

POLECAT AUTONOMOUS SURFACE VEHICLE

A low-cost multi-role ASV

The Polecat is a low-cost multi-purpose vessel, that can be used for several roles and missions.

- > Functioning as a target boat, Polecat can either autonomously navigate pre-defined waypoints or be operated remotely.
- > The aluminum hull design ensures that any skilled welder can carry out repairs.
- > With a single-point lift system and a diesel engine, the Polecat can be conveniently stored, supported, launched and recovered on a wide range of vessels.

As an attributable asset, the Polecat has a payload capacity of 400kg, with an endurance range of 408 miles at 12kts.

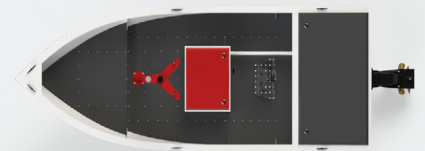
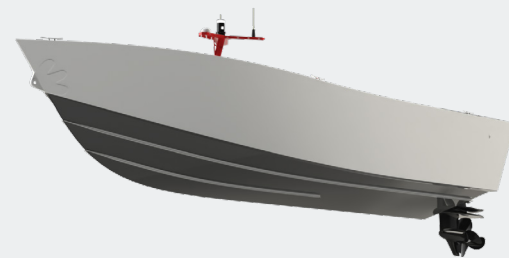
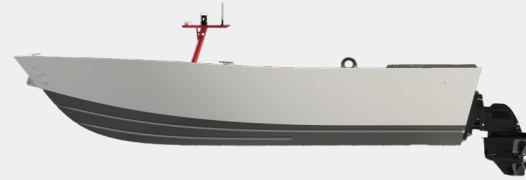
As an autonomous test bed, Polecat provides an upgradable baseline to host additional processors or sensors, enabling third-party algorithm and payload testing. There is also an upgradable 12V 110A output available.

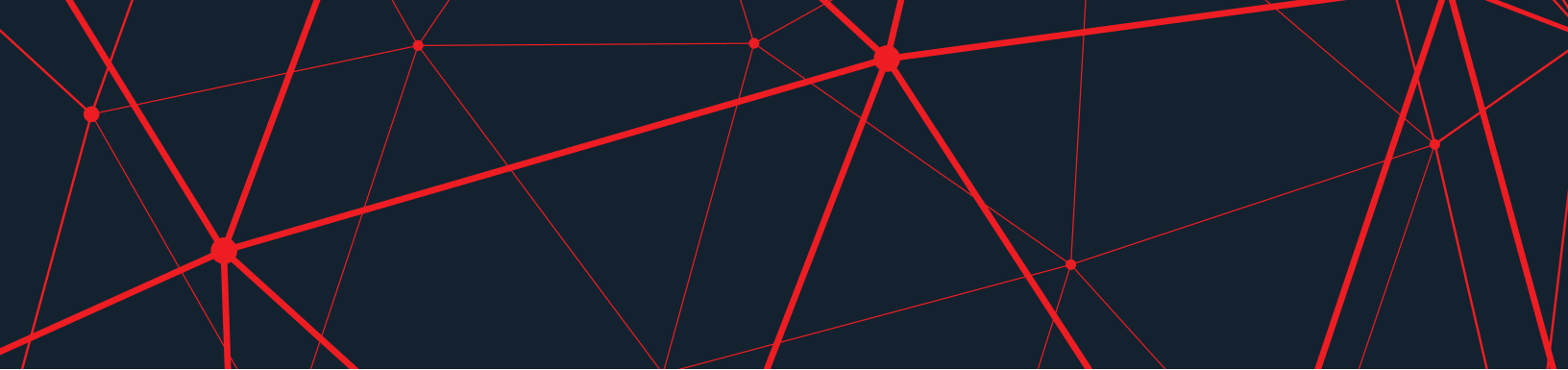
FUNCTIONS AS STANDARD

- > 2km communications range
- > 33kts top speed
- > 8 hours endurance @ 30kts
- > 20 hours endurance @ 20kts
- > 400kg payload
- > Emergency stop system
- > Remote control via PC
- > Aluminium construction
- > A Single Point Lift
- > Diesel in-board
- > GEO-fence function
- > GPS & compass
- > Structure designed to ISO12215 Category B Offshore
- > Engines IMO Tier III compliant

UPGRADE OPTIONS

- > Extended communication ranges, 18Km, 60km or global coverage
- > Camera feed
- > Automated obstacle avoidance
- > Automated route planning
- > Remote control via hand-held unit
- > Remote payload operation
- > Increased endurance
- > Ballistic protection
- > Optionally crewed station
- > Follow target function
- > Prioritization order of data sending
- > On-board VHF relay
- > Increased electrical capacity





TECHNICAL SPECIFICATIONS

POLECAT	
Length	5.88m/19.29ft
Beam	2.05m/6.72ft
Draft	0.4m/1.31ft
Height	1.1m/3.6ft (keel to deck)
Weight	1.15 tonnes (lightship) 1.8 tonnes (fully laden)
Construction	Aluminium
Bow Thrusters/Propulsion	170hp Diesel Inboard Engine
Max Speed	33kts (fully laden)
Payload Capacity	Up to 400kg
Fuel Capacity	280 litres/61.6 gallons
Transit Speed/Range & Endurance at 12kts	408 miles, 34hrs
Transit Speed /Range & Endurance at 30kts	240 miles, 8hrs



Polecat Specifications

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