



The Remotely Operated Vehicle (ROV) supplied by Ocean Science Consulting Limited (OSC) is highly versatile and manoeuvrable. It is suited for both primary and supporting roles and can be dispatched at short notice.



# MiniROV System

Teledyne SeaBotix

**LBV300-5**

Little Benthic Vehicle

# General features

## LBV300-5 MiniROV



### General

- 300-m depth rating
- 150-m low-drag tether
- 720p high-resolution colour camera, optical focus, 180° vertical-camera-tilt function
- All-in-one topside System Control Unit (SCU) and quick recovery lock latch system

### Lighting

- Two external, dimmable, high-intensity LED lights
- One internal, dimmable, high-intensity LED light synchronised with camera motion

### Thrusters

- Two vertical (V), two forward/reverse (F), one lateral (L)
- 4-axis manoeuvrability

### Add-ons

- Gemini multibeam sonar for greater navigational accuracy in conditions of poor visibility
- Three-function manipulator - object collection, facilitation of movement up mooring lines

# Technical specifications

## LBV300-5 MiniROV

### General

Depth-rating	300 m (1,000 ft)
Length	52 cm (20.5 in)
Width	44.5 cm (17.5 in)
Height	26 cm (10.2 in)
Weight-in-air	13 kg (28.7 lbs)

### Tether reel

Diameter	8.9 mm (0.35 in)
Length	150 m
Working load	100 kgf (220 lbf)
Breaking strength	700 kgf (1,543 lbf)
Buoyancy	Neutral in fresh water, slightly positive in salt water
Reel	Heavy duty with slip ring

### Thrusters/performance

Configuration	2V, 2F, 1L
Motor	Brushless DC direct drive
Bollard thrust	V – 7.5 kgf (16.5 lbf) F – 7 kgf (15.4 lbf) L – 3 kgf (6.6 lbf)
Surface speed	2.8 kts (1.44 m/s)

### Cameras/lighting

Camera	650 TVL high-res., colour
Camera tilt	180 degrees
Focus	Manual (90 mm+)
Format	NTSC or PAL
Lighting	Internal 700 lm LED array
Sensitivity	0.01 Lux @ f2.0

### Control system

Configuration	All-in-one topside
Monitor	38 cm (15 in) LCD
Power requirements	1,200 W
Safety	Isolated input, circuit breaker, LIM, leak monitor
Auto functions	Depth, heading, speed
Video overlay	Depth, heading, lights, thruster gain, turns, camera angle, time, date