

# The Mariner

Sea drone by Maritime Robotics

**Uncrewed surface vessel (USV) for coastal and open waters.**  
Robust and effective, designed for precise data acquisition,  
environmental monitoring, and surveillance.



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## Boost operational range and efficiency

Incorporate the **Mariner USV** into your fleet to expand your survey, monitoring, and exploration capabilities. Its **dual-mode operation** (autonomous and remote-controlled) ensures flexible deployment while reducing costs. For environmental monitoring or surveillance, the Mariner acts as a **force multiplier**, improving situational awareness, minimizing risk, and delivering results even in confined or offshore environments.

→ **Ideal for ocean mapping, environmental monitoring, and advanced exploration.**

## Custom payloads for every mission

The Mariner is built to accommodate a wide array of **sensors and sonars** for precise, high-quality data collection. Thanks to its **modular payload system** (including moonpool elevators or fixed gondolas), you get optimal sensor placement and reduced interference. It's the perfect platform for **ROV support**, seabed studies, and multi-sensor integrations tailored to your operational goals.

→ **Maritime surveillance-ready: Equip custom payloads for real-time target tracking and area security.**

## Durable, agile and build for precision

Constructed with **lightweight yet rugged polyethylene (PE)**, the Mariner delivers high durability with low maintenance. Its **shallow draft** and **waterjet propulsion** allow for fine maneuverability in close-range or shallow environments. From coastal surveys to deepwater inspections, the Mariner is built to reach areas that traditional vessels cannot.

→ **Proven for offshore pipeline monitoring, subsea platform inspections, and well surveys using onboard sensors.**



# Specifications

FEATURE	DESCRIPTION	STANDARD	ADD-ON
Dimensions (LxWxH)	5980 mm x 2060 mm x 2700 mm	✓	
Dry weight	2000 kg	✓	
Draft*	500 mm	✓	
Hull material	Polyethylene (PE)	✓	
Moonpool wells	1	✓	
Propulsion	Hamilton Jet with 196 hp Yanmar Diesel Engine	✓	
Bow thruster	Standard for precise slow speed navigation	✓	
Top speed*	24 kn	✓	
Sea State (Beaufort)*	4 (survey), 6 (transit), 7 (survival)	✓	
Standard fuel tank	200 liters	✓	
Fuel capacity*	72 h operation time at survey speed	✓	
Power systems	12VDC, 24VDC, and 230VAC	✓	
Autonomous & remote control	Maritime Robotics <b>Autonomous Navigation System</b> & industrial remote	✓	
Vehicle control	VCS Rugged Laptop	✓	
Awaereness systems	Camera / AIS class B / Radar	✓	
Communication	LTE (4G)	✓	
Additional communication links	Long-range radio / Starlink / Other over-the-horizon (OTH) services		✓
External control	Navigate using third-party control software for full integration		✓
Formation mode	Operate several USVs following a mother vessel for scalable operations		✓
Rack mount VCS computer	Designed for fixed installations and control centers		✓
Enhanced Situational Awareness	Maritime Robotics <b>SeaSight</b> , AIS Class A, and VHF integration for extended awareness		✓
SeaCapture software	Seamless, high-resolution data acquisition and mission logging		✓
Extra fuel tank	Additional 200 L tank for extended mission duration		✓
Additional generator	Increased power supply for advanced sensor payloads		✓
Redundant propulsion	Twin electric pods for backup propulsion and increased reliability		✓
Launch & Recovery system	Choose between cradle-based or trailer-based systems for flexible deployment		✓
Winch	Autocast SVP winch for instrument deployment		✓
Payload mounting system	Moonpool elevator or fixed gondola		✓
Various payload integrations	Modular sensor options for survey, inspection, support, and environmental monitoring. ISR optional.		✓
Certification	DNV-ST-0342		✓

\* Depending on conditions and payload integrations.