

FotoGlider 1.3

UAS specially designed for aerial photography.



Features

- Electric system with low noise emission.
- Hand-launched: does not need catapult for take-off.
- Autonomous flight and take-off. Autonomous start coming soon.
- One axis stabilized camera.

Operation

- 4 hours of flight time, range 200 km (125 mi.)
- Nominal cruise speed 14 m/s eg 50 km/h (30 mph).
- Wind resistance up to 8 m/s (18 mph).
- Maximum coverage of one mission flying at 400 m (1300 ft) altitude is 30 km² (11.5 mi²), with resolution of 8.6 cm/px (3.4 in/px).
- Maximum resolution is 1.95 cm/px (0.75 in/px). Coverage with maximum resolution in single flight mission is 6.5 km² (2.5 mi²).

Technical Specifications

Airframe

- Wingspan: 3.4 m (11'2").
- Length: 1.7 m (5'6").
- Weight: 4 kg (8.8 lb).
- Maximum payload: 400 g (0.88 lb).
- The wings, rudder and eleron are laminated on polystyrene.
- The wings are composed of three ~1m (3'3") length parts. Eleron is mounted on the carbon tube, rudder is removable.
- Fuselage is made from fiberglass.

Electronics

- Autopilot: PixHawk.
- Ground Station software: MissionPlanner.
- Radio: 433 Mhz directional antenna with range up to 10 km (6.5 mi) or 4G modem.
- Batteries: 11.1 V, 25 Ah lithium batteries integrated to the fuselage.
- Camera for visible light photos: Samsung NX1000.
- Camera for NIR photos: two modified Canon S100s.

Three reasons to choose the FotoGlider

Performance

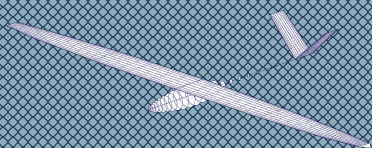
FotoGlider has maximum flight time of 4 hours and range up to 200 km.

Frugal

FotoGlider is hand launched and does not need catapult for take-off.

Efficient

Long range makes FotoGlider very efficient for covering large areas.



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