**Live Stream on Raspberry Pi**

This document explains how to set up and run the live\_stream.py script on a Raspberry Pi to view your camera feed on a phone.

**1. Enable the Pi Camera**

• Open the Raspberry Pi configuration tool:  
 sudo raspi-config  
• Navigate to Interface Options → Camera and enable it.  
• Reboot the Pi:  
 sudo reboot

**2. Install Dependencies**

• Update package lists:  
 sudo apt update  
• Install OpenCV and pip:  
 sudo apt install python3-opencv python3-pip  
• Install Flask with pip:  
 pip3 install flask

**3. Transfer the Script**

Copy the live\_stream.py file to your Raspberry Pi. You can use USB, SCP, Git, or any other transfer method.

**4. Run the Script**

In a terminal on the Pi, navigate to the folder containing live\_stream.py and run:  
 python3 live\_stream.py  
You will see:  
 MJPEG stream running at http://<PI\_IP\_ADDRESS>:5000/live

**5. View on Your Phone**

On your phone (connected to the same Wi-Fi network), open a browser and go to:  
 http://<PI\_IP\_ADDRESS>:5000/live  
Replace <PI\_IP\_ADDRESS> with the address shown in the terminal.

**Troubleshooting**

• Firewall: Ensure no firewall is blocking port 5000.  
• Camera in Use: Make sure no other application is accessing the camera.  
• Python Errors: Confirm flask and opencv-python are installed correctly.

**Simple MJPEG HTTP Streamer for Webcam – on Windows**

This script sets up an MJPEG stream of your webcam, viewable at

http://<YOUR\_PC\_IP>:5000/live

Prerequisites

• Python 3 installed (https://www.python.org/)  
• Webcam connected to your computer  
• Network connection (PC and phone on **same Wi-Fi**)

Installation

1. Open Command Prompt (Windows) or Terminal (macOS/Linux).  
2. Install required Python packages:  
 pip install flask opencv-python

Running the Stream

1. Ensure your webcam is not in use by another application.  
2. Navigate to the folder containing live\_stream.py:  
 cd path\to\your\folder or double-click on live\_stream.py in Windows  
3. Run the script:  
 python live\_stream.py  
4. Note the message:  
 MJPEG stream running at http://<YOUR\_PC\_IP>:5000/live  
 Replace <YOUR\_PC\_IP> with your computer’s IP (from ipconfig).  
5. On your phone (same network), open a browser and go to:  
 http://<YOUR\_PC\_IP>:5000/live  
6. To stop the stream, return to the terminal and press Enter.