UNDERWATER VEHICLE · MINI ROV

BlueROV2

Affordable, expandable inspection and research-class mini ROV

BlueROV2 offers the capabilities of a high-end commercial mini-ROV at a very accessible price. Six T200 thrusters in a vectored configuration make it smooth, stable and highly manoeuvrable, while dimmable lights illuminate a live 1080p HD video feed. It runs the open-source ArduSub software on the Navigator autopilot, uses quick-swappable batteries, and leaves free cable penetrators for sonars, grippers and other payloads.



100 / 300 m
Depth rating (acrylic / aluminium)

1.5 m/s
Max. forward speed (3 knots)

1080p
Live HD video, 200 ms latency

2 – 6 h
Battery life (18 Ah)

KEY FEATURES

01 **Vectored thrust:** 6 T200 thrusters (4 vectored, 2 vertical), 9 kgf forward and lateral bollard thrust.

02 **HD imaging:** 1080p camera, 110° horizontal field of view, ±90° tilt, 2 or 4 × 1,500 lm dimmable lights.

03 **Open software:** open-source ArduSub on the Navigator autopilot, autonomous capabilities, cross-platform user interface.

04 **Expandable:** six free cable penetrators, payload capacity up to 1.4 kg.

05 **Quick battery swap:** battery changed in about 30 seconds for long missions.

APPLICATIONS

- Inspection of hulls, quays and structures
- Scientific observation and research
- Search and recovery
- Sonar and sensor integration

TECHNICAL SPECIFICATIONS

PERFORMANCE	
Maximum rated depth	100 m (acrylic tubes) · 300 m (aluminium tubes)
Maximum forward speed	1.5 m/s (3 knots)
Thrusters	6 × Blue Robotics T200 with WLP · 4 vectored, 2 vertical
ESC	Blue Robotics Basic 30 A ESC
Bollard thrust	9 kgf forward (45°) · 9 kgf lateral (45°) · 7 kgf vertical
Battery life (18 Ah)	2 h normal use · 6 h light use · changed in about 30 s

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BLUEROV2

Technical specifications

PHYSICAL	
Dimensions	457 × 338 × 254 mm (L × W × H)
Weight in air	11 to 12 kg with ballast and battery · 9 to 10 kg without
Payload capacity	1.2 kg (4 Lumens) to 1.4 kg (no Lumens), configuration dependent
Enclosures	main tube 4" series (Ø 102 mm inner, 298 mm inner length) · battery tube 3" series, aluminium end caps
Construction	HDPE frame, aluminium flanges and end caps, acrylic or aluminium tubes
Cable penetrator holes	18 × 10 mm
Buoyancy foam	R-3318 urethane foam rated to 244 m
Ballast	9 × 200 g stainless steel weights
Battery connector	XT90

CAMERA AND LIGHTS	
Camera	1080p · 110° horizontal field of view
Tilt	±90° (180° total) · Hitec HS-5055MG servo
Lights	2 or 4 × 1,500 lumens, dimmable · 135° beam angle, adjustable tilt

SENSORS	
Navigation	3-DOF gyroscope, accelerometer and magnetometer · internal barometer
Depth	Blue Robotics Bar30 pressure/depth and temperature sensor (external)
Monitoring	current and voltage sensing · leak detection

TETHER	
Length	25 to 300 m
Diameter	7.6 mm
Strength	working 45 kgf · breaking 160 kgf · Kevlar strength member with waterblock
Buoyancy	neutral in fresh water · slightly positive in salt water
Conductors	4 twisted pairs, 26 AWG

Topside computer, gamepad controller and batteries are not included with the vehicle kit. Specifications from Blue Robotics datasheet (rev. 03/22), subject to change without notice.

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