



LBV 150-4

An exceptionally well rounded system for inshore applications

The **LBV150-4** offers all the proven features of the LBV systems. Ideally suited to inshore or civil applications where a rapid setup is required. The integrated control console, tether (reel is optional) and ROV take only minutes to have ready for operation.

Powerful and maneuverable thruster configuration

The **LBV150-4** is a highly stable small ROV platform equipped with powerful Brushless DC thrusters. 4-axis control provides the operator with total maneuverability.

Industry leading small diameter, low drag tether

SeaBotix is renowned for its impressive small diameter, low drag umbilical. At 8mm (0.3") in diameter the operator controls the ROV, not the tether. The durable all copper tether comes in a variety of lengths.

Highly intuitive integrated control console

The SeaBotix operator control unit (OCU) is widely regarded as the most intuitive. All controls at the operators finger tips in an ergonomic and rugged controller.

High-Quality Video and lighting

The **LBV150-4** systems are supplied with the latest Wide Dynamic Range (WDR) color camera technology. Coupled to the color camera is a high intensity LED array providing bright white light throughout the 270° range of view.

Stable balanced MiniROV sensor platform

Unique to the LBV vehicles is the balanced nature of the ROV in water. Careful attention to design and layout provide a small yet stable platform for high quality sensor data acquisition.

**LBV**

Depth Rating	150 Meters Seawater (MSW) - 500 Feet Seawater (FSW)
Length	530 mm - 21 in
Width	245 mm - 9.65 in
Height	254 mm - 10 in
Diagonal	353 mm - 13.9 in
Weight in Air	11 kg - 24.3 lbs
Protection	Protective shell and polyethylene bumper frame

Thrusters

Thruster configuration	Four (4) Brushless DC thrusters - Two (2) forward, one (1) vertical and one (1) lateral. Each thruster is identical and isolated
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Bollard Thrust (forward)	7 kg f - 15.4 pd f
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Bollard Thrust (vertical)	3 kg f - 6.6 pd f
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Bollard Thrust (lateral)	3 kg f - 6.6 pd f
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Speed at surface	3 knots - 3.45 mph - 1.54 m/s
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Max Operating Current	2 knots - 2.3 mph - 1.02 m/s
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Cameras & Lighting

Camera Tilt	180 degrees - internal chassis rotates
Range of View	270 degrees - 180 degrees from tilt, 90 degrees from camera lens
Camera - Primary	520 line Wide Dynamic Range color - 0.1 Lux
Focus	Manual focus control via hand controller. 90mm to infinity
Video Format	NTSC or PAL
Output Signal	Composite
Internal Lighting	700 Lumen LED array. Variable intensity via operator control unit.

Control System

Configuration	Hand controller, monitor and surface power supply built into protective case
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Data Channels	1 RS-232 for LBV controls
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Monitor	38 cm - 15 in color LCD
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Sensors	Heading, depth, temperature
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Auto Functions	Depth, heading, trim
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Hand Controller

Length	210 mm - 8.3 in
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Width	160 mm - 6.3 in
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Height	75 mm - 3 in
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Weight	650 grams - 1.4 lbs
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Joystick	Single - forward, reverse, rotate left, rotate right, roll left, roll right
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Joystick Steps	32
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Vertical Thruster	Proportional control knob
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Additional Controls	Membrane keypad - thruster gain control, trim, auto depth, auto heading, camera tilt, camera focus, camera switch, light On/Off, light
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Sprzedaż • Instalacja • Serwis • Atestacja • Szkolenia

Sprzęt nurkowy • Pojazdy podwodne ROV • Sprzęt ewakuacyjno-ratunkowy • Kompresory powietrzne
Aparaty ewakuacyjne • Narzędzia do cięcia i spawania • Sprzęt przeciwpożarowy • Przetłaczarki tlenu

	intensity, accessories, video overlay position, power On/Off, programming keypad I.P. 64 - splash proof
Safety	
Integrated Control Console	
Length	452 mm - 17.8 in
Width	328 mm - 12.9 in
Height	173 mm - 6.8 in
Weight	20 kg - 44 lbs
Input Voltage	100-130 VAC or 200-240 VAC
Power Requirement	1,000 Watts maximum
Safety	Isolated input power, circuit breaker, line insulation monitor, leak detector. Meets and exceeds "Code of Practice for the Safe Use of Electricity in Water"
Water Proofing	I.P. 64 - Splash proof
Tether	
Diameter	8 mm - 0.3 in nominal
Length	150 meters - 500 feet
Working Strength	100 kg f - 220 pd f
Breaking Strength	700 kg f - 1,543 pd f
Strength Member	Kevlar
Buoyancy	Neutral in fresh water - slightly positive in Seawater
Conductors	Twisted pair with shield (power/telemetry) and twisted pair (video)
On-Screen Information Display	
Information Displayed	Thruster gain settings, light level, Trim On/Off, heading, depth, turns counter, camera angle, water temperature, time, date, user text
User Text	Up to 28 characters
Positioning	Bottom, top or off
Menus	Quick menu, setup, calibrate, diagnostics, options
Spares Contents	Fastener kit, seal kit, propellers, gel lube, Kluber grease, acrylic polish, fuse
Tool Contents	1.5, 2, 3, 4, 5 mm hex ball drivers, #1, #2 Phillips screw drivers, 10 mm socket driver, small straight blade screwdriver, 11/16 socket, 19 mm open end, O-ring insertion tool, vacuum pump
Spare Thruster	Brushless DC thruster assembly
Manuals	Operators manual, service and repair CD-ROM