Teledyne SeaBotix

LBV200-4

Little Benthic Vehicle

Sets the Standard for MiniROV Capability

The SeaBotix LBV200-4 ROV is an extremely stable and highly maneuverable platform - the most capable and adaptable system of its size.
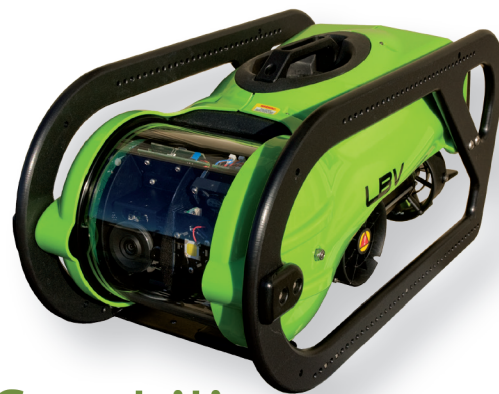
This original benchmark ROV has 4-axis maneuverability via powerful brushless DC thrusters and is supplied with a choice of intuitive and rugged control consoles.

The LBV200-4 offers a range of sensor and tooling choices which include HD video, scanning, imaging and profiling sonar, tracking system, grabber and cutting tool plus many other options; and so provides a turnkey solution for a wide range of demanding applications and challenging situations.

The LBV200-4 is depth rated to 200 m (660 ft) and is supplied with tether and storage reel complete with integrated slip ring, a choice of high resolution video cameras and LED lighting plus depth, heading and temperature sensors.

The vehicle can also be supplied as part of a fly-out package to operate from a manned-submersible, Work Class ROV or tracked trencher, etc.

Offered with a 2-year limited manufacturer's warranty, 24/7 technical support and after-sales service from factory staff or authorized international service centers.

PRODUCT FEATURES

LBV200-4 MINIROV

- 4-Axis Maneuverability
- 200 Meter (660 ft) Depth Rating
- Powerful Brushless DC Thrusters
- 180° Camera Tilt
- High Intensity LED Tracking Camera
- Flexible Sensor Platform
- Integrated Control Console
- Small Diameter Low Drag Tether 8.9 mm (0.35 in) Nominal

LBV200-4 System Components

- LBV200-4 MiniROV
- Integrated Control Console
- Tether/Reel
- Spares/Tools/Manuals
- Transit Cases

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A Teledyne Marine Systems Company

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TECHNICAL SPECIFICATIONS

LBV200-4 MINIROV SYSTEMS

GENERAL

Depth Rating	200 m (660 ft)
Length	530 mm (21 in)
Width	245 mm (9.65 in)
Height	254 mm (10 in)
Weight in Air	11 kg (24.3 lbs)

THRUSTERS | PERFORMANCE

Configuration	2 forward, 1 vertical, 1 lateral
Motor Type	Brushless DC direct drive
Bollard Thrust	Forward - 7 kgf (15.4 lbf) Lateral - 3 kgf (6.6 lbf) Vertical - 3 kgf (6.6 lbf)
Speed at Surface	3 knots (1.54 m/sec)

CAMERAS | LIGHTING

Camera	680 line high resolution color
Camera Tilt	180 degrees
Focus	Manual (90 mm to infinity)
Format	NTSC or PAL
Lighting	Internal 700 Lumen LED array, tracks color camera

Control System

Configuration	Single rugged case w/monitor, OCU & power supply
Monitor	38 cm (15 in) LCD
Power Requirement	1,200 Watts, 100-130/200-260 VAC
Safety	Isolated input, circuit breaker, LIM, leak monitoring
Auto Functions	Depth, heading, trim
Video Overlay	Depth, heading, lights, thruster gain, turns counter, camera angle, time, date & user programmable characters

Tether | Reel

Diameter	8.9 mm (0.35 in) nominal
Length	250 m (820 ft) standard, 350 m (1,148 ft) max.
Working Load	100 kgf (220 lbf)
Breaking Strength	700 kgf (1,543 lbf)
Buoyancy	Neutral in fresh water, slightly positive in seawater and other options available
Reel	Heavy duty w/slip ring

Options

Tether Lengths	Up to 350 m (1,148 ft)
Grabber	Three jaw, interlocking small, interlocking large, parallel and cutter
Sonars	Imaging, scanning, profiling
Tracking	USBL positioning system
Lights	Ultra bright LED (tracking camera)
Console	Integrated Navigation/Control Console
Other	HD and zoom cameras, UT and CP sensors, water samples, laser scaling and more

Setting the Standard for MiniROV Capability

- Outstanding capability and value for money
- Powerful brushless DC direct drive thrusters
- High resolution color, monochrome and HD video options
- Industry leading low drag tether
- Extensive range of optional sensors and tooling
- Turnkey inshore/offshore solution

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