Luvenca

User Manual

v1.6
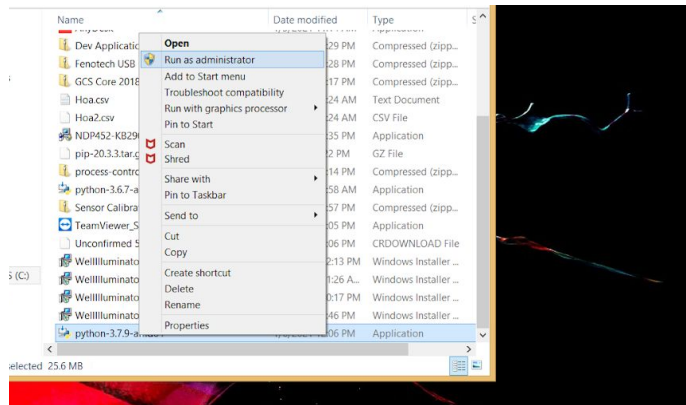
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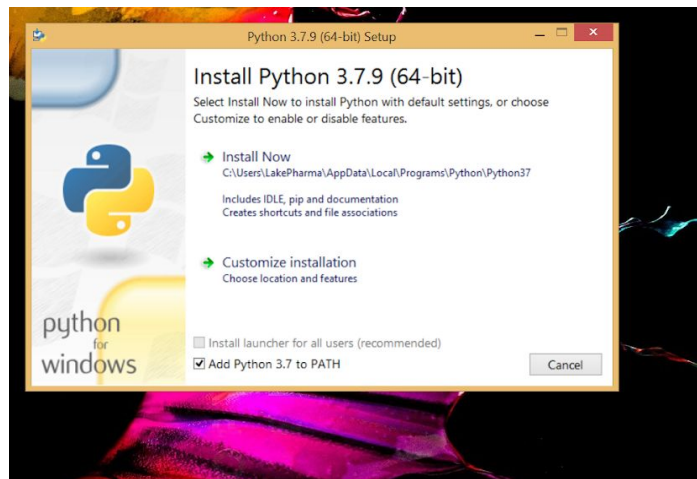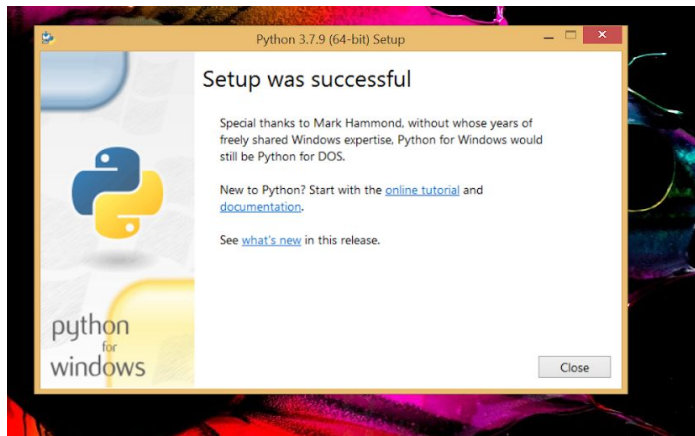
Installation:

1. Download "check_python_install.bat" and run.
   a. If it returns "Python installed -- OK", close windows and proceed to Step 2
   b. If it returns "Python NOT installed", close windows and download
      https://www.python.org/ftp/python/3.7.9/python-3.7.9-amd64.exe and install via process
      below:
      i. Right Click > Run as administrator
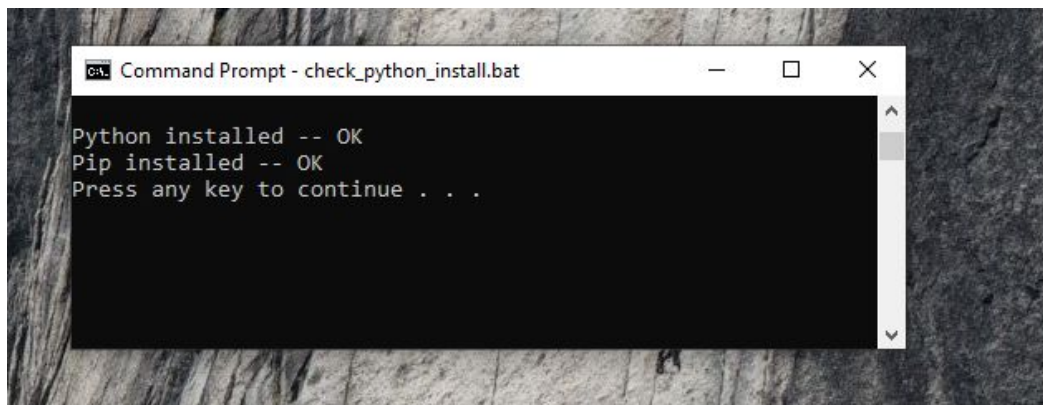

