



LeeWay Odyssey

Vessel Specifications

38 metres in length

9.1 m x 7.5 m working deck

24-person accommodations

Near Coastal 1 - 200 NM offshore operability



LEEWAY
MARINE



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LeeWay Marine owns and operates a fleet of vessels, and coordinates operations to support our clients in the acquisition of ocean data.

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LeeWay Odyssey



Profile

LeeWay Odyssey is a 38-metre all aluminum survey vessel with a beam of 8 metres. It is outfitted for year-round coastal service with around-the-clock operations.

Until being acquired by LeeWay Marine in 2015, the vessel was owned and operated by the Canadian Coast Guard and Memorial University. Odyssey was dry-docked in March 2016 and delegated to a Classification Society (RINA) by Transport Canada.

The vessel has a total complement of 20 persons, which includes a ship's crew of seven and scientific crew of 13 personnel. The vessel's accommodations can be expanded to 24 berths if required. Reduced crewing options are also available under certain operating profiles.

The vessel is fully Transport Canada certified as Near Coastal 1, meeting all safety requirements and regulations with a Safety Management System and Preventative Maintenance Program in place. Odyssey can operate up to 200 NM offshore with modern navigational and radio equipment.



Key Working Features

The vessel has an open back deck for many types of support services in science and research, bottom and core sampling, water sampling, ocean bottom mapping, resource protection recovery, fishing gear removal, buoy maintenance and inspections, remote vehicle operations, training and education.

The main deck (9.1 m x 7.5 m) is fitted with a hydraulic 3,400 kg WLL A-Frame (3.4 m W x 4.3 m H), with 2.1m extension over the transom. Additionally, the main deck is fitted with a robust plated steel frame used for winch and equipment installations per the client's requirements. The deck frame is fitted with ISO locks in a 10' TEU container footprint.

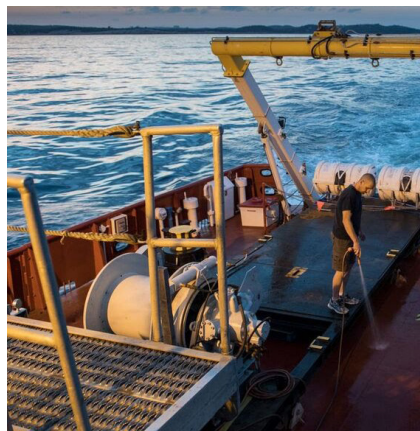
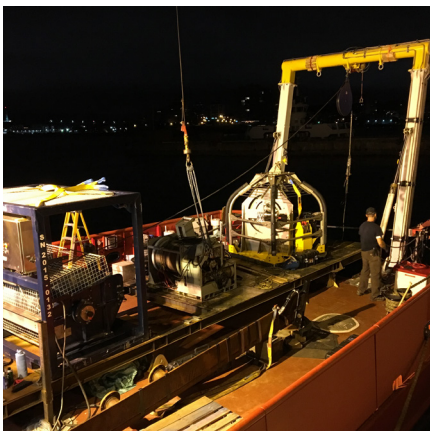
Optionally, the main deck can be fitted with the Controlled Hydraulic Entry A-Frame Technology (CHEAT) System designed by LeeWay Marine to enable sensitive payloads (2,700 kg) to be lowered to the water interface using a dynamic A-Frame and hydraulic ramp control system. The system reduces risk to payloads and improves launch-and-recovery in difficult sea conditions. The system is modular and can be removed if clients require an open deck configuration.

The main deck has a Telescoping Crane (1,300 kg WLL and 950 kg over the side), a side davit (450 kg WLL, 2.4 m from the starboard side, two pot haulers and two manual davits (225 kg WLL).

The ship's keel has a diver-installed multibeam sonar carriage located 1/3 length from the bow, and there are three overboard poles for additional mounting capability.

An after control position with full view of the working deck enables efficient communication and synergy between the Master and the deck crew.

A laboratory (4.9 m x 3 m) serves as the data processing centre and has server racks and cat 5 distribution architecture to all cabins/work stations, DGPS navigation feed and several data feed transits to the main deck.



