

Teledyne SeaBotix

# LBV150-4

Little Benthic Vehicle

## Highly Portable MiniROV Systems



The SeaBotix LBV150-4 MiniROV System is a highly portable inshore inspection solution with professional capabilities and affordable price.

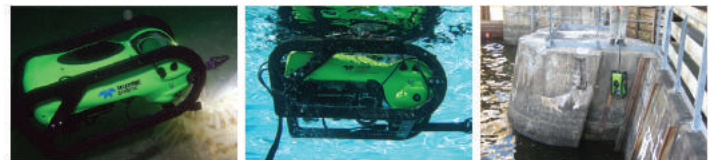
Our most streamlined MiniROV, this economical system features a high resolution color camera that is simple to setup and operate.

Like all SeaBotix LBV Series MiniROVs, the LBV150-4 is capable of true 4-axis maneuverability including lateral (sideways) flight, allowing the operator to keep the object of interest in view while continuing to maneuver around it.

Ideal for operations in shallow waters, the LBV150-4 offers a depth rating to 150 m (500 ft) and is equipped to perform demanding tasks with powerful brushless DC thrusters and our industry-leading low drag tether.

Other standard features include LED lighting that tracks the camera, depth, temperature and heading sensors, auto-depth, auto-heading, and intuitive controls within an Integrated Control Console (ICC) that includes a 38 cm (15 in) daylight-readable LCD monitor.

Products are offered with a 2-year limited manufacturer's warranty and 24-hour technical support and service by factory staff and authorized service centers across the globe.



### PRODUCT FEATURES

LBV150-4 MiniROV

- 4-Axis Maneuverability
- 150 Meter (500 ft) Depth Rating
- Powerful Brushless DC Thrusters
- High Resolution Color Video
- High Intensity LED Tracking Camera
- Integrated Control Console (ICC)
- Small Diameter Low Drag Tether  
8.9 mm (0.35 in) Nominal

LBV150-4 System Components

- LBV150-4 MiniROV
- Integrated Control Console
- Tether (Reel is an option)
- Spares/Tools/Manuals
- Transit Cases



**TELEDYNE SEABOTIX**  
Everywhere you look™

## TECHNICAL SPECIFICATIONS

### LBV150-4 MINIROV SYSTEMS

#### GENERAL

<b>Depth Rating</b>	150 m (500 ft)
<b>Length</b>	530 mm (21 in)
<b>Width</b>	245 mm (9.65 in)
<b>Height</b>	254 mm (10 in)
<b>Weight in Air</b>	11 kg (24.3 lbs)

#### THRUSTERS | PERFORMANCE

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

#### CAMERAS | LIGHTING

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

#### Control System

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

#### Tether

<b>Diameter</b>	8.9 mm (0.35 in) nominal
<b>Length</b>	150 m (492 ft) standard
<b>Working Load</b>	100 kgf (220 lbf)
<b>Breaking Strength</b>	700 kgf (1,543 lbf)
<b>Buoyancy</b>	Neutral in fresh water, slightly positive in seawater
<b>Reel</b>	Heavy duty w/slip ring

#### Options

<b>Grabber</b>	Three jaw, interlocking small, interlocking large, parallel and cutter
<b>Lights</b>	2 HD LED (1080 lumen per head)
<b>Reel</b>	Tether reel (heavy duty with slip ring)
<b>Other</b>	HD zoom camera and laser scaling



LBV150-4 MiniROV



#### Setting the Standard for MiniROV Capability

- Powerful brushless DC direct drive thrusters
- High resolution color, monochrome & HD video options
- Industry leading low drag tether
- 4-axis maneuverability

