**Oscilloscope Setup Program Manual**

**Hardware needed:**

* Ethernet cable

**Download the program:**

* Download the program here: <https://github.com/ethannluong/scope_setup_v2.0>

**Using the program:**

* Connect the oscilloscope to the tester PC using the GPIB connector and attenuator cable.
* Via ethernet connect the oscilloscope to the computer the program will be running on.
  + This must be a separate computer than the tester PC.
* Navigate to the program folder and use the shortcut to run the executable.
  + If the program fails to launch, allow the oscilloscope to connect to the computer.
  + Wait a minute and try to launch the program again.
* When selecting target size, polarity, and voltage, the program will send the oscilloscope the commands for the selected values.
  + In the figure below, the program sends commands to the oscilloscope to set the waveform polarity to positive and the scale for a 125V test. A white background with black numbers and a white circle

    Description automatically generated
* You still need to hit the “Single” button on the oscilloscope to capture the waveform.
* Once the oscilloscope has captured the waveform, click the “Check data” button to transfer to the table below.
  + If the cell of any value is highlighted red, that value is out of range and another waveform must be taken again.
  + If a second waveform is taken, clicking the “Check data” button again will rewrite the data in the table.
  + Do this as many times as necessary to get passing values.
* Once finished taking waveforms and all values are passing, clicking the “Copy table" button will copy the table data so that it can be pasted in Excel, text file, etc.

This program is to aid the user taking waveforms, it does not fully automate it. The user will still need to set up and run the test plan on the tester PC.