

#	Component	Description	Qty	Unit €	Total €
1	Raspberry Pi 5 (8GB) + power supply + 32GB microSD	Main controller running the emotion-recognition system	1	174.95	174.95
2	USB Webcam (UGREEN)	Captures facial expressions for emotion detection	1	26.49	26.49
3	WS2812B RGB IC LED Strip (120 LEDs)	Dynamic visual feedback; colour changes with detected emotion	1	12.00	12.00
4	Jumper Wires	Connect Raspberry Pi GPIO pins to the circuit	1	9.99	9.99
5	Multiplex 4 mm (600 x 450 mm)	Birch plywood for the laser-cut enclosure housing	3	4.00	12.00
6	AC Power Supply 5V	External power supply for the WS2812B LED strip	1	16.00	16.00
7	LCD1602 Display	Displays the real-time detected emotion and system status	1	8.95	8.95
8	USB Speaker (Creative Pebble V2)	Plays music based on the detected emotion	1	24.00	24.00
9	Push Button	Start/stop and playback control through Raspberry Pi GPIO	5	1.20	6.00
	TOTAL	Part count: 15	15		290.38