CVHS Bill of Materials

Electronics Bottle

Source	Manufacturer	PN	Name	Price	Quantity per Bottle	Total Per Bottle	Notes
Sunstone Circuits	OSU	2302-30202	Raspberry Pi CVHS ROV Interface Board REV A	$34.81	1	$34.81	
Sunstone Circuits	OSU	2302-30302	Arduino Uno CVHS ROV Interface Board Rev B	$34.81	1	$34.81	
McMaster Carr	OSU	2302-01202-00002	CVHS ROV REAR ELECTRONICS SLED MOUNT RING	$2.25	1	$2.25	
McMaster Carr	OSU	2302-01202-00003	CVHS ROV ELECTRONICS MOUNT SLED	$10.00	1	$10.00	
McMaster Carr	OSU	2302-01202-00004	CVHS ROV FWD ELECTRONICS MOUNT RING	$2.25	1	$2.25	
McMaster Carr	OSU	2302-01202-00006	Main Electronics Tray Standoff	$0.70	4	$2.80	
AMAZON	Sandisk	SDSQUNC-032G-GN6MA	32GB SD Card	$8.70	1	$8.70	
AMAZON	CERRXIAN	L90L90	Right Angle USB Cord	$4.50	1	$4.50	
AMAZON	Various	Kit	Standoffs	$0.25	18	$4.50	
AMAZON	CNHL	4S 9500mAh	Lipo 4.8V 9.5Ah Battery (pack of 2)	$165.99	0.5	$83.00	
AMAZON	HiLetgo	MPU-6050	IMU	$3.30	1	$3.30	
AMAZON	DROK	C240505	5V High-Amperage Voltage Regulator	$10.18	1	$10.18	
AMAZON	Tongxiang	4PJSTXH	200mm 4 pin JST XH connector	$13.99	0.07	$0.93	
AMAZON	Apex	1535	EC5 Connectors (10pk)	$21.99	0.1	$2.20	
AMAZON	Various	USB C	USB C right angle power pigtail	$10.89	0.25	$2.72	
DIGIKEY	Raspberry Pi	SC0782	Raspberry Pi Camera	$25.00	1	$25.00	
DIGIKEY	Raspberry Pi	SC0193(9)	Raspberry Pi	$45.00	1	$45.00	
DIGIKEY	Arduino	A000066	Arduino Uno	$27.60	1	$27.60	
DIGIKEY	SEEED Tech	114992661	Armor Lite Heat Sink and Fan	$9.90	1	$9.90	
ADAFRUIT	ADAFRUIT	3660	Leak detector	$18.95	1	$18.95	
ADAFRUIT	ADAFRUIT	1647	Camera Ribbon Cable 8" 200mm	$1.95	1	$1.95	
ADAFRUIT	ADAFRUIT	5384	Stemma QT JST SH 300mm cable	$1.25	2	$2.50	
BLUE ROBOTICS	BLUE ROBOTICS	NA	4" Electronics Enclosure 400mm	$476.00	1	$476.00	
BLUE ROBOTICS	BLUE ROBOTICS	BR-100454	Power Distribuition	$45.00	1	$45.00	
BLUE ROBOTICS	BLUE ROBOTICS	BR-100019	Moisture Indicating Silica Gel Desiccant Bags qty 6	$10.00	0.17	$1.67	
BLUE ROBOTICS	BLUE ROBOTICS	BR-100344	Motor ESCs	$34.20	4	$136.80	
BLUE ROBOTICS	BLUE ROBOTICS	BR-100586	Blue Robotics Depth / Pressure Sensor	$80.75	1	$80.75	
BLUE ROBOTICS	BLUE ROBOTICS	BR-100434-01	Blank Plug M10	$6.00	4	$24.00	
BLUE ROBOTICS	BLUE ROBOTICS	BR-100493-065	WLP-M10-6.5MM-LC-R1-RP (Wetlink Penetrators - Thrusters) 5pk	$50.00	0.8	$40.00	
BLUE ROBOTICS	BLUE ROBOTICS	BR-100493-145	WLP-M10-4.5MM-HC-R1-5PACK-RP (Wetlink Penetrators Tether) 5pk	$50.00	0.2	$10.00	
					Total	**$1,152.07**	

On Prototype

Tether

Source	Manufacturer	PN	Name	Price	Quantity per Build	Total Per Build	Notes
BLUE ROBOTICS	BLUE ROBOTICS	BR-100987	BlueROV Fathom Tether (per m)	$6.00	25	**$150.00**	
OSU	TBD		Tether Alternate (waterproof cat6 cable)	$0.00	0	0	Only downside is it doesn't Float and it isn't bright yellow

Thrusters

Source	Manufacturer	PN	Name	Price	Quantity per Build	Total Per Build	Notes
BLUE ROBOTICS	BLUE ROBOTICS	BR-100545	T200 Thrusters (Full Assembly)	$190.00	4	**$760.00**	
BLUE ROBOTICS	BLUE ROBOTICS	BR-101694-001	T200 Motor Only (design and build cowliing/prop)	$152.00	4	$608.00	Could also Buy Prop, build cowling ($4.00 per)

Lights

Source	Manufacturer	PN	Name	Price	Quantity per Build	Total Per Build	Notes
BLUE ROBOTICS	BLUE ROBOTICS	BR-100717	lights	$325.00	1	**$325.00**	

Support Equipment

Source	Manufacturer	PN	Name	Price	Quantity per Bottle	Total Per Bottle	Notes
BLUE ROBOTICS	BLUE ROBOTICS	BR-101118	Vaccuum port	$8.00	1	$8.00	
BLUE ROBOTICS	BLUE ROBOTICS	BR-100490	Backfill Adapter	$11.00	1	$11.00	
AMAZON	Logitech G	F310	Manual Controller (Joy Stick)	$17.47	1	$17.47	
DIGIKEY	Raspberry Pi	SC0193(9)	Raspberry Pi	$45.00	1	$45.00	
AMAZON	Performance Tool	W87030	Hand Vacuum Pump Kit	$34.30	1	$34.30	
AMAZON	Sandisk	SDSQUNC-032G-GN6MA	32GB SD Card	$8.70	1	$8.70	
AMAZON	Ovonic	Mate1	Lithium Battery Charger	$62.99	1	$62.99	
McMaster Carr			Spare O-rings				
					Total	**$187.46**	
					Grand Total	**$2,574.53**	