

SIREHNA SIR 175

BATHYMETRIC USV



BATHYMETRIC REMOTE CONTROLLED SURFACE VESSEL

The SIR175 is a 1.75m deck-hulled vessel constructed of Epoxy plywood propelled by 2 fixed electric motors. It carries all the electronics required for remote controlled navigation, batteries and the payload for bathymetric surveys. All of its equipment is battery-powered.

A retractable mast passing through the hull thanks to a moonpool allows the multibeam echosounder, the attitude control unit and the GNSS receiver to be attached.

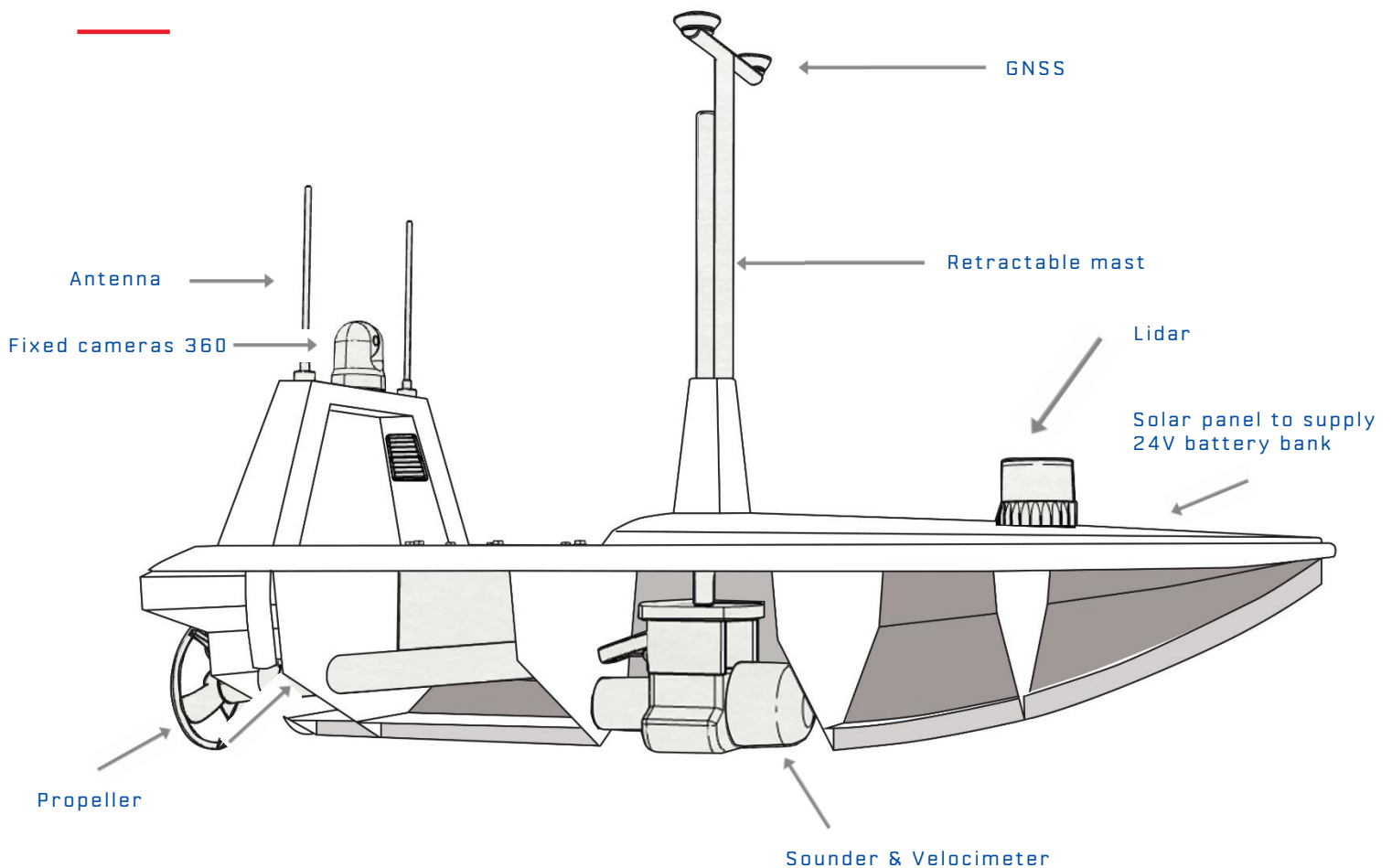
This mast allows the multibeam echosounder to be submerged to a depth of 60cm below the waterline, thus improving the quality of measurements by minimizing the impact of disturbances. The mast is designed to minimize vibrations due to water flow.

The SIR175 epoxy plywood hull offers a high lightness and stiffness, high fatigue resistance and very low maintenance costs. The use of epoxy plywood also allows a lower energy consumption coupled with electric motors, a battery pack and solar panels, making the SIR175 a low maintenance and silent boat

SPECIFICATIONS

• LOA	1.75m
• BEAM	0.64m
• DRAUGHT	0.30m
• MAX SPEED	6 knots
• AUTONOMY	Full time
• BATTERIES	2 x 12V
• PROPULSION	2x 450W
• WEIGHT	110Kg

SIR 175



PAYLOADS & NAVIGATION EQUIPMENT



PROPULSIONS & AUTONOMY

- 2 x 450W
- 2 x Batteries 12V
- 2m2 solar panels
- 1 x battery charger



SENSORS & COMMUNICATION

- One GNSS & heading
- One sounder
- One velocimeter



SITUATIONAL AWARENESS

- One camera 360° night & day
- One LIDAR 360°
- One LED flash light
- LED navigation light