

Edge 130 Blue

The Edge 130 Blue is a military-grade hybrid fixed-wing VTOL tricopter, delivering intelligence, surveillance, and reconnaissance, as well as mapping and inspection capabilities. With its innovative vertical take-off and landing capabilities, seamless transition between hover and forward flight modes, and tool-free payload swapping, the Edge 130 is designed to operate in the most challenging environments.



Certified Blue UAS

FEATURES



Forward Flight and Hover

Independent tilt-pod technology enables smooth transitions between forward flight and hover.



Cyber Hardened

Encrypted AES 256 radios provide tighter security between operator and aircraft when it matters.



Vertical Take-off and Landing

Take-off and land anywhere without the need for cumbersome ground equipment.



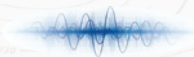
Navigation Beacons

User controlled visual and infrared navigation beacons enable safe recovery of aircraft.



Blue Approved Payloads

Swapped in seconds with no tools or special equipment - no need to buy an aircraft for every camera or sensor.



Non-ISM Frequencies

Regulated radio frequencies operating beyond public ISM bands are available on demand.

SPECIFICATIONS

AIRCRAFT

Vehicle Mass	1,200 g 2.65 lbs
Energy Storage	Lithium-ion
Comm Frequencies	900 MHz Telemetry 2.4 GHz Data
Encryption	AES 256
Nominal Cruise Speed	15 m/s 33 mph 55 kph
Max. Cruise Speed	27 m/s 65 mph 100 kph
Min. Cruise Speed	11 m/s 24 mph 40 kph
Max. Altitude	3,650 m 12,000 ft (Theoretical Service Ceiling, Above Sea Level)
Max. Payload Mass	345 g 0.76 lb
Cruise Endurance	60+ minutes*
Hover Only Endurance	30 minutes*
Battery Nominal Capacity	86.4 wh, 6.0 ah, 14.8 v
Fixed-Wing Maximum Wind Speed	17 m/s 40 mph 64 kph
Multi-Rotor Maximum Wind Speed	13 m/s 30 mph 48 kph (Oriented to Headwind) or 4.5 m/s 10 mph 16 kph (Oriented to Side or Tailwind)
Max. Wind Gust (Delta from Average)	6 m/s 13 mph 21 kph

*standard atmospheric pressure

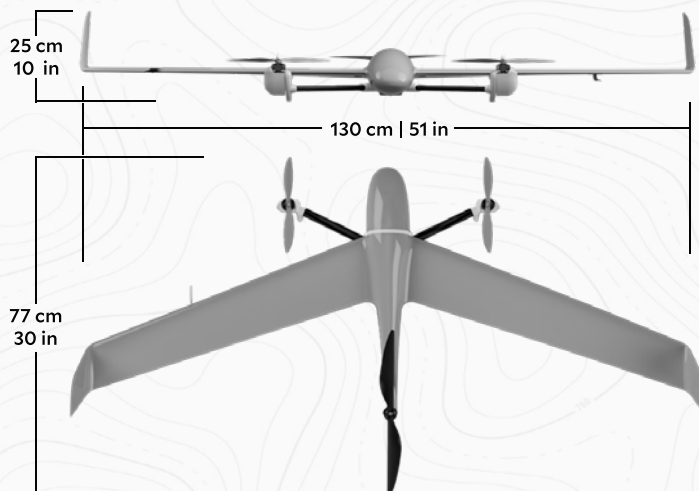
Max. Digital Data (Video) Range

Using directional antenna: 8km | 5 mi

(Clear Line of Sight)

Using omnidirectional antenna: 2km | 1.25 mi

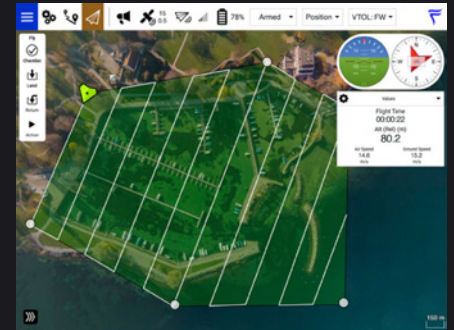
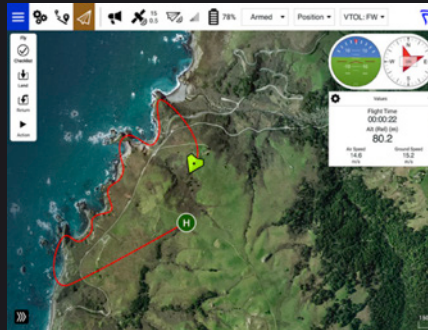
(Clear Line of Sight)



EDGE 130 BLUE

GCS & MISSION PLANNER

Plan and execute entire missions using enhanced autopilot technology. Experience seamless autonomy as The Edge effortlessly transitions between multi-rotor and fixed-wing flight using exclusive thrust-vector control—no pilot input needed. Leverage numerous pre-programmed mapping and other missions or design your own in seconds. Seamlessly swap modes, point cameras, and manage sensors using native controls while sharing real-time flight info and live video footage with your team through the USB-C interface.



BLUE UAS APPROVED PAYLOADS

Overwatch Gimbal

The Overwatch EOIR Gimbal offers electro-optical infrared (EOIR) capabilities on a 3 axis gimbal-stabilized platform. Two cameras collect video in color and infrared, each writing full resolution to an on-board SD-card while streaming live compressed video to the ground station for real-time insight. The FlightWave Glo-12K Electronic Global Shutter color camera records detailed 4k-30fps video that can be digitally zoomed 10x. Thermal video is recorded with a long-wave infrared imager that record at 640x512 with 2x digital zoom, allowing you to gather valuable insight at a distance.



Mapping Array

Our Mapping Array features three simultaneously triggered 13MP CMOS cameras, which together collect 39MP of image data at up to 5 frames per second. These images are saved to an innovative onboard removable storage card that can write up to 1TB of data at over 1400MB per second. The cameras are configured to most optimally sample a 100 meter wide image at 1cm per pixel, when flying 100 meters above the ground. When flying at Edge's nominal cruise speed of 15m/s with industry-standard overlap setting, this means you will be able to cover over 1600 acres of land in one flight of 90 minutes.

