| Category | Manufacturer  | 1 1                        | Link   | Qty | U.P.     |
|----------|---------------|----------------------------|--|-----|----------|
|          | Dacabarry Di  | RASPBERRY                  | https://xxxxx digilary.fr/product_detail/an/raspharery.pi  | 1   | 44.84 €  |
|          | Raspberry Pi  | PI 4B/4GB<br>RPI USB-C     | https://www.digikey.fr/product-detail/en/raspberry-pi.   | 1   | 44.84 €  |
|          |               | POWER                      |  |     |          |
|          |               | SUPPLY                     |  |     |          |
|          | Raspberry Pi  | BLACK EU                   | https://www.digikey.fr/product-detail/en/raspberry-pi/   | 1   | 6.52 €   |
|          |               | RASPBERRY                  |  |     |          |
|          | Raspberry Pi  | PI 7" TOUCH                | https://www.digikey.fr/product-detail/en/raspberry-pi  | 1   | 48.92 €  |
|          | reaspocity 11 | Flash Voyager              | intps://www.digiacy.ii/product-detail/en/raspoerry-ph  |     | 40.52 0  |
|          |               | GTX USB 3.1                |  |     |          |
| Computer | Corsair       | 128 Go                     | https://www.amazon.com/gp/product/B079NVJPKV/  | 1   | 45.57 €  |
|          |               | Chameleon3                 |  |     |          |
|          |               | Camera (CM3-<br>U3-13Y3M-  |  |     |          |
|          | FLIR          | CS)                        | https://www.flir.eu/products/chameleon3-usb3/?mode   | 1   | 285.00 € |
|          | LIK           | USB 3.1                    | intps://www.iiii.eu/products/enumercons/dssos/.iiiode  |     | 205.00 0 |
|          | FLIR          |                            | https://www.flir.eu/products/usb-3.1-locking-cable/  | 1   | 8.00 €   |
|          |               | MVL25M23 -                 |  |     |          |
|          |               | 25 mm EFL,                 |  |     |          |
|          | Thor Labs     | f/1.4, for 2/3"<br>C-Mount | https://www.thoulaha.com/thouproduct.cfm?portnumh  | 1   | 192.80 € |
|          | THOI Labs     | ME303007                   | https://www.thorlabs.com/thorproduct.cfm?partnumb  | 1   | 192.00 € |
|          |               | PMMA 0,5mm                 |  |     |          |
|          |               | - IR                       |  |     |          |
|          |               | transparent                |  |     |          |
|          |               | (80x60cm                   |  |     |          |
|          | GoodFellow    | rectangle +<br>Ø20mm disk) | http://www.goodfellow.com/catalogue/GFCat4I.php?   | 1   | 12.62 €  |
|          | Goodi chow    | LED                        | intep.//www.goodienow.com/cutaiogac/Gi Gat-ii.piip.  |     | 12.02 0  |
|          |               | infrarouge                 |  |     |          |
|          |               | 897-                       |  |     |          |
| Optics   | Mouser        | LZ440R608                  | https://www.mouser.fr/ProductDetail/LED-Engin/LZ-  | 1   | 17.69 €  |
|          |               | ATX Power                  |  |     |          |
|          | Coolbox       | supply 500W<br>Basic       | https://www.amazon.fr/CoolBox-Basic-500GR-dalim  | 1   | 20.35 €  |
|          | PCBWay        | Custom PCB                 | https://www.pcbway.com/  | 1   | 3.93 €   |
|          |               | Arduino nano               | The state of the s |     |          |
|          | Arduino       | 3.1                        | https://www.mouser.fr/ProductDetail/DFRobot/DFR0   | 1   | 16.52 €  |
|          | 0 16          | D                          |  |     | 10000    |
|          | Sparkfun      |                            | https://www.mouser.fr/ProductDetail/SparkFun/ROB   | 1   | 16.90 €  |
|          |               | ATX Power<br>Supply        |  |     |          |
|          |               | Connector -                |  |     |          |
|          | Sparkfun      | Right Angle                | https://www.mouser.fr/ProductDetail/SparkFun/PRT-  | 1   | 1.65 €   |
|          | New Japan     |                            |  |     |          |
|          | Radio         | NJM2670D2                  | https://www.mouser.fr/ProductDetail/NJR/NJM2670I   | 6   | 2.76 €   |
|          | T :4-a        | LED through-               | https://www.arganger.fc/Docales-tD-c-12/1-1  |     | 0.00.0   |
|          | Lite-on       | hole green<br>LED through- | https://www.mouser.fr/ProductDetail/Lite-On/LTL2R  | 7   | 0.09 €   |
|          | Lite-on       | hole yellow                | https://www.mouser.fr/ProductDetail/Lite-On/LTL2R  | 4   | 0.09 €   |
|          |               | Potentiometer              |  |     | 3.03 0   |
|          | Bourns        | 1 kohms                    | https://www.mouser.fr/ProductDetail/Bourns/PTV09/  | 2   | 0.68€    |
|          | Phoenix       | 2-wires                    |  |     |          |
|          | contact       | connector                  | https://www.mouser.fr/ProductDetail/Phoenix-Contac   | 8   | 1.29 €   |

|              | Phoenix            | 4-wires   |   |    |            |
|--------------|--------------------|---|---|----|------------|
|              | contact            | connector   | https://www.mouser.fr/ProductDetail/Phoenix-Contac      | 1  | 2.68 €     |
|              | Knitter            | 3-way switch  | https://fr.rs-online.com/web/p/interrupteurs-a-glissier | 1  | 0.94 €     |
|              | Yageo              | Resistance<br>through-hole<br>560Ohms                               | https://www.mouser.fr/ProductDetail/Yageo/CFR-25.       | 10 | 0.09 €     |
|              | Yageo              | Resistance<br>through-hole<br>220Ohms                               | https://www.mouser.fr/ProductDetail/Yageo/CFR-250       | 2  | 0.09€      |
|              | Yageo              | Resistance<br>through-hole<br>1kOhms                                | https://www.mouser.fr/ProductDetail/Yageo/CFR-12J       | 1  | 0.09 €     |
| Electronics  | Sparkfun           | Female header   | https://www.mouser.fr/ProductDetail/SparkFun/PRT-       | 2  | 1.27 €     |
|              | Openbuilds         |   | 1   | 1  | 5.49 €     |
|              | OpenBuilds         | V-Slot Linear<br>Actuator   | https://openbuildspartstore.com/v-slot-nema-23-linear   | 1  | 111.88 €   |
|              | Phidgets           | 42STH38<br>NEMA-17<br>Bipolar<br>Stepper with<br>26.85:1<br>Gearbox | https://www.robotshop.com/be/fr/moteur-bipolaire-en     | 1  | 42.78 €    |
|              | Sparkfun           | Microswitch -<br>SPDT (Roller<br>Lever)                             | https://www.mouser.fr/ProductDetail/SparkFun/COM        | 2  | 1.06 €     |
|              | Эрингин            | Syringe connectors  | intpon www.mouse.m/rroducts.cum.opana.um.com            |    | 1.00 0     |
| Syringe pump |                    | Syringes  |   |    |            |
|              | The Lee<br>Company | Electrovalve<br>LHDA053111<br>5H                                    | https://www.theleeco.com/products/electro-fluidic-sy:   | 6  | 65.16 €    |
| Manifold     |                    | Tubing  |   |    |            |
| Box          | Makerbeam          |   |   | 1  | 162.50 €   |
|              |                    | 3D printed parts  |   |    |            |
| Custom parts |                    | Lasercut parts  |   |    |            |
| TOTAL        |                    |   |   |    | 1,473.60 € |