

## Quick start guide

### *Introduction*

WaveView For Windows is a powerful data acquisition and analysis package for the pci 700 and pci 800 range of boards.

The boards supported are the pci703 series, pci800 series, pci-30 series, and pci730 series.

Possible applications for Wave View For Windows include:

- 1-64 Channel digital storage scope
- Strip chart data logger
- High speed streaming (up to 64 channels)
- Continuous process monitoring

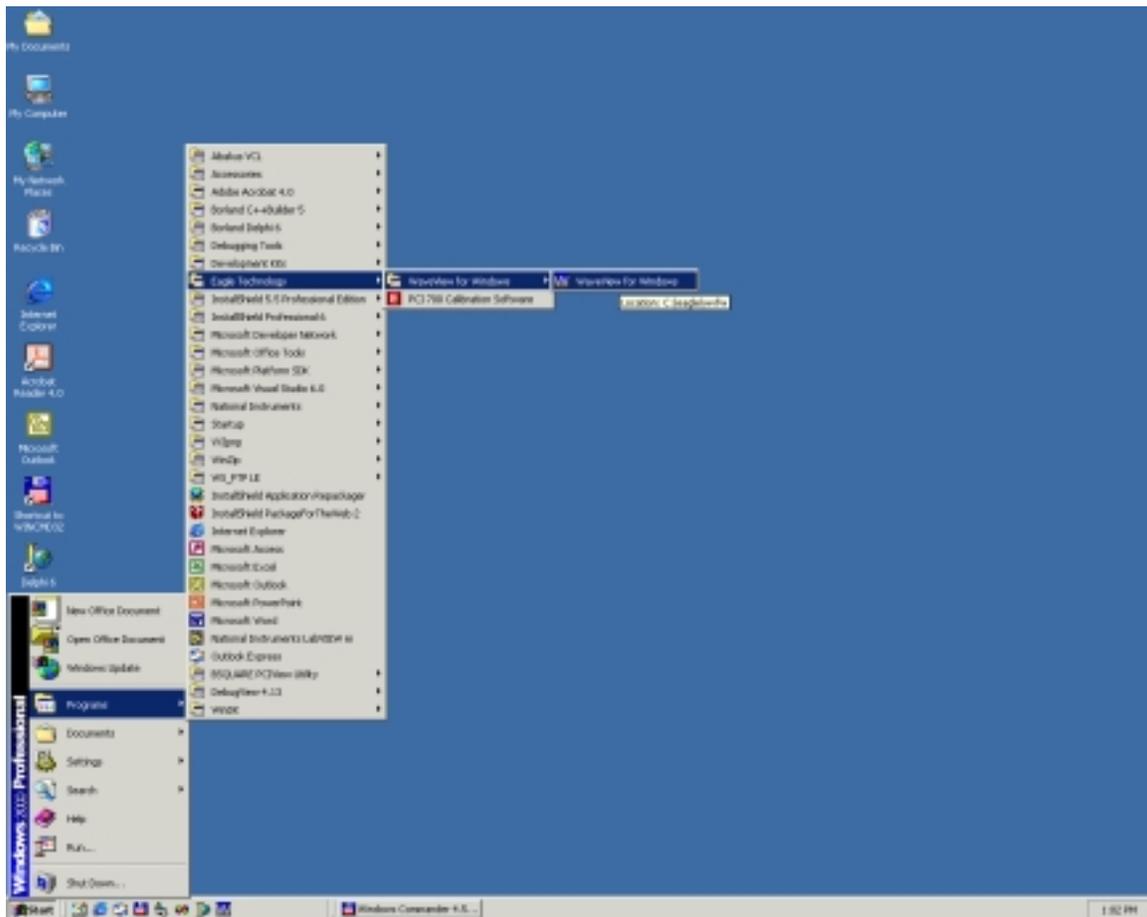
Data can be streamed to disk at full 400kHz throughput of the pci-703 16/64 on a reasonably fast machine and disk.

