MARINER X

UNMANNED SURFACE VEHICLE [USV]

COST-EFFECTIVE AND RISK-REDUCING MARITIME DATA ACQUISITION

The MARINER X Unmanned Surface Vehicle (USV) is a multi-purpose unmanned vehicle for offshore and coastal applications. The Mariner X can be launched from port and transit offshore or deployed from vessel based davit. Designed primarily for survey not speed, the vessel has two actuated moonpools and two dedicated sensor positions.

The MARINER X USV is made of polyethylene and offers a very stable, unsinkable and near maintenance- free construction.

Maritime Robotics SeaControl allows for command and control of the MARINER X with SeaSight providing situational awareness through radar, AIS and camera integration.

As standard the USV is fitted with a GNSS Compass, Class B AIS, Cameras, WiFi and LTE Modem. The deck space has a rail system to allow for mounting of custom payloads including survey navigation, satellite communications, deck generators, winches, and deck cargo.

A truly customisable vessel, the bow area hosts the Maritime Robotics core hardware and payload racks with communications and radar under a dedicated protective radome. This leaves a large backdeck for custom applications. MARINER X CLASS USV, a self-contained platform including everything needed to commence integrating your sensors of choice.

MARITIME ROBOTICS

MARINER X

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SPECIFICATION

Length x Width x Height	900 x 250 x 300cm 354.3" x 98.4" x 118..1" (Designed to fit within a container footprint for shipping. 2.8m wide with field installed fender)
Draft	100cm, 39.4" (Sensors to 150cm)
Dry Weight	7000kg, 15432.36lbs
Hull material	HDPE
Propulsion	YPrimary: Yanmar 4LV230 with Hamilton HJX29 Jet Redundant: Twin Torqeedo Cruise 10.0 with 11.2kW battery bank
Endurance	Primary: Capacity 2000L Diesel: Approx. 3L/Hour @ 4 knots gives range in excess of 2500 NM. Endurance up to 25 days*
Speed	Maximum 12 knots Cruise 8 knots (For efficiency) Survey 4-5 knots
Command and Control	Maritime Robotics SeaControl (Operator Station: Rack mount or Rugged Laptop) Industrial Remote Control for Launch and Recovery
Situational Awareness	Maritime Robotics SeaSight Radar AIS Camera
Hi-bandwidth communications	✓
Available Power	12VDC system with 12V Alternator 1.5kW 24VDC system with 24V Alternator 0.5kW 230VAC system (Inverter) 1 kW Option: 230VAC Generator 6.5kW
Options	SVP WInch, Seakeeper, VSAT, Single point lift, Payload AC

* Operating in this way exceeds manufacturers guidelines for planned maintenance of engine *250 hours or 10 days.

Applications

Profiling Winch	AUV Launch and Recovery/Charging	UAS Docking Platform/Tethered Drone
Towing Winch (Sidescan, Magnetometer)	Cargo Transport	ROV Handling
	Sub Bottom Profiling	MBES

A LEADER IN UNMANNED SOLUTIONS

Maritime Robotics 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-effective, reduce HSE risk exposure and are highly deployable, in any conditions.

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