

ADV BOAT M-1800



High performance remotely operated / autonomous hydrographic survey boat

Specially designed for hard conditions, M-1800 ADVTECH BOAT can evolve where concurrency cannot: stream with a lot of current, at sea in the swell. Equipped with two trochoidal thrusters, giving both high speed, high efficiency, strong maneuverability, it does what others cannot do.

TECHNICAL SPECIFICATIONS

Physical

Hull Length	180cm (5.9 ft)
Hull Width	70cm (2.29 ft)
Hull Draft	12cm (0.4 ft)
Weight of base Boat (without battery)	25kg
Payload	30kg
Hull Material	Composite fiber

Dual Trochoidal Propeller

Number of blades	3
Rotor diameter (blade axis)	7.5cm (0.24 ft)
Blade length (typical)	8cm (0.26 ft)
Max power (24V-Brushless)	2x2000Watts
360° flux orientation for maintain position (*in option)	

Performance (with 10kg payload)

Typical survey Speed	1 – 2.6 m/s (2-5 Kts)
Nominal speed	4.4 m/s (8.5 Kts)
Top Speed	8.2 m/s (14 Kts)
Battery pack	2 x 24V 16Ah
Battery Endurance (2Nds)	840 minutes (56 km)
Battery Endurance (3.2Nds)	250 minutes (25 km)
Battery Endurance (9Nds)	60 minutes (16 km)

Remote

Navigation Remote Control Unit	TARANIS (Telemetry)
Navigation Remote Control Unit Frequency	2.4GHz FHSS
Navigation Remote control Range	2000m
Data telemetry Range	2000m

Waypoint Navigation

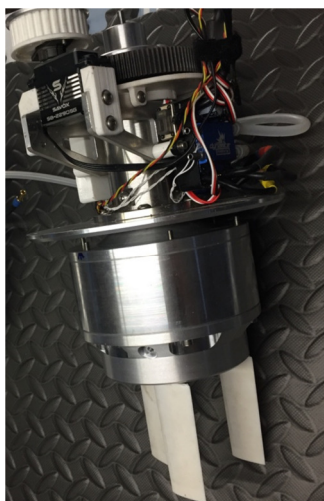
Autopilot Manufacturer	DROPIX
Companion board	Raspberry Pi3
In option remote control by Smartphone or tablet	

Example of instrumentation

Sonar instrumentation :	CADDEN GEOD BALI
ADCP	RIVER PRO & RIOPRO

Due to large hull volume (L70cm x l40cm x H30cm) various range of instrumentation can be integrated (on demand: contact us)

About TROCHOIDAL PROPELLER :



ADV TECH trochoidal propeller is a patented innovative rotor that permits a bio-mimetic “fish-like” motion of blades.

It allows:

- High speed
- Flux orientation on 360° (high maneuverability)
- Very high efficiency