

Cost of Materials

* Note exchange rate used for 11th May 2023: \$1.00 AUD = \$0.68 USD

Part Name	Amount Supplied	Amount Used	Supplier Cost (AUD)	Supplier Cost (USD)	Usage Cost (AUD)	Usage Cost (USD)	Supplier Link
Electronic Components							
Cabling							
1 - Heat Shrink 2mm Diameter Red and Black	5 metres	1 metre	\$0.76	\$0.52	\$0.15	\$0.10	https://www.aliexpress.com/item/1005002450682083.html
2 - USB 2.0 Type A Plug 4-pin Male Connector	5 pcs	1 pc	\$1.08	\$0.73	\$0.22	\$0.15	https://www.aliexpress.com/item/1005004940845387.html
3 - 1m Grey/Black Figure 8 Cable 28 AWG	1 metre	1 metre	\$0.35	\$0.24	\$0.25	\$0.17	https://www.aliexpress.com/item/1005005332693644.html
4 - Stranded Wire: Black, 28 AWG	50 metres	0.3 metres	\$16.88	\$11.48	\$0.10	\$0.07	https://www.aliexpress.com/item/1005005450546335.html
5 - Stranded Wire: Red, 28 AWG	50 metres	0.3 metres	\$16.88	\$11.48	\$0.10	\$0.07	https://www.aliexpress.com/item/1005005450546335.html
Fan control circuit							
6 - 4020 Blower Fan 5V model FB4020B(S)05H	1 pc	1 pc	\$2.20	\$1.50	\$2.20	\$1.50	https://yunfanpower.com/dc-blower-fan/64.html
7 - PWM DC Motor Speed Controller with Pot Switch 1803B	1 pc	1 pc	\$1.68	\$1.14	\$1.68	\$1.14	https://www.aliexpress.com/item/1005002205934989.html
8 - 9V Step-Up Voltage Regulator U3V16F9	1 pc	1 pc	\$11.60	\$7.89	\$11.60	\$7.89	https://core-electronics.com.au/9v-step-up-voltage-regulator-u3v16f9.html
9 - 5mm 3V Green LED	100 pcs	1 pc	\$0.59	\$0.40	\$0.01	\$0.00	https://www.aliexpress.com/item/1005005182451381.html
Power-off warning circuit							
10 - 16V 2200uf Electrolytic Capacitor	5 pcs	1 pc	\$1.30	\$0.88	\$0.26	\$0.18	https://www.aliexpress.com/item/4000031065489.html
11 - 1A 5VDC SPDT PCB Mount Mini Relay	10 pcs	1 pc	\$1.11	\$0.76	\$0.11	\$0.08	https://www.aliexpress.com/item/32963196636.html
12 - 1N4007 1000V 1A Silicon Diode	100 pcs	1 pc	\$0.73	\$0.50	\$0.01	\$0.00	https://www.aliexpress.com/item/1005002772647658.html
13 - 62-ohm Resistor	100 pcs	1 pc	\$0.55	\$0.37	\$0.01	\$0.00	https://www.aliexpress.com/item/1005005310500584.html
14 - 1.5-24V Piezo Chassis Mount (active) Buzzer	1 pc	1 pc	\$0.67	\$0.46	\$0.67	\$0.46	https://www.aliexpress.com/item/4001221164950.html
15 - 5mm 3V Red LED	100 pcs	1 pc	\$0.59	\$0.40	\$0.01	\$0.00	https://www.aliexpress.com/item/1005005182451381.html
Power source							
16 - 5V 10000mAh USB A Power Bank	1 pc	1 pc	\$13.56	\$9.22	\$13.56	\$9.22	https://www.aliexpress.com/item/1005001590958124.html
Materials							
Elastic							
17 - White Braided Elastic 20mm x 5m	5 metres	0.8 metres	\$0.58	\$0.39	\$0.09	\$0.06	https://www.aliexpress.com/item/32835986498.html
18 - White Braided Elastic 6mm x 5m	5 metres	1.5 metre	\$1.17	\$0.80	\$0.35	\$0.24	https://www.aliexpress.com/item/1005004641843380.html
Tape/Glue/Solder							
19 - Hot Glue Gun Sticks 7mm x 100mm	30 pcs	1 pc	\$4.60	\$3.13	\$0.15	\$0.10	https://www.aliexpress.com/item/33012695191.html
20 - Sticky Tape 18mm x 12m	12 metres	1.5 metres	\$0.43	\$0.29	\$0.05	\$0.04	https://www.aliexpress.com/item/4000161688372.html
21 - Double-Sided Tape White 3mm x 8m	8 metres	0.5 metres	\$1.39	\$0.95	\$0.09	\$0.06	https://www.aliexpress.com/item/1005003258328064.html
22 - Transparent Super Glue	12 pcs	1 pc	\$1.75	\$1.19	\$0.15	\$0.10	https://www.aliexpress.com/item/1005004377879839.html
23 - Non-Toxic Glue Stick	12 pcs	1 pc	\$7.58	\$5.16	\$0.63	\$0.43	https://www.aliexpress.com/item/1005001721527939.html
24 - 1mm Solder	100 g	10 g	\$7.12	\$4.84	\$0.71	\$0.48	https://www.aliexpress.com/item/1005005004488963.html
Sheets/Filters							
25 - H13 HEPA Filter	100 kg	0.1 kg	\$6.50	\$4.42	\$0.01	\$0.00	https://www.alibaba.com/product-detail/Factory-Direct-Supply-HEPA-Glass-Fiber_1600806152835.html
26 - Du Pont Tyvek 1443r Fabric	50x100 cm	50x80 cm	\$7.61	\$5.18	\$6.09	\$4.14	https://www.aliexpress.com/item/1005002715429366.html
27 - Non-woven Polypropylene Material	100x18 cm	10x10 cm	\$1.12	\$0.76	\$0.06	\$0.04	https://www.aliexpress.com/item/1005003942344949.html
28 - Level 3 Surgical Face Mask	10 pcs	1 pc	\$3.49	\$2.37	\$0.35	\$0.24	https://www.aliexpress.com/item/1005001835669245.html
29 - Face Shield Visor and Lightweight Foam	1 pc	1 pc	\$0.90	\$0.61	\$0.90	\$0.61	https://www.aliexpress.com/item/4000919187977.html
Other							
30 - Safety Pin	100 pcs	1 pc	\$2.25	\$1.53	\$0.02	\$0.02	https://www.aliexpress.com/item/1005004828520921.html
31 - Stopper Cord Lock Bean Toggle Clip	12 pcs	2 pcs	\$1.51	\$1.03	\$0.25	\$0.17	https://www.aliexpress.com/item/32703750628.html
32 - White Sewing Thread 500m	900 metres	3 metres	\$2.11	\$1.44	\$0.01	\$0.00	https://www.aliexpress.com/item/1005004885280621.html
33 - 1kg ABS or PETG Filament 1.75mm	1 kg	0.1 kg	\$5.09	\$3.46	\$0.51	\$0.35	https://www.aliexpress.com/item/1005001937526579.html
		Total:	\$125.73	\$85.53	\$41.35	\$28.12	