Applewhite Aero

Oculus UAS

The Oculus UAS has been designed to maximize flight endurance and to provide ease of use in a cost effective airframe. Oculus can be hand launched and flown for over three hours while carrying a variety of small payloads with minimal complexity and cost.

System Specifications

Wing Span:	108 in (2.7 m)
Wing Area:	598 sq. in (.385 m^2)
Length:	52 in (1.3 m)
Weight:	~5 lbs (2.27 kg)
Payload:	Up to 1.5 lbs (.7 kg)
Endurance:	3+ hr (with 1.5 lb payload)
Optimal Flight Speed:	~30 mph (49 km/h)
Payload Bay:	3.75''W x 1''H x 4.25''L 9.5cm x 2.54cm x 10.8cm

Autopilot and Power Systems

- Hand launched, 3 hour endurance vehicle with light payload capability
- Includes FAA certified APM 2.6 autopilot tuned for Oculus
- Features electric propulsion system comprised of a brushless motor, carbon fiber propeller and optional folding prop
- Powered by high-capacity quick-charging batteries
- Communications Range of 5 km to 20 km depending upon configuration
- Optional live video feed

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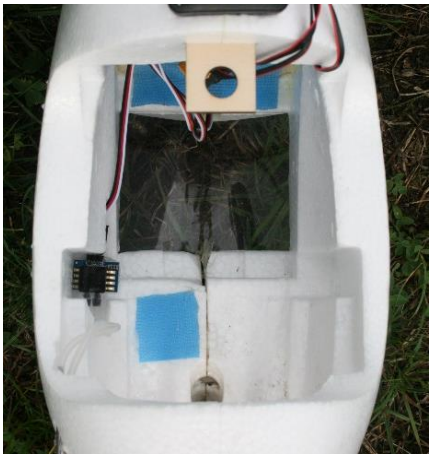
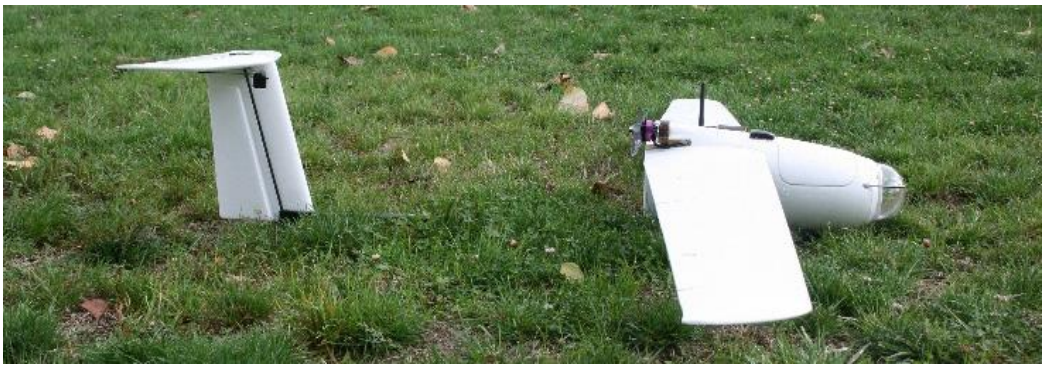


Customizable Payload Bay

- Features protected bay allowing for the placement of a small camera or other payload
- Long range and payload capability make Oculus is the perfect geo-mapping aircraft
- Customize the aircraft and install payloads to suit your applications. Oculus can accommodate payloads up to 1.5 lbs and 3.75''W x 1''H x 4.25''L in size.

Launch and Recovery

- Capable of automatic takeoff with hand launch, automatic mission activation and automatic landing.
- Designed for simple skid landing. Payloads and the fuselage underside are protected by a rolling wheel on the belly of the fuselage. Custom landing options can be supplied by Applewhite Aero.



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