

# MotionEye Raspberry Pi Setup Guide

This document provides clear, step-by-step instructions for setting up MotionEye on a Raspberry Pi. Follow each section carefully to ensure a smooth installation and configuration.

## 1. Connect to WiFi or Ethernet

Ensure your Raspberry Pi is connected to a network before proceeding. Wait on the desktop GUI for MotionEye to automatically open.

## 2. Login to MotionEye

Login directly on the Raspberry Pi (not on your PC) using the following credentials:

**Username:** admin

**Password:** (leave blank)

Click ‘Remember Me’ to stay logged in. If you change the default password, refresh the page, enter the new one, and click ‘Remember Me’ again.

## 3. Add Your Camera

- 1 Click the top-left menu icon → dropdown arrow → Add Camera...
- 2 Camera Type: Network Camera
- 3 URL: The camera’s RTSP feed (e.g., rtsp://192.168.60.139:554/ch\_400). Do not include the username or password in the URL.
- 4 Enter Username and Password if required; leave blank otherwise.
- 5 Press OK — the camera should appear. Repeat for each additional camera.

## 4. Edit Camera Configuration Files

List available camera configuration files:

```
cd /etc/motioneye && ls
```

Open and edit each configuration file (e.g. camera1.conf):

```
sudo nano /etc/motioneye/camera-1.conf
```

Set the following parameters:

```
framerate = 12
stream_maxrate = 10
```

Ensure that *stream\_maxrate* is less than or equal to *framerate*. Repeat this process for each camera.

## 5. Edit the Main Configuration File

To modify camera names or slideshow settings, open:

```
sudo nano /var/www/html/security-cameras.json
```

- Default camera names: camera1, camera2, etc. — one name per camera.
- Changing names in MotionEye does not update this JSON file. Avoid renaming unless necessary.
- enableSlideshow: true/false — toggle automatic camera switching.
- slideShowIntervalMs: delay between camera switches (in milliseconds).

```
To save and exit: Ctrl+O → Enter → Ctrl+X
```

After editing, refresh MotionEye with Ctrl+R.

Tip: Move the cursor into the screen corner to hide it. If you don't have a mouse, remote access via RaspiConnect or local VNC works fine.

## 6. Useful Commands

### Raspberry Pi Commands:

- 1 sudo apt update && sudo apt upgrade -y – update and upgrade all packages
- 2 hostname -I – show the Pi's IP address
- 3 ifconfig – display network information
- 4 ping raspberrypi.local – test network connectivity
- 5 sudo raspi-config – open the configuration tool
- 6 sudo reboot – restart the Pi
- 7 sudo shutdown now – shut down immediately

### MotionEye Commands:

- 1 sudo systemctl start motioneye – start the MotionEye service
- 2 sudo systemctl stop motioneye – stop the MotionEye service
- 3 sudo systemctl restart motioneye – restart the service
- 4 sudo systemctl enable motioneye – enable auto-start on boot
- 5 sudo systemctl disable motioneye – disable auto-start
- 6 sudo systemctl status motioneye – check service status
- 7 sudo nano /etc/motioneye/motioneye.conf – edit main MotionEye config
- 8 sudo nano /var/www/html/security-cameras.json – edit camera settings
- 9 tail -f /var/log/motioneye.log – view live logs

```
10 sudo apt install motioneye – install MotionEye  
11 sudo apt remove motioneye – uninstall MotionEye
```