

HERMES C³ - ecoSUB AUV Command, Control & Communications

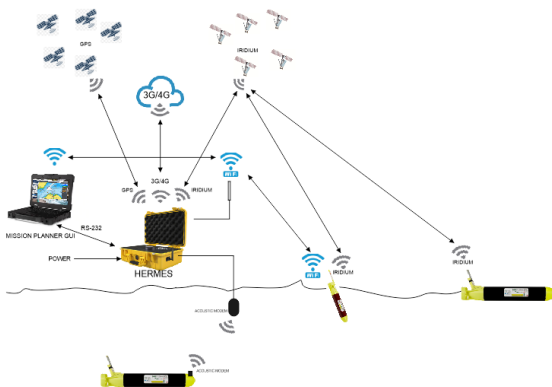
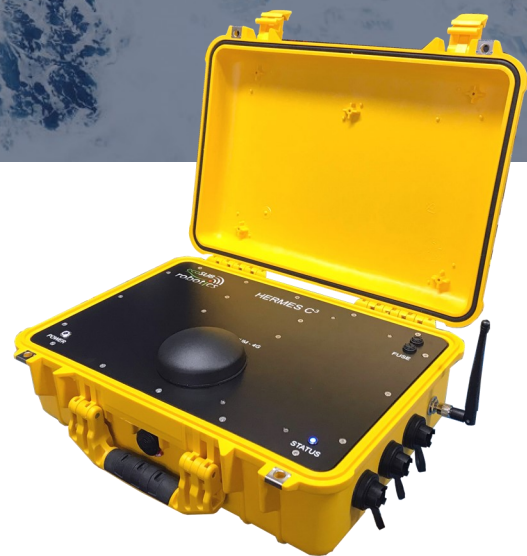
Innovative AUV technology

Increasing accessibility to AUVs

ecoSUB Robotics Limited is committed to making AUV technology accessible to all; reducing the barriers to autonomous system use in the underwater environment

As part of this philosophy, ecoSUB have produced a small, self-contained Command, Control & Communications (C³) system, "HERMES"

HERMES is designed to enable ecoSUB users to connect with their vehicles in any location in the World, simply and efficiently, using a variety and combinations of communications channels including Wi-Fi, Iridium, 3G/4G, RS-232 and Acoustic. HERMES is equipped with GPS for geolocation anywhere and can act as an Long Base Line (LBL) node when required



HERMES has an internal re-chargeable gel battery with at least 24 hour endurance and has a built in GPS—IRIDIUM—3G/4G antenna with external Wi-Fi which allows high gain Wi-Fi antennas to be used where appropriate to increase direct connection range

HERMES can connect to the control PC running **ecoSUB GUI** via cable or Wi-Fi and is provided in a water tight enclosure which allows HERMES to be located outside in the environment with the control PC located nearby

HERMES is fitted with a high capacity untethered roaming SIM and 3G/4G data modem allowing connection to the internet on any network, anywhere ⁽¹⁾

HERMES can be provided in customised OEM versions for inclusion on unmanned surface vehicles wishing to act as data gateways

(1) An airtime agreement is required for this service, and availability may depend on local providers

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Total control, anywhere

A helpful tool for operating ecoSUB AUVs

HERMES is equipped with its own Wi-Fi router to set up a local Wi-Fi network allowing connection between the users computer and ecoSUB vehicles in range. When connected in this way, users can run diagnostics, upload missions and download data directly from the vehicles. A short range antenna is provided but external high gain beam and omni-directional antennas can be connected for use in remote locations to achieve connection distances of > 300m

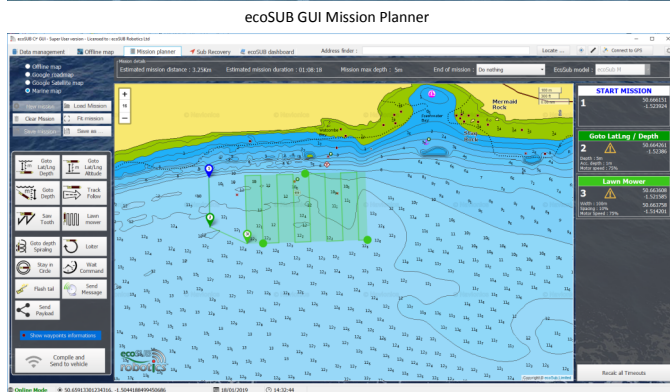
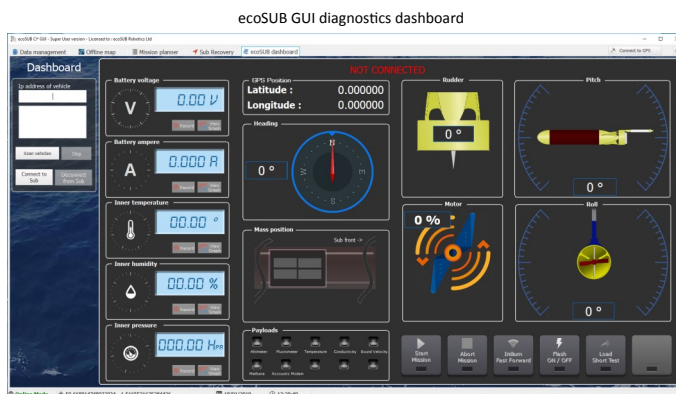
The control PC can be connected via Wi-Fi or RS-232. HERMES is also provided with 3G/4G connectivity, so that users can have internet access for receiving and sending Iridium messages and for using the real-time functions available within the enhanced ecoSUB GUI

When operating out of cell phone range, HERMES is equipped with a specially designed IRIDIUM gateway which allows data exchange between the users computer and vehicles over the horizon and in internet denied areas. This means that users can be in contact with vehicles when on the surface anywhere in the World. An Iridium service contract is required for this functionality, ask for details

For use with ecoSUBs carrying LCAT (Low Cost Acoustic Telemetry), HERMES can be equipped with an optional dunking acoustic modem allowing users to track their vehicles underwater and monitor acoustic network activity as well as receive status information from individual vehicles and re-task missions underwater via the enhanced ecoSUB GUI

Specifications

Size	470mm x 357mm x 175mm
Weight	9.5 kg
Sealing	IP67
Power	External 110/240 vac Internal 12v battery
Battery life	30 hours, typical
Communications	Wi-Fi Iridium SBD 3G/4G with untethered roaming SIM Acoustic (optional)
Location	GPS



ecoSUB μ 5

ecoSUBm25

