

ThunderB-VTOL

VTOL. Tactical. Versatile.



Exceptional VTOL Capabilities

The ThunderB-VTOL, a hybrid fixed wing UAV, offers high operational flexibility and combine the advantages of a fixed wing UAV with the benefits of a multi-copter:

Fixed wing advantages - Extended endurance, high speed operation in harsh environments, large area coverage and ability to glide to safe landing.

Multi-copter advantages - Ability to take off and land in small limited areas (such as on ships in mid-sea for maritime operations, small forest clearings, urban rooftops, etc.) and soft and accurate landing.

The ThunderB-VTOL delivers superior operational capabilities:

1. **VTOL** - Pin-point vertical takeoff & landing in confined areas anywhere, anytime
2. **Exceptional Performance** - Endurance of over 10 hours, communication range of up to 150 Km with a digital link and tracking antenna
3. **Mission Flexibility** - Variety of high-performance sensors, comms & software algorithms for diverse missions
4. **Covert Operation** - Low acoustic, visual, thermal and radar signatures
5. **GPS Denied Environment** - Multi-layer protection against GPS Jamming for mission continuity in GPS denied environment
6. **Advanced Datalinks** - Mission continuity even in COMJAM environment - integrated 3 communication links
7. **Robust System** - Optimal operation in severe weather & extreme terrain
8. **Easy to Operate** - Rapid deployment and turnaround time, small crew of two, no need for prepared area, Intuitive, mission oriented GCS
9. **High Reliability** - Multiple system redundancies and advance field-proven avionics
10. **Low LCC** - Low acquisition and maintenance costs



MTOW
35 Kg



**12 Hrs
Endurance**



Up to
**150 Km Comm.
Range**

Real Time Intelligence and Situation Awareness

The ThunderB-VTOL is an innovative and versatile system for conducting covert, real-time extended range and endurance, day-and-night Intelligence, Surveillance, Target Acquisition and Reconnaissance (ISTAR) operations, providing rapid, GPS marked, High-Definition (HD) video, photogrammetric tactical mapping on demand (TMOD) and additional intelligence assets..

Variety of
Payloads



Ground Data
Terminal
(GDT)



Ground Control
Station (GCS)



HLS



DEFENSE



CIVIL



ThunderB-VTOL

Operational Missions



Covert ISTAR



Border Protection



Convoy and Force Protection



Security and Law Enforcement



Maritime Operations



Artillery Support



Disaster Management



Search and Rescue



Photogrammetric Solutions



Civilian Applications

Small Logistic Footprint

- Deployed and operated by only two crew members
- Highly transportable and maneuverable system
- Vertical takeoff and landing from unprepared areas. No infrastructure required



BlueBird Aero Systems. Since 2002.

BlueBird Aero Systems Ltd. is a dominant player in the Tactical Unmanned Aerial Systems (UAS) Industry. BlueBird specializes in the design, development and production of high-performance, cost-effective micro, mini and tactical UAS. The company delivers superior, combat-proven solutions to meet the challenges of defense, homeland security and civil markets.

BlueBird's advanced UAV systems, operational in Israel and worldwide since 2006, have performed over 52,000 operational sorties in severe environmental conditions and without terrain limitations.

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