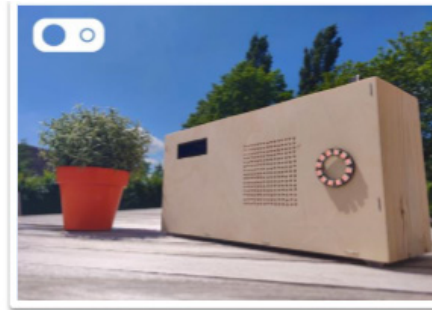


CLASS: 1NMCT3
NAME: Sevenhant
FIRSTNAME: Tibo
Assembly Name : Slimbox
Assembly Revision : 1,3
Approval Date : _____
Part Count : 20
Total Cost : €199



Part #	Part Name	Description	Revision	Qty	Supplier	also available from	Units	Unit Cost	Max Cost	Real Cost
1	DS18B20 - Temperature sensor	Temperature sensor to display the temperature on the online dashboard and lcd	1,0	1	International Electronics Kortrijk	Adafruit	1	€ 1,78	€ 1,78	€ 1,78
2	Potentiometer	Potentiometer to adjust the volume	1,1	2	International Electronics Kortrijk	Digi-key Belgium	2	€ 1,00	€ 2,00	€ 1,98
3	MCP3008 - ADC	Analog to digital converter to read the data from the potentiometer	1,0	1	Conrad	RS Components	1	€ 2,47	€ 2,47	€ 2,47
4	LSM303 Triple-axis accelerometer	Measures the position of the slimbox to mute or unmute the media	1,0	1	SOS Solutions	Adafruit	1	€ 17,95	€ 17,95	€ 17,95
5	Speaker - 3" Diameter - 8 Ohm 1 Watt	The speaker cone to play media through the amplifier and bluetooth	1,0	1	SOS Solutions	Adafruit	1	€ 4,95	€ 4,95	€ 4,95
6	Adafruit I2S 3W Class D Amplifier Breakout - MAX98357A	This is the amplifier, it makes sure the media can be played through the speaker	1,0	1	SOS Solutions	Adafruit	1	€ 8,95	€ 8,95	€ 8,95
7	Raspberry Pi 3B+	The Raspberry Pi is the base of the project, everything runs on the Pi	1,0	1	International Electronics Kortrijk	Bol.com	1	€ 53,95	€ 53,95	€ 53,95
8	16GB SD Card	An SD card for the image for the Raspberry Pi	1,0	1	Coolblue	Mediamarkt	1	€ 11,99	€ 11,99	€ 11,99
9	Breadboards	Breadboards to connect everything	1,0	2	International Electronics Kortrijk	Kiwi Electronics	3	€ 6,95	€ 20,85	€ 20,85
10	Neopixel Ring 12x 5050 RGB LED with Integrated Drivers	An RGB Ring where the user can choose which color will be displayed, through the online dashboard	1,1	1	SOS Solutions	Adafruit	1	€ 10,50	€ 10,50	€ 10,50

11	Arduino	As a power supply for the NeoPixel ring and also used with the levelshifter to display the chosen color on the ring	1,2	1	International Electronics Kortrijk	Kiwi Electronics	1	€ 23,95	€ 23,95	€ 23,95
12	Levelshifter	For the communication between the arduino uno and the raspberry pi	1,2	1	International Electronics Kortrijk	Kiwi Electronics	1	€ 4,95	€ 4,95	€ 4,95
13	LCD Display 16x2	To display the temperature, volume and IP	1,3	1	International Electronics Kortrijk	Kiwi Electronics	1	€ 4,45	€ 4,45	€ 4,45
14	Bumpers	To attach on the bottom of the case	1,3	1	Hubo	Brico	1	€ 6,00	€ 6,00	€ 6,00
15	Raspberry Pi 3B+ Power supply	The power supply for the Raspberry Pi	1,3	1	SOS Solutions	Kiwi Electronics	1	€ 11,99	€ 11,99	€ 11,99
16	Glue	To attach the components in and on the case	1,3	1	Hubo	Brico	1	€ 7,29	€ 7,29	€ 7,29
17	Nails	To put the case together	1,3	1	Hubo	Brice	1	€ 4,99	€ 4,99	€ 4,99
18	Wood (Wine bottle case)	The material to put my case together in	1,0	1	AD Delhaize	2dehands	1	€ -	€ -	€ -
17	Ethernet cable	To connect the pc with the raspberry pi	1,3	1	SOS Solutions	Kiwi Electronics	1	€ 7,50	€ 7,50	€ 7,50
19	Potentiometer knob	To give the potentiometer and my case a better look	1,3	1	SOS Solutions	Kiwi Electronics	1	€ 3,50	€ 3,50	€ 3,50
Total				20					€ 199,01	€ 198,99