

Capture TDS210 Oscilloscope Traces with Matlab

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Initial Setup (one time):

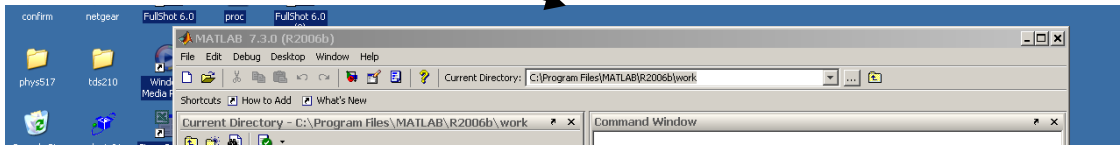
Make a directory c:\Matlab_Scope. Copy the file:

http://www.physics.ohio-state.edu/~durkin/phys517/Matlab/phys517/Matlab_TDS210.zip

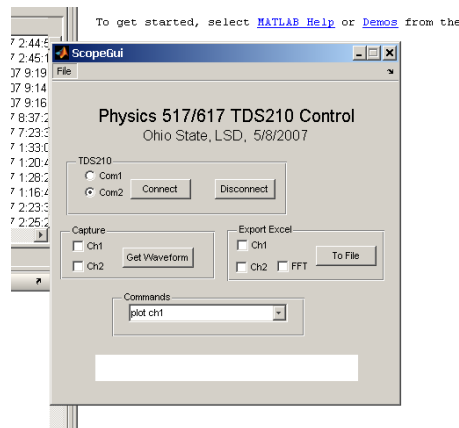
into this directory and extract the scripts into this directory using WinZip.

Running Matlab Gui:

- 1) Run Matlab (*All Programs->MATLAB->R2008b->MATLAB R2008b*).
- 2) Using the desktop toolbar below change the current directory to c:\Matlab_TDS210.



- 3) At the Matlab command prompt type: ScopeGui. The following Gui should appear.



- 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 connect to the scope, first check the serial cable and the com port it is connected to. If there are no problems, on the scope push the Utilities button, and then the RS232 setup. The settings should be baud:9600 , hardware flow control on, no parity.

Additionally one can start the TEKVISA instrument manager and see that the scope is recognized.