



Specifications

For Aurora Scientific Model: 955A

Model #	955A
Hardware Specifications	
Light Sources Controlled	Horiba (Photon Technology International): DeltaRAM X Ion Optix: Hyperswitch ¹ Sutter: DG-4, DG-5 Vincent: Uniblitz shutter
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
Operating Modes	FURA-2 – dual excitation interpolated FURA-2 – dual excitation interleaved INDO – single excitation, dual emission FLUO – single excitation, single emission
Software Specifications	
Operating System	Linux – RTAI, real-time
Companion Software	600A, 602A, 802D, 820A, 900B, 901C
Shutter Control	Remote control of shutter
Stimulation Control	Manual or Automatic stimulation control – frequency (Hz. or BPM), pulse width, pulse duration
Data Channels Recorded	Numerator, Denominator, Ratio, Ca ²⁺ , Length, Force, SL, Stimulation Timing
Background Light Measurement	Simple, easy-to-use measurement of background light level
Scrolling Data Display	Real-time data output of chosen channels. Displays up to 4 hours of data – zoom function, time base control, pause function
Data Tags	Create data tags with mouse or F-key, create tags during data collection or after, place tags at chosen time
Twitch Analysis Displays	Time Series, Twitch Based, Data Records in table view, Tags in table view, Tags shown on Time Series and Twitch Based views
Twitch Analysis	Easily choose twitches of interest Twitch Analysis – calculates average twitch parameters, calculates twitch statistics: baseline, peak, peak ht, peak %, peak ht%, max dX/dt, min dX/dt, T dX/dt max, T dX/dt min, T peak, T 10% rise, T 50% rise, T 90% rise, dT 10-90%, T 90% fall, T 50% fall, T 10% fall, dT 90-10%
Export Analysis	Creates ASCII data files includes: time series, twitches, averages, statistics

¹ Requires 960A FluoroDAQ Data Acquisition Controller