### *Installing software*

1. Make sure that one of the above mentioned boards installed in your machine and is working properly. For board installation please refer to the board's installation manual.
2. The first part of your installation has been completed you are ready to install the EDREnhanced Software Development Kit. Run **edreapi.exe** found on the Eagle CD-Rom and follow the on screen instructions.
3. You are now ready to install the Wave View For Windows application package. Run **wvfwsetup.exe** also found on the Eagle CD-Rom (d:\edre\apps\wvfw\\*.\*) and follow the on screen instructions.

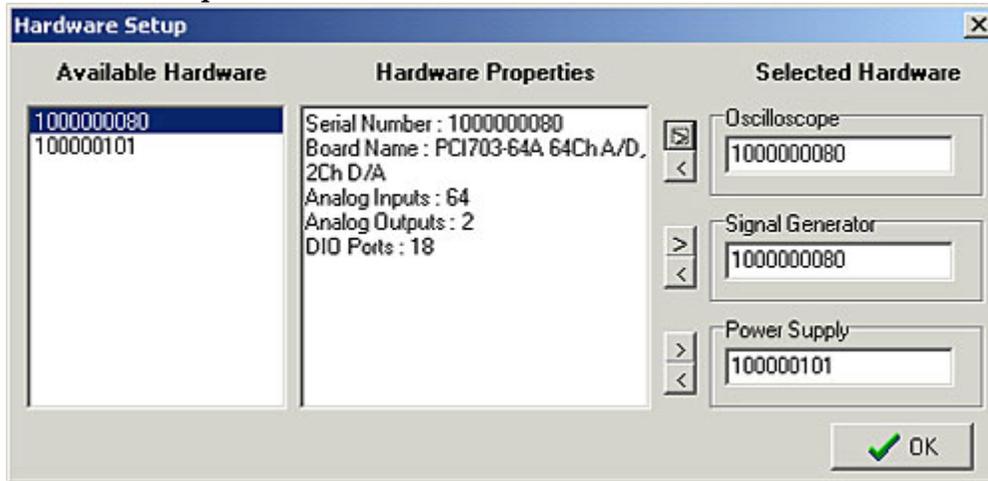
All the latest software versions are available on our website ([www.eagledaq.com](http://www.eagledaq.com))

## Getting Started



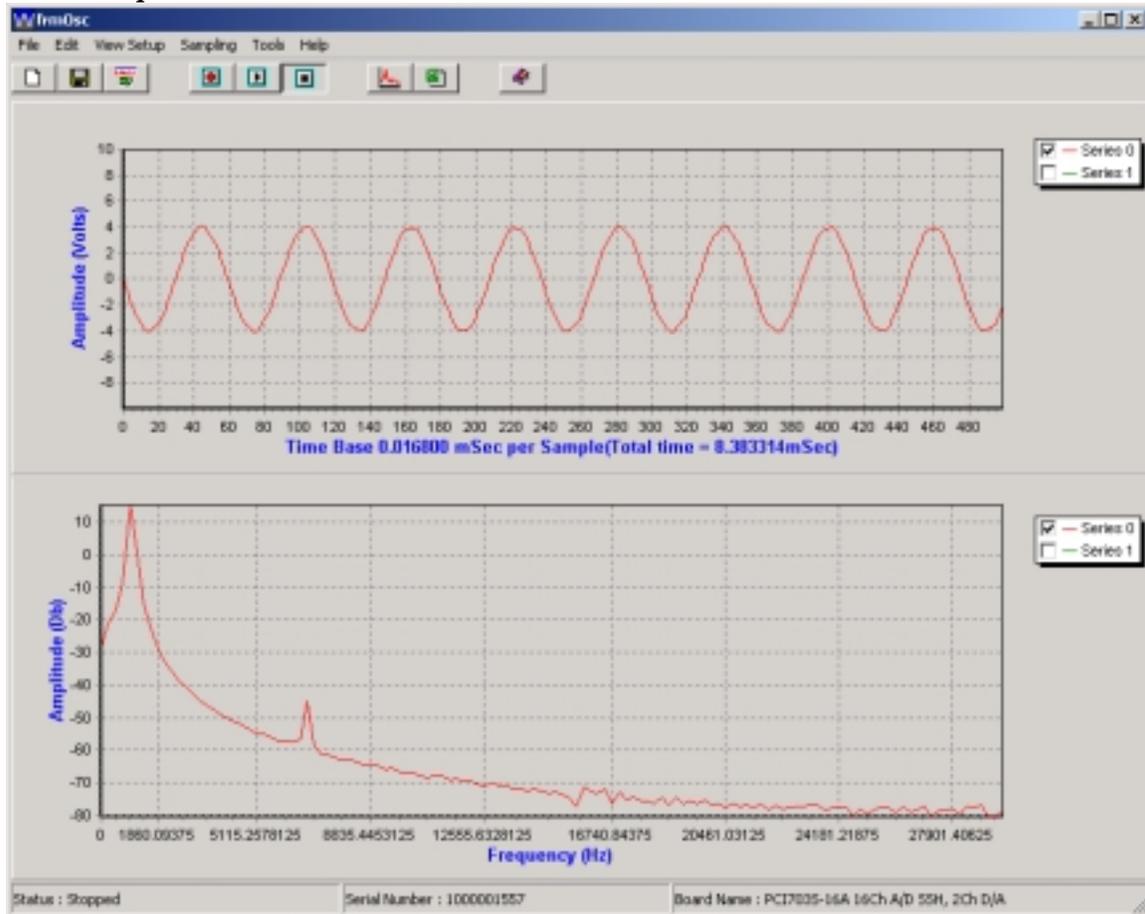
You should find the WFW icon in your menu bar.

