ME120

HYDROGRAPHIC SURVEY USV

10 KN | **8h @ 4KN** | **45 KG**

Max. Speed | Endurance | Payload


MBES


Water Probe


Side Scan Sonar


ADCP

The ME120 is designed for autonomous hydrographic and oceanographic surveys from inland waters to coastal areas. Compatible with small multibeam sonars as well as other survey instruments, the convertible catamaran design can be easily assembled and disassembled, quickly changing and installing different instruments during a survey, and transported by van.

Application Scenario

Hydrographic Survey and underwater inspection in lakes, rivers, harbors, construction sites, nearshore etc.

Key Features

1. Intelligent route planning Autonomous navigation collision avoidance
2. Catamaran hull enhances sailing stability and data quality
3. Auto wet-end lifter to protect instruments and improve sailing speed
4. Easy to maintain: batteries, instruments and engines can be quickly replaced
5. Modular design for quick transportation and deployment
6. Mobile online survey, can return video and acoustic data in real time

SPECIFICATIONS

Physical

Dimension	2.5m(L)*1.4m(W)
Weight	150kg
Payload	45kg
Draught	0.45m
Hull Material	Carbon fiber composite

Power & propulsion

Propulsion	Duct type thruster
Power	43.2V/50Ah lithium battery*4

Performance

Survey Speed	4kn
Maximum Speed	10kn
Endurance	8h @ 4kn
Real-time Video	Yes
Collision Avoidance	Yes

Control & Communication

Remote Control	1km
Data Telemetry	2km / 5km
Control	OceanAlpha USV Control Software

INTEGRATIONS

Single Beam Echo Sounder | Compact Multibeam Echo Sounder | Inertial navigation system | Lidar | ADCP | RTK GNSS receiver | Multi parameters water probe | etc.

CASE APPLICATION

UNMANNED BOAT APPLIED IN BRINE LAKE OF HIGH SALINITY

EQUIPMENT USED:

ME120 USV, Single-beam depth sounder

RESULT:

ME120 joined the national potash mining project conduct routine bathymetry surveys in Brine Lake which the salinity is ten times of seawater. The anti-corrosion and anti-salt spray capabilities of USV successfully met this huge challenge. At the same time, the smooth communication of video and data can be well achieved through the private network of the USV, regardless of the poor public network communication in the remote Tarim Basin.

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