



SPHEREx Test and Calibration Control and Archive Software: User Guide

Version: 1.0

Sam Condon scondon@caltech.edu
Marco Viero mviero@caltech.edu

1 Introduction and Setup

The SPHEREx Test and Calibration Control and Archive Software provides a set of graphical user interface based tools allowing a user to interface with the suite of spectral and focus calibration instrumentation to specify automated measurement runs or manually control instruments in a measurement setup. This document provides a practical guide on how to use this GUI toolset in the SPHEREx test and calibration lab.

Information here on how to get the software running on the b111 lab computer.

Once the executable has started running, you should see two windows appear that are similar to what is seen in figure 1. One window is titled the *Housekeeping Window* while the other is the *Control Window*. As can be readily inferred from these titles, the *Control Window* can be used to control lab instrumentation and set up automated measurement runs, while the *Housekeeping Window* displays live time-streams of continuously sampled data.

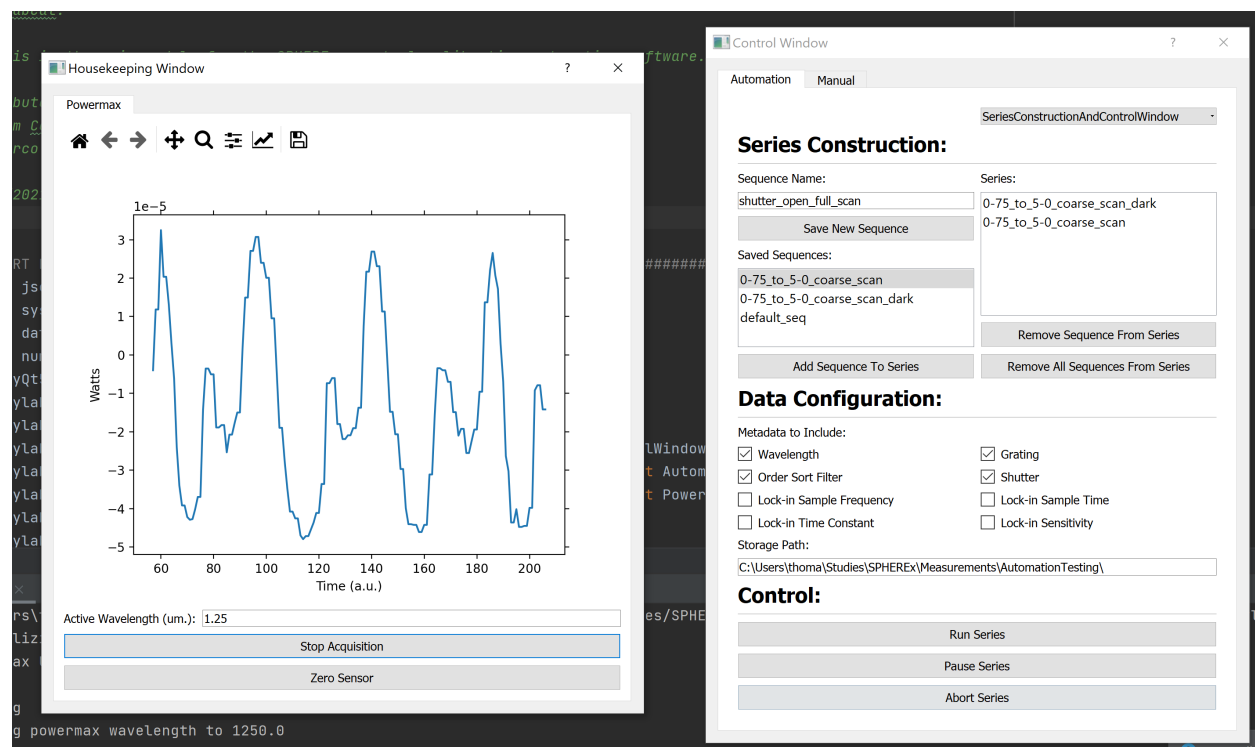
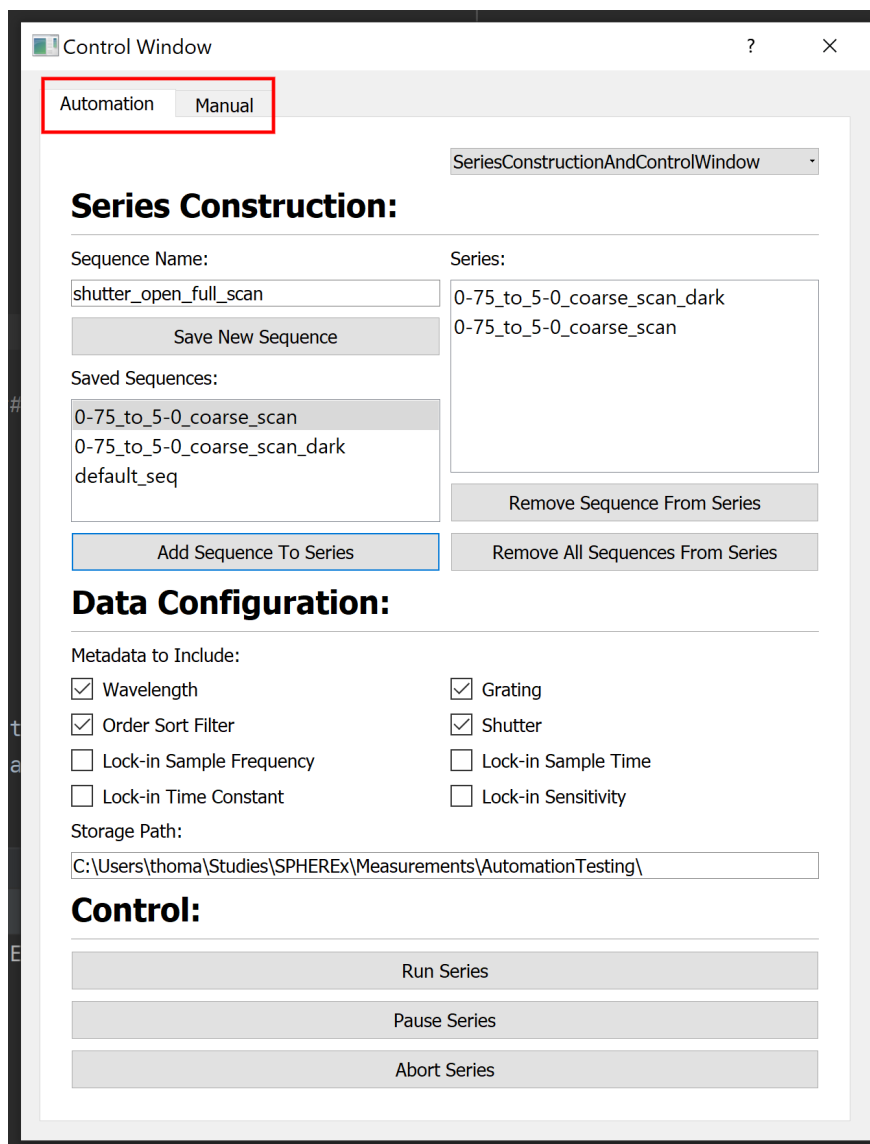


Figure 1: SPHEREx Test and Calibration Control and Archive GUI Main Windows: This figure shows the *Housekeeping* and *Control* windows which form the two main windows in version 1.0 of the control software. Upon starting up the software, these windows should pop up. However, the plot seen in the *Housekeeping Window* will be blank as only time-streams taken during the current session will be plotted.



2 Control Window

As mentioned above, the *Control Window* can be used to manually control instruments in a measurement setup or run entire automated measurement runs. Automation and manual control is divided into two tabs within the *Control Window*. The highlight shown in Figure 2 shows where these tabs can be selected.



2.1 Automation Tab

2.2 Manual Tab

3 Time Stream Displays

4 Instruments Supported