All Parts Used:

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| --- | --- | --- |
| Resource | Cost |  |
| Raspberry Pi 3 | $38.36 | <https://www.raspberrypi.org/products/raspberry-pi-3-model-b/> |
| Geekworm Raspberry Pi IR remote expansion board | $12.09 | <https://us.amazon.com/Raspberry-Controller-Transmitter-Transceiver-Geekworm/dp/B076BDR34K> |
| Sabrent USB external stereo sound adapter | $6.99 | <https://www.amazon.com/Sabrent-External-Adapter-Windows-AU-MMSA/dp/B00IRVQ0F8> |
| Energizer 2025 Lithium Battery | $7.43 | <https://www.amazon.com/Energizer-Lithium-Electronic-Battery-2-Count/dp/B0043CHWHA> |
| Sandisk Ultra Plus 16G GB microSD card | $10.61 | <https://www.amazon.com/Sandisk-Ultra-Micro-UHS-I-Adapter/dp/B073K14CVB/ref=sr_1_3?dchild=1&keywords=sandisk+16gb+micro+sd&qid=1588183081&sr=8-3> |
| 5V DC Power supply | $9.00 | <https://www.amazon.com/ZOZO-Switching-Replacement-Recorder-Bluetooth/dp/B01ALGGK2O/ref=sr_1_3?crid=VBCJYAMXUJVP&dchild=1&keywords=5v+dc+power+supply&qid=1588183110&sprefix=5v+dc+powe%2Caps%2C136&sr=8-3> |
| AV Splitter | $5.00 | <https://www.amazon.com/Splitter-Ancable-Female-Composite-Adapter/dp/B085QJL5WZ/ref=sr_1_1_sspa?dchild=1&keywords=AV+Splitter&qid=1588183132&sr=8-1-spons&psc=1&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUEyUko5OFI2WkRKRFJXJmVuY3J5cHRlZElkPUEwMTA1NjIxMTkzSlBJTFRINUZHRiZlbmNyeXB0ZWRBZElkPUEwNjY1OTUyM0YwVTlDVkgyNlVMJndpZGdldE5hbWU9c3BfYXRmJmFjdGlvbj1jbGlja1JlZGlyZWN0JmRvTm90TG9nQ2xpY2s9dHJ1ZQ==> |
| 3.5mm Audio Cable | $6.99 | <https://www.amazon.com/AmazonBasics-Stereo-Audio-Cable-Meters/dp/B00NO73MUQ/ref=sr_1_1_sspa?crid=STJ84IW3WMXL&dchild=1&keywords=3.5mm+audio+cable&qid=1588183154&sprefix=3.5mm+au%2Caps%2C147&sr=8-1-spons&psc=1&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUEzUEJMWDJVRkFIMzJEJmVuY3J5cHRlZElkPUEwNjM0OTkxMUZBRE4yMDBCNlhVRCZlbmNyeXB0ZWRBZElkPUEwNjMwNTUyMzI0U1FBS1pGRDNRVSZ3aWRnZXROYW1lPXNwX2F0ZiZhY3Rpb249Y2xpY2tSZWRpcmVjdCZkb05vdExvZ0NsaWNrPXRydWU=> |
| Westinghouse HDTV & Remote | Provided by customer |  |
| TV Antenna | Provided by customer |  |
| HDMI Cable | Supplied by customer |  |
| 3D Printer | Supplied by UMASS Dartmouth |  |

All Software Used:

|  |  |  |
| --- | --- | --- |
| Resource | Cost |  |
| LIRC (IR communication software) | Free software | <https://learn.adafruit.com/using-an-ir-remote-with-a-raspberry-pi-media-center/lirc> |
| PyCharm | Free software | <https://www.jetbrains.com/pycharm/> |
| SketchUp | Free software | <https://www.sketchup.com/> |
| Microsoft Word | Software provided by UMASS Dartmouth |  |
| Microsoft Excel | Software provided by UMASS Dartmouth |  |