

# OFFSHORE AVIATION OA-8C DRAGONFLY HEAVY LIFT



### **OA-8C DRAGONFLY**

**FEATURES:** 

• Extremely tough durable design

• High resilience in harsh conditions

Redundancy throughout

Weather resistant

Folding for transport

• Very heavy lift capable • Flexible specification

• Fully autonomous operation

Custom configurations available

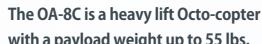
PLUS tailored builds to match

### **HEAVY LIFT WORKHORSE**

The Offshore Aviation OA-8C heavy lift multi rotor aircraft aimed at high weight payload lifting. These are very tough aircraft, immensely powerful yet maintaining good agility. They offer excellent resistance to wind, have high forward speed, great maneuverability, and can be built to resist water ingress for bad weather environments if necessary.

Standard features include super bright **RGB LED navigation lights, water** resistant enclosure, side-mounted batteries, forward facing FPV camera in a single axis gimbal (if required), quickrelease landing gear, and a dual cam lever tool-less folding mechanism for the airframe. Together with an X8 configuration for maximum redundancy and stability in extreme conditions the OA-8C provides a dependable platform onto which can be tailored a system to match precisely any project requirement.

The unusual airframe design allows for an unprecedented level of flexibility in the overall aircraft configuration, for more information on this, please see 'Configuration' pages below.



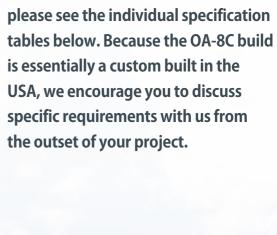
Payload, sensors, communications, flight control, even the physical design of the aircraft can be adapted to align the OA-8C aircraft with any real world demand a project requires. For more information on each aircraft is essentially a custom built in the USA, we encourage you to discuss specific requirements with us from







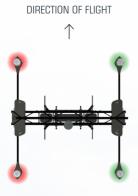
with a payload weight up to 55 lbs.



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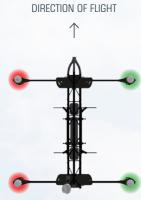
## **OA-8C DRAGONFLY**

### **CONFIGURATION OPTIONS**



#### **'H' FORMAT**

In 'H' format the front of the aircraft is between the arms with the core frame running crosswise. This has advantages for certain payloads where the clear gap between the propellers is needed or the operator needs to clearly see what the payload is doing. Normally this would be for close quarter operations such as accurate spraying or item placement, and with this in mind a camera system can be included on the GPS tower giving excellent operator view.

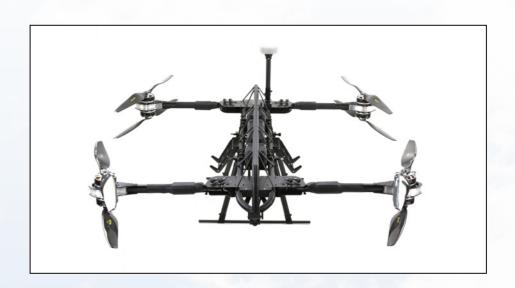


#### 'I' FORMAT

The 'T' format is a more conventional aircraft layout with the core frame structure running fore and aft. In this configuration there is good flexibility for mounting the payload or multiple sensors, lower wind resistance in forward flight, different battery mounting options and the aircraft will normally be fitted with a single axis gimbal and small FPV camera in the nose for pilot view forward or straight down. This is a very useful aid for payload management and remote landing.









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### OA-8C All-Electric

The OA-8C Electric version is highly agile and resilient, and can fly reliably in some of the worst conditions of any multi-copter aircraft.

The specification here is a guideline only to give an idea of what the aircraft is capable of, but we design and optimize all our aircraft to produce the best possible solution for our customers. 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!

• OA-8C Hybrid (Coming Soon)

PHYSICAL		
Configuration	H8 Coaxial	
Airframe diameter (through rotor hubs)	~ 1400mm	
Dry weight*	$\sim$ 14kgs (subject to spec)	
Length	~ 1400mm	
Width	~ 1150mm	
Operating voltage	37V — 44.4V nominal (10s — 12s LiPo)	
Propeller size	28" dual blade	
Anti-vibration mount	Optional	
Flight controller	Various options available most commonly Pixhawk 2.1	
FPV	1200 TVL 1 axis gimbal	
Lights	DayBright navigation lights	
FLIGHT		
Max speed	50mph	
Rate of climb/descent	Adjustable. 2 m/s default recommended	
Max operating altitude	5000 feet ASL	
Max distance from pilot	Subject to RC controller/data link/ legal requirements	
Max range	Subject to flight speed and weather conditions	
Flight time with recommended batteries		
No payload	>30 mins	
5kg payload	~ 22 mins	
10kg payload	$\sim$ 16 mins	
15kg payload	~ 12 mins	
	Flight time estimates subject to the usual factors that affect flight time	
Operating temperature	0-35°C	
Max wind resistance	30mph	
Max take off weight	40kgs	
Max payload	Subject to battery choice	
Weather	Subject to specification	
Control link frequency	433Mhz – 2.4Ghz	
Video link frequency	5.8Ghz (or alternative)	
Autonomous operation	Yes	
Failure modes	Multiple	
Motor redundancy	Yes	

The OA-8C Hybrid version in test is a gas hybrid powered OA-8C Series variants capable of carrying payloads of up to 55 lbs for 4-5 hours. Just like its all electric counterpart this aircraft will be highly agile and resilient, and capable of flying in very difficult conditions.

The specification listed here is only a guideline to give an idea of what may be possible. The flight times we quote are what you are likely to see in the real world with actual flying, not just hovering in perfect conditions.

Flexibility of the design is key and optimization for the particular application is highly recommended. Contact us to discuss the details of you requirement, customization is what we do!

PHYSICAL			
Configuration	H8 Coaxial		
Airframe diameter (through rotor hubs)	~ 1400mm		
Dry weight*	~ 16kgs (subject to spec)		
Length	~ 1400mm		
Width	~ 1150mm		
Operating voltage	44.4V nominal (12s LiPo)		
Propeller size	27.5" Tri – 32" dual blade		
Anti-vibration mount	Optional		
Flight controller	Various options available most commonly Pixhawk 2.1		
FPV	1200 TVL 1 axis gimbal		
Lights	DayBright navigation lights		
FLIGHT			
Max speed	50mph		
Rate of climb/descent	Adjustable. 2 m/s default recommended		
Max operating altitude	5000 feet ASL		
Max distance from pilot	Subject to RC controller/data link/ legal requirements		
Max range	Subject to flight speed and weather conditions		
Flight time with recommended batteries			
No payload	>5 hours		
10kg payload	~ 4 hours 30 mins		
25kg payload	~ 4 hours		
	Flight time estimates subject to the usual factors that affect flight time		
Operating temperature	0–35°C		
Max wind resistance	30mph		
Max take off weight	55kgs		
Max payload	Subject to battery choice		
Weather	Subject to specification		
Control link frequency	433Mhz – 2.4Ghz		
Video link frequency	5.8Ghz (or alternative)		
Autonomous operation	Yes		
Failure modes	Multiple		
Motor redundancy	Yes		

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