| _ | Référence | Valeur | | Nom du fabricant | Référence du fabricant | | Référence du fournisseur | Quantité | Prix unitaire HT (€) | Prix TTC (€) | Total (€) |
|--------------|----------------------|----------------------------------|---------------------------------|--------------------|---------------------------|---------------------|-----------------------------|----------|----------------------|--------------|----------------|
| | - | 254mm ; F/D=5 | Miroir parabolique | | | Optique Unterlinden | KE031 | 1 | | 325 | 325 |
| Optique | - | 70mm | Miroir plan | | | Optique Unterlinden | KE035 | 1 | | 70 | 70 |
| | - | 7mm –21mm | Occulaire | Omegon | | Astro-shop | 5084 | 1 | | 59 | 59 |
| _ | | | | | | | | | | | 454 |
| Mécatronique | - | 0,9°; 5,4V; 0,9A | Moteur pas à pas | | 17HM15-0904S | Gotronic | 31119 | 2 | 17,42 | 20,9 | 41,8 |
| | - | 1,8° ; 3,9V ; 0,6A | Moteur pas à pas | | S20TH30-0604A | Gotronic | 31107 | 1 | 19,08 | 22,9 | 22,9 |
| | | | | | | | | | | | 64,7 |
| soc | - | | Raspberry Pi 3 B | Raspberry Pi | RASPBERRYPI3-MODB-1GB | Farnell | 2525225 | 1 | 29,29 | | 29,29 |
| | - | 8Mp | Raspi Camera v2 | Raspberry Pi | RPI 8MP CAMERA BOARD | Farnell | 2510728 | 1 | 22,19 | | 22,19 |
| | - | 16GB | Carte micro SD | Sandisk | SDSDQAB-016G | Mouser | 467-SDSDQAB-016G | 1 | 9,8 | | 9,8 |
| | - | 1,20m ? | Nappe CSI | | | | | 1 | | | 0 |
| | | | Carbaîlana | Dalak | | Delele | 4403 | 2 | | F 22006 | 61,28 |
| | • | 4.575611- | Contrôleur moteur | Pololu | Ulbiarata CDC 746 | Pololu | 1182 | 3 | 24.00 | 5,23806 | 15,71418 |
| | • | 1,575GHz | Module GPS | Adafruit | Ultimate-GPS-746 | Mouser | 485-746 | 1 | 34,89 | | 34,89 |
| | - U1 | 121/ • 51/ • 2 4 | Module IMU | Sparkfun | SEN-13762 | Mouser | 474-SEN-13762 | 1 | 13,06 | | 13,06 |
| | - | 12V ; 5V ; 2A 12V ; 5,41A | Module DC/DC Alimentation AC/DC | Recom XP Power | R-78B5.0-2.0 VEC65US12 | Mouser Farnell | 919-R-78B5.0-2.0 2524410 | 1 | 8,62 21,75 | | 8,62 21,75 |
| | - | | Connecteur alim | | PP-013 | | 490-PP-13 | 1 | | | |
| | - | M; 4mm; 1,7mm | Connecteur alim | CUI inc CUI inc | PJ-043H | Mouser Mouser | 490-PJ-043H | 1 | 0,987 0,707 | | 0,987 |
| | J6 [J10 ; J12] | F;4mm;1,65mm 2×2;M;90°;2,54mm | Header | Amphenol | 76383-302LF | Mouser | 649-76383-302LF | 1 | 0,707 | | 0,707 2,961 |
| | [510,512] | 2×2; F; Wire; 2,54mm | Header | Amphenol | 65239-002LF | Mouser | 649-65239-002LF | 3 | 0,341 | | 1,023 |