      ii. Ensure "Add Python 3.7 to PATH" is checked, then click "Install Now"
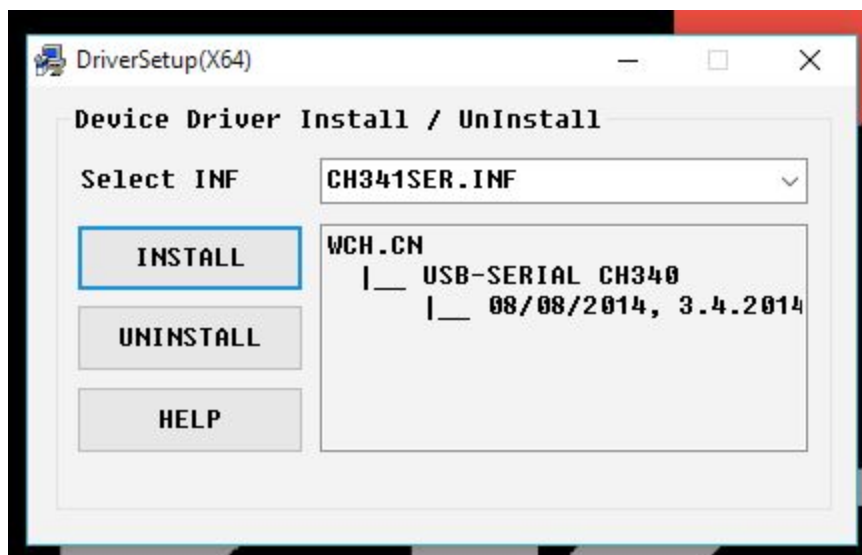
iii. Once the install is complete click "Close"

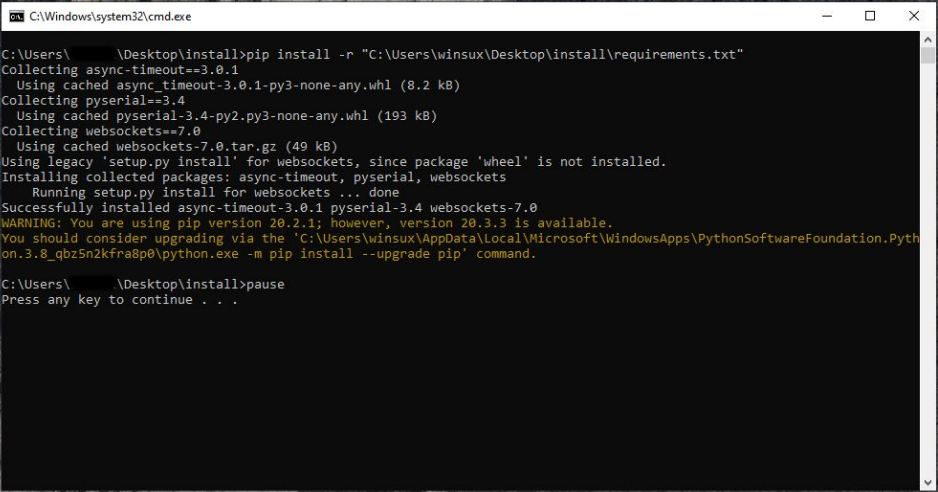iv. After closing re-run "check_python_install.bat" and confirm the output is:

2. Install the USB drivers
   a. Double-click "CH341SER.EXE"
   b. Click the "Uninstall" button first. Then click on the "Install" button.

