

# ASET200Viewer Quick-Start Guide

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## *Technical Assistance*

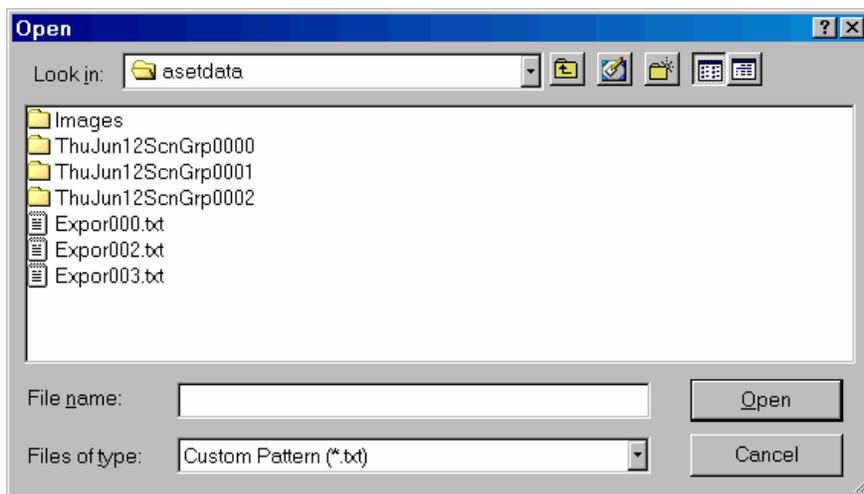
Look in ASET.HLP first - try searching using the Index and the Find tabs.  
If necessary, contact Eric Karplus by phone at 508/457-4556, fax at 508/457-4527, or  
email to [ekarplus@sciencewares.com](mailto:ekarplus@sciencewares.com).  
Software updates are available at <http://www.sciencewares.com/software.htm>.

## *Disclaimers*

Science Wares provides the ASET200Viewer software to the research community with the understanding that it is a commercial product in a continuous state of development. The program is designed to facilitate viewing of data acquired with the ASET Software developed by Science Wares. We welcome comments, suggestions and requests for new features at any time.

### Loading Data

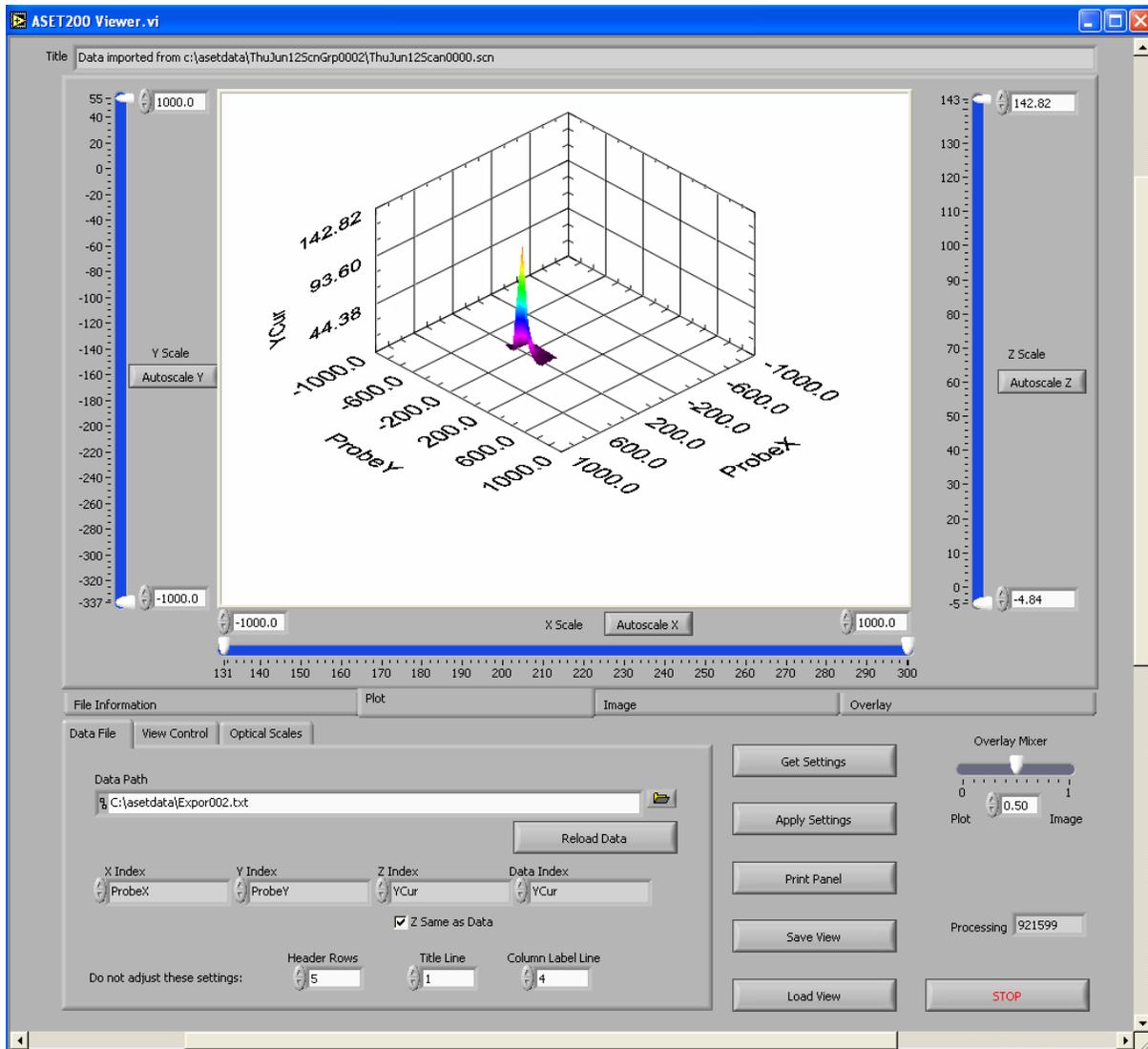
When ASET200 Viewer starts, you will be asked to open a data file:



