



## Specifications

**For Aurora Scientific Model: 900B/901C**

Model #	900B	901C
<b>Software Specifications</b>		
Operating System	Linux	
Image Functions	Brightness, Contrast, Region of Interest (ROI), Offset, Zoom	
ROI Display	Width vs Height (readout in pixels or microns)	
Display Rotation	Rotate Display to Align Software Image with Microscope Image	
Camera ROI Function	Window camera for increased frame rates (see Frame Rate below)	
Calibration	Field of View (FOV) or Calibration Length	
SL Calculation Algorithm	Autocorrelation Function/Sine-Fit, Fast Fourier Transform/Curve Fit	
Tissue Length Calculation Algorithm	Image analysis measures distance between probes	
Scope Function	Real-time scrolling display of SL and Tissue Length	
Record Function	Stores SL, Tissue Length, Images or All to disk at current frame rate	
Playback Function	Playback stored image files, calculate SL, create AVI movies	
Analysis	Plots Sarcomere Length and Velocity vs Time	
<b>Camera Specifications</b>		
Type	CMOS	
Resolution [pixels]	752 x480 (reduced to 640 x 480)	640 x 480
Pixel Size [µm]	6.0 x 6.0	4.8 x 4.8
Optical Format [in]	1/3	1/4
Frame Rate [frames/sec]	(640x480): 100 (640x8): 1,000	(640x480): 400 (640x16): 8,000
Lens Mount	C-Mount (CS-Mount optional)	
Data Output Transfer	USB 2.0	Gigabit Ethernet (1000 Mbps)
Power Required	USB Connection	In: 100-240VAC, 50/60Hz. Out: 12VDC@4W (Included)
Power Consumption [W]	1.0	3.6
Weight [g]	41	46
Dimensions [mm]	44W x 25.6D x 48.6H	44W x 21.2D x 29H