



**Tactical Unmanned
Aerial Systems**



Company Profile

BlueBird Aero Systems Ltd. specializes in the design, development and production of Tactical Unmanned Aerial Systems (UAS) and peripheral equipment.

BlueBird delivers unique, unprecedented, combat proven solutions to meet the challenges and needs of the Military, HLS and Civilian UAS markets.

About BlueBird

BlueBird believes in providing its customers a cost-effective, end-to-end solution, based on cutting-edge, innovative and creative design. This positions BlueBird competitively as a market leader.

BlueBird has identified the field of real-time intelligence generated from small and smart UAS, as a critical requirement in modern combat and civilian applications. BlueBird delivers unique technological and operational unique solutions, to meet the critical need for real-time intelligence. These advanced solutions are based on years of experience in the fields of aerodynamics, design, avionics, composite materials, communications, production and UAS operations.

The core of BlueBird's endeavours focuses in developing and manufacturing UAS' that are of innovative and proven technological qualities. BlueBird invests significant resources in R&D, in order to lead the tactical UAS industry with creative, unprecedented solutions, such as automatic target detection, automatic target tracking, automatic mapping capabilities and more.

When a tailored solution is required, BlueBird will optimize the system's technical aspects to provide the client with the best suited UAS solution.

UAS's Target Markets:

Military and Special Forces

Real-time aerial video provides tactical teams with the upper hand in difficult terrains and increases their standoff distance. This enables soldiers and tactical teams to scout surrounding areas without the danger of conflict and loss of life. BlueBird's UAS fast operational readiness and high reliability makes it ideal for rapid deployment by soldiers prior to combat. Having low acoustic and visual signatures, the UAS' can be operated without attracting unwanted attention.

HLS and Civilian Markets

BlueBird provides cost-effective UAS solutions, making real-time information - affordable. BlueBird's solutions for the civilian market support the following classifications:

- > Commercial
- > HLS (Homeland Security)
- > Scientific

TMOD (Tactical Mapping on Demand) - BlueBird's unique application.

The layout of the modern arena - usually an urban environment, is rapidly changing. Accurate and up-to-date orthophoto (an aerial photo, an accurate representation of the earth's surface), with geo-reference information, is an essential product for tactical forces and may make the difference between winning or losing a battle. It is also essential for the Homeland Security (HLS), the agricultural and the civil markets.

BlueBird's UAS', equipped with a unique photogrammetric payload, can be sent on autonomous missions to collect images that will be automatically converted to an orthophoto, with up to 1cm/pixel resolution, and up to 1m geo-reference accuracy. The system uses special stereoscopic hi-resolution imagery, and an automatic process for the generation of the orthophoto and 3D data.

BlueBird's mapping capability may be executed by the Blueeye UAS or even by a small electric UAS.



Law Enforcement



Event Management



Infrastructure Monitoring



Agriculture Surveying



BlueBird's line of products:

HLS **MicroB**

Target user: HLS, Law Enforcement for Urban Environment

The MicroB is a small UAS (only 1kg) that creates a new niche in the UAS arena with its low price and high capabilities. The MicroB is designed for full autonomous operation and unmatched capabilities. Equipped with a unique stabilized payload and automatic tracking capabilities, the MicroB can be autonomously launched within seconds even in a crowded urban environment and supply quality video and high resolution images.

Specifications:

Weight - 1kg. | Payload - 240gr | Endurance - 1 hr. | Control range - 10km

Army **HLS** **CIVIL** **SkyLiteB**

Target user: Special Units, Tactical Response and Civil Infrastructure

The SkyLiteB Mini-UAS System is optimised to provide stealthy, "over-the-hill" real-time visual intelligence to infantry, or extended range to artillery and special operation forces.

Its quick deployment capability, ease of control and operation and immediate data exploitation provide the tactical echelon with reliable intelligence.

The SkyLiteB is unique in its ability to fly in winds of over 30 kts and on cloudy or rainy days, assuring high operational ability when other systems can neither fly nor see.

The SkyLiteB system is specifically designed for a variety of operational needs while maintaining the customer's ability to switch between different configurations according to the mission.

Enhanced endurance is accomplished by using the same UAS platform, changing only the battery and the wing tips. Communication range is dictated by the ground control station configuration.

Specifications:

Weight - 6/8kg. | Payload - 1kg. | Endurance - 1.5hr./3.5hr. | Control range - 10km / 35km

Air Force **HLS** **Boomerang**

Target user: Air-Force / HLS for Long Endurance Mission

The Boomerang is designed for long mission duration (up to 9 hours) based on cutting-edge Fuel-Cell technology. Due to its long endurance capability, the Boomerang is a perfect solution for ISR (Intelligence, Surveillance and Reconnaissance) missions and for long range, autonomous mapping and information gathering missions.

Specifications:

Weight - 9kg. | Payload - 1kg. | Endurance - 9 hr. | Control range - 35km.

CIVIL **Blueye**

Target user: Civilian market - Mapping, ISR and Custom payloads

The Blueye is a soft-wing UAS platform specially designed for civilian applications, featuring high safety, slow flight, redundant control and ease of use.

In addition to its long ISR (Intelligence, Surveillance and Reconnaissance) capabilities, the Blueye can execute fully autonomous TMOD application (Tactical Mapping on Demand), complete autonomous operation and spot takeoff and landing. The Blueye offers an affordable, matured UAS system that can be easily integrated with any payload up to 10kg weight.

Specifications:

Weight - 50kg. | Payload - 10kg | Endurance - 9 hr. | Control range - 35km.

Ground Control Station:

BlueBird's UAS' are operated from a unified ground control station, which is designed for time critical missions and intelligent UAV operation, has been successfully tested in a combat environment.

Based on high-end digital link, intuitive control modes and ease of use, the ground control system is integrated with Rafael's state-of-the-art Image processing capabilities, which provides the operator with unique and unmatched features, including:

- Real-time motion detection
- Accurate target acquisition
- Autonomous target tracking capability
- Video image rotation (level orientation)
- Tactical information layers
- Video image and tactical map correlation
- Camera guide / target guide flying mode

MicroB



Urban ISR

SkyLiteB



Army



Search & Rescue



Border Patrol

Boomerang



Mapping

Blueye



GCS



Why BlueBird

- > A wide spectrum of UAS solutions with a unified ground station
- > Unique UAS solutions with unprecedented performance
- > Combat proven products and technologies
- > Worldwide distribution and support network
- > Independent and self-reliant (in-house development / production)
- > Customer tailored solutions in short development cycles

BlueBird Aero Systems Ltd. (established in 2002)

Headquartered in Israel – BlueBird is leveraging military UAS “Know how” and innovative approaches – to the Military, HLS and civilian markets. With a wide spectrum of Unmanned Aerial Systems and advanced cutting-edge technologies, BlueBird delivers unmatched solutions to any desired application.

BlueBird's mini electrical UAS' are combat proven, flying with the Israeli Air-force, Israeli MOD, US Special Forces and others, while continually demonstrating reliable performance and outstanding results. BlueBird's UAS' have accumulated hundreds of hours in combat and civilian missions, setting a new benchmarks in durability and usability.

BlueBird's products are designed for high cost-effectiveness, modularity, ease of use, high reliability, uniqueness and outstanding performance in all weather conditions.

AGS Group is an investment company
focusing on the homeland security
(HLS) venture market.



Financial Partner



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