| Category | Item | Part Number | Quantity |
|---|---|---|---|
| Electronics | PIR sensor | D203B | 1 |
| | SD card module | Daier 1.29 | 1 |
| | SD card | B087JCL881 | 1 |
| | GPS receiver | GPS-13670 | 1 |
| | GPS jumper wires | PRT-10361 | 1 |
| | Arduino UNO | A000066 | 1 |
| | Op-amp | LF412ACN/NOPB | 2 |
| | Resistor - 10k | CF14JT10K0TR-ND | 3 |
| | Resistor - 100k | CF18JT100KTR-ND | 1 |
| | Resistor - 1M | VR68J1.0MCT-ND | 3 |
| | Resistor - 3.3M | CF14JT3M30TR-ND | 1 |
| | Capacitor - 0.1u | 493-12784-1-ND | 2 |
| | Capacitor - 10u | 493-7383-1-ND | 3 |
| | Male header | PBC36SADN | 1 |
| | Two-position female header | PPTC021LFBN-RC | 1 |
| | Three-position female header | PPPC031LFBN-RC | 1 |
| | Two-position terminal block | B08B3JP9QZ | 1 |
| | Three-position terminal block | B082QZ8Q3X | 1 |
| Enclosure | Waterproof box | WQ-55-02 | 1 |
| | Pole mount kit for box | PK-083 | 1 |
| | Screws | SCREWS-032-50 | 1 |
| Power Supply | Battery | PS-1280-F1 | 1 |
| | Solar controller | SS-6L-12V | 1 |
| | Female connection receptacle | 298-10278-ND | 2 |
| | 12 AWG chords | B074GG48F2 | 3 |
| | Solar panel | HY010-12M | 1 |
| | Pole mount kit for solar panel | SLB-0120 | 1 |
| | Connection receptacle | 889-1000-ND | 1 |
| | Connection plug | 889-1012-ND | 1 |
| | Nickel crimp | 889-1049-1-ND | 1 |
| | Cable | 1897CSL002-ND | 1 |
| | Cable gland | AIO-CSM12-ND | 1 |
| Miscellaneous | Jumper wires | 1988-1169-ND | 5 |
| | Zip ties | B08TBM621K | 1 |
| | Electrical tape | 13717044 | 1 |
| | Gorilla super glue | 75575255 | 1 |
| | Solder machine | MX 500S | 1 |
| | Solder wire | 468-480 | 1 |
| | Drill | B09SN6Y6TS | 1 |

Note: This bill of materials is listed for one sensing node.

| Vendor | Note |
|---|---|
| Ebay | |
| Amazon | |
| Amazon | |
| Sparkfun | |
| Sparkfun | |
| Amazon | |
| Digikey | |
| Digikey | |
| Digikey | |
| Digikey | |
| Digikey | |
| Digikey | |
| Digikey | |
| Digikey | |
| Digikey | |
| Digikey | |
| Amazon | |
| Amazon | |
| Polycase | |
| Polycase | |
| Polycase | |
| TNR technical | |
| Morning Star | |
| Digikey | Used to connect the 12 AWG chord to the terminals of the battery |
| Amazon | |
| Acopower | |
| Solarland | |
| Digikey | |
| Digikey | |
| Digikey | Used to create water-proof connection for the solar panel and the enclosure |
| Digikey | |
| Digikey | |
| Digikey | |
| Amazon | |
| Target | |
| Target | |
| Metcal | |
| Jensen | |
| Amazon | The drill bit has 0.5" diameter |