

Class	1MCT
First Name:	Lennert
Name	Van de Velde
Project Name :	<u>K-IR-Board</u>
Assembly Revision :	<u>1</u>
Approval Date :	<u></u>
Part Count :	<u>13</u>
Total Cost :	<u>€236</u>

Part #	Part Name	Description	Revision	Qty
1	Raspberry Pi 4 Model B v1.2 - 2GB	Raspberry Pi to control the entire system	1	1
2	Assembled Pi T-Cobbler Plus	Breakout board for Raspberry Pi	1	1
3	40pcs 10cm Male To Female Jumper Cable	Cables to connect all parts	1	1
4	40pcs 10cm Male To Male Jumper Cable	Cables to connect all parts	1	1
5	IR Obstacle avoider	To detect Movement	1	8
6	Speakers	To play the sound	1	2
7	Different pieces of wood	To make the case	1	1
8	Paint	To finish up the case	1	1
9	Touch sensor	Detects the rythm for the backtrack	1	1
10	LCD	To display what key is being played	1	1

11	Raspberry pi 4 adapter	Power supply for pi	1	1
12	resistor package	For general usage	1	1
13	Rotary encoder	To change the tuning	1	1

Total

21



Supplier	also available from	Units	Unit Cost
		1	€ 39,95
https://www.kiwi-electronics.nl/raspberry-pi	https://www.banggood.com/Ra	1	€ 7,50
https://www.adafruit.com/product/2028	https://shop.pimoroni.com/pro	40	€ 4,53
https://www.banggood.com/40pcs-10cm-M	https://www.123-3d.nl/123-3D-	40	€ 3,64
https://www.banggood.com/40pcs-10cm-M	https://www.123-3d.nl/123-3D-	5	€ 3,46
https://www.banggood.com/nl/5Pcs-Infrare	https://www.continental.sg/sen	1	€ 6,59
https://www.banggood.com/2Pcs-1-Inch-1C	https://nl.aliexpress.com/item/	1	€ 83,18
Local store		1	€ 25,16
Local store		1	€ 10,84
https://www.banggood.com/RobotDyn-Digi	https://discountoffice.be/p/cap	1	€ 3,57
https://www.robotshop.com/eu/en/seedst	https://www.banggood.com/IIC		

1 € 7,62

<https://benl.rs-online.com/web/p/ac-dc-ada> <https://www.sossolutions.nl/ori>

500 € 7,49

<https://www.antratek.be/resistor-kit-1-4w-5l> <https://www.reichelt.com/be/nl/>

1 € 1,50

<https://www.banggood.com/nl/KY-040-Rot> <https://www.banggood.com/nl/>

Max Cost	Real Cost
€ 39,95	
€ 7,50	
€ 4,53	
€ 3,64	
€ 27,68	
€ 13,18	
€ 83,18	
€ 25,16	
€ 10,84	
€ 3,57	

€ 7,62

€ 7,49

€ 1,50

€ 235,84