## Hardware Setup



To use the Oscilloscope, Power supply or the Signal Generator, you will have to do a hardware setup first. In then dialog box that appears you will be able to assign the serial number of one of the boards to an application. You will only be able to run the application if there is a board assigned to it.

## Oscilloscope



When the oscilloscope application is loaded, a default *configuration* is loaded.

To setup the program to suit your need, you can open the configuration dialog box by going to settings in the menu bar. The configuration can be save for later use (File=>Save Config As).

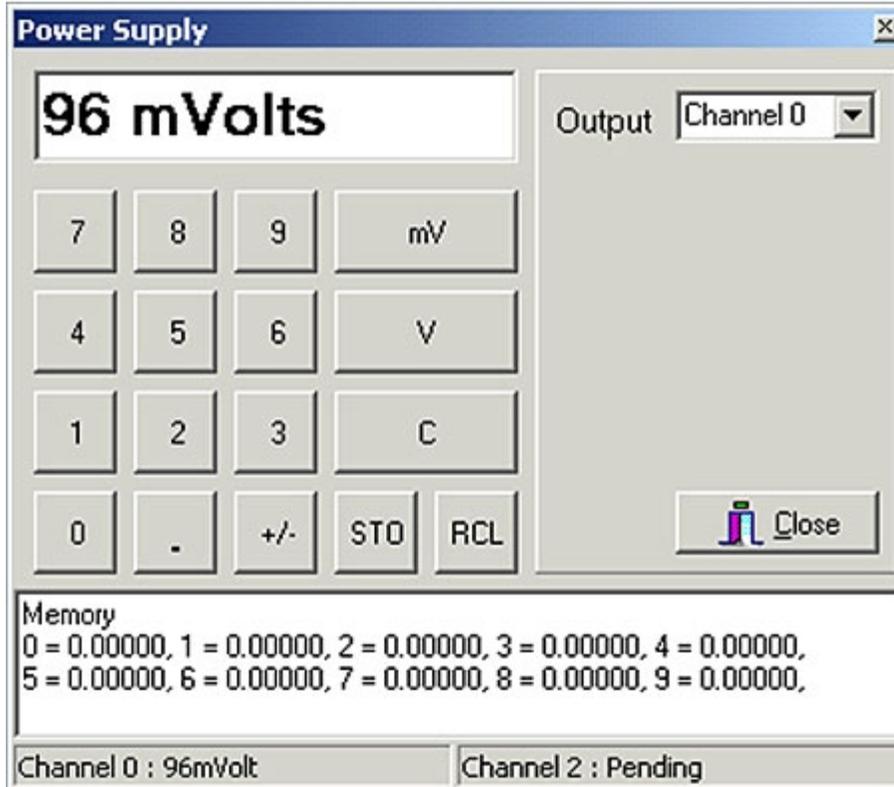
To *stream data to hard drive*, simply go to File=>New. Enter the new file name, click the 'Activate stream to file' icon and click '>' Start.

