|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Component | Quantity | ~ Cost/unit (USD) | Suggested source | Comments |
| *Raspberry Pi 4 Model B 4 GB* | 1 | 62 | [Amazon](https://www.amazon.com/Raspberry-Pi-RPI4-MODBP-4GB-Model-4GB/dp/B09TTNF8BT/ref=sr_1_1?crid=25JHDEX6T3SPQ&dib=eyJ2IjoiMSJ9.ZZ8OpEXf8mj3J-c0PkZ5WSwQIAbyxiVeBRjaZyOzDphT33qZ4rg2FKqFf7_SBXmLH07g48aqln3-U5DceWeWtGlGdt7qoKQd8U1JykbMBtPF21aex1fCShteY8mmjDZrYzKS6muy_VMDZLMI9h5HPTjoMRYPeh-FnigILSV446T61prdRCzkDa1z9RLLPeZpUPBoW6O3WIXdPXNadcR2nM8nKkmhxIvHAqEnE6mFhmY.LIru7La3L-C6Nv_ulge0ruGnl6qfUEcMv2RF7SZoHh4&dib_tag=se&keywords=Raspberry+Pi+4+Model+B+4+GB&qid=1747052460&sprefix=raspberry+pi+4+model+b+4+gb%2Caps%2C194&sr=8-1) | Only for photometry and video recording |
| *Power supply 15W USB-C* | 1 | 9 | [Amazon](https://www.amazon.com/Raspberry-Supply-iUniker-Switch-Listed/dp/B097P2NLVH/ref=sr_1_1?crid=3CBR6URBGLPK6&dib=eyJ2IjoiMSJ9.rBfBhT0wNHxScw2f67X0wUU9f6_Noiyr4-CNtzojFLF6Y6kzEBm9yNeJ4P8mAeiCWwNuo0sKCXmdBXbMcoTLSGAN3RLxgAaVFbQBG88sOm1Fg4Ce9tPvMydGh1HIBPP9_kwNxtJoG3wNhqvvYQe7sYLPuuC0xvlsKWBsd5-ZKH--4ySkiHierqaisMEpvBkSpKd_AkU-OvZwXJvW6Sm5vpcbI259yuZijYzXRSECZ6k.bQ7cH0a9GZ0yOpl5S30eP9qG0Dqk6LFLjbiMv04sQww&dib_tag=se&keywords=Raspberry+Pi+4+Model+B+4+GB+Power+supply+15W+USB-C&qid=1747052250&sprefix=raspberry+pi+4+model+b+4+gb+power+supply+15w+usb-c%2Caps%2C412&sr=8-1) | Only for photometry and video recording |
| *Memory card microSD 128 GB Class 10 A 1* | 1 | 15 | [Amazon](https://www.amazon.com/SanDisk-128GB-microSDXC-Memory-Adapter/dp/B0B7NTY2S6/ref=sr_1_3?crid=34AUYBFY95VPO&dib=eyJ2IjoiMSJ9.wURXrQCPkQt61NVEdL51J0L89gH-pIx0ejWKZ1WawAOs7oyu-hR53tZN6xVuStayzRzG9BT2Kxq8jL7rOx-GS12O7LowvT0YJyab1Bwusbckt09tDNUlmO5q9MFoqBVM2w6UBiZdXx72Hoq_aFwjQA8yxvAq3M3BYm394ZLOudHws4fgSgJ9_OplpeioXozIeNaVQKLcCxZNq2KBynH09LD36coi5IFbTf-woukL4Yk.ncdaxAc8dFQg437uMdi0IpTnBs401s73Iqs69nbEE4Y&dib_tag=se&keywords=Memory%2Bcard%2BmicroSD%2B128%2BGB%2BClass%2B10%2BA%2B1&qid=1747052301&sprefix=memory%2Bcard%2Bmicrosd%2B128%2Bgb%2Bclass%2B10%2Ba%2B1%2Caps%2C315&sr=8-3&th=1) | Only for photometry and video recording |
| *Raspberry Pi 4 B Tower Case* | 1 | 30 | [Amazon](https://www.amazon.com/ElectroCookie-Raspberry-Aluminum-Cooling-Changing/dp/B09QG349ZL/ref=sr_1_8?dib=eyJ2IjoiMSJ9.eb3MRrW-porKvsnulLcw-0OufiW8xIV-FsHtxeXqLWLxPI9KKGmP9o1B0HmhLifJtW4Lc3oIRJ_Wz_psSJjkOaM8cQIRaMi6zPjvMcNWo6j9JKslpnEVeJ5Knrfj7SHntxC5ML6320BOMEhhwLA5LWWNWgqNxUst6DnkSHcDQJcOUIkhwqbnCZxQH1eCbiOscWiAvPAIjbBnr8e3bRuWnMTzml9H4eYllB4PwuFfnWk.rECSAlM5cA8L94U0osuDXnxVQIkR-9ARQWyq5QNUvQQ&dib_tag=se&keywords=raspberry+pi+case&qid=1747207495&sr=8-8) | Only for photometry and video recording |
| *DB25 Male Header Breakout Board* | 2 | 12 | [CZH-LABS](https://czh-labs.com/products/czh-labs-slim-right-angle-dsub-db25-male-header-breakout-board-module-d-sub-231) | Only for photometry |
