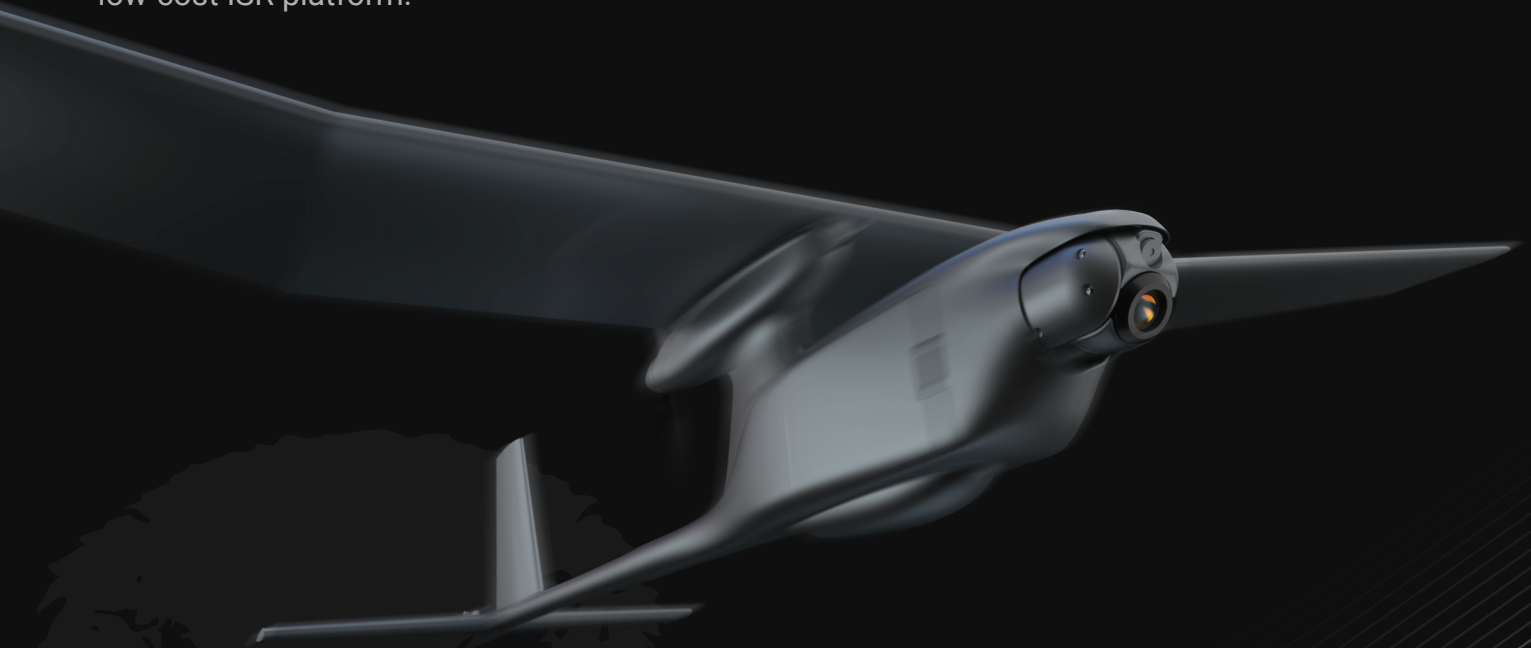
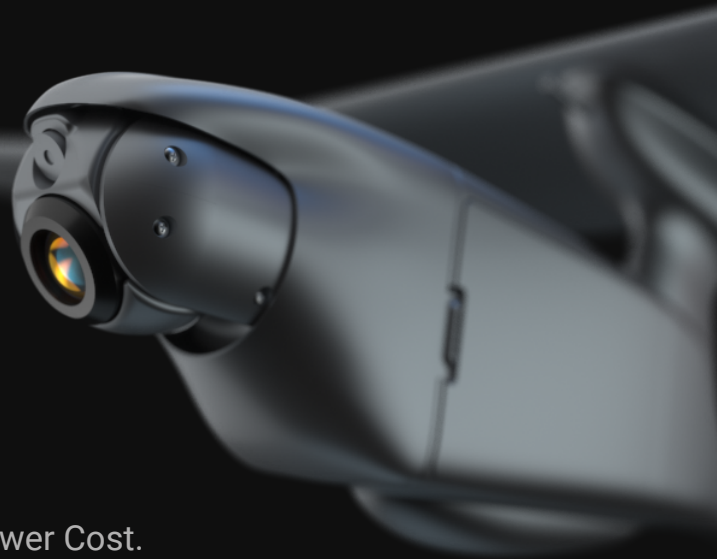


