

# Monodrone 1300

Unmanned Surface Vehicle



## Monodrone 1300

MONODRONE 1300 is a multi-mission, flexible shallow water Unmanned Surface Vehicle and easy to transport and deploy.

MONODRONE 1300 is a very versatile multi-sensor (ADCP, single beam, environmental sensor) autonomous surface platform easy to operate in difficult accessible areas.

The MONODRONE 1300 endurance is more than 3 hours @1.2ms depending on the weather conditions.

The hydrodynamic shape design of MONODRONE 1300 induce a stable platform for the survey and thereby delivers high-quality data.

An autonomous boat that can sail precisely in accordance with pre-programmed mission planning. A cutting edge technology which make the survey safe and affordable with a diversity of applications, all the while maintaining the highest standards of data quality.



## TECHNICAL SPECIFICATIONS

### Dimensions

Length, width, air draft, draught :	1.30m,0.66m,0.30m, 0.15m
Weight :	19kg
payload :	6kg
Moonpool :	250*200mm

### Performance

Speed (max) :	2.3 m.s
speed (survey) :	1.3 m.s
Propulsion :	2 brushless motors

### Power system

Battery :	Lith-Ion 1,2 kWh
Endurance :	3h @ 1.2 m.s
Charging time :	1h
Survey power :	312 Wh

### Communications

Radio RC (remote control) :	800m range 5 GHz
Autopilot :	Mission planning, automatic waypoint navigation, real-time feedback
Telemetry :	Tri-band telemetry 2.4/5 GHz / LTE

### IT options

Rugged PC :	Rugged computer
Navigation software :	Compliant with all hydrographic solutions

### Storage and transport options

Launch and recovery system :	Back pack
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### Positioning Equipment

GNSS receiver L1/L2 and compass :	RTK, L1/L2 frequency multi-constellation, 0.2 ° Heading
NTRIP Modem in option	
IMU in option	
Datalogger in option	

### Payload (can be installed on demand)

Echo sounder single beam, CTD, SVS, environmental sensors.