

THE DRONE REVOLUTION

UNDERWATER



Hydrus, a fully autonomous submersible drone, will revolutionise undersea research, survey and exploration by making data capture easy, safe and affordable.

As an all-in-one autonomous solution, it is operational straight out of the box, without specific knowledge or training required. Using the simple online platform, users can plan and execute underwater missions in 3D. Its compact size and minimal weight means it can be launched by a single person and taken as carry-on when flying.



**ADVANCED
NAVIGATION**

HYDRUS

Autonomous Drone

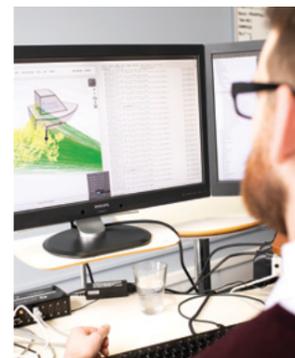
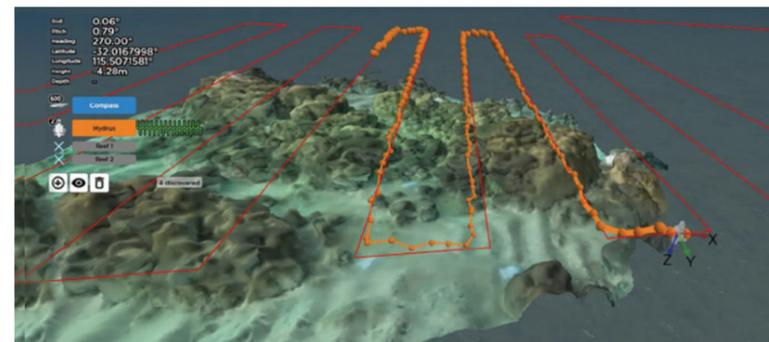
Truly Autonomous

Hydrus takes the drone revolution underwater with the most advanced sonar, navigation and communications systems of any subsea vehicle. It contains a DVL, USBL, INS, acoustic and optical modems, all tightly integrated. This enables highly reliable, fully autonomous underwater missions at your fingertips. It also provides obstacle detection and collision avoidance.



Small and Affordable

Hydrus condenses its advanced features into one of the smallest, and most affordable autonomous underwater vehicles on the market. Its compact size and minimal weight means it can be launched by a single person and taken as carry-on when flying.



Open Platform

Hydrus is able to integrate custom software offering full access to the camera, sensors, navigation, modems and control. The powerful and open architecture is ideal for machine vision and AI applications.

Stunning 4K Imagery

Hydrus produces stunning imagery, even in challenging low light and harsh conditions. Equipped with a cinema-grade 4K 60 frames per second camera combined with an AI engine to analyse image quality - Hydrus can learn what it needs to capture on the fly. It can also create 3D models of underwater objects by combining imagery with its sonar and navigation data.

Simple Mission Control

Hydrus takes complex mission design out of the expert domain and into the hands of anyone that's interested in underwater data. Users only need to access a web browser to use the online platform. Then, simply point and click using the provided map to plan underwater missions in 3D. It's that simple.

Features



DVL
TRANSDUCERS



WIRELESS
CHARGING



INS
AI-ENHANCED
INS



ACOUSTIC
MODEM



OPTICAL
MODEM



4K 60 FPS
CAMERA



FLIGHT SAFE
BATTERY



SMART
LIGHTING



HUBLESS
THRUSTERS



USBL
POSITIONING



E-INK
SCREEN



CONNECTORLESS
DESIGN



Specifications

Speed _____ 4 knots

Range _____ 9 km

Endurance _____ 3 hrs

Depth Rating _____ 3,000 m

Size _____ 470 x 260 x 260 mm

Weight _____ 6.7 kg

Video Resolution _____ 4K @ 60 FPS

Lighting _____ 20,000 Lumen



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