

Personal Security Camera User manual

Hardware:

- 1x Raspberry Pi 5 (4GB or 8GB)
- 1x Camera Module 3
- 1x Camera Connection Ribbon
- 1x MicroSD Card (Minimum 64GB, 128GB Recommended)
- 1x USB MicroSD Dongle
- 1x Power Supply, Raspberry Pi 5: Official 27W USB-C power supply.
- 1x Case with Active Coolers
- 1x Micro-HDMI cable to HDMI cable
- 1x Keyboard and Mouse

Operating System:

Pi OS 64-bit Operating System

Instructions:

Step 1: Flash the OS to the MicroSD Card

1. Insert the MicroSD card into your card reader.
2. Open Raspberry Pi Imager, download the latest Raspberry Pi OS, and flash it to the MicroSD card.
3. Eject the MicroSD card safely and insert it into the Raspberry Pi.

Step 2: Connect Hardware and Power on

1. Connect the Raspberry Pi Hardware together
2. Attach ribbon to camera and Raspberry Pi
3. Plug in the power adapter to boot the Raspberry Pi.

Step 3: Setup System Software

1. Open a terminal or SSH into your Raspberry Pi.
2. Update the system:
 - a. `sudo apt update && sudo apt upgrade -y`
3. Download python libraries pyotp, opencv, and picamera2
4. Download Personal_Security_camera.py
5. Update configurations such as emailed users
6. Run python file
7. Create and draw squares, movement will automatically generate video and email alerts.