

Category	Producer	Part Num	Part	Type	Description	Cost in €	Qty	Total
Computing Unit								
	PMDtec	700.000.094	Pico Flexx	ToF Camera	lightweight and fast ToF Camera	299	1	299.00
	TNTOR		10000mAh	Power Bank	slim and affordable power bank	23.99	1	23.99
	Bvon		Detachable Armband	Sports Armband	can also be found from other producers	14.99	1	14.99
	System-S	53525974	USB right-angle	USB Cable	right-angle usb cable – to connect Raspberry Pi and power bank	6.29	1	6.29
	Raspberry Pi Foundation		Raspberry Pi 3b+ SD-Card	Mini Computer	single-board computer ...for Raspi	33.99	1	33.99
Motor Board								
	Texas Instruments	TCA9548APWR	i2c Multiplexer	IC	PCB to control the vibration motors: https://aisler.net/p/DMKOGATR needed because the DRV's have permanent i2c addresses	1.65	2	3.30
	Yageo	RC0603FR-074K7L	4.7 ohm resistor	Resistor		0.11	20	2.20
	Texas Instruments	DRV2605LDGSR	LRA motor driver	IC	drivers for the motor	2.93	9	26.37
	Samsung Electro-Mechanics	CL10B104KB8NNNC	0.1 uF capacitor	Capacitor		0.11	1	0.11
	Samsung Electro-Mechanics	CL05A105MQ5NNNC	1 uF capacitor	Capacitor		0.11	18	1.98
	Samsung Electro-Mechanics	RC1608F103CS	10k ohm resistor	Resistor		0.11	8	0.88
	Aisler		PCB Production	PCB	price for 3 pc. from aisler.net incl stencil	29.77	0.3	8.93
Glove								
	–		3D Print of Case		PCB to control the vibration motors: https://aisler.net/p/DMKOGATR Printed at a friend's lab for 10€	10	1	10.00
	–		Gloves		see instructions – try some → I spent about 20€ for a few	5	4	20.00
	Startech	USB3AU1MRS	Startech.com USB right angle	USB Cable	right-angle USB cable – to connect the tof camera to the raspberry pi	13.49	1	13.49
	Jinlong Machinery & Electronics	G0832022D	Coin LRA Motor	Vibration Motor	same as G0832013D, but with longer leads	2.91	9	26.19

TOTAL 491.71

Link

	https://pmdtec.com/picofamily/order/
	https://www.amazon.de/TNTOR-5000mAh-Ladegerät-Android-SmartWatch-Gray/dp/B07GT1PMJJ
	https://www.amazon.com/LOVPHONE-Exercise-Magnetic-Installation-Adjustable/dp/B07BP3PL4M/
	http://www.system-s.com/USB-Tools/Micro-USB/-.46099.html?language=en
	https://www.raspberrypi.org/products/raspberry-pi-3-model-b-plus/
	https://www.digikey.com/short/p0mfv2
	https://www.digikey.com/short/p0mfvf
	https://www.digikey.com/short/p0mfv4
	https://www.digikey.com/short/p0mf0f
	https://www.digikey.com/short/p0mf0r
	https://www.digikey.com/short/p0mf0m
	https://www.startech.com/Cables/USB-3.0/slim-right-angle-micro-usb-cable-1m~USB3AU1MRS
	https://www.digikey.com/short/p0mf0p