3. Ensure Power is connected to Luvenca
    a. (Diagram of the rear of the instrument showing power jack)

4. Ensure PC is connected using the included USB
    a. (Diagram with Luvenca, usb cable, and laptop)

5. Download Luvenca software. UNZIP to Desktop.

6. Install software requirements:
    a. Open the Luvenca directory
    b. Double Click "install.bat" file
        i. On the notification: "... allow the following program to make changes to your device" … Click "Yes"
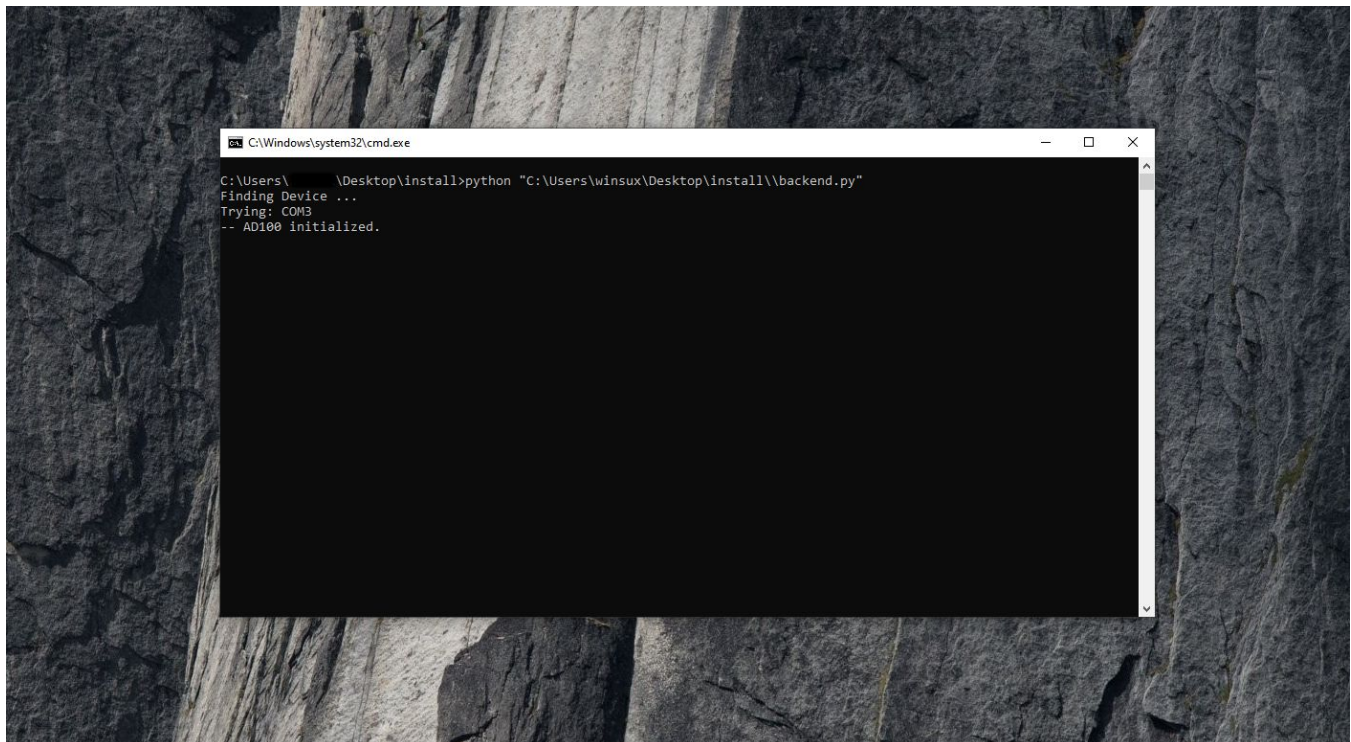
    c. Successful Installation will look like this:

Running Absorbance Graph:

- Ensure Instrument is powered on
- Ensure Luvenca is connected to PC via USB cable
- Run the server
  - Open the Luvenca file
  - Double Click "run_server"
  - Wait for "-- AD100 initialized"

- Open Dashboard
  - Within the "Luvenca" file locate "run_client" and double click (open with Firefox)
- Run instrument until Absorbance plateaus (indicating LED reaches operating equilibrium)
- Click "Set Zero"

Troubleshooting:

- *** SENSOR INITIALIZATION FAILED ***
    - Some older versions of windows may require a specific USB driver available here:
      https://cdn.sparkfun.com/assets/learn_tutorials/8/4/4/CH341SER.EXE