

# ROV Project - Bill of Materials (BOM)

This Bill of Materials (BOM) outlines the necessary electronic components for the small-scale ROV based on the system design document. Prices are estimates in Australian Dollars (AUD) and are subject to change based on supplier and availability.

Component	Supplier / Model Example	Qty	Unit Price (AUD)	Total Price (AUD)
<b>Control &amp; Computation Subsystem</b>				
Flight Control Unit	Holybro Pixhawk 6C	1	~\$450	~\$450
Companion Computer	Raspberry Pi 5 (8GB)	1	~\$130	~\$130
<b>Propulsion Subsystem</b>				
Thruster	Blue Robotics T200	6	~\$250	~\$1,500
Electronic Speed Controller	Blue Robotics Basic ESC	6	~\$30	~\$180
<b>Power Subsystem</b>				
Main Battery	Custom 4S 29Ah Li-ion Pack	1	~\$750	~\$750
Kill Switch Relay	TE Connectivity / Kilovac 200A DC Contactor	1	~\$150	~\$150
External Kill Switch	Waterproof Magnetic Reed Switch	1	~\$40	~\$40
Power Distribution Board	Matek PDB-X500 (or similar >150A)	1	~\$50	~\$50
Power Sense Module	Blue Robotics Power Sense Module	1	~\$50	~\$50
BEC for Raspberry Pi	Blue Robotics 5V 6A Power Supply	1	~\$60	~\$60
BEC for FCU/Peripherals	Generic 5V 3A UBEC	1	~\$15	~\$15
<b>Communications &amp; Payload</b>				

<b>Subsystem</b>				
Tether Interface Board	Blue Robotics Fathom-X	2	~\$150	~\$300
Topside Interface	Blue Robotics FXTI	1	~\$50	~\$50
Tether Cable	Blue Robotics Fathom Tether (25m)	1	~\$200	~\$200
Camera Module	Raspberry Pi Camera Module 3	1	~\$50	~\$50
Subsea Light	Blue Robotics Lumen Subsea Light	1	~\$200	~\$200
Acoustic Transducer	Aquarian Audio H2a-XLR Hydrophone	1	~\$300	~\$300
<b>Miscellaneous</b>				
Wiring & Connectors	8AWG, 12AWG, Signal Wire, XT90, Bullet Connectors	1 lot	~\$100	~\$100
			<b>Estimated Subtotal:</b>	<b>~\$4,225</b>
			<b>Contingency (15%):</b>	<b>~\$634</b>
			<b>Estimated Total Cost:</b>	<b>~\$4,859</b>