| | SW1; [J1; J5]; J13 | 1×2; M; 90°; 2,54mm | Header | Amphenol | 76382-302LF | Mouser | 649-76382-302LF | 7 | 0,498 | | 3,486 |
| | - | 1×2; F; Wire; 2,54mm | Header | Amphenol | 65240-002LF | Mouser | 649-65240-002LF | 7 | 0,201 | | 1,407 |
| | J7 | 1×4; M; 90°; 2,54mm | Header | Amphenol | 76382-304LF | Mouser | 649-76382-304LF | 1 | 0,699 | | 0,699 |
| | - | 1×4 ; F ; Wire ; 2,54mm | Header | Amphenol | 65240-004LF | Mouser | 649-65240-004LF | 1 | 0,314 | | 0,314 |
| | J9 | 1×5 ; M ; 90° ; 2,54mm | Header | Amphenol | 76382-305LF | Mouser | 649-76382-305LF | 1 | 0,882 | | 0,882 |
| | | 1×5; F; Wire; 2,54mm | Header | Amphenol | 65240-005LF | Mouser | 649-65240-005LF | 1 | 0,402 | | 0,402 |
| Carte | _ | 2,54mm | Contacts Header | Amphenol | 76357-401LF | Mouser | 649-76357-401LF | 36 | 0,192 | | 6,912 |
| lectronique | J8 | 2×20 ; F ; 2,54mm ; 16,13mm | Header | Samtec | ESQ-120-33-T-D | Mouser | 200-ESQ12033TD | 1 | 4,54 | | 4,54 |
| | [U2;U4] | 1×8; F; 2,54mm | Header | Amphenol | 76341-308LF | Mouser | 649-76341-308LF | 6 | 0,996 | | 5,976 |
| | D2 | 14V ; DO-214AB | Diode TVS | Littlefuse | SMCJ12A | Mouser | 576-SMCJ12A | 1 | 0,54 | | 0,54 |
| | D1 | 5A ; DO-214AB | Diode Schottky | MMC | SK54L-TP | Mouser | 833-SK54L-TP | 1 | 0,445 | | 0,445 |
| | [C9; C11]; C15 | 100µF; 16V; C2917 | Condensateur | Kemet | T491X107K016AT | Mouser | 80-T491X107K016 | 3 | 1,96 | | 5,88 |
| | [C1; C8]; [C12; C14] | 100nF ; C0805 | Condensateur | Yageo | CC0805KRX7R9BB104 | Mouser | 603-CC805KRX7R9BB104 | 11 | 0,131 | | 1,441 |
| | [R1; R5] | 100kΩ ; R0805 | Résistance | Bourns | CR0805-FX-1003ELF | Mouser | 652-CR0805FX-1003ELF | 5 | 0,087 | | 0,435 |
| | - | OFF-(ON) | Bouton poussoir | Omron | SS-5GL111 | Mouser | 653-SS-5GL111 | 5 | 1,98 | | 9,9 |
| | - | OFF-ON | Interrupteur | | | | | | | | 0 |
| | - | 19mm ; M2,5 ; FF | Entretoise | RAF | M1266-2545-SS | Mouser | 761-M1266-2545-SS | 4 | 1,62 | | 6,48 |
| | - | 10mm ; M2,5 ; MF | Entretoise | RAF | M2105-2545-SS | Mouser | 761-M2105-2545-SS | 4 | 1,37 | | 5,48 |
| | - | 6mm ; M2,5 | Vis | Keystone | 29301 | Mouser | 534-29301 | 4 | 0,361 | | 1,444 |
| | - | ?mm ; M2,5 | Vis | | | | | | | | 0 |
| | F1 | 5×20mm ; 6,3A | Porte fusible | Bulgin | FX0321 | Mouser | 422-FX0321 | 1 | 1,62 | | 1,62 |
| | - | 5×20mm ; 3A | Fusible | Bel Fuse | 5MF 3 -R | Mouser | 530-5MF3-R | 3 | 0,175 | | 0,525 |
| | - | 12V | Ventilateur | | | | | | | | 0 |
| | | | | | | | | | | | 158,52018 |
| | | | | | | | | | | Total (€) | 738,50018 |