NO RULES, EXTRAORDINARY RESULTS

A diverse team that includes a world champion RC Aircraft wunderkind, an entrepreneurial physicist, a UAV manufacturing expert, and a UAV industry expert, we set out to build a best-in-class fixed-wing UAV. We followed very few rules - make it less expensive and better than anything that exists. Thus was born The Vigilant Eagle. A 100% commercial, durable, high-performance, low-cost ISR platform.



STRATEGIC ADVANTAGE



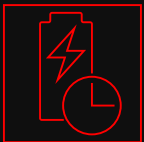
3 RULES

3 Rules: Higher Performance – Higher Efficiency - Lower Cost.

Today's Group 1 & 2 UAS markets are flooded with yesterday's limited performance and expensive fixed-wing UASs. The Vigilant Eagle is changing the rules. This UAV utilizes best-of-breed design techniques, advanced materials and, leading-edge technologies, making it the ONLY Group 1 UAS solution achieving Group 2 performance.

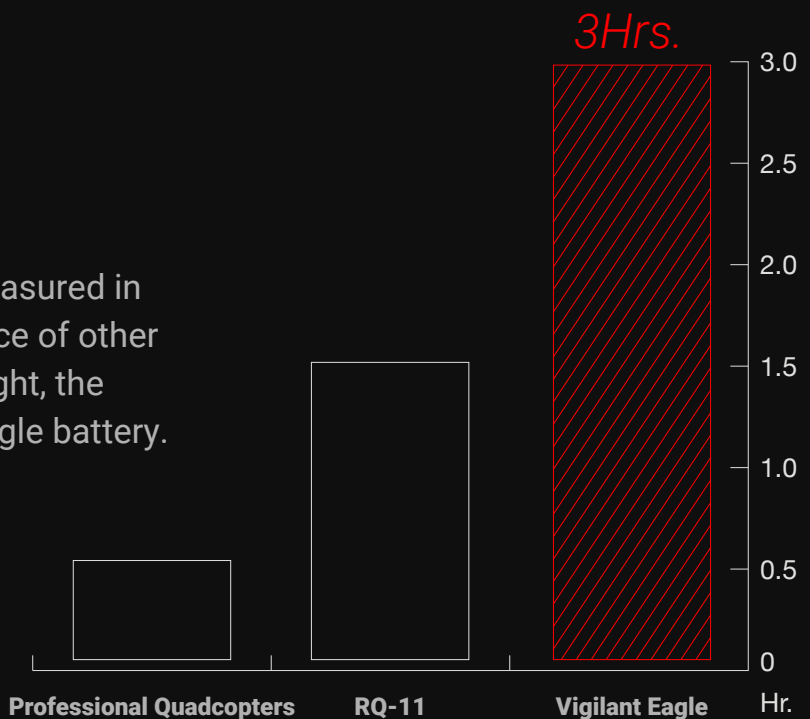
VALUE DRIVEN

Ours is a novel approach in today's marketplace – high performance at an affordable price. The Vigilant Eagle is the best in class for fixed-wing UAS. It has a lower acquisition price, simplified operation, and improved durability for reduced total ownership costs.

