

Bill of Materials

Name	Source	URL	Est Cost
Rpi 3B+	Amazon	https://www.amazon.com/dp/B07BDR5PDW	\$48
Arducam fisheye camera	Amazon	https://www.amazon.com/dp/B0BNGHZS1Q	\$29
LED 64x RGBW NeoMatrix	Adafruit	https://www.adafruit.com/product/3595	\$45
Light sensor	Adafruit	https://www.adafruit.com/product/3595	\$8
Environmental sensor	Adafruit	https://www.adafruit.com/product/5190	\$50
LCD 16x2 character display	Adafruit	https://www.adafruit.com/product/181	\$10
LCD I2C interface	Adafruit	https://www.adafruit.com/product/292	\$30
Standoffs & hardware	Amazon	https://www.amazon.com/dp/B07JYSFMRY	\$10
Polycarbonate Sheet	Amazon	https://www.amazon.com/dp/B07VWLCJN6	\$7
Comgrow ABS filament	Amazon	https://www.amazon.com/dp/B0F13BP5X1	\$17
STEMMA QT cabling	Adafruit		
150 mm JST to Female (2)		https://www.adafruit.com/product/4397	\$2
50 mm JST to JST (x2)		https://www.adafruit.com/product/4399	\$2
LED Power Board			
5V 4A Power supply	Adafruit	https://www.adafruit.com/product/1466	\$15
2.1 mm Barrel jack	Adafruit	https://www.adafruit.com/product/373	\$1
22Awg hookup wire	Amazon	https://www.amazon.com/dp/B07TX6BX47	\$15
* PCB Board 2x8 cm	Amazon	https://www.amazon.com/dp/B072Z7Y19F	\$10
* 1000 uF Capacitor	Amazon	https://www.amazon.com/dp/B08V5815K7	\$10
* Red LED indicator	Amazon	https://www.amazon.com/dp/B077XBFZH9	\$9
* 220 to 430 ohm resistor	Amazon	Included in above LED kit	
* indicates assortment kit that contains required item			