



 FlightWave **EDGE 130** *BLUE*

PRODUCT SHEET

# EDGE 130 *BLUE*



The Edge 130 Blue is a military-grade, VTOL tricopter designed for challenging long-range, long-endurance mapping, inspection, surveillance, and reconnaissance missions.

The Edge 130 Blue incorporates the best features in one package: vertical take off & landing capabilities, both hover and forward flight modes, and quick, tool-free payload swapping with 5 Blue UAS approved payloads like the Overwatch Gimbal and the Mapping Array. The Edge 130 Blue can takeoff and land anywhere, even in 40 mph winds. Designed specifically for government and military ISR, mapping and mission planning applications, the Edge 130 Blue enables long range autonomy and

captures high-accuracy aerial imagery to provide near real-time situational awareness to ground forces. Weighing only 1200 g (2.65 lbs) the Edge 130 Blue can fly for two hours in forward flight mode. This is industry leading for any of the approved Blue sUAS drones available. The Edge 130 Blue can be rapidly deployed by one pilot from assembly to hand-launch, in 1 minute by a single user to capture imagery to generate 3D models, terrain and thermal maps.



## BLUE UAS APPROVED PAYLOADS

4K VIDEO WITH  
HIGH-RES THERMAL  
VISION, STABILIZED  
3-AXIS GIMBAL

### 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.



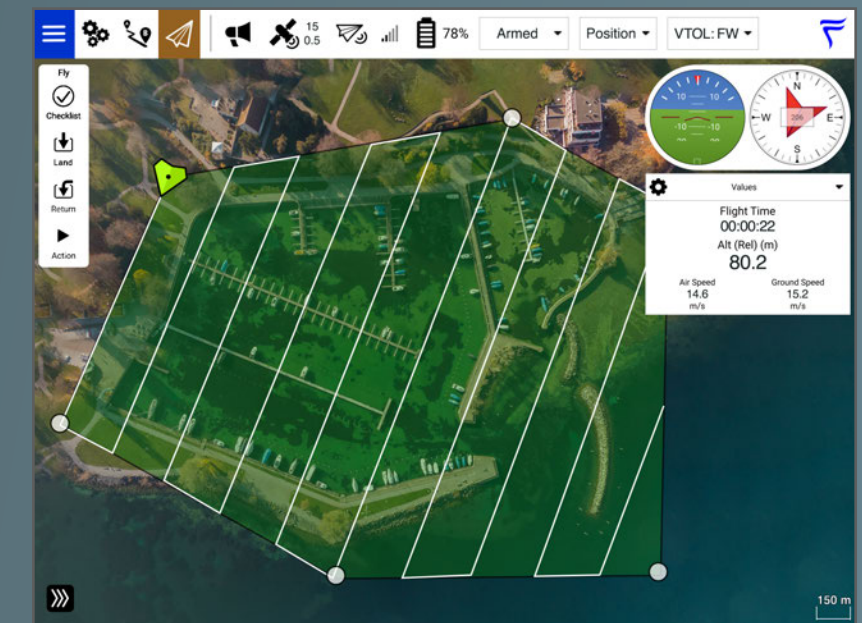
39MP, THREE-CAMERA  
ULTRA-WIDE MAPPING  
ARRAY FOR 1CM/PIXEL  
1000 ACRE MAPS

### 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 1600acres of land in one flight of 90 minutes.

# EDGE 130 BLUE GCS AND 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.



# FEATURES



## FORWARD FLIGHT AND HOVER

Independent tilt-pod technology enables smooth transitions between forward flight and hover modes without mission interruption.



## VERTICAL TAKE-OFF AND LANDING

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



## TWO HOUR FLIGHT TIME

Two hours of flight time with fixed wings give the Edge an unprecedented endurance and range.



## BLUE APPROVED PAYLOADS

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



## CYBER HARDENED

Encrypted AES 128/256 radios provide tighter security between operator and aircraft when it matters.



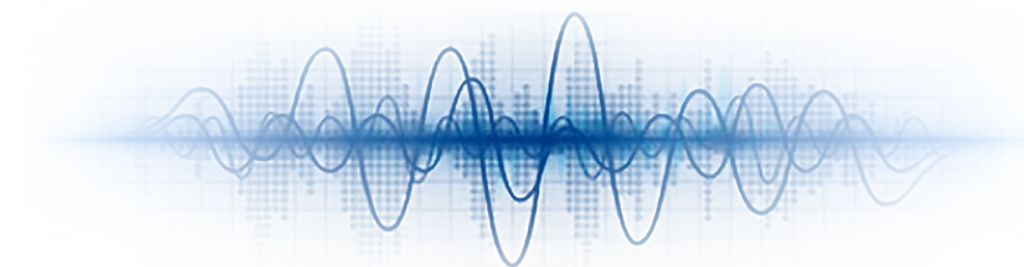
## CASE TO SKY IN UNDER A MINUTE

From its rugged check-in size hard case, The Edge can be deployed in less than a minute.



