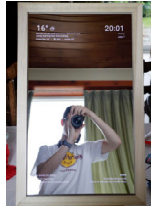


CLASS: 1NMCT3
 NAME: Dewulf
 FIRSTNAME: Niels
 Assembly Name : Smart Mirror
 Assembly Revision : 1.3
 Approval Date :
 Part Count : 16
 Total Cost : €321



(picture can only be added with END delivery of project!)

Part #	Part Name	Description	Revision	Qty	Supplier	also available from	Units	Unit Cost	Max Cost	Real Cost
1	Ribbon Sensor	Touch sensor	1.0	1	https://www.sparkfun.com/products/8679	Amazon of Adafruit	each	€ 11.00	€ 11.00	€ 10.69
2	One Wire Temperature sensor	Tracking the temperature	1.0	1	edstudio.com/One-Wire-Temperature-Sens	Amazon of AliExpress	each	€ 6.67	€ 6.67	€ 6.67
3	Microwave Motion Sensor RCWL-0516	Microwave motion sensor	1.1	1	iucf/B07CQVFRG2/ref=ppx_yo_dt_b_asin	Amazon, Adafruit en AliExpress	per 5	€ 7.99	€ 7.99	€ 7.99
4	27 inch IPS panel	Screen for in the mirror	1.0	1	https://www.2dehands.be	Amazon	each	€ 100.00	€ 100.00	€ 115.91
5	Acryl Two-way mirror	Two-way mirror.	1.0	1	https://www.pyrasied.nl/product/spionspiegel	Amazon	each	€ 29.00	€ 29.00	€ 43.78
6	Wood	Material for the case	1.0	1	SGDinterieur	-	each	€ 80.00	€ 80.00	€ 80.00
7	Raspberry Pi 3B+	Raspberry Pi 3 B+. The core of the mirror.	1.0	1	B07BDR5PDW/ref=sr_1_1?s=computers&i	Amazon.co.uk	each	€ 34.99	€ 34.99	€ 34.99
8	Speaker	A speaker to give alerts.	1.0	1	press.com/visaton-fr-7-4-2-1-2-full-range-dr	Amazon	each	€ 4.00	€ 4.00	€ 4.00
9	ADC	Analog to digital converter. Necessary to get the touch strip position.	1.0	1	Microchip-Technology/MCP3008-I-P?qs=A	AliExpress	each	€ 1.69	€ 1.69	€ 1.69
10	SD Card	SDCard for the Raspberry Pi	1.2	1	aart-sdhc-ultra-16-gb-class-10-uhs-i-13976	Coolblue	each	€ 11.00	€ 11.00	€ 8.56
11	Raspberry Pi T-cobbler	Breakout board for the Raspberry Pi	1.5	1	https://www.adafruit.com/product/2028	Amazon	each	€ 6.45	€ 6.45	€ 6.45
12	HDMI cable	HDMI cable	1.7	1	e-Schwarz/dp/B01418SSD0/ref=sr_1_3?cri	Amazon	each	€ 5.59	€ 5.59	€ 5.59
13	Adafruit I2S 3W Class D Amplifier Breakout - MAX98357A	DAC, a driver to play sounds on the speaker.	1.4	1	https://www.adafruit.com/product/3006	Amazon	each	€ 9.08	€ 9.08	€ 9.08
14	Jumperwires	Cables for the breadboard.	1.7	1	perwires-kabeltes/Premium-Jumperwires-4	Amazon	each	€ 4.95	€ 4.95	€ 4.95
15	Weerstand 4.7 Ohm	Pull-up resistor for the One-Wire temp sensor	1.8	1	https://www.kiwi-electronics.nl/Weerstand-4	Amazon	each	€ 0.10	€ 0.10	€ 0.10
16	Breadboard	Board to place the electric scheme onto.	1.7	1	ronics.nl/830pt-clear-breadboard?search=br	Amazon	each	€ 8.95	€ 8.95	€ 5.29
Total				16					€ 321.46	€ 345.74

Revision History

Whenever there are things that change in the original BOM you note this down here!

Assembly Name : Smart Mirror

Revision	Revision Summary	Approval Date
1.0	Alle basis componenten zitten erin. De helft van de componenten heb ik al.	-
1.1	De PIR bewegingsensor werkt niet achter plexiglas dus heb het veranderd naar een Microwave sensor	-
1.2	SD kaart toegevoegt	-
1.3	LEDs verwijderd. Onnodig.	-
1.4	Transistors verwijderd en DAC toegevoegt voor speaker	-
1.5	Raspberry Pi T-Cobbler toegevoegt.	13-03-19
1.6	HDMI kabel toegevoegt. I2S Amp naar 1 stuk veranderd.	-
1.7	BOM updated met werkelijke kosten (+de kosten van de componenten die ik al had); producten toegevoegt die nodig waren voor dit project tot een goed einde te kunnen brengen	-
1.8	Weerstand toegevoegt voor de One-Wire temp sensor	-

