



Specifications

For Aurora Scientific Model: 650A

| Model # | 650A |
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| Software Specifications | |
| Operating System | Linux – RTAI, real-time |
| Companion Software | 602A, 802D, 820A, 900B, 901C, 950A |
| Data Channels Recorded | Length, Force, Sarcomere Length, Stimulation Timing, Auxiliary 1, Auxiliary 2 ¹ |
| Aurora Scientific Instruments Controlled | 300 series length controllers, 400 series force transducers, 700 series stimulators, 800 series apparatus, 900 series VSL and HVSL sarcomere length |
| Main Window | Elapsed Time, Time since Last Stimulus, Length and Force Readouts. Display: graph of test results as they are collected. Buttons for: Start Sequence, Start Test, Next Test, Stop Test and Zero Out. Dropdown menus: File, Edit, Calibrate, Setup, Protocol, Analysis, Scope, Burst and Help. |
| Protocol Functions | Length: Step, Ramp, Square, Sine, Sweep, Sample, Hold Force: Step, Ramp, Square, Sine, Sweep, Sample, Hold, Clamp Sarcomere Length: Step, Ramp, Sample, Hold, Trigger, Track Stimulation: Stimulus, Trigger 1, Trigger 2 Control: Sync Stimulus, Data Enable, Data Disable, Data Burst, Trigger FLA, Bath, Repeat, Stop |
| Stimulation Control | Automatic stimulation control – frequency (Hz. or BPM), pulse width, pulse duration |
| Sequencer | Allows protocols to be run in a pre-determined manner with control of time between each protocol |
| Scope Data Display | Real-time data output of chosen channels. Displays up to 4 hours of data – zoom function, time base control, pause function |
| Analysis | Load last data or saved data Display: Length, Force, Velocity, dF/dt, SL, Aux1, Aux2 Set Display Units: Length [μ m, mm, cm, Lo, Lf, volts], Force [mN, N, gm, kg, Fmax, Pa, kPa, volts], Time [ms, s] Plot Zoom Controls: enter start and end time or use cursor to click zoom Data Filter: Savitsky-Golay smoothing filter, length (1-16) |
| Export Analysis | Creates ASCII data files of the data presented on the Analysis window |

¹ Auxiliary Channels: can be configured to suit, common usages are: Experimental monitors: Temperature, pH, Fluorescence: Numerator, Denominator