

BlueROV2

Technical Specifications

Physical

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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 Diamete	er: 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 fram	e, aluminum
flanges/end cap, & acrylic tubes		
Main Tube (Electronics Enclosure):	Blue Robo	tics 4" Series
with aluminum end caps		
Battery Tube Blue Robotics 3" S	Series w/ alumir	num end caps
Buoyancy Foam R-3318 ur	ethane foam ra	ted 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)	130m	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	Slig	htly positive
Conductors	4 twisted pa	airs, 26 AWG



Lights

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

Camera

Camera		1080p digital
Camera Field of Vi	ew 1	10 degrees horizontally
Tilt Range	± 90 degr	ree 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

