

Project:

PIX Lamp

Issued: 02/05/2024

Part	Qty	Unit Price (£'s)	Cost (£'s)	Supplier	Comments	Link
1N4006 Rectifier Diode 800V	6	£0.04	£0.24	Amazon	Sunk cost - cost per cm	Link
2mm x 10mm Steel Pozi Screws - silver	1	£0.03	£0.03	ebay	Can be re-used on other projects	Link
Batteries 18650 Lithium 3.7v 3000mAh	2	£2.85	£5.70	AliExpress	Can be re-used on other projects	Link
Battery 18650 spring contacts, sourcing map	2	£0.31	£0.62	Amazon	Sunk cost - cost per cm	Link
Battery Charger - 2 slot Lii-202 18650	1	£13.99	£13.99	ebay	Can be re-used on other projects	Link
Button Switch 6x6x5mm 4 pin tactile	1	£0.03	£0.03	Amazon	Sunk cost	Link
DC Power Socket 5.5mm Ø2.1	1	£0.38	£0.38	ebay	Sunk cost	Link
ESP32 DevKitC NodeMCU ESP-WROOM-32S	1	£4.48	£4.48	AliExpress	Can be re-used on other projects	Link
HuskyLens AI camera vision sensor	1	£50.90	£50.90	Amazon	Can be re-used on other projects	Link
M3 x 30mm Nylon C-Sunk screws	2	£0.07	£0.14	RS Components	Can be re-used on other projects	Link
Mini 3A DC-DC Converter step down	1	£0.80	£0.80	AliExpress		Link
Pin Header Strips Female 1 x 40	2	£0.90	£1.80	ebay	Sunk cost	Link
Pin Header Strips Male 1 x 40	1	£0.80	£0.80	ebay	Sunk cost	Link
RCWL-1601 Ultrasonic Distance Sensor	1	£3.90	£3.90	PiHut	Can be re-used on other projects	Link
Resistors 1/4 W	2	£0.03	£0.05	RS Components	Sunk cost	
Rubber bands 40x1cm 1.5mm thick	1	£0.31	£0.31	Amazon	Can be re-used on other projects	Link
Servo Motor MG92B Metal Gear Digital	5	£8.00	£40.00	Pi Hut	Can be re-used on other projects	Link
Toggle Switch SPDT On-(On) - long lever	1	£4.20	£4.20	RS Components	Can be re-used on other projects	Link
WS2812B RGB LED chips, white 5050SMD	7	£0.15	£1.05	Amazon	Sunk cost	Link
1.75mm PLA Filament 1kg reel - Voxelab +/- 0.02mm	0.5	£14.00	£7.00	Amazon	Sunk cost	Link
2-part epoxy glue 30ml tubes	0.5	£3.90	£1.95	ScrewFix	Sunk cost	Link
			Total:			
				Optional:	£13.99	Can be re-used on other projects
				Re-use:	£110.15	Can be re-used on other projects
				Sunk:	£13.92	Sunk cost

Notes:

- Prices are indicative, postage not included. Bulk purchases may be required to achieve figures. ie. LEDs, screws, etc
- Web links are used as a product search guide, may not be available long term
- Rechareable batteries will require a charger
- Consumeables like solder, flux, hook-up wire, etc are not included here, but are needed.
- 3-D printer is an estimate, but 1kg reel will do the job.