## NAVIGATION BEACONS

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



## NON-ISM FREQUENCIES

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

# SPECIFICATIONS

**VEHICLE MASS** 1,200 G | 2.65 LB

**ENERGY STORAGE** LITHIUM-ION

**COMM FREQUENCIES** 900 MHZ TELEMETRY | 2.4 GHZ DATA

**ENCRYPTION** 128 | 256 AES

**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

**MAX. PAYLOAD MASS** 345 G | 0.76 LB

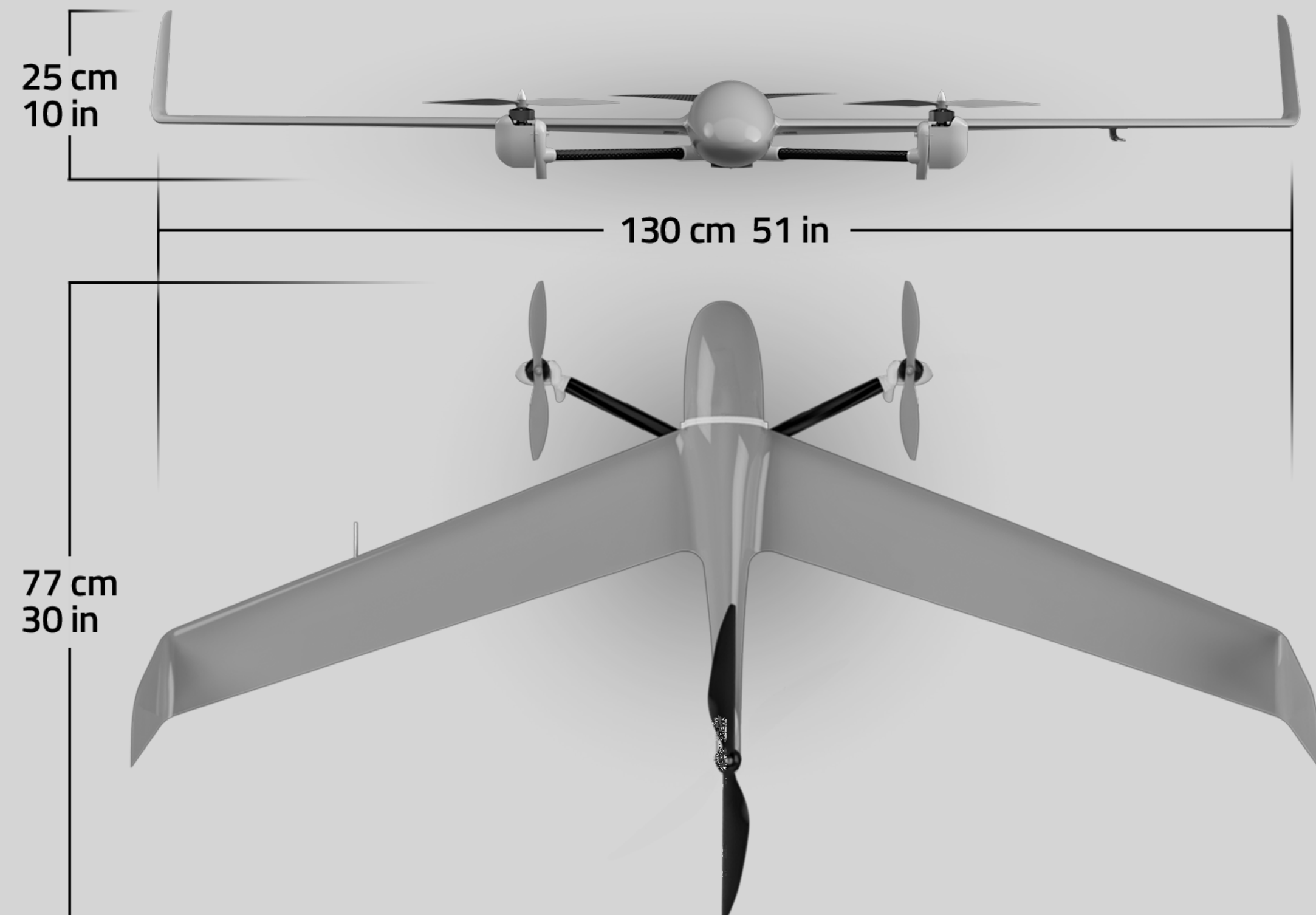
**CRUISE ENDURANCE** 125 MINUTES

**HOVER ONLY ENDURANCE** 30 MINUTES

**BATTERY NOMINAL CAPACITY** 86.4 WH, 6.0AH, 14.8V

**MAX. WIND SPEED** 17 M/S | 40 MPH | 64 KPH

**MAX. WIND GUST** 6 M/S | 13 MPH | 21 KPH



# EDGE 130 BLUE *PRO KIT*



- Edge 130 Blue vehicle
- Edge 130 Blue ground control station and charger
- FlightWave Mission Planner
- Two lithium-ion battery packs and charger
- Two sets of propellers
- Overwatch Gimbal and Mapping Array payloads
- Military standard (MIL-C-4150J) hard case
- FlightWaveCare warranty
- Edge 130 Blue Training Module



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