



SWALE OCEANOGRAPHIC

Teledyne SeaBotix Remotely Operated Vehicles



The **Little Benthic Vehicle (LBV)** suite of ROVs is SeaBotix's most compact line. Offered in both four and five thruster formats, all LBVs include a high-resolution video camera, LED lighting that tracks the camera, depth, temperature and heading sensors, auto-depth, heading, and trim (speed), and intuitive controls within an Integrated Control Console (ICC) that includes a 38 cm daylight-readable LCD monitor.

Capable, Intuitive, Rugged

- Anti-Terrorism & Security
- Aquaculture & Fisheries
- Deep Water Inspection
- Deployment & Retrieval of Tooling & Sensors
- Diver Support / Safety Supervision
- EOD/MCM Missions
- FPSO and Vessel Bilge Tank Inspection
- Hazardous Environment Intervention
- Hull & Maritime Infrastructure Inspections
- Hydro, Inland Waterways and Dredging Support
- Inshore / Offshore Infrastructure Inspection & NDT
- Manned & Unmanned Submersible Fly-out
- Nuclear Inspection
- Oceanographic / Scientific Survey & Research
- Pipeline Survey – Internal / External
- Platform, Subsea Control Systems & Riser Inspection
- Port & Maritime Security Operations
- Potable Water & Utility Inspection
- Recreation
- Search and Recovery
- UUV Support & Recovery Operations
- Victim Search, Rescue & Recovery
- Wreck Survey & Salvage
- WROV and Trencher Support or Fly-out



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GENERAL	LBV150-4	LBV200-4	LBV300-5	vLBV300	vLBV950	SeaLift vLBV-10	LBC & vLBC Crawlers
Depth Rating	150 m	200 m	300 m	300 m	950 m	300 m	
Length	530 mm	530 mm	520 mm	625 mm	625 mm	625 mm	LBC 530mm vLBC 625mm
Width	245 mm	245 mm	445 mm	390 mm	390 mm	638 mm	LBC 500mm vLBC 390mm
Height	254 mm	254 mm	260 mm	390 mm	390 mm	455 mm	LBC 400mm vLBC 500mm
Weight in Air	11 kg	11 kg	13 kg	18 kg	18 kg	30 kg	LBC 28kg vLBC 35kg
Camera	Hi-res colour with 180° tilt	Hi-res colour with 180° tilt	Hi-res colour with 180° tilt	Hi-res colour with 180° tilt	Hi-res colour with 180° tilt	Hi-res colour with 180° tilt	
Lighting	Ultra bright LED (tracking camera)	Ultra bright LED (tracking camera)	Ultra bright LED (tracking camera)	Ultra bright LED (tracking camera)	Ultra bright LED (tracking camera)	Ultra bright LED (tracking camera)	
THRUSTERS							
Configuration	2 forward, 1 vertical 1 lateral	2 forward, 1 vertical 1 lateral	2 forward, 1 vertical 1 lateral	4 vectored, 2 vertical	4 vectored, 2 vertical	4 vectored, 6 vertical	
Motor Type	Brushless DC direct drive	Brushless DC direct drive	Brushless DC direct drive	Brushless DC direct drive	Brushless DC direct drive	Brushless DC direct drive	LBC 4 wheel drive, vLBC tracked
Bollard Thrust-Fwd	7 kgf	7 kgf	7 kgf	18-22.5 kgf variable	18-22.5 kgf variable	18-22.5 kgf variable	Vortex Generator >22 kgf
Bollard Thrust-Lat	3 kgf	3 kgf	3 kgf	7.3-15.2 kgf variable	7.3-15.2 kgf variable	7.3-15.2 kgf variable	
Bollard Thrust-Vert	3 kgf	3 kgf	7.5 kgf	9 kgf	9 kgf	15-20 kgf	
Speed at Surface	3 knots (1.54 m/sec)	3 knots (1.44 m/sec)	3 knots (1.44 m/sec)	3 knots (1.54 m/sec)	3 knots (1.54 m/sec)	Varies with payload	LBC 30 m/min, vLBC 35 m/min
CONTROL & POWER							
Configuration	Single rugged case, w/monitor, OCU & power supply	Single rugged case, w/monitor, OCU & power supply	Single rugged case, w/monitor, OCU & power supply	Dual rugged cases, w/monitor, OCU & power supply	Dual rugged cases, w/monitor, OCU & power supply	Dual rugged cases, w/monitor, OCU & power supply	
Power Requirement	1200W, 115/230 Vac	1200W, 115/230 Vac	1200W, 115/230 Vac	3300W, 85-265 VAC	4500W, 85-265 VAC	3000W, 85-265 VAC	LBC 1200W, 115/230 Vac vLBC 4500W, 85-265 Vac
Auto Functions	Depth, heading, trim	Depth, heading, trim	Depth, heading, trim	Depth, heading, trim	Depth, heading, trim	Depth, heading, trim	
TETHER							
Tether Diameter	8.9 mm nominal	8.9 mm nominal	8.9 mm nominal	8.9 mm nominal	8.9 mm nominal	8-11 mm nominal	
Max. Tether	250 m	350 m	350 m	2,250 m (7,381 ft)	2,250 m (7,381 ft)	350 m	
Working Load	100 kgf	100 kgf	100 kgf	100 kgf (220 lbf)	100 kgf (220 lbf)	100 kgf	
Breaking Strength	700 kgf	700 kgf	700 kgf	700 kgf (1543 lbf)	700 kgf (1543 lbf)	700 kgf	