

Raspberry Pi Security Camera

IDL project for Robby

Materials

- CPU:
 - <https://www.amazon.com/Raspberry-Zero-Bluetooth-RPi-2W/dp/B09LH5SBPS> (\$30)
 - <https://www.amazon.com/iUniker-Raspberry-Basic-Board-Cooler/dp/B0CQ274LC6> (\$150)
- <https://www.amazon.com/Arducam-Raspberry-Camera-IMX519-Module/dp/B0C53BBMLG> (\$40)

Requirements

- Use Python 3
- Needs outlet for power
- Camera has wide angle
- Write Python code that:
 - Looks for changes in the picture
 - When changes are detected:
 - Takes a picture every second
 - Saves that picture to a local computer in the house on the network
 - Stops when no changes are detected

References

Hardware

- [Arducam for Raspberry Pi Camera 16MP IMX519 Camera Module with 140°\(D\) Wide Angle M12 Lens for Raspberry Pi and OpenHD](#)
- [Vilros Raspberry Pi Zero 2 W Basic Starter Kit with Muti Purpose ABS Case -Incudes Pi Zero 2 W Board, Multi Use Case, Power Supply, HDMI-USB Adapters and More \(Black\)](#) - contains camera module adapter

Software

- [Getting Started with Raspberry Pi Zero W and Python 3](#)
- [How To Use The Raspberry Pi Camera With Python In 2023](#)
- [WiFi Security Camera With a Pi Zero 2W](#)
- [Raspberry Pi Zero W and Pi Camera Application](#)
- [Build a Raspberry Pi Security Camera Network](#)
- [How to build a Raspberry Pi Security Camera - A Comprehensive Step-By-Step Guide](#)
- [DIY Security Camera: How to Turn Your Raspberry Pi into a Surveillance System](#)
- [How to build a Raspberry Pi security camera](#)
- [How to Build a Motion-Triggered Raspberry Pi Security Camera](#)
- [How to Create a Raspberry Pi Security Camera with Motion Alerts](#)

