



Phantom 2 AUV

Grounded in Dynaautics' success with Phantom 1, a compact and cost-effective AUV built for the US Navy, Phantom 2 represents the next generation of this modular, subsea vehicle design. The Phantom 2 AUV is a combination of proven and bespoke technologies. It uses our proven autopilot technology and can be scaled to accommodate different payload requirements for enhanced flexibility. 3D models, digital twin creation and simulation enable customisation of the design based on client needs, reducing risk and time to market.

The Phantom 2 AUV is a multi-purpose underwater vehicle with sufficient payload capacity to carry a range of instruments for a several hours. The mission plan can be entirely pre-programmed or can be modified on the fly using software which redirects the mission according to instrument data. Mission parameters can be set dynamically to ensure the vehicle reacts appropriately to events, for example terminating the mission early in the event of low battery or mission data outside safe limits.

MAIN MODULE SPECIFICATIONS (customisation options available on request)

Overall length	2.9m, extended to 3.3m dependent on payload	Payload volume Standard Extended	90.2ltrs (12.7ltrs battery; 2.9ltrs Sprint Nav Mini; net 74.5ltrs) 111.3ltrs (12.7ltrs battery; 2.9ltrs Sprint Nav Mini; net 95.6ltrs)
Diameter (excl. fins)	315mm	Navigation sensors	GPS, Sonardyne SprintNav Mini, pressure depth sensor
Weight in air	122kg excl. payload	Onboard processing	Single board computer running Linux
Speed (cruising)	4 kts	Connectivity via remote (when surfaced)	WiFi Serial via UHF Modem
Speed (sprint)	7 kts	Onboard via wet-mate connectors	Ethernet, CANbus, serial
Endurance	12 hrs at 4 kts	Programming	Via Dynaautics mission planning software
Depth (max)	100m	Mission upload	Over WiFi or UHF with the vehicle in the water
Charge time	24 hrs	Data download	Over WiFi with the vehicle in the water

Contact us to find out how our subsea vehicle technologies could help you achieve your mission: