|  |  |  |
| --- | --- | --- |
| **Component Name** | **Component Picture** | **Component Description (from Manufacturer)** |
| Raspberry Pi 3b+ | https://images-na.ssl-images-amazon.com/images/I/810pJSU2UEL._AC_SL1500_.jpg | Programmable Microcontroller   * Broadcom BCM2837B0, Cortex-A53 (ARMv8) 64-bit SoC @ 1.4GHz * 1GB LPDDR2 SDRAM * 2.4GHz and 5GHz IEEE 802.11.b/g/n/ac wireless LAN, Bluetooth 4.2, BLE * Gigabit Ethernet over USB 2.0 (maximum throughput 300 Mbps) * Extended 40-pin GPIO header * Full-size HDMI * 4 USB 2.0 ports * CSI camera port for connecting a Raspberry Pi camera * DSI display port for connecting a Raspberry Pi touchscreen display * 4-pole stereo output and composite video port * Micro SD port for loading your operating system and storing data * 5V/2.5A DC power input * Power-over-Ethernet (PoE) support (requires separate PoE HAT)   <https://www.raspberrypi.org/products/raspberry-pi-3-model-b-plus/> |
| UNIROI 7 inch HD LCD Screen for Raspberry Pi |  | HDMI display   * UNIROI 7 inch LCD Screen for Raspberry Pi, fashionable and ultra-slim, compatible with Raspberry Pi 3 2 Model B+ 3B 2B B+ A+ A. * High definition screen with standard HDMI input signal interface. Default 1024\*600 resolution. * Universal USB 5V power supply interface design, support power bank, PC and 5V 1A power adapter power supply. Working current: 400mA.   <https://www.amazon.ca/gp/product/B07D6P2R5S/ref=ppx_yo_dt_b_asin_title_o04_s00?ie=UTF8&th=1> |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Part#** | **Model #** | **Reference Designation** | **Part** | **Unit Cost** | **Quantity** | **Subtotal** |
| 1 | Raspberry Pi 3 Model B+ | N/A | Raspberry Pi | $99.99 | 1 | $99.99 |
| 2 | N/A | D1 | Red LEDs | $0.375 | 4 | $1.50 |
| 3 | KS0219 | N/A | GPIO Breakout | $13.99 | 1 | $13.99 |
| 4 | 54-630 | S1 | Reed Switch | $15.80 | 4 | $63.20 |
| 5 | RDC-270R-10 | R1 | 270 Ohm Resistor | $1.50/10 | 4 | $0.60 |
| 6 | UR071-US-FBA | N/A | HDMI Screen | $65.99 | 1 | $65.99 |
| 7 | RPI-CAM-V2 | N/A | Raspberry Pi Camera Module V2-8 | $42.85 | 4 | $171.40 |
| 8 | B012001 | N/A | Arducam Multi Camera Adapter Module | $49.99 | 1 | $49.99 |
|  |  |  |  |  | Total | $457.66 |