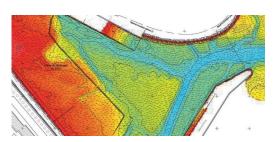
Monodrone 3000



Unmanned Surface Vehicle







Monodrone 3000

The MONODRONE 3000 is a rugged, multi-mission, flexible, shallow water USV, design for complex coastal environments and harsh conditions.

It provides a 65 kg payload and a multi-sensor platform which is capable of integrating a number of survey sensors including a winch to collect data into the water column until 100 meters and telemetry/video links with deep learning capabilities.

The MONODRONE3000endurance is more than 8 hours @2m/s depending of the weather and sea state conditions.

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

Monodrone 3000

TECHNICAL SPECIFICATIONS

Dimensions

Length, width, air draft, draught : Weight : payload : Moonpool :

Performances

Speed (max) : Speed (survey) : Propulsion :

Power system

Battery : Endurance : Charging time : Kill switch

Communications

RC Radio : Wi-Fi Autopilot :

Telemetry Telemetry option :

IT Options

Survey computer : Navigation (FPV) in option : Software :

supervisions Options

HD Cameras : Target detection : Lidar : AIS :

Storage and transport options

Launch and recovery system :

Equipement de navigation

GNSS : Base station : IMU motionsensor : Modem :

Charge utile

Sound Velocity : Multibeam : Singlebeam :

Option treuil

Winch system : **Ad-on & sensor options** (on demand) AIS, RTK G NSS, Deep learning -ROS -Embedded computer, 360°/4K/Thermal/IR camera,SBES, ADCP,

3m, 1.17m, 1.20m, 0.65m 220kg 65kg 300x300mm

7 m.s 2 m.s 2 x 4000W (16HP) Electric

2x5 kWh - 48V (Up to 10Kwh) lithium battery 8h à 1.5 m.s 9h

2000m range, frequency 5 GHz 3000m long range high bandwidth modem 2.4 GHz Mission planning, automatic waypoint navigation, real- time feedback Radio 5 GHz Radio modem for long distance - LTE

Rugged survey computer Live remote control Compliant with the all the market hydrographic solutions

Forward and backward looking cameras Target detection Laser scanning (100m) AIS Transponder option

Cage

RTK receiver L1 L2, multi constellation Base GPS RTK SBG® Apogee, SBG ®Ekinox, Ixblue® Octans Modem 4G

AML ®SV-Xchange ... Kongsberg®, Norbit®, R2 Sonic®, Teledyne® ... Simrad®, EA40®, PA500® ...

30m depth in the water column - option 100m, electrical winch

IMSolutions info@im-solutions.fr | www.im-solutions.fr