

OFFSHORE AVIATION OA-2H

LARGE SCALE VTOL



OA-2H

VTOL WORKHORSE

The Offshore Aviation OA-2H is a large scale gas/electric VTOL hybrid with a 16 foot wingspan and carry an astonishing 55 lbs of payload.

The airframe is made entirely of carbon fiber which is lighter and stronger than other airframes that are made of fiberglass or composite materials.

The new VTOL features the quick-detach design which is easy to assemble and dissemble. The airframe utilizes a twin boom design which houses the 8 lift motors.

Flight time can exceed 8 hours depending on payload and flight conditions.

The design allows for the recharging of the VTOL batteries in flight for multiple vertical takeoffs and landings in a single mission.



GAS/ELECTRIC •

The OA-2H is a large X8 VTOL with the ability to carry 55 lbs of payload.

The physical design of the aircraft can be adapted to configure the OA-2H for ISR, Comms Relay, or Cargo delivery.

The OA-2H can be equipped with standard, long range, or ultra-long range comm system with optional SATCOM backup.

The Aircraft comes with custom configurable GCS or optional hand held mobile GCS.

With a 215cc gas motor driving both the pusher prop and on-board generator, the aircraft can recharge its lift batteries multiple times during a standard mission.

Offshore Aviation Group

For more information on each aircraft please see the individual specification tables below. Because the OA-2H build is custom built in the USA, we encourage you to discuss specific requirements with us from the outset of your project.

Vertical Take-Off

-Large Vertical Take-Off and Landing (VTOL)

-Fully autonomous operation

• Flexible specification

-Flight time in excess of 8 hours

• Custom configurations available

PLUS tailored builds to match

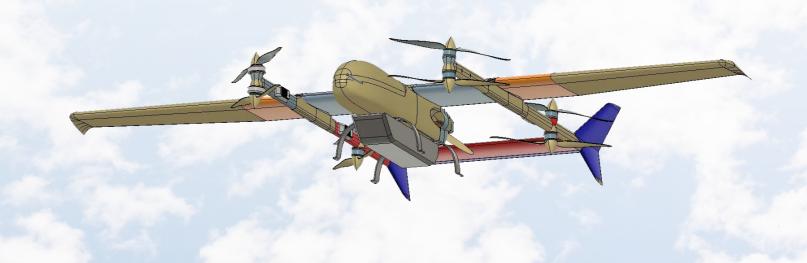
exacting or project-specific needs

OA-2H

The OA-2H can take-off in a hover, transition to forward flight and sustain flight for up to 8 hours. Offshore Aviation incorporated its know how with multi-rotor aircraft combining the best of VTOL handling with the endurance of fixed wing flight. During take-off, the X8 lift motors elevate the OA-2H in a hover allowing it to climb to a safe altitude. Once it is roughly 70 meters above the ground, the aircraft's pusher propeller provides forward thrust causing it to accelerate. As the 16 foot wingspan begins to generate lift, the lift motors disengage and the aircraft flies like a conventional aircraft allowing the OA-2H to stay aloft for extended periods.

Vertical Landing

As the OA-2H approaches the landing zone, the lift motors are armed and spin up to a hover speed. In this configuration the pusher motor comes to a stop and forward velocity is reduced to a hover. The aircraft can be equipped with an autonomous maritime landing capability for shipboard launch and recovery.



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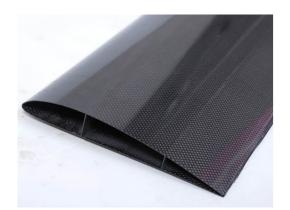
♦ OA-2H Gas-Electric Hybrid

The OA-2H Manticore is a large scale, rugged and dependable UAS. It can fly reliably in some of the worst conditions of any fixed wing, multirotor VTOL aircraft.

The aircraft can be equipped with a wide variety of EO/IR Sensors.

Flight times quoted are realistic and reflect what you are likely to see flying in real world conditions.

Optimization for your particular application is highly recommended. Contact us to discuss what you need to achieve and see what we can offer!



Carbon fiber construction makes the OA-2H lighter and more durable than other airframes

PHYSICAL	
Configuration	X8 VTOL Pusher Configuration
Wingspan	~ 5000mm
Empty weight*	~ 35 kgs (subject to spec)
Length	~ 3400mm
Height	~ 620mm
Payload Bay	920mm x 340mm x 350mm
Fuel Tank	28 L
Payload Anti-vibration mount	Optional
Flight controller	Various options available most commonly Pixhawk Cube
FPV	720p global shutter IP camera
Lights	LED navigation & strobe lights
FLIGHT	
Max speed	170 kph (105 mph)
Rate of climb/descent	Adjustable. 2 m/s default recommended
VTOL operating altitude	Up to 1.5km (5000 feet ASL)
Fixed Wing Stall Speed	86 kph (54 mph)
Max range	Subject to flight speed and weather conditions
Flight parameters	
Maximum Ceiling Flight	18,000 feet
Time No payload	>8 hours
Operating temperature	0–35°C 32.19kph
Max take-off wind	(30 mph) 48kps
Max take-off weight	(175 lbs)

Gear Installed:

-Radio: Silvus SC4200

-Autopilot: PixHawk Cube, (2) GNSS GPS

-Telemetry: Silvus SC4200

-Lighting: FAA compliant LED Navigation &

Strobes

-Video Transmitter: Silvus SC4200

-Pusher Motor: HFE 215cc EFI GenPod

-Pusher Propeller: 32" x 12" three blade prop

-VTOL Motor: (8) VTOL Motors

-VTOL Propeller: (8) 40" x 13.1" Propeller

-Battery: (2) 24S 44Ah LI-Ion -Ping2020i ADS-B transceiver





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