

Physics 4700

Instructions for Capturing the Scope Data

Instructions for capturing the scope data with MatLab are as follows:

- 1) Run Matlab
- 2) Using the desktop toolbar change the “current directory” to C:\Matlab_TDS1002b
- 3) At the Matlab command prompt type: ScopeGui
- 4) Capture Ch1, Ch2, or both.
- 5) The data can be exported to an Exel file (export excel), or one can plot the scope data, and perform various fits/transforms on the data (commands).

Trouble Shooting:

If the Gui fails to connect to the scope, first check the USB cable is connected to the computer and the back USB connector of the scope. If the cable is present but there is still a problem, start the TEKVISA instrument manager and see that the scope is recognized.

Make sure the USB port listed in the instrument manager matches that in openscope.m in the C:\Matlab_TDS1002b directory.

The difference for the different models of scope is the different directory used (step 2 above). Just select the appropriate directory that matches the model of scope you are using.

If you want to use Tektronix OpenChoice desktop, it's pretty intuitive. You start the application, select the scope address, then pick what channels you want, then select waveform capture. You can then write the data to a file.