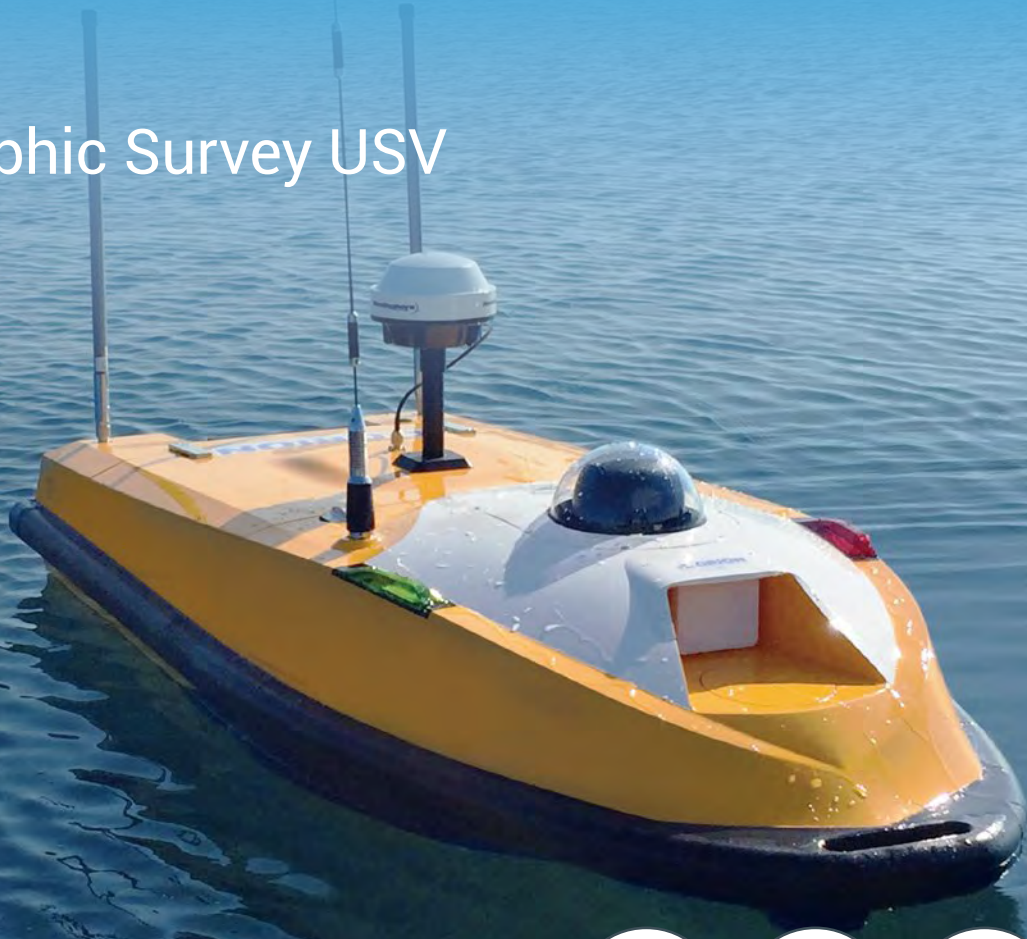


## SL40

### Hydrographic Survey USV



**10 KN**

Max. Speed

**8h @ 3KN**

Endurance

**25 KG**

Payload



SBES



MBES



Side Scan Sonar



ADCP

The SL40 USV is designed as a multi-mission hydrographic survey platform and flexible payload mounting make it possible to adapt to different payloads like SBES, MBES, side scan sonar, ADCP, etc. Compact size allows two-person portable and mobilization, powerful engine and long endurance battery maximize the hydrographic survey efficiency in shallow water like lake, river, canal and harbor area. It is the ideal platform to replace conventional works with more economic benefits and protect our surveyor from operation risks on the water.

#### Application Scenario

Hydrographic Survey and underwater inspection in lakes, rivers, harbors, construction sites, tailing dams, hydropower plants, etc.

#### Key Features

- 1 Carbon fiber composite, rugged and durable hull
- 2 A powerful water-jet brings 10kn top speed and protects the propeller from debris and water plants.
- 3 Big payload bay and interchangeable payload mount, ready to integrate
- 4 Collision avoidance and PTZ camera for real time video stream
- 5 Two-person portable, easy to mobilize and deploy for survey
- 6 Long endurance battery life and easy to replace battery on field

# SPECIFICATIONS

## Physical

Dimension	1.65m(L)*0.7m(W)
Weight	42kg (with battery)
Payload	25kg
Draught	0.15m
Hull Material	Carbon fiber composite

## Power & propulsion

Propulsion	Electric water jet
Power	33.6V/40Ah Lithium battery x 2

## Performance

Survey Speed	3kn
Maximum Speed	10kn
Endurance	8 hours @ 3kn
Real-time Video	PTZ camera
Collision Avoidance	Yes

## Control & Communication

Control Mode	Remote Control / Autonomous
Remote Control	1km
Data Telemetry	2km
Software	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



## USV CONDUCT AN AUTONOMOUS SURVEY ON RESERVOIR

### EQUIPMENT USED:

SL40 USV, SBES, RTK

### APPLICATION:

The SL40 is integrated with a single beam echo sounder and RTK GNSS receiver for bathymetry survey, surveyors use SL40 USV to conduct a survey of a dam to determine the water storage capacity of the reservoir, with a 15cm low draught, and the USV is able to cover almost the full water depth and acquire bathymetric data efficiently.