

What's Included

Frame

Quantity	Part	Usage
2	Front Center Panel (1/2" thick black HDPE)	
2	Rear Center Panel (1/2" thick black HDPE)	
1	Bottom Panel (1/2" thick black HDPE)	
2	Side Panel (3/8" thick black HDPE)	
2	Electronics Enclosure Cradle (Black Anodized Aluminum)	Mounting the electronics enclosure to the frame
8	M4x18 Button Head Cap Screw (316 Stainless Steel)	Mounting the electronics enclosure cradles to the frame

12	M5x16 Button Head Cap Screw (316 Stainless Steel)	Assembling the frame
7	8-16 Thread, 5/8" Long, Thread-Forming Screw	Mounting the ballast to the frame
7	200g Ballast	

Electronics Enclosure

Quantity	Part	Usage
1	Electronics tray with terminal blocks and ESCs installed	
1	4" watertight enclosure with optically clear dome installed	
1	14 hole end cap with 3 blank penetrator, 1 Bar30 pressure sensor, 1 vent, and 1 power cable installed	
1	Set of tether board power wires	Provided power to the tether board
4	M3x16 Socket Head Cap Screw (316 Stainless Steel)	Mounting the electronics enclosure to the electronics enclosure cradle
1	Power module power wire	Powering the PixHawk power module
4	3-24 x 3/8" long self tapping screws (316 Stainless Steel)	Mounting the tether interface board (Fathom-S or Fathom-X)
4	1/8" x 1/8" diameter spacers (nylon)	Mounting the tether interface board (Fathom-S or Fathom-X)
10	5 1/2" Zip Ties (Nylon)	Cable management inside the electronics enclosure

Battery Enclosure

Quantity	Part	Usage
2	Battery Enclosure Cradle (Black Anodized Aluminum w/ rubber strip)	Mounting the battery enclosure to the frame
1	3" Watertight Enclosure 8-3/4" Long	
1	3" Blank Endcap (Anodized Aluminum 6061)	
1	3" 4 Hole Endcap w/ 2 blank penetrators and 1 vent installed (Anodized Aluminum 6061)	
1	XT90 to 3.5mm Bullet Connector Adapter	Adapting power wire connector to battery connector
4	M4x14 Socket Head Cap Screw (316 Stainless Steel)	Mounting the battery cradle to the frame

4	M3x12 Socket Head Cap Screws (316 Stainless Steel)	Connecting the battery cradles
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Thrusters

Quantity	Part	Usage
6	T200 Thrusters w/ installed penetrator	
16	M3x16 Socket Head Cap Screw (316 Stainless Steel)	Mounting thrusters 1, 2, 3, and 4 to the frame
8	M3x12 Socket Head Cap Screw (316 Stainless Steel)	Mounting thrusters 5 and 6 to the frame
30	5 1/2" Zip Ties (Nylon)	Routing the thruster and lumen cables

Fairings

Quantity	Part	Usage
4	Fairings (Blue Polycarbonate)	
4	Buoyancy Foam (R-3318 Urethane Foam)	
16	#4 Size, 3/4" Long Pan Head Self Tapping Screw (316 Stainless Steel)	Mounting the fairings and buoyancy to the frame

Tether

Quantity	Part	Usage
1	Fathom Tether w/ installed penetrator (25-300m)	
1	Fathom Thimble	Mounting the tether to the frame
5	Heavy Duty Zip Ties	Mounting the tether to the thimble and frame

Tools

Quantity	Part	Usages
1	Silicone Grease Tube	Lubricate O-rings prior to installation
1	O-Ring Pick	Remove and install O-rings
1	2.5mm Hex Driver	Install M3 screws
1	#1 Phillips Head Screwdriver	Install the fairing screws
2	Blue Robotics Penetrator Wrenches	Install penetrators
1	1.5mm Hex Key	Thruster disassembly

1	2mm Hex Key	Change propellers
1	3mm Hex Key	Install M4 and M5 screws

Optional Configurations

Standard Electronics Package

Quantity	Part
1	Fathom-S Tether Interface Board
1	Analog Camera with Camera Tilt
1	3DR PixHawk (Optional)

Advanced Electronics Package

Quantity	Part
1	Fathom-X Tether Interface
1	HD Raspberry Pi Camera with Camera Tilt
1	Pre-loaded SD Card
1	Power Supply
1	3DR PixHawk (Optional)
1	Raspberry Pi 3
1	PixHawk Adapter Plate with Standoffs

Lights

Quantity	Part
1-2	Lumen Subsea Light w/ Mounts (Pair, Pre-Connected) (Optional)

What You Need for Operation that is Not Included

There are some items necessary for operation that are not included with the kit.

- Analog screen for the standard BlueROV2.
- A gamepad controller. We recommend an Xbox360 Controller or a Logitech F310 Gamepad
- A laptop or a tablet. ArduSub works on Mac, Linux, Windows, iOS, and Android.
- A battery for the BlueROV2. We recommend getting 2 or 3 of these