Voice and Data Communications: SATCOM, Datalinks, & LOS  
On-board Multi-Mission Management System (MMS) with 4-6 operation stations  
Ground support equipment: Pre-flight mission planning, post-mission analysis, automatic imagery Geo-referencing & Geo-indexing, audio and video replay stations