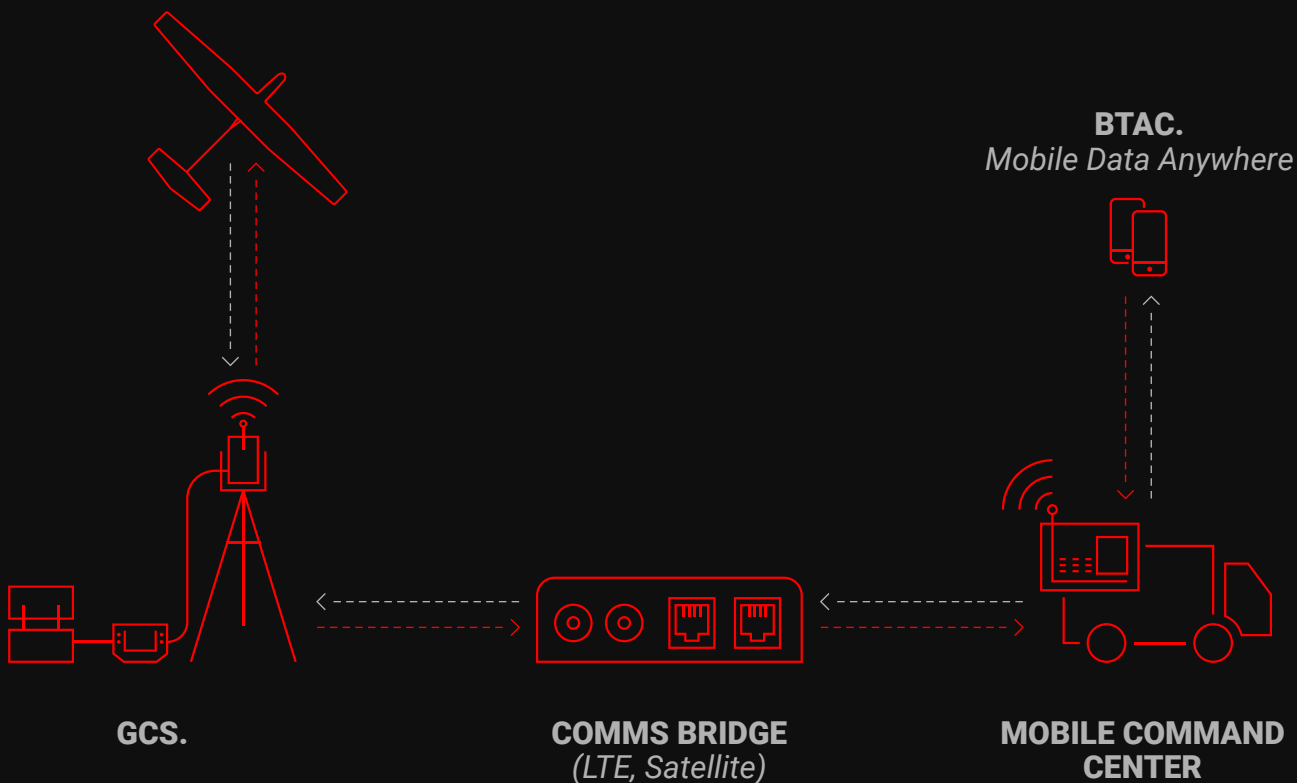
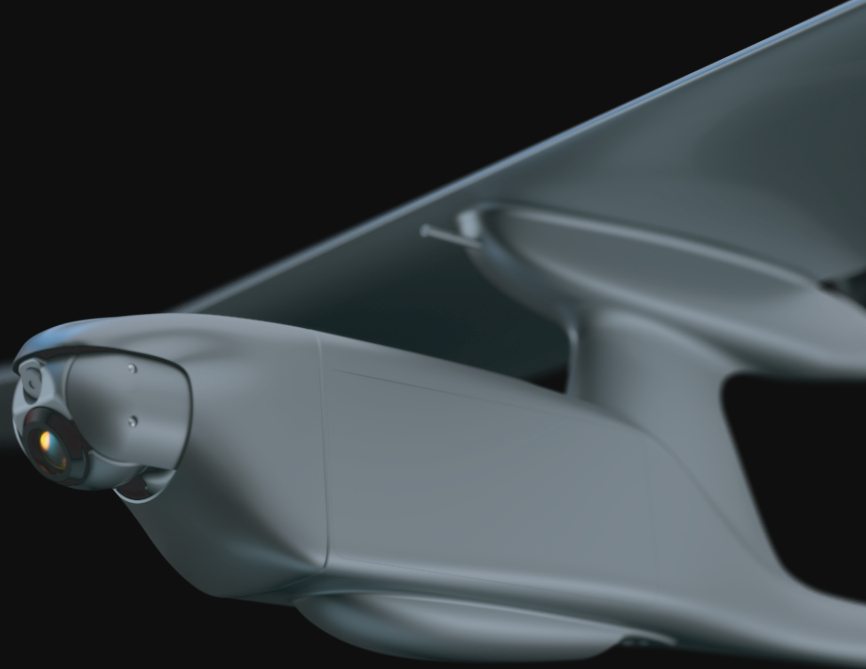


