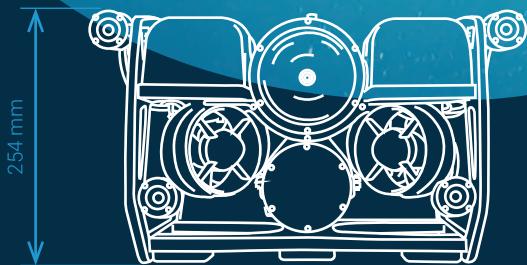


an affordable & customizable

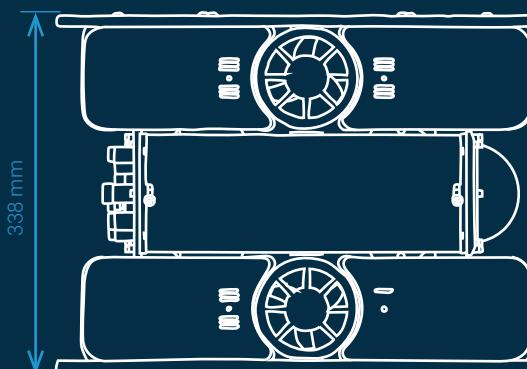
BlueRobotics

BLUE ROV2

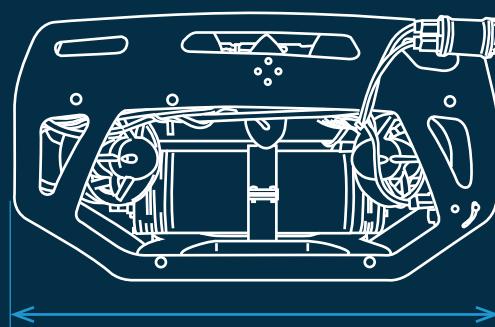
high-performance ROV



front



top



side

The BlueROV2

makes the once-difficult task of seeing underwater a simple one—providing reliable performance for basic underwater exploration. As your projects evolve, the BlueROV2 grows with you by offering customization and expandability to match your changing needs. This versatile, high-performance ROV comes in six- and eight-thruster configurations, is equipped with open-source software, and has a variety of accessories to enhance its functionality. With thousands of units in use, the BlueROV2 is one of the most popular underwater drones, capable of adapting to both simple and advanced missions.

The BlueROV2 comes partially assembled and requires 6–8 hours of assembly. This hands-on process gives you a deeper understanding of the system, making it easy to upgrade or modify your ROV as your needs change.

Need a little help with assembly, training services, or special mods? We have a team of worldwide distributors that can assist with all things BlueROV2!

The BlueROV2 is an ideal tool for underwater tasks ranging from search and rescue to aquaculture inspection, photogrammetry, and more! The possibilities are endless. How will the BlueROV2 enable you?

PHYSICAL

Dimensions

(Length x Width x Height)	457 mm x 338 mm x 254 mm // 18 in x 13.3 in x 10 in
Weight in Air w/ ballast & battery	11–12 kg // 24–27 lb
Weight in Air w/o ballast & battery	9–10 kg // 20–22 lb
Cable Penetrator Holes	18x M10 total, 6x available for expansion
Buoyancy Foam	R-3318 Urethane Foam rated to 300 m
Construction	HDPE frame, aluminum flange/end cap, & acrylic or aluminum tubes
Main Tube (Electronics Enclosure)	Blue Robotics 4 in series w/ aluminum end caps
Battery Tube	Blue Robotics 3 in series w/ aluminum end caps
Ballast Weight	9 x 200 g stainless steel weights
Battery Connector	XT90

PERFORMANCE

Maximum Rated Depth (Acrylic)	100 m // 330 ft
Maximum Rated Depth (Aluminum)	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
Payload Capacity (configuration dependent)	1.2 kg–1.4 kg // 2.6–3.1 lbs

technical details

TETHER

Dimensions - Regular (Diameter x Length)	7.6 mm x 25–300 m // 0.30 in x 80–980 ft
Dimensions - Slim (Diameter x Length)	4.0 mm x 50–200 m // 0.16 in x 164–656 ft
Working Strength	35 kgf // 77 lbf
Breaking Strength	155 kgf // 342 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 (180 total range)
Tilt Servo	Hitec HS-5055MG

SENSORS

IMU	6-DOF IMU (on Navigator)
Compass	Dual 3-DOF magnetometers (on Navigator)
Internal Pressure	Internal barometer (on Navigator)
Pressure/Depth and	
Temperature Sensor (external)	Blue Robotics Bar30
Current and Voltage Sensing	Blue Robotics Power Sense Module
Leak Sensor	Integrated leak sensor (on Navigator)

BATTERY (can be swapped in about 30 seconds)

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



BlueOS

BlueOS is a software ecosystem that runs onboard the BlueROV2. It provides all of the features you need and has the tools and flexibility for you to add the features you want.

BlueOS is open-source, community-oriented, and a blast to use!

integrations

scanning imaging sonar

Blue Robotics Ping360
Scanning Imaging Sonar
Range: 50 m
Beam Height: 25 degrees

single beam echosounder

Blue Robotics Ping Sonar
Altimeter & Echosounder
Range: 100 m
Beam Width: 25 degrees

gripper

Blue Robotics Newton Subsea Gripper
Single Function Manipulator
Grip Force: 124N



The Reef by Blue Robotics is a curated collection of products from some of the most innovative companies in the industry that will take your marine robotics efforts to the next level.

multibeam imaging sonar

Sonoptix ECHO
Multibeam Imaging Sonar
Range: 200 m @ 400 kHz // 30 m @ 700 kHz
Vertical View Angle: 40 degrees
Horizontal View Angle: 90 degrees @ 400 kHz
120 degrees @ 700 kHz

doppler velocity logger

Water Linked DVL A50 and A125
Range: 50 m (A50); 125 m (A125)
Velocity Resolution: 0.1 mm/s
Long Term Accuracy: ± 1.01%

high-voltage power supply

The Outland Technology Power Supply System outfits the BlueROV2 to be powered through the tether, allowing it to operate indefinitely and eliminating the need for batteries.



BlueRobotics | built in California, USA, Earth | info@bluerobotics.com | bluerobotics.com