If you want to *view the data* that you save to disk, simply go to Tools=>Load File. You will be asked to select a file that you would like to view.

The chart view can be exported to a *bitmap picture* at any time by go to Tools=>Save.

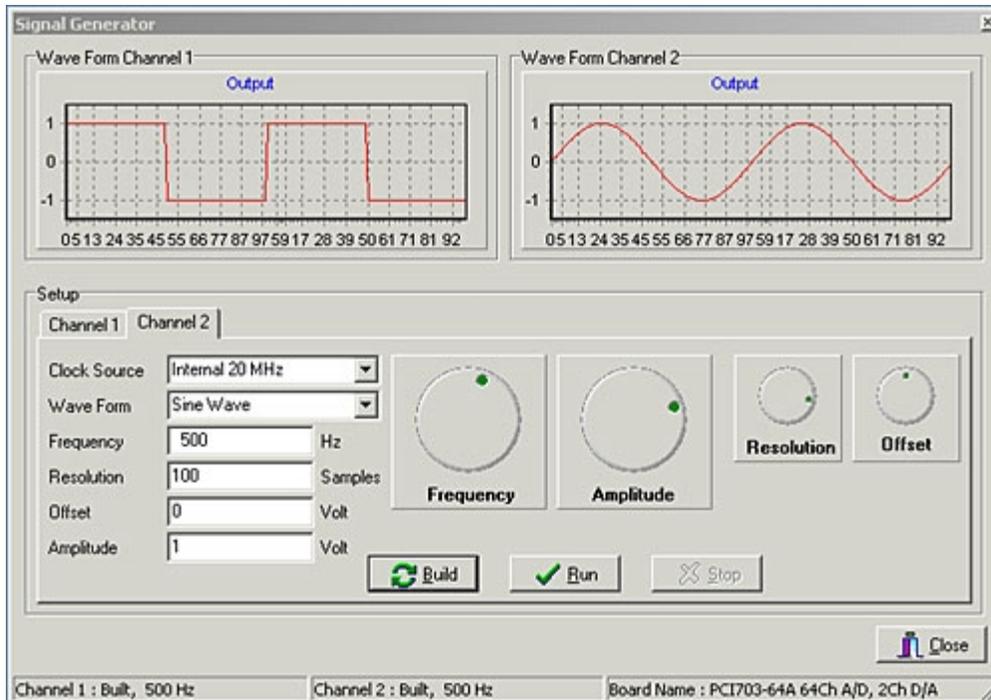
Data that has been saved to file can be *exported to an Excel* spreadsheet for use in reports or for future reference by again going to Tools=>Data to Excel.

## Power Supply



The power supply application can generate a voltage from +10 to -10 volts. Ten different values can be saved in memory by pushing the **STO** button and then a number from 0 to 9. The value that is saved in each memory position is shown at the bottom. These values can be used again just as easily. Push the **RCL** button and the position where the value is saved.

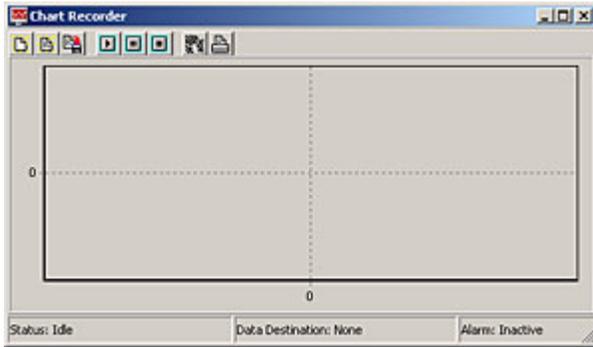
### *Signal Generator*



This application can generate three different signal patterns, a Square wave, Sine wave and a Saw tooth waveform. Both digital to analog channels can be configured individually.

All you have to do after setting up the configuration you want is push 'build' and then 'start'. To reconfigure, simply push 'stop', build it again and start it.

## *Chart Recorder*



The chart recorder was designed for sampling and saving data to disk over long periods of time. It can record data at a rate of a sample per second to as slow as a sample every 10 hour.

The chart recorder can record a wide range of data inputs, namely analog, digital, counters and even temperature.