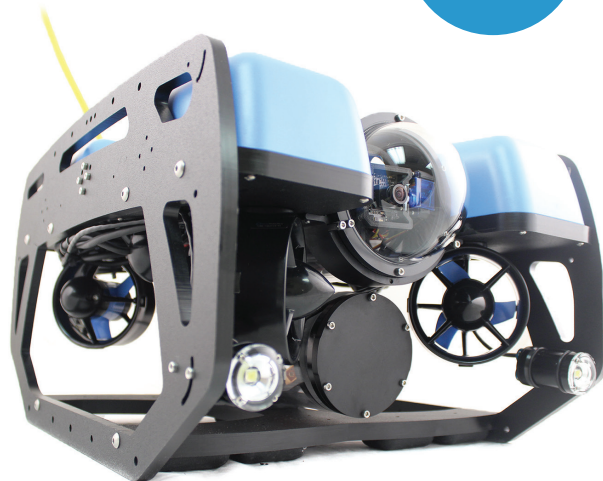


Blue Robotics

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.

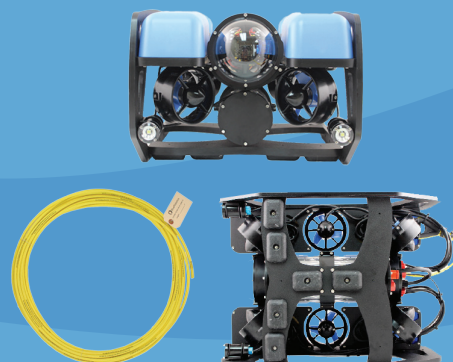
The BlueROV2 uses the open-source ArduSub software and the Navigator autopilot to provide autonomous capabilities rarely seen in mini-ROVs and hackability paralleled by none. Blue Robotics actively develops and updates its software to enhance the BlueROV2's functionality.

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.

At Blue Robotics, we are committed to creating quality products that are accessible to any explorer.

Product Features

- Live 1080p HD Video (200 ms latency)
- Highly Maneuverable Vectored Thruster Configuration
- Stable and Optimized for Inspection and Research-Class Missions
- Easy to Use, Cross-Platform User Interface
- Highly Expandable with Six Free Cable Penetrators
- 6 T200 Thrusters and Basic ESCs
- Option for 100m or 300m depth rating
- Battery Powered with Quick-Swappable Batteries for Long Missions



Dare to Explore

Blue Robotics

BlueROV2 Technical Specifications

Revision 03/22

Physical

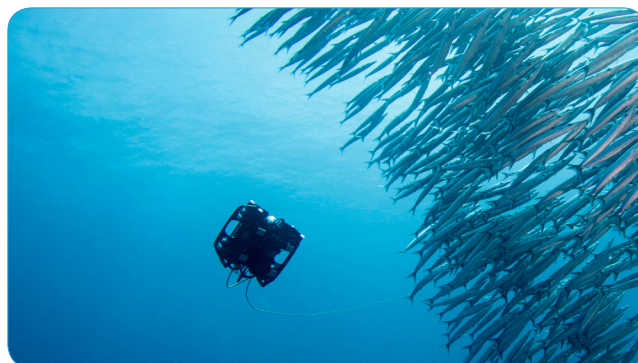
Length	457 mm	18 in
Width	338 mm	13.3 in
Height	254 mm	10 in
Weight in Air <i>(with Ballast and Battery)</i>	11-12 kg	24-27 lb
Weight in Air <i>(without Ballast or Battery)</i>	9-10 kg	20-22 lb
Payload Capacity (configuration dependent)	1.2 kg (4 x Lumens) to 1.4 kg (No Lumens)	2.6 to 3.1 lbs
Watertight Enclosure Inner Diameter	102 mm	4 in
Watertight Enclosure Inner Length	298 mm	11.75 in
Cable Penetrator Holes	18 x 10 mm	1 x 0.4 in
Buoyancy Foam	R-3318 Urethane Foam rated to 244 m	
Construction	HDPE frame, aluminum flanges/end cap, & acrylic or aluminum tubes	
Main Tube <i>(Electronics Enclosure)</i>	Blue Robotics 4 in series w/ aluminum end caps	
Battery Tube	Blue Robotics 3 in series w/ aluminum end caps	
Buoyancy Foam	R-3318 Urethane Foam rated to 244 m	
Ballast Weight	9 x 200 g stainless steel weights	
Battery Connector	XT90	

Performance

Maximum Rated Depth <i>(Acrylic)</i>	100 m	330 ft
Maximum Rated Depth <i>(Aluminum)</i>	300 m	990 ft
Maximum Forward Speed	1.5 m/s	3 knots
Thrusters	Blue Robotics T200 with WLP	
ESC	Blue Robotics Basic 30A ESC	
Thruster Configuration	6 thrusters	
	- 4 Vectored	
	- 2 Vertical	
Forward Bollard Thrust (45°)	9 kgf	19.8 lbf
Vertical Bollard Thrust	7 kgf	15.4 lbf
Lateral Bollard Thrust (45°)	9 kgf	19.8 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

Resolution	1080p
Camera Field of View	110 degrees horizontally
Tilt Range	+/- 90 degree camera tilt <i>(180 total range)</i>
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 <i>(Normal Use)</i>	2 hours w/ 18Ah battery
Battery Life <i>(Light Use)</i>	6 hours w/ 18Ah battery