Operational Efficiencies

LeeWay Odyssey has a cruising speed of 12 knots, with excellent slow speed (~4.5 knot) handling and positioning. She has a boat launch and recovery system, as well as an A-Frame for all support services required.

Excellent fuel economy with approximately 180 l/h at transit and 100 l/h at loiter speed.

She has a shallow draft of 2.4 m, which enables excellent operational coverage near shore. Her large metacentric height makes her exceptionally stable for blue-water operations.

Odyssey has a twin shaft, fixed-pitch propulsions system with a bow thruster. She has two 125 KW CAT Diesel generators with ample surplus power to support any additional deck operations.

With 2-3 weeks of operational endurance, she is well equipped for water storage, water production and waste processing.

Accommodations are well-appointed with single and double cabins throughout. Client cabins are equip with private heads/showers. SAT TV and CAT 5 networking infrastructure is distributed to each cabin. Ship internal telephones are located in each cabin.



Characteristics

Registry: Halifax, Nova Scotia 🍁

Built: Port Hawkesbury, Nova Scotia

IMO Number: 7635995

Official Number: 370575

Call Sign: CG3159

MMSI Number: 316003090

Material: Aluminum

Year Built: 1976

Midlife Refit: 2006

Specifications

Length: 38 metres

Beam: 8.2 metres

Draft: 2.5 metres

Operating Depth: 3.5 metres

GRT: 335 tonnes

NRT: 81 tonnes

Cruising Speed: 12.5 knots

Cruising Range: 1,800 nm

Fuel Capacity: 45m³

Fresh Water: 31,00 litres + RO

Engines: 2x Cummins V12 Diesel

Power: 1,600 kw

Generators: 2x Cat Diesel 125 kw

Propulsion: Twin Props

Bow Thruster: 112 kw



Accommodations

Total Complement: 24 persons

Crew: 7 persons

Scientific Crew: 17 persons

- All cabins have private washrooms and showers
- Private cabin reserved for Chief Scientist with private office and e-suite
- Full galley facilities with stainless steel cooking and refrigeration appliances
- Ship's mess with seating for full complement
- Walk-in freezers and coolers
- Washer and dryer
- Satellite TV and internet access
- Inside wet and dry lab for all support services with cable and server infrastructure
- Ship's office

Working Deck

- 92 m² of total working space
- Deck pads to accommodate all equipment on deck
- A-Frame: 3,400 kg WLL, 4.3 m high, 3.4 m wide, 2.1 m extension over the transom
- A-Frame mounted hydraulic winch with 2,700 kg line pull and 45m Amsteel Blue
- 2.4 m x 8.5 m steel mounting plate for various winch configurations
- ISO locks for 10' or 20' TEU container
- HIAB deck crane 1,300 kg WLL, 2.4 m over port and starboard side
- Hydraulic davit, 2.4 m reach over starboard side, 450 kg WLL
- Multi-beam and USBL pole mounts (port and starboard)
- Two pot haulers
- Two manual davits 500 kg WLL each
- Optional hydraulic stern ramp with winch for small boat launch and recovery, A-Frame for extension out at 28 degrees
- Removable bulwark, port side, aft deck for support services
- CCTV camera system for working deck



Safety

- Safety management system
- Preventive maintenance program
- Ships' safety plan
- Firefighting/prevention plan
- Man overboard plan
- Abandon ships plan
- Muster stations and muster lists
- Firefighting equipment
- Two 20-man life rafts
- Zodiac RIB0450 (FRC) with 25 hp motor

Navigation and Communications

- Sperry marine radars X and Y band with AIS/DGPS compatible
- Electronic chart systems with back up plotter display
- Sailor VHF radios
- Dual VSAT
- SSB radio communications with GMDSS compatible
- AIS ship tracking system - receive and transmit
- HFMF radio telephone
- Wind and direction indicators
- Dual high wattage search lights
- Dual depth sounders
- GMDSS receiver
- Sperry gyro with repeaters throughout ship
- GMDSS Navtex receiver
- Auto directional finder
- Loudhailer microphone system with talk back
- Clearview windows with heaters



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