

LBV300-5 MiniROV Systems

The LBV300-5 Series is our most versatile system offering an incredibly stable platform and a wide range of application possibilities.

- 300 meter (1,000ft) depth rating and tether lengths to 350 meters (1,150ft)
- 5 Powerful brushless DC thrusters with individual oil-compensators
- 4-axis maneuverability including dual vertical thruster configuration
- Ultra small diameter high strength, durable, low drag tether
- Crystal clear video and high resolution low light color camera
- 270° range of view with high intensity LED array tracking camera
- Patented hull crawling skid option for increased capability in currents up to 5 knots
- Extensive range of options including laser scaling, grabber, zoom, LED lighting and more



The LBV300-5 Series of MiniROVs has become the world's number one choice for maritime security by Militaries, Police, and Port Security professionals due primarily to its unmatched levels of stability and versatility. Dual-vertical thrusters provide extreme power allowing for larger sensors packages. Add the revolutionary Crawler Skid and the LBV300-5 can operate on ship hulls and other relatively flat surfaces in currents exceeding five knots.



General

Depth Rating:	300m (1,000ft)
Length:	520mm (20.5in)
Width:	445mm (17.5in)
Height:	260mm (10.2in)
Diagonal:	565mm (22.2in)
Weight in air:	13kg (28.7lbs)

Thrusters/Performance

Configuration:	2 forward, 2 vertical, 1 lateral
Motor Type:	Brushless DC direct drive
Bollard Thrust:	4.9kgf (10lbf) each
Speed at Surface:	2.8 knots (1.44m/sec)
Max Operating Current:	2 knots (1.03m/sec)

Cameras/Lighting

Camera:	520 line High resolution color
Range of View:	270 Degrees
Focus:	Manual (90mm to infinity)
Format:	NTSC or PAL
Lighting:	Internal 700 Lumen LED array Tracks color camera

Control System

Configuration:	Rugged case with weatherproof monitor and removable operator control unit
Monitor:	38cm (15") LCD
Power Requirement:	1,000 watts, 100-130/200-240 VAC
Safety:	Isolated input, circuit breaker, LIM, leak monitor Meets & exceeds AODC 035 "Code of Practice for the Safe use of Electricity in Water"
Auto Functions:	Depth, heading, trim
Video Overlay:	Depth, heading, lights, thruster gain, turns counter, camera angle, time, date and user programmable characters

Tether/Reel

Diameter:	8mm (0.3in) nominal
Length:	150m (500ft) standard
Working Load:	100kgf (220lbf)
Breaking Strength:	700kgf (1,543lbf)
Buoyancy:	Neutral in fresh, slightly positive in seawater
Reel:	Heavy duty with slip ring

Options

Tether Lengths:	150-350m (500-1,150ft)
Grabber:	Three jaw, interlocking small, interlocking large, parallel, cutter
Sonars:	Multi-beam, scanning, profiler
Tracking:	USBL positioning system
Lights:	Multiple head ultra bright LED
Console:	Integrated navigation/control console
Other:	Crawler skid, thickness gauge, CP, radiation, laser scaling, zoom camera and more