| *Ultra-small RPi GPIO Status LED & Terminal Block Breakout Board* | 1 | 19 | [CZH-LABS](https://czh-labs.com/products/ultra-small-rpi-gpio-status-led-terminal-block-breakout-board-module-for-raspberry-pi) | Only for photometry |
| *Jumper wires Male-Male* | 1 | 3.5 | [Arduino](https://store-usa.arduino.cc/products/40-colored-male-male-jumper-wires?srsltid=AfmBOopSv7Cth3RQFCKTE2_qZ8AfrOu5Sfp0TpfawUXWAwkuwOK5M64T) | Only for photometry |
| *Arducam 1080P Day/Night Vision USB Camera* | As needed | 34 | [ArduCam](https://www.arducam.com/arducam-1080p-day-night-vision-usb-camera-2mp-infrared-webcam-with-automatic-ir-cut-switching-and-ir-leds.html) | If video recording needed |
| *USB Camera mount* | As needed | - | [TinkerCAD](https://www.tinkercad.com/things/21BWhLxcOKk-cameramount) | If video recording needed |
| *Powered USB hub* | 1 | 20 | [Amazon](https://www.amazon.com/FEMORO-Charging-Splitter-Individual-Switches/dp/B0CG8YR4W7/ref=sr_1_3?crid=3VI4R1KOPUZ1E&dib=eyJ2IjoiMSJ9.IX-K0TUy3ti8xJcUelxcIXL2TYZnX3m0Cs11TnSTDeU1D48Scb2zO32L8XUO7uNEWxJKWWHNmZtnezAcVGJD37MDAVAfRMSnQSoYwxscumz5jEyaxn3sEuAYWCPVss0YKzZSDzKCYWXC2ghMLCzjHKLdGLpM3lNiYBKweVzULG34U2KjEFehsDSR2cVfeQ-5agk2-UL8NvShauIt1ZjSgfZ4qUQINa2wCF8EBO5Swwo.UDQ0LmWKbFslq_wn2LEFrXubSk7fPnnn_6u06qxZCEM&dib_tag=se&keywords=powered%2Bsub%2Bhub&qid=1747053392&sprefix=powred%2Bsub%2Bhu%2Caps%2C237&sr=8-3&th=1) | For more than 4 FEDs |
| *Long USB-A to Micro-B cables* | As needed | 7.5 | [Amazon](https://www.amazon.com/dp/B07232M876/ref=twister_B072FHJVT2?_encoding=UTF8&th=1) |  |
| *MicroHDMI cable* | 1 | 8 | [Amazon](https://www.amazon.com/oldboytech-Adapter-Compatible-Raspberry-Capture/dp/B08C2PVP7J/ref=sr_1_1_sspa?crid=D74N0BQ02N88&dib=eyJ2IjoiMSJ9.k5bWApYeAH0ebBzkA-hjJBvSGXj4ayk6E4LuramdV-RYXJsaYii_cw2OCyYqko9CTB1Gfvm4j9lI9HrSBEMa8pj587G4a3ia_7hUBd0tk65KPpyLnqc1gyAApBIO43ZiB_Sj00AXOSJntjbi939_9ZUolKTlgzfQ-QAXiwHwWiq0ks-93W-R9bdaM5_7CDHsHwvr4kKgiJ3BVfWFRdssHtRCZqTjqp1kgp1DmNqFB-w.k1pLYkOabtIl7Z2beYikhHzLuLcodfWuSuYyi3uKLJg&dib_tag=se&keywords=micro%2Bhdmi%2Bcable%2Braspberry%2Bpi&qid=1747053875&sprefix=micro%2Bhdmi%2Bcable%2Braspberry%2Bpiu%2Caps%2C235&sr=8-1-spons&sp_csd=d2lkZ2V0TmFtZT1zcF9hdGY&th=1) | Only for photometry and video recording |
| *Bluetooth keyboard-touchpad* | 1 | 40 | [Amazon](https://www.amazon.com/Arteck-Universal-7-Colors-Bluetooth-TV-Connected/dp/B09KLPJQPD/ref=sr_1_1_sspa?dib=eyJ2IjoiMSJ9.CHkwE7T34cuB4CKCC_NCMQg3vJ5OQkc3Vnkx0QNTvwv0M3u1OHnugbTrAelwoSNhhb1Rayk2Q3Gl40Ryi5IO7xp2PJsf7cJGMn-CszyV51HE-ZrXfIkINwZZp25eApGFSnp20ZvLXIzrb6R3UQ8HyhjNtApag2el8FJxQvvoqwWioVwOD3gi4eXZ7Av3miA5Zwa0Z_0kXQK2eoDZdFoFHTxMJLSRVRxR_xNUdBmrh0s.tsBLxOG4ctugwhQHUtYrhW8VRBsj8MTs5CYSAhZXyv4&dib_tag=se&keywords=Bluetooth+Keyboard+with+Touchpad&qid=1747057184&sr=8-1-spons&sp_csd=d2lkZ2V0TmFtZT1zcF9hdGY&psc=1) | Only for photometry and video recording |
| *Optional: Male to Female db25 extension cable* | 2 |  |  | Only for photometry |
| *FED3* |  |  |  |  |