

# Geodrone 6800

Unmanned Surface Vehicle



GEOMATICS ENGINEERING SOLUTIONS



## GEODRONE 6800

The Geodrone 6800 is the latest addition to our drone fleet and is designed for offshore conditions.

With a maximum payload of 500kg and a high endurance, this robust vessel is an ideal multi-sensor platform for offshore survey activities.

The vessel is equipped with a moonpool suitable for the installation of various sensors.

The mission planning software enables the operator to efficiently execute a survey fully autonomous.

The Geodrone 6800 can be used as a force multiplier for an existing survey vessel or can be deployed as a stand-alone vessel for nearshore work.

### SPECIFICATIONS

#### Dimensions

Length,	6,97m
Beam including fenders	2,49m
Air draft,	max 2,4m
Draught	0,43m @ 1806 kg
Weight	2000 kg
Payload	500 kg
Moonpool	50x50cm
Hull type	Aluminium monohull

#### Performances

Speed (max)	10 knots
Speed (Survey)	6 knots
Motorisation	2x26.5 Yanmar Diesel engines = 53 kW (2x36 = 72 HP)
Fuel	Diesel 120 Liters

#### Power system

Payload system voltage	12v + 230V AC inverter
Max Payload power	1,5 kW

#### Communications

R/C radio	RF Designe 868 MHz, Fr SKY, Futuba 2,4GHz
R/C charging time	3 hours
Wifi	Wifi 2,4GHz- doodle labs - 3000m 5GHz
Autopilot	Ardupilot + ROS (Mission planner, QGround control, UGS, MAV proxy) + Driver for Quinsy, Hypack, PDS, NAVAQ.
Max Control Distance	Module mesh DTC: 3000m - 5000m RF 868MHz: 1500m Wifi 2,4GHz- Doodle labs: 3000m
Radio	RF Design 968MHz (control) Wifi 2,4GHz (Doodle Labs) Wifi (5GHz) Option DTC Mesh triband (1,25MHz to 20MHz) UHF Radio
Radio Use / Satelite use	Remote Manual Navigation control Autopilot Navigation control Data Acquisition / Data Exchange

#### Supervision options

HD Cameras	2xFLIR M364C Thermal PTZ Camera + Pan & tilt
Video target detection	Target detection, identification (Artificial Intelligence)
Lidar	Laser scanning (100m)
AIS	Class B AIS Transponder

#### Survey Equipment

Winch	SVP, SSS towing, Magnetometer Towing
Multibeam sonar	Kongsberg EM2040P or R2sonic 2024 or Norbit WBMS Trimble positioning, Radio Modem, Gyro, Motion sensor, Mini SVS, SVP, ASV computer,

#### Ad-on & sensor options (on demand)

Single Beam, Lidar, Sidescan Sonar, Sub bottom profiler, Wheater Station, ADCP, ...