



vLBV300 MINI ROVs SERVICE OVERVIEW

The vLBV® represents an evolution in small, capable, vectored MiniROV systems.

Four powerful 100mm (4") 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 low drag tether make the vLBV® the standard in offshore capability and portability. Also available with SmartFlight™ automated navigation.

Standard features include HD colour camera, Low light colour camera, high resolution imaging sonar, powerful LED lighting, depth, heading and temperature sensors, auto-depth, auto-heading and thruster trim, low-drag neutrally buoyant tether, and fully Integrated Navigation and Control Console (INC) for operations.

- 300m depth rating
- 32kg payload capability
- Weight in air 18kg
- 6 x Vectored Brushless DC Thrusters (100mm props)
- Versatile sensor platform
- Low drag tether - 8.9mm diameter (0.35")
- High resolution sensors
- High intensity LED light that tracks with cameras
- Optional hull and infrastructure crawler

vLBV300 Mini ROVs

Dimensions & Weights

Length:	625mm
Width:	390mm
Height:	390mm
Weight in air:	18kg
Depth rating:	300m

Thrusters/Performance

Configuration:	Four horizontal vectored, two vertical
Vector angle:	Adjustable 45°/35°, 35°, 18° or combination
Motor type:	Brushless DC direct drive
Prop diameter:	100mm
Speed at surface:	3 knots (1.54 m/sec)

Camera/Lighting/Sonar

Camera:	HD colour camera and low light colour camera on 180 degree tilt
Lighting:	2,160 lumen LED lighting tracking the camera's. Provided by two 1,080 Lumen LED lights either side of cameras
Sonar:	BlueView M900-2250 high resolution imaging sonar

Control System

Configuration:	Dual rugged cases housing monitor, control unit and power supply
Monitor:	Colour LCD, daylight readable
Power requirements:	3,300W, 85-265 VAC
Safety:	Isolated power, circuit breaker, LIM, leak monitor
Auto functions:	Depth, heading, trim (speed)
Video overlay:	Depth, heading, lights, thruster gain, turns counter camera angle, time, date and user programmable characteristics

Options

Tether lengths:	250 - 2,000m
Cameras:	Rear facing
Grabber:	Three jaw, interlocking small, interlocking large, parallel and cutter
Tracking:	USBL positioning system



Optional vLBC Crawler System

Unmatched for ship hull and infrastructure inspections.

Vortex Generator enables attachment to any relatively flat, hard surface. With no relative motion between the inspection surface and the sensors, output data is the highest quality possible.

The 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.

Our Values



Safety



Integrity



Sustainability



Performance



Collaboration



Innovation