

Configurable with Prices Starting at \$2,900

Blue Robotics

BlueROV2

The World's Most Affordable High-Performance ROV



Ocean research, exploration, and adventure are all made easily accessible by our flagship product, the BlueROV2. It provides the capabilities of a high-end commercial mini-ROV at the price of the most basic commercial ROVs, making the BlueROV2 the world's most affordable inspection and research-class subsea vehicle.

The smooth, stable, and highly maneuverable ROV is comprised of six thrusters, a rugged frame, and quick-swappable batteries. Powerful but dimmable lights provide excellent illumination for the live HD video feed.

Like all Blue Robotics products, we created the BlueROV2 with high-quality parts, meticulous design, and rugged reliability with proven success in the field.

Equipped with six powerful T200 thrusters and Basic ESCs, the BlueROV2 has the best thrust-to-weight ratio in its class

to perform demanding tasks. It is ideal for operations in shallow to moderate waters, with a standard 100m depth rating and up to 300m tether lengths available.

The BlueROV2 uses the open-source ArduSub software and PixHawk autopilot to provide autonomous capabilities rarely seen in mini-ROVs and hackability paralleled by none. Blue Robotics actively develops and updates its software to enhance the BlueROV2's functionality.

Your vehicle will arrive almost-ready-to-dive, with pre-built sub-assemblies and instructional materials to make the experience as straightforward and enjoyable as possible. Additional items including the topside computer, gamepad controller and batteries are not included.



Product Features

- Live Low-Latency 1080p HD Video
- Highly Maneuverable Vectored Thruster Configuration
- Stable and Optimized for Inspection and Research-Class Missions
- Easy to Use, Cross-Platform User Interface
- Highly Expandable with Three Free Cable Penetrators
- T200 Thrusters and Basic ESCs
- Standard 100m Depth Rating and up to 300m Tether Available
- Battery Powered with Quick-Swappable Batteries for Long Missions
- Open-Source ArduSub Control Software and Open-Source Hardware



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BlueROV2 Technical Specifications

Revision 10/16

Physical

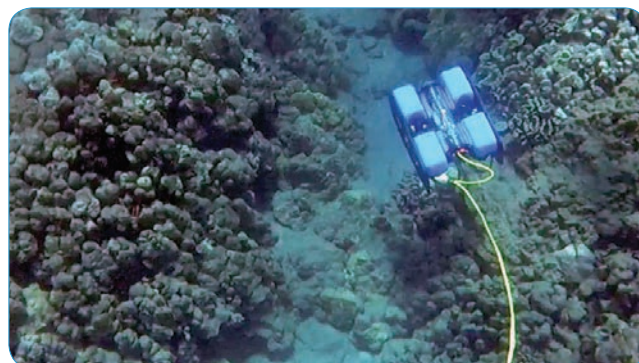
Length	457 mm	18 in
Width	338 mm	13.3 in
Height	254 mm	10 in
Weight in Air (with Ballast)	10-11 kg	22-24 lb
Weight in Air (without Ballast)	9-10 kg	20-22 lb
Net Buoyancy (with Ballast)	0.2 kg	0.5 lb
Net Buoyancy (without Ballast)	1.4 kg	3 lb
Watertight Enclosure Inner Diameter	102 mm	4 in
Watertight Enclosure Inner Length	298 mm	11.75 in
Cable Penetrator Holes	14 x 10 mm	14 x 0.4 in
Construction	HDPE frame, aluminum flanges/end cap, & acrylic tubes	
Main Tube (Electronics Enclosure)	Blue Robotics 4" Series w/ aluminum end caps	
Battery Tube	Blue Robotics 3" Series w/ aluminum end caps	
Buoyancy Foam	R-3318 urethane foam rated to 210 m	
Ballast Weight	6 x 200 g coated lead weights	
Battery Connector	XT90	

Performance

Maximum Rated Depth	100 m	330 ft
Maximum Tested Depth (so far)	130 m	425 ft
Maximum Forward Speed	1 m/s	2 knots
Thrusters	Blue Robotics T200	
ESC	Blue Robotics Basic 30A ESC	
Thruster Configuration	6 thrusters	
	- 4 Vectored	
	- 2 Vertical	
Forward Bollard Thrust	14 kgf	30 lbf
Vertical Bollard Thrust	9 kgf	20 lbf
Lateral Bollard Thrust	14 kgf	30 lbf

Tether

Diameter	7.6 mm	0.30 in
Length	25-300 m	80-980 ft
Working Strength	45 kgf	100 lbf
Breaking Strength	160 kgf	350 lbf
Strength Member	Kevlar with waterblock	
Buoyancy in Freshwater	Neutral	
Buoyancy in Saltwater	Slightly positive	
Conductors	4 twisted pairs, 26 AWG	



Lights

Brightness	2 or 4 x 1500 lumens each with dimming control
Light Beam Angle	135 degrees, with adjustable tilt

Camera

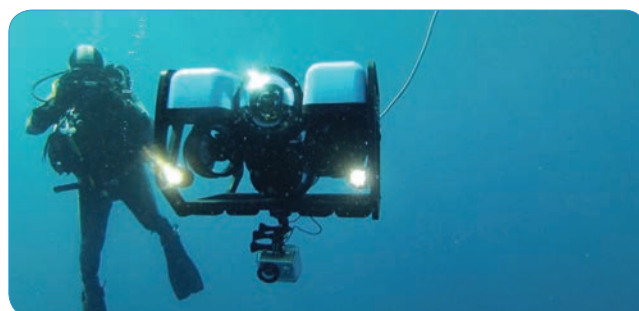
Camera	1080p digital
Camera Field of View	110 degrees horizontally
Tilt Range	+/- 90 degree camera tilt (180 total range)
Tilt Servo	Hitec HS-5055MG

Sensors

- 3-DOF Gyroscope
- 3-DOF Accelerometer
- 3-DOF Magnetometer
- Internal barometer
- Blue Robotics Bar 30 Pressure/Depth & Temperature Sensor (external)
- Current and Voltage Sensing
- Leak Detection

Battery (can be changed in about 30 seconds)

Battery Life (Normal Use)	2-3 hours w/ 18Ah battery
Battery Life (Light Use)	4-6 hours w/ 18Ah battery



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