



AUTONOMOUS RESPONSE

OCEANSLED® SERIES EXPLORER



The OceanSled® Explorer is built to civilian specification and is Shift's advanced autonomous uncrewed surface vehicle (USV) designed for maritime tasking, modular payloads and rugged operations in the littoral domain. Equipped with the customer in mind, using state-of-the-art sensors, and real-time data integration capabilities, the OceanSled® Explorer is a versatile solution for both cargo movements and coastal monitoring, assessments and mapping.

BENEFITS

IMPROVED DOMAIN AWARENESS: The Explorer realizes its full potential when enabled through CiMS™ software and coupled with a rich sensor suite. The Explorer provides a secure platform for maritime presence and persistence operations requiring real-time information for accurate decisions and timely actions.

EFFICIENT AND USABLE: The Explorer offers an intuitive operating experience for field personnel and remote command centers, reducing training requirements and personnel overhead. Uncrewed missions allow for extended operations and minimizes training and personnel requirements.

MULTI-MISSION FORCE MULTIPLIER: The Explorer's open design allows for deployment of various payloads, even a nested ROV or UAV along with a variety of on-board sensors, offering versatility and allowing your team to do more with less.

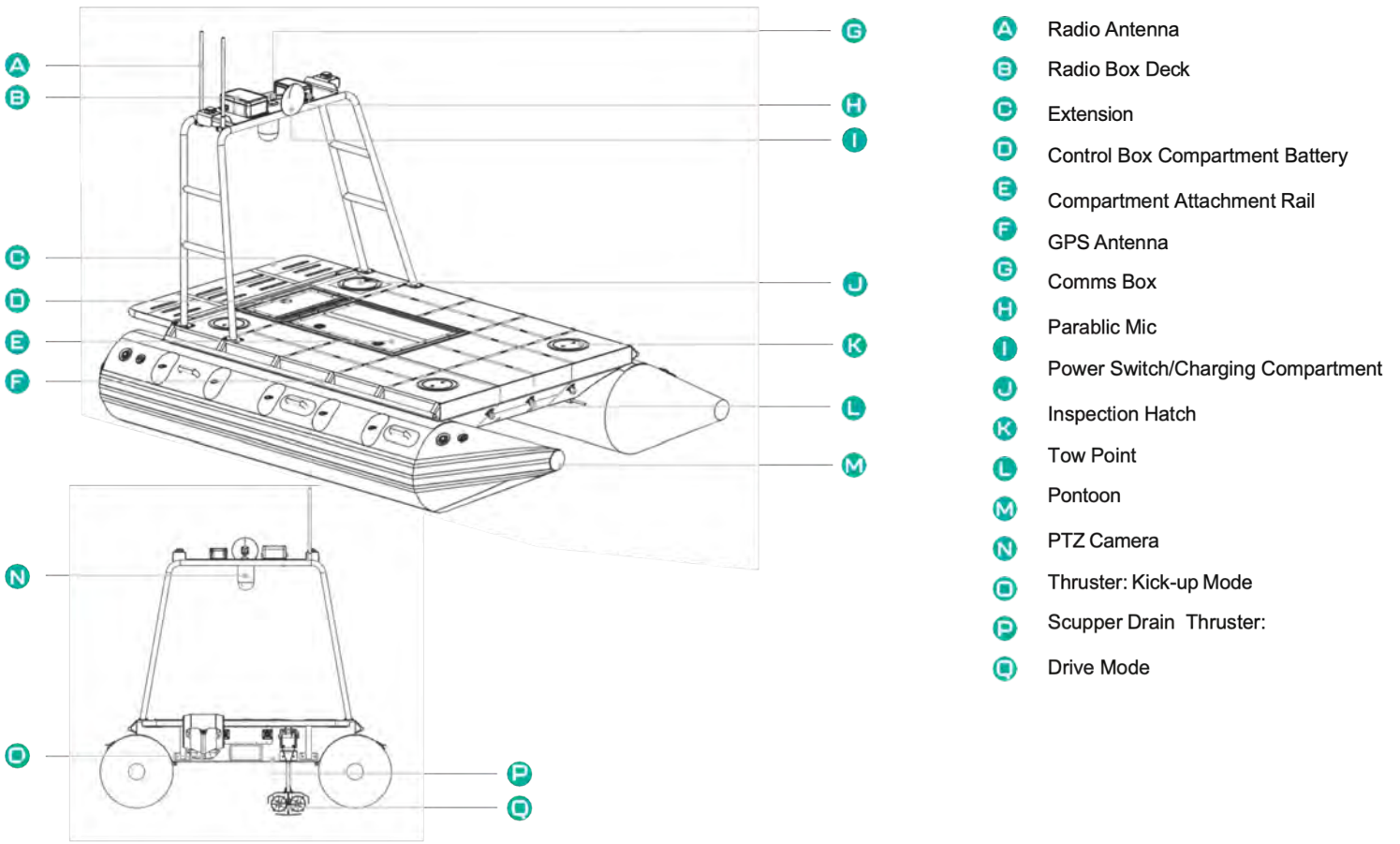
FEATURES

- Advanced sensor suite
- Autonomous navigation
- Low detectability
- 500 kg Payload
- Surf/estuary/river capable
- Real-time data capable
- Two way voice communications
- Automatic station keeping

APPLICATIONS

- Asset inspection
- Under water imaging
- Digital twinning image capture
- Ship to Ship and Ship to Shore logistics
- Marine mammal detection
- Marine construction monitoring
- Hydroacoustic work

COMPONENTS & SPECS



- A** Radio Antenna
- B** Radio Box Deck
- C** Extension
- D** Control Box Compartment Battery
- E** Compartment Attachment Rail
- F** GPS Antenna
- G** Comms Box
- H** Parabolic Mic
- I** Power Switch/Charging Compartment
- J** Inspection Hatch
- K** Tow Point
- L** Pontoon
- M** PTZ Camera
- N** Thruster: Kick-up Mode
- P** Scupper Drain Thruster:
- Q** Drive Mode

ELECTRICAL

Battery Power	48VDC, LiFePO4 Battery, 96 Ah — Smart Battery Management
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PHYSICAL

Length Overall	3.6 m — 11.10"
Length On Deck	2.3 m — 7'5" / ext 2.8 m — 9'1"
Beam	2.2 m — 7.4'
Deck Area	3.8 m ² — 41 ft ² / ext 4.6 m — 50 ft ²
Displacement	280 kg — 616 lbs
Operating Temp.	0-40°C — 32-104°F
Max Speed	6 knots — 11 km/h
Payload	454 kg — 1,000 lbs

SENSORS & COMPONENTS

Lights	Transport Canada Compliant Navigation Lights
Auto-Pilot	3 x IMUs, 2 x Barometers
Handheld Controller	900 MHz, LOS
Camera	1080p, 20x Optical Zoom 360° pan, 135° tilt
Field Control Center	Custom Pelican Case with full featured PC and Controller

OPERATIONAL

Launch & Recovery	Beach or Boat/Ship
Transport	Trailer
Sea State	Up to Beaufort Level 6

