



ELLYON
EA & ISTAR AIRCRAFT
ELI-3150



ELLYON is a powerful multi-mission aircraft solution that combines cutting-edge Electronic Attack (EA) capabilities with an advanced Intelligence, Surveillance, Target Acquisition, and Reconnaissance (ISTAR) suite.

Designed to provide freedom of action for aerial assets over highly contested areas, including those defended by advanced Integrated Air Defense Systems (IADS), ELLYON delivers spectral dominance across all frequencies with game changing effect.

Deploying its comprehensive sensor suite, ELLYON builds an accurate, real time intelligence picture of the adversary's disposition. The system's highly automated Mission Management System (MMS) identifies and prioritizes the various threats using the latest Artificial Intelligence (AI) and Machine Learning (ML) tools, then engages and suppresses multiple ground and airborne targets, including air defense batteries, fighter aircraft and UAVs with its high ERP effectors.



ELLYON's wideband standoff radar jammer employs IAI ELTA's unique, in-house Active Electronically Scanned Array (AESA) technology to engage multiple radars with independent, electronically steered beams for highly effective Radar Jamming (RADARJAM). This potent effector, indispensable for Suppression of Enemy Air Defense (SEAD) missions, operates at ranges beyond the threat envelope of hostile air defense systems, making ELLYON a system of strategic value in the battle for air superiority. ELLYON's is also equipped with IAI ELTA's combat proven Communications Jammer (COMJAM) and GNSS jammer, designed to cripple enemy situational awareness and command and control capabilities.



The aircraft's comprehensive ISTAR suite includes IAI ELTA's operationally proven multi-mode AESA radar with SAR (strip and spot)/GMTI, air to sea (incl. ISAR), and air to air modes. This highly capable radar enables ELLYON to perform wide area persistent surveillance and reconnaissance at safe standoff ranges. Additional sensors include IAI ELTA's in-house ELINT and COMINT, which generate target data for the aircraft's effectors and build an accurate Electronic Order of Battle (EOB) in real time. A multi-spectral long range electro-optical/infrared payload assists in facilitating accurate target classification.

ELLYON is equipped with a comprehensive, secure communications suite with HF/VHF/UHF radios, tactical datalink, and wideband Line Of Sight (LOS) and SATCOM datalinks. A combat proven self-protection suite is fitted for operations in hostile areas.

All of these carefully integrated systems are managed by IAI ELTA's highly automated Mission Management System (MMS), which is designed to reduce crew workload and increase mission effectiveness.

Crew members enjoy a smooth ride and a comfortable work environment provided by the Bombardier Global 6500 platform. With its very short turnaround, ability to operate at altitudes greater than 40,000 feet, well above commercial air traffic, high speed and extended range, this high-performance platform ensures that ELLYON's formidable sensors and effectors are employed to their full potential, covering more area in less time.

With its exceptional, game changing capabilities, ELLYON constitutes a national asset of strategic importance that continues IAI ELTA's strong heritage in special mission aircraft design.

MISSIONS

- Suppression of Enemy Aerial Assets
- Suppression of Enemy Air Defenses (SEAD)
- Regional Air Defense
- Radar Jamming
- Communications Jamming
- EOB Generation
- Command & Control
- Battle Damage Assessment – BDA
- Target Generation
- Early Threat Detection





ELLYON

EA & ISTAR Aircraft

ELI-3150

SYSTEM FEATURES

- Long range, standoff operation
- Full spectrum frequency coverage
- Multi target jamming
- Exceptionally high RF sensitivity and Effective Radiated Power (ERP)
- Real time actionable intelligence generation
- Highly automated AI and ML enhanced operation minimizes workload, reduces required operators, and enhances effectiveness
- MUM-T ready
- Open architecture for addition of capabilities and future enhancements

The platform can be configured with the following systems:

Electronic Attack Systems	AESA Radar Jammer (RADJAM)	Comunication Jamming (COMJAM)	GNSS Jamming
Sensors and Systems	Multi-band, high accuracy SIGINT Suite: ELINT & COMINT		
	Long Range Oblique Photography (LOROP)		
Radar systems	Multi-Mode AESA Radar	SAR/GMTI, Maritime & Air	
Self-Protection Suite	Missile Approach Warning System (MAWS)	Radar Warning Receiver (RWR)	DIRCM, Chaff & Flare
C4ISR	Voice and Data Communications: Radios, Datalinks, LOS & SATCOM		On-board Multi-Mission Management System (MMS) with 4-6 operation stations
Ground Support	Ground support equipment: Pre-flight mission planning, post-mission analysis, automatic imagery Geo-referencing & Geo-indexing, audio and video replay stations		

