

CAM FLIGHT

AERIAL MAPPING ROBOT

Camflight FX8HL Multirotor UAS for high precision mapping.



- Up to 50 min. flight endurance for coverage of large areas
- Needed space for takeoff and landing: 3 x 3 meter
- Autopilot from Lockheed Martin for high precision flights
- High stability in wind
- Virtual cockpit ground control software for advanced flight plans
- Short time from arrival to airborne
- Stabilized brushless camera gimbal
- Flight case for protected transportation
- 40 A fast charging system

Option:

- 15 m² rescue parachute with safety switch on RC and backup battery
- 5,8 Ghz analog video link
- 5,8 Ghz HD video link

Technical specifications:

Vertical Takeoff / Land multi-rotor electric aircraft, commercial-grade

Physical:

Size: < 140 cm diameter, ~ 45 cm height.

27.5" three blade carbon propellers / 29" two blade propellers

Weight: < 25 Kg including maximum payload

Battery – 44 000 mAh 8S - 29,6 V

Speed: ~ 35 mph

Payload: Swappable EO / IR / HD with real time

downlink Avionics/GCS: Lockheed Martin Procerus

Kestrel Autopilot v3.1 & Virtual Cockpit GC software

Environmental:

Max Wind: ~12 m/s

Moisture: Light Rain-

Temperature: -20 → 40 Degrees Celsius

Communications:

Communication Frequency 2400 MHz (other frequencies optional)

(digital video link optional)

Max Communication Range 2-4 km (depending on frequency)

The Failsafe Behaviors are: (user configurable in the Virtual Cockpit GCS)

loss of RC Comm 0.5 sec -> fly level

loss of RC Comm 2 sec -> fly to the rally point

loss of Comm 3 sec -> fly to rally point

loss of Comm 10 sec -> land at the

land point loss of GPS 2 sec -> fly level

loss of GPS 10 sec -> land at current location low

battery 3 sec -> land at land point

critically low battery -> land at current location

If multiple failsafes are triggered the failsafe behavior with the highest priority will be implemented. The failsafe priority in order of highest to lowest is:

1) critically low battery 4) low battery

2) loss of GPS 5) loss of RC Comm

3) loss of Comm

Payload & Endurance:

Max Payload Capacity: 8200 gr.

Flight Endurance @ 8000 gr. Payload: Up to 25 Minutes to first failsafe stage (depending on weather and wind conditions)

www.camflight.no

post@camflight.no

+47 67 07 00 50