OTTER™
UNMANNED SURFACE VEHICLE [USV]
COST EFFICIENT AND RISK-REDUCING MARITIME DATA ACQUISITION
The OTTER™ Unmanned Surface Vehicle (USV) is a turn-key and easily deployable system for seabed mapping and monitoring of sheltered waters.

The OTTER™ is the newest member of our USV family. With a footprint of only 181 x 91 cm and a weight of 60 kg, it is an easily deployable asset that can be transported in a van or even within normal airliners to the survey site. Electric propulsion and a tightly integrated bathymetric survey system makes this system a cost-efficient turn-key solution for bathymetric surveys in sheltered waters such as smaller lakes, canals, rivers, ponds and harbour areas.

Maritime Robotics’ custom Vehicle Control Station (VCS) allows the surveyor to plan the missions in a maritime chart based Graphical User Interface and also monitor the mission and the data acquisition quality whilst the USV is underway.

The autonomous future is electric, and the OTTER™ is equipped with electric tunnel-thrusters that are powered by 4 powerful and easily interchangeable battery packs. This gives the OTTER™ a best-in-class endurance for its size.

The OTTER™ can carry a variety of customer defined sensors for seabed and environmental mapping. Quality control and monitoring of the sensor performance and coverage area are performed via the Vehicle Control Station (VCS).
01 OTTER™ UNMANNED SURFACE VEHICLE (USV)
The twin hull configuration with a large open mid-area offers a large and flexible volume for integrating customer defined payload systems.

02 VEHICLE CONTROL STATION
Sensor and payload data can be monitored in the Vehicle Control Station. Multibeam data, swath width, coverage area, and quality parameters can be displayed in real-time on an intuitive user interface.

03 SPECIFICATIONS
The OTTER™ can be dismantled into smaller components (hulls, mid-section, batteries and payload) so that 1 person can easily transport the OTTER™ to the site of interest.

04 ENVIRONMENTAL MONITORING
Sensors such as ADCP, CTD, fluorometers and other environmental sensors can now be easily integrated and deployed in locations at a fraction of cost of what has been normal or if at all possible.

05 BATHYMETRY
Repetitive tasks like bathymetry are an ideal task for an automated robotic system. The Otter™ gladly takes on these tasks at without the expense or extensive resources a traditional survey requires.
A LEADER IN UNMANNED SOLUTIONS

Maritime Robotics, developer and supplier of the OTTER™, is a leading provider of innovative unmanned solutions for maritime operations and data acquisition. The company develops and delivers Unmanned Surface Vehicle Systems (USV), Moored Balloon Systems (MBS) as well as Unmanned Aircraft Systems (UAS). Our main markets are geophysical surveying, oil & gas, environmental monitoring, and the defence/security market. With technology developed in close collaboration with civilian, governmental and military partners, Maritime Robotics focuses on delivering high-quality system solutions and products that are cost-efficient, reduce HSE risk exposure and are highly deployable, in any conditions.