TELEDYNE MARINE

vLBV & vLBC

vectored Little Benthic Vehicles

Small ROV, BIG ROV Performance

vLBV300 & vLBV950 MiniROV Systems

The SeaBotix vLBV[®] represents an evolution in small, capable, vectored MiniROV systems. Four powerful 100 mm (4 in) horizontal thrusters, arranged in a vectored format, offer nearly equal horizontal thrust in all 360-degrees of flight. The horizontal thrusters can be manually adjusted to bias thrust in the forward direction for extreme pulling power. This works well in applications such as long internal pipe penetrations and high forward currents.

High resolution cameras and sensors combined with SeaBotix'industry-leading low drag tether make the vLBV the standard in offshore capability and portability. Also available with SmartFlight[™] automated navigation.

Standard features include a high resolution color camera, powerful LED lighting, depth, heading and temperature sensors, auto-depth, auto-heading and thruster trim, low-drag neutrally buoyant tether, and fully Integrated Control Console (ICC) with daylight-readable monitor. For operations using multiple sensors, upgrading the ICC to an Integrated Navigation/Control Console (INC) is recommended.

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

vLBC Crawler Systems

Unmatched in versatility, the SeaBotix vLBC is a revolutionary approach to ship hull and infrastructure inspections for a wide range of military and commercial applications.

With no magnets or thrusters (churning the water, impeding visibility), SeaBotix Crawlers employ the patented Vortex Generator to attach to any relatively flat, hard surface with 22 kgf (48 lbf) of attraction force. With no relative motion between the inspection surface and the sensors, output data is the highest quality possible and operator fatigue is greatly reduced.

The patented Crawler Skid is attached to a standard vLBV300 MiniROV in minutes, converting it from a 4-axis ROV to a 5-axis hull and infrastructure crawler. No other system provides such a complete solution for quality underwater inspection and light work.

PRODUCT FEATURES

- 300 and 950 Meter Depth Rating
- 6X Vectored Brushless DC Thrusters

 4X Lateral Thrusters
 - (Adjustable)
 - 2X Vertical Thrusters
- Versatile Sensor Platform

- Low Drag Tether 8.9 mm (0.35 in)
- High Resolution Sensors
- High Intensity LED Lights that Track with Camera
- Optional Hull &
 Infrastructure Crawler



