



A joint venture between **CYIENT** &  **BlueBird**
Aero Systems

The SpyLite Mini UAV System

For extended capabilities and
enhanced reliability



Overview

SpyLite is a combat-proven, extended-performance, electric mini UAS optimized to provide covert, over-the-hill, or extended-range visual intelligence in real time. With over 15,000 successful missions, the SpyLite is one of the most advanced and reliable mini UAV platforms in the market today and has been in use by the Israeli forces since 2006. This UAV system has the unique ability to fly even in severe weather conditions, with an assured availability of three to four hours and a communication range of up to 50 km (can be extended up to 80 km).

Fully autonomous—from the point of launch to its accurate parachute and airbag recovery—the system is easy to use, offers high reliability, and provides a versatile and stable ISR platform. Combining stabilized CCD and IR payloads with low latency and high bandwidth communication, the SpyLite allows for GPS-marked imagery to be relayed in real time to the ground station. The system is an effective solution for supporting real-time video or Tactical Mapping On Demand (TMOD) missions across open areas and in urban scenarios for military, peacekeeping, low-intensity conflict, security, law enforcement, search and rescue, disaster management, and commercial applications.

SpyLite UAV System Specifications and Highlights

Features	Description
Maximum takeoff weight	9.5 kg
Wing span	275 cm
Length	135 cm
Power plant	Electric brushless motor, rechargeable battery
Payload capacity	Up to 1.35 kg
Endurance	Up to 4 hours (depending on altitude ASL, weather, and mission profile)
Payloads	<ul style="list-style-type: none">• Various single, dual, or triple day/HD, IR and optional laser pointer gimballed and stabilized real-time payloads• Various high-resolution color, IR, radiometric or multi-spectral photogrammetric payloads• Others
Control range	Up to 50 km (extendable to 80 km)
Communication links	The system has a secondary, redundant link, supporting mission continuation under COMJAM environment
Mission continuity in GPS-denied environment	Optional multi-layer protection against GPS jamming for mission continuity even in a GPS-denied environment
Maximum flight ceiling	36,000 ft ASL
Max wind penetration	Low acoustic, thermal, and visual signatures

About Cyient Solutions & Systems

Cyient Solutions & Systems is a joint venture between Cyient and Israel-based BlueBird Aero Systems that provides UAS-based intelligence gathering, surveillance, target acquisition, and reconnaissance capabilities for defence and civilian applications. CSS leverages Cyient's engineering and manufacturing capabilities and BlueBird's globally-proven UAS technology to offer a range of solutions, carefully crafted to address the diverse needs of Indian defence, paramilitary, homeland security, and civilian users.

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