ENDURANCE

The Vigilant Eagle's flight duration is measured in HOURS, not minutes. While the endurance of other Group 1 UAVs is under 60 minutes of flight, the Vigilant Eagle averages 3 hours on a single battery.



GROUND CONTROL STATION



The ground control station(GCS) consists of a rugged laptop, a controller, and a datalink assembly. The GCS supports mission planning, aircraft control, and payload control. The datalink comes in both short-range (15km) and long-range configurations (30km).

ADVANTAGES



Range

Configured with long-range data link, the Vigilant Eagle ranges up to 30km providing coverage of up to 2827 sq. km or 698,000 acres. The typical Group 1 performance can only support coverage of 315 sq. km. Flying at a 25-knot cruise speed, the Vigilant Eagle can achieve its maximum range and still be able to operate for 2 hours before having to return.



Altitude

The Vigilant Eagle has a typical operational altitude between 400 and 3000ft AGL and a maximum altitude of 15,000ft MSL.



Simplified Assembly & Transportability

The Vigilant Eagle is easy to assemble, requiring only a screwdriver and five screws. The full system can be unpacked, assembled, and airborne in less than three minutes. The Vigilant Eagle is also compact enough to be carried in a single expeditionary backpack configuration, weighing as little as 12 lbs.



Single Person Launch

Unlike incumbent systems, the Vigilant Eagle is designed for single-person operation from launch to payload and flight operation and recovery. The aircraft's low stall speed enables clean transition to flight even when the drone is hand-launched poorly. In addition, the operator can launch the Vigilant Eagle without hands on the ground control station controls. Upon launch, the Vigilante Eagle flies into a loiter pattern awaiting further command from the operator.



Payloads

Depending on the configuration, the Vigilant Eagle comes with one or more of the following swappable payloads:

- *Fixed High Definition (HD) Electro-optical (EO)*
- *Gimbaled HD EO and Infrared with PTZ*

The EO camera produces 1080p HD video, and The IR camera has a 640x512 array. In addition to the payloads, the Vigilant Eagles software suite provides optional enhancements:

- *Object tracking for gimbaled payloads – keeping the select objects in the camera field of vision as objects move and the Vigilant Eagle maneuvers*
- *Image recognition - Coupled with the WiFly command platform, the Vigilant Eagle can perform image recognition for objects like people, vehicles, and weapons.*



Acoustic & Visual Footprint

Designed to operate stealthily above 500ft, the Vigilant Eagle is virtually undetectable. The Vigilant Eagle has a patent-pending design that configures the propeller above the fuselage away from the trailing edge of the wings. This increases aircraft efficiency and significantly lowers the noise footprint.



Wifly

WiFly is Vigilant Eagle's full feature exportable multi-unit Command Capability. WiFly provides a distributed command capability in a suitcase that can be operated from the back of a vehicle. Multiple Vigilante Eagles can be managed through a single pane of glass command display.



Autopilot Controlled Soft Landing

Landings are the source of significant wear and tear on wheel-less UAVs. Combined with its unique Spectra® skidpad and advanced wing flap design, the Vigilant Eagle autonomously lands itself within constrained spaces even in heavy wind conditions. The typical Vigilant Eagle landing zone can be as small as 25ft.



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