



M40P

Marine Survey USV Platform



7 KN | **48H @ 4KN** | **80 KG**
Max. Speed | Endurance | Payload



MBES



Side Scan Sonar



Sub-bottom Profiler



Magnetometer

The M40P USV is a flexible, multi-purpose surveying USV platform with a shallow draft, ideal for hydrographic and geophysical surveys in shallow water, coastal, and offshore areas. It features an auto winch that supports SVP/CTD profiling. This modular design significantly enhances working efficiency. The catamaran hull design with low acoustic interference delivers higher-quality survey data.

Typical Applications

Seabed Mapping, Pipeline and Cable Route Inspection, Marine Construction, Marine Environmental Research, Marine Life Monitoring, and Geomagnetic Observation

Key Features

- 1 Anti-rolling and wave-piercing catamaran hull design ensures high-quality survey data
- 2 Hybrid power system provides up to 100 hours of endurance, reducing carbon footprint
- 3 Auto lifter protects sensors from accidental grounding or collisions
- 4 Auto winch system supports SVP / CTD profiling
- 5 High-accuracy autonomous navigation control algorithm realizes precise run-line tracking
- 6 Advanced collision avoidance system secures navigation safety

SPECIFICATIONS

Physical

Dimension	4.5m(L)*2.33m(W)
Weight	1.4t
Draught	0.4m
Hull Material	Marine Aluminum Alloy
Deck machinery	Auto Lifter, Auto Winch

Performance

Max Speed	7 kn
Survey Speed	4~5 kn
Endurance	48h @ 4kn
Operation Sea State	Sea State III
Payload	80kg

Power & Propulsion

Propulsion	Outboard Electric Motor × 2
Power	Lithium Batteries / Diesel Generator
Fuel Capacity	Diesel 50L × 2

Navigation Aids & Safety

Situation Awareness	Navigation Radar, AIS, Camera
Collision Avoidance	Yes

Control & Communication

Control Mode	Remote Control / Autonomous
Communication	Wifi / Radio / 4G
Software	OceanAlpha USV Navigation & Mission Software

INTEGRATIONS

MBES

Sub-bottom Profiler

Side Scan Sonar

Magnetometer

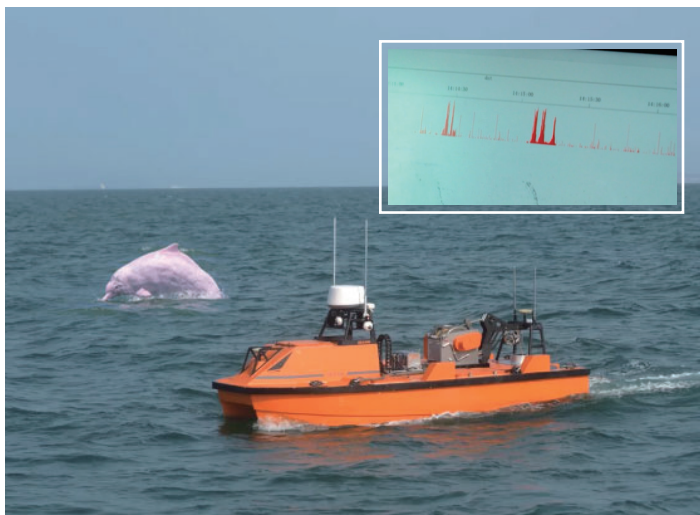
Water Quality Sonde

ADCP

USBL

Towing Support: Magnetometer

APPLICATION CASE



UNMANNED SHIPS APPLIED TO PROTECT THREATENED MARINE LIVES

EQUIPMENT USED:

M40P USV, Passive Acoustic Monitoring devices

APPLICATION:

USV equipped with sonar devices sailed on the designed route within the natural reserve. The acoustic equipment towed at the stern quietly recorded the sounds of the white dolphins, which provide essential data support for the scientific research.

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