Optional Grabber

Optional Multi-Beam Imaging Sonar System









vLBC System Views





vLBV & vLBC vectored Little Benthic Vehicles



TECHNICAL SPECIFICATIONS

vLBV MiniROV Systems

Depth Rating300 m (1,000 ft) & 950 m (3,100 ft)Length625 mm (24.6 in)Width390 mm (15.4 in)Width390 mm (15.4 in)Height390 mm (15.4 in)Weight in Air18 kg (39.9 lbs)THRUSTERS/PERFORMANCEConfiguration4 horizontal vectored, 2 verticalWetor AngleAdjustable 45°/55°, 35°, 18° or combinationMotor TypeBrushless DC direct driveProp Diameter100 mm (4.0 in)Bollard ThrustSee matrix below, bottom-right of pageSpeed at Surface3 knots (1.54 m/sec)CAMERAS/LIGHTINGCamera650 TVL high resolution colorCamera650 TVL high resolution colorCamera180 DegreesSensitivity.01 lux @ f2.0FormatNTSC or PALLighting2,160 lumen LED tracking camera. 1080 per headFocusFixed 100 mm (4.0 in) - infinityConfigurationDual rugged cases, with monitor, OCU & SPSMonitorColor LCD, daylight readablePower3300 W, 85-265 VAC (vLBV300) - typicalAttor FunctionsDepth, heading, trim (speed)Pott, heading, trim (speed)Depth, heading, lights, thruster gain, turns counter, camera angle, time, date & user programmable characteristics, options statusVideo Overlay8.9 mm (0.35 in) nominalLength2.50 m (820 ft) standardWorking Load100 kgf (220 lbf)Breaking Strength700 kgf (1,543 lbf)		GENERAL	
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CONTROL SYSTEMConfigurationDual rugged cases, with monitor, OCU & SPSMonitorColor LCD, daylight readablePower3300 W, 85-265 VAC (vLBV300) - typicalRequirements4500 W, 85-265 VAC (vLBV950) - typicalSafetyIsolated power, circuit breaker, LIM, leak monitorAuto FunctionsDepth, heading, trim (speed)Depth, heading, trim (speed)Depth, heading, lights, thruster gain, turns counter, camera angle, time, date & user programmable characteristics, options statusVideo OverlayTETHER REELDiameter8.9 mm (0.35 in) nominalLength250 m (820 ft) standardWorking Load100 kgf (220 lbf)	Lighting		
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Auto FunctionsDepth, heading, trim (speed)Video OverlayDepth, heading, lights, thruster gain, turns counter, camera angle, time, date & user programmable characteristics, options statusTETHER REELDiameter8.9 mm (0.35 in) nominalLength250 m (820 ft) standardWorking Load100 kgf (220 lbf)			
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Video Overlay angle, time, date & user programmable characteristics, options status TETHER REEL Diameter 8.9 mm (0.35 in) nominal Length 250 m (820 ft) standard Working Load 100 kgf (220 lbf)	Auto Functions	Depth, heading, trim (speed)	
Diameter 8.9 mm (0.35 in) nominal Length 250 m (820 ft) standard Working Load 100 kgf (220 lbf)	Video Overlay	angle, time, date & user programmable characteristics,	
Length 250 m (820 ft) standard Working Load 100 kgf (220 lbf)		TETHER REEL	
Working Load 100 kgf (220 lbf)	Diameter	8.9 mm (0.35 in) nominal	
	Length	250 m (820 ft) standard	
Breaking Strength 700 kgf (1,543 lbf)	Working Load	100 kgf (220 lbf)	
	Breaking Strength	700 kgf (1,543 lbf)	



TELEDYNE MARINE SEABOTIX Everywhereyoulook[™]

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Crawler Skid Attachment (CSA) Contains

	 Crawler Skid Assembly SeaBotix Vortex Generator Dual track, single axle system Connection cables Transit case Operator manual for vLBC
Buoyancy	Neutral in fresh water Slightly positive in salt water
Reel	Heavy duty with slip ring
	OPTIONS
Tether Lengths	250 - 2,000 m (820 - 6,562 ft)
Cameras	Low light b/w, zoom, rear facing, HD
Grabber	Three jaw, interlocking small, interlocking large, parallel and cutter
Sonar	Scanning sonar, multi-beam sonar, profiling sonar
Tracking	USBL positioning system
Console	Integrated Navigation and Control Console (INC)
Other	Additional lighting, thickness gauge, CP and more

vLBV Crawler Systems

GENERAL 625 mm (24.6 in) Length 390 mm (15.4 in) Width Height 500 mm (19.7 in) Diagonal 634 mm (25 in) Weight in Air 35 kg (70 lbs) **DRIVE MECHANISM Drive Train** Tracked drive with single axle, dual motor/gearbox **Pulling Force** Up to 12 kgf (26 lbf) Speed 35 m/min (115 ft/min) 75 mm (3 in) wide Tracks 30.6 cm² (4.75 in²) contact area ATTRACTION DEVICE SeaBotix Vortex Generator Type 22+ kgf (48+ lbf) Attraction Surface Capability Any relatively flat, hard surface Clearance 25 mm (1 in)

vLBV300 BOLLARD THRUST 100 mm PROPS

45°/35° Vector	
Forward:	18.1 kgf
Lateral:	15.2 kgf
35° Vecto	r
Forward:	19.4 kgf
Lateral:	13.6 kgf
18° Vecto	r
Forward:	22.5 kgf
Lateral:	7.3 kqf

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