Depth range: *100 meters*
Endurance: *typical 8 hours @ 3 knots**
24h @ 2kn for specific configurations
Speed: *up to 5 knots**
Hull diameter: *15 cm*
Length: *115 up to 230 cm**
Weight in air: *15 up to 35 Kg**

Standard Navigation:
GPS, AHRS, Depth sensor

Standard Communication:
Wi-Fi and GSM/HSDPA

LAUV

LIGHT AUTONOMOUS UNDERWATER VEHICLE

www.LightAUV.com

LAUV OPTIONS

NAVIGATION

DVL – Doppler Velocity Log
Tactical Grade Inertial Measurement Unit
LBL – Long Baseline
USBL – Ultra-short baseline

COMMUNICATION & SAFETY

Satellite communication module
Underwater Acoustic Modem
Stand Alone Acoustic Marker

SONAR & IMAGE

Side Scan Sonar
Multi-Beam Echo Sounder
Forward Looking Sonar (obstacle avoidance)
Micro-Bathymetry/Nadir Gap Filling
Digital Video Camera

SENSORS

The LAUV can combine several sensors to gather data from the water column. Most common requests are CTD, Sound Velocity, Turbidity, Chlorophyll, Rhodamine and Fluorescein. We are able to offer an extended range of sensors such: pH, Dissolved Oxygen, Redox, Crude and Refined Oil. Other advanced sensors are also possible, such as:

MicroRider micro-structure turbulence measurements
Digital Holographic Particle Imaging System
Magnetometer sensor

** Some LAUV specifications are dependent on the system configuration. We work with the major sonar/sensors manufacturers, please contact us for further details.*

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LAUV

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The LAUV is a Lightweight (one-man-portable) Autonomous Underwater Vehicle that has been deployed worldwide accumulating thousands of hours of real-world operation. Contact us to know more about this affordable, innovative, highly operational and effective surveying tool.

www.LightAUV.com

LOW LOGISTICS

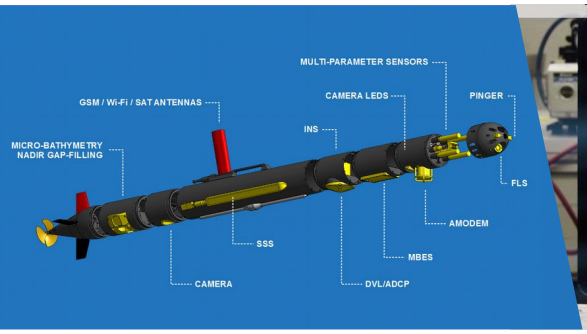
A very simple operational setup including a laptop and a portable communication hub enables full operation of one or more vehicles. The LAUV can be deployed from shore, a pier or a small boat without the need to use a crane or special tools.

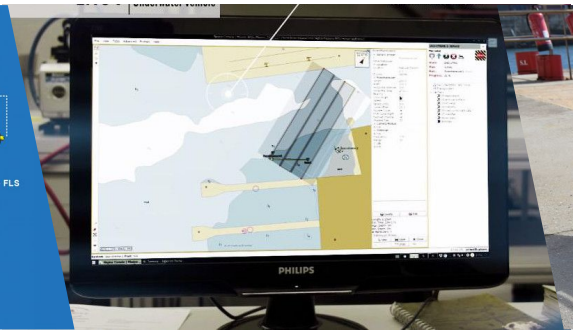
ONE MAN PORTABLE

The LAUV can be easily deployed and recovered by a single person, due to its small size and lightweight.

ROBUST & RELIABLE

To ensure practical usefulness and full operationality in the harshest environments, all the design options concerning mechanical, hardware and software developments are thoroughly tested before release.





MODULAR DESIGN

Payload and navigation options are integrated as independent modules that can be installed later or replaced by different modules and/or user developments.

OPEN SYSTEM

The software suite of the LAUV is based on the open source LSTS toolchain from Porto University. Users can easily reuse code to add new algorithms, behaviors and sensors.

AFFORDABLE

An affordable tool designed to be cost effective, including reduced operation and maintenance costs.

OceanScan
Marine Systems & Technology

OceanScan-MST mission comprehends the design, development and commercialization of innovative systems for oceanographic surveys, environmental monitoring and underwater inspection applications.

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