Set Up MotionEye on Raspberry Pi

**Required items for this:**

* Raspberry Pi ([Amazon](https://www.amazon.ca/s?k=Raspberry+Pi&linkCode=gg3&linkId=6f1d7762f53ddc0baae7d70955e10a98&tag=pimylifeup-20))
* Any Web Camera.
* Power Supply ([Amazon](https://www.amazon.ca/s?k=Raspberry+Pi+Power+Supply&linkCode=gg3&linkId=aed9105ddfbe3fbca2281c6d516689fd&tag=pimylifeup-20))
* Micro SD Card ([Amazon](https://www.amazon.ca/s?k=Micro+SD+Card&linkCode=gg3&linkId=713df7956eee2eb8029711d263519a2e&tag=pimylifeup-20))
* Ethernet Cable ([Amazon](https://www.amazon.ca/s?k=ethernet+cable&i=electronics&linkCode=gg3&linkId=0b80850d72d4ff1498294007146b5694&tag=pimylifeup-20))

1. **Set Up your Raspberry Pi**

If you haven’t already set up your Raspberry Pi, follow these steps:

1. **Connect Hardware:**

* Insert your Raspberry Pi into its case (if you have one).
* Connect a keyboard, mouse, Monitor, and power supply to the Raspberry Pi.
* Insert a microSD card with Raspberry Pi OS (if you need help installing Raspberry Pi OS, use the [Raspberry Pi Imager tool](https://www.raspberrypi.com/software/)).

1. **Boot your Raspberry Pi:**

* Turn on the power, and your Raspberry Pi should boot up. Following the on-screen instructions to complete the initial setup.

1. **Update Your Raspberry Pi**

To make sure your Raspberry Pi has the latest software:

* Open the terminal (found in the taskbar or menu).
* Type the following commands one at a time and press enter after each:
* sudo apt update
* sudo apt upgrade

This will update and upgrade your Raspberry Pi’s software.

1. **Install Essential tools for MotionEye**

Now, install the necessary tools for MotionEye to work:

* Certificates for secure communication, file-downloading tools, and Python programs for handling cameras.
* Type this command in the terminal and press **Enter:**
* sudo apt --no-install-recommends install ca-certificates curl python3 python3-dev libcurl4-openssl-dev gcc libssl-dev

1. **Install Python Pip**

Pip is a program that helps install MotionEye and its extra features.

* First, check if Pip is already installed by typing:
* pip –verison
* If it’s not installed, install it by typing:
* sudo apt install python3-pip -y

1. **Fix Potential Errors**

To prevent errors during installation, run this command:

* sudo python3 -m pip config set global.break-system-packages true

1. **Install MotionEye**

Now, install MotionEye using Python Pip:

* Type this command and press **Enter**:
* sudo python3 -m pip install --pre MotionEye

1. **Set up MotionEye**

To prepare MotionEye for managing your cameras:

* sudo motioneye\_init

1. **Access the Motion Web Interface**

To control MotionEye through your browser:

1. Find your Raspberry Pi’s IP address:

* hostname -I

Write down the IP address shown (e.g., 192.168.1.2).

1. On your computer or phone, open a web browser.
2. Type this in the address bar:

* http://(your IP address):8765
* Example: http://192.168.1.2:8765

1. Log in as **admin** (leave the password blank).

* Once logged in, go to settings and create a password for security.

1. **Connect your USB Camera**

1. In the MotionEye web interface:

* Click **Add Camera**
* Select **UVC Camera** as the camera type.

2. Your camera should now appear on the screen.