

Bill of Materials

Component Name	Quantity	Buy Link (International)*
Raspberry Pi 4 Model B 1GB	1	https://www.amazon.com/Raspberry-Model-2019-Quad-Bluetooth/dp/B07TD43PDZ/
5 V 3 A Power Supply	1	https://www.amazon.com/OKRAY-Charger-Portable-Charging-Compatible/dp/B07LBMLVQN/
USBC Cable	1	https://www.amazon.com/AmazonBasics-Type-C-USB-Male-Cable/dp/B01GGKYNOA/
Micro HDMI to HDMI	2	https://www.amazon.com/Rankie-Micro-Supports-Ethernet-Return/dp/B00Z07JYLE/
32 GB Class 10 MicroSD Card	1	https://www.amazon.com/SanDisk-Ultra-microSDXC-Memory-Adapter/dp/B073JWXGNT/
Cooling Case with Heatsink	1	https://www.amazon.com/GeeekPi-Acrylic-Raspberry-Cooling-Heatsinks/dp/B07TXSQ47L/
LEDs**	1	https://www.amazon.com/Gikfun-Assorted-Arduino-100pcs-EK8437/dp/B01ER728F6/
Resistors**	1	https://www.amazon.com/Elegoo-Values-Resistor-Assortment-Compliant/dp/B072BL2VX1/
Push Buttons**	1	https://www.amazon.com/OCR-180PcsTactile-Momentary-Switches-Assortment/dp/B01MRP025V/
Multimeter	1	https://www.amazon.com/AstroAI-Digital-Multimeter-Voltage-Tester/dp/B01ISAMUA6
Breadboard	1	https://www.amazon.com/EL-CP-003-Breadboard-Solderless-Distribution-Connecting/dp/B01EV6LJ7G/
Soldering Iron Kit	1	https://www.amazon.com/BAYKA-482-896%E2%84%89%EF%BC%88250-480%E2%84%83%EF%BC%89-Adjustable-Temperature-Auto-Sleep/dp/B07R4SDSP8/
Hook-up and Jumper Wires**	1	https://www.amazon.com/AUSTOR-Preformed-Breadboard-Assorted-Prototyping/dp/B07PQKNQ22/

LDR	1	https://www.amazon.com/PODOY-Photoresistor-GL5537-Resistors-Light-Dependent/dp/B016D737Y4
PIR Sensor	1	https://www.amazon.com/Adafruit-LK-9180-SANV-FBACA-PIR-Motion-Sensor/dp/B00JOZTAC6/
2 Channel Relay	1	https://www.amazon.com/SMAKN%C2%AE-Active-Channel-Arduino-Raspberry/dp/B00VH8926C/
Ultrasonic Sensor	1	https://www.amazon.com/SainSmart-HC-SR04-Ranging-Detector-Distance/dp/B004U8TOE6/
Motor Driver	1	https://www.amazon.com/Qunqi-Controller-Module-Stepper-Arduino/dp/B014KMHSW6/
2 DC Motors & Car Chassis	1	https://www.amazon.com/perseids-Chassis-Encoder-Wheels-Battery/dp/B07DNYQ3PX/
FTDI USB to Serial Module	1	https://www.amazon.com/HiLetgo-FT232RL-Converter-Adapter-Breakout/dp/B00IJXZQ7C/
I2C 16x2 LCD	1	https://www.amazon.com/HiLetgo-Display-Backlight-Controller-Character/dp/B00HJ6AFW6/
RC522 RFID kit	1	https://www.amazon.com/SunFounder-Mifare-Reader-Arduino-Raspberry/dp/B07KGBJ9VG/

***Check with your domestic online electronic stores before ordering from global online stores. You might get the components more quickly if ordered from domestic sellers. Also, these links might render useless if the seller removes the item from the online shop.**

****These are cheaper when ordered in bulk, and you will be needing extra components for the later sections.**