

# Geodrone 6800

Unmanned Surface Vehicle



## 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 autonomously.

The Geodrone 6800 can be used as a force multiplier for an existing survey vessel or can be deployed as a standalone 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, ...