

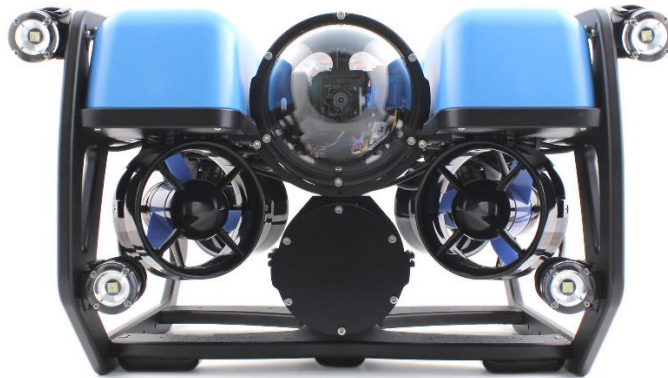
Specifications – BlueROV2



ROV for IWS

Physical	
Length	457mm
Width	338mm
Height:	254mm
Weight in air with ballast	10-11kg
Weight in air without ballast	9-10kg
Net buoyancy with ballast:	0,2kg
Net buoyancy without ballast	1,4kg
Construction	HDPE frame
Buoyancy Foam	R3318 Urethane Foam rated to 210m.
Performance	
Maximum Rated Depth	100m / 330ft
Maximum Forward Speed	1m/s – 2 knots
Thruster Configuration	6 thrusters. 4 vectored, 2 vertical
Forward Bollard Thrust	14kg
Vertical Bollard Thrust	9kg
Lateral Bollard Thrust	14kg
Battery	
Battery Life - Normal Use	~3 hours w/18AH Lithium-Ion Battery
Battery Life – light use	~5 hours w/18AH Lithium-Ion Battery
	The batteries can be changed in about 30 seconds.
Lights	
Brightness	1500 lumens, each with dimming control.
Light Beam Angle	135 degrees, with adjustable tilt.

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ROV for IWS

Tether	
Diameter	7,6mm
Length	150m
Working Strength	45kg
Breaking Strength	160kg
Strength Member	Kevlar with waterblock
Buoyancy in Freshwater	Neutral
Buoyancy in Saltwater	Slightly positive
Conductors	4 twisted pairs, 26 AWG
Sensors	
Gyroscope	3-DOF Gyroscope (on the PixlHawk)
Accelerometer	3-DOF Accelerometer (on the PixlHawk)
Magnetometer	3-DOF Magnetometer (on the PixlHawk)
Barometer	Internal Barometer (on the PixlHawk)
Pressure/Depth/Temperature	Blue Robotics Bar 30 - External
Current and Voltage Sensing	Included with the PixHawk
Camera Tilt	
Tilt Range	+ - 90 degree camera tilt – 180 total range
Tilt Servo	Hitec HS-5055MG
Camera	
Camera Resolution	HD Resolution
Field of View	110 degrees horizontal
Light Sensitivity	0.01lux
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