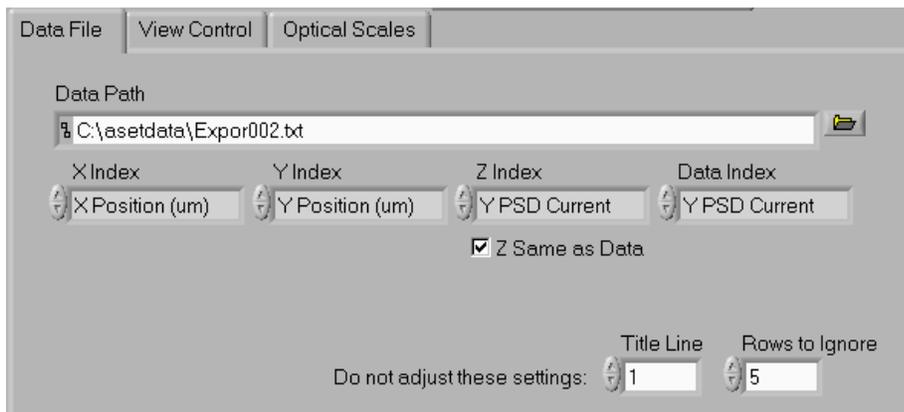
The file should be a text file exported from ASET v2.00 for Windows 98/Me/NT/XP. The assumed format of the text file is tab delimited with 5 rows of header information followed by rows of data in the following format:

SecondsFrom	ProbeX	ProbeY	ProbeZ	ProbeW	XCur	YCur	Length	Angle
416.437000	131.1	54.6	-40.0	0.0	-4.033961	-0.241520	4.041184	183.426305
417.109000	150.0	54.6	-40.0	0.0	-4.646395	-0.464852	4.669590	185.713186
417.765000	168.6	54.6	-40.0	0.0	-4.695615	0.861785	4.774041	169.600251
418.765000	187.5	54.6	-40.0	0.0	-5.072844	0.915102	5.154722	169.774254
419.828000	206.3	54.6	-40.0	0.0	-6.473881	-0.428288	6.488033	183.784960
420.890000	225.2	54.6	-40.0	0.0	-7.150237	0.221845	7.153678	178.222899
421.875000	243.8	54.6	-40.0	0.0	-6.915889	-0.548727	6.937623	184.536511
422.562000	262.7	54.6	-40.0	0.0	-8.226369	-0.461082	8.239280	183.208032
423.234000	281.5	54.6	-40.0	0.0	-8.736301	-1.114962	8.807162	187.273006
423.843000	300.2	54.6	-40.0	0.0	-8.455896	0.389727	8.464872	177.361138
424.781000	300.2	11.4	-40.0	0.0	-13.126297	-0.312360	13.130013	181.363186
425.812000	281.7	11.4	-40.0	0.0	-13.494119	0.201398	13.495622	179.144927
426.875000	262.9	11.4	-40.0	0.0	-11.795061	1.216056	11.857582	174.113670
427.875000	244.0	11.4	-40.0	0.0	-12.175592	-0.438284	12.183478	182.061584
428.937000	225.4	11.4	-40.0	0.0	-9.665947	-0.896899	9.707469	185.301272
429.812000	206.5	11.4	-40.0	0.0	-8.632258	1.694763	8.797050	168.892448
430.625000	187.7	11.4	-40.0	0.0	-8.024725	-1.159121	8.108007	188.219167
431.687000	168.8	11.4	-40.0	0.0	-6.845088	-0.073170	6.845479	180.612439
432.328000	150.2	11.4	-40.0	0.0	-6.044394	-0.516916	6.066458	184.888039
432.968000	131.3	11.4	-40.0	0.0	-4.921025	-1.305469	5.091241	194.857433
433.578000	131.3	-32.3	-40.0	0.0	-5.468835	0.812353	5.528840	171.550929
434.203000	150.0	-32.3	-40.0	0.0	-6.889500	0.553097	6.911666	175.410071
434.796000	168.6	-32.3	-40.0	0.0	-8.813998	-0.357261	8.821235	182.321121
435.390000	187.5	-32.3	-40.0	0.0	-10.932141	-0.151176	10.933187	180.792271
436.046000	206.3	-32.3	-40.0	0.0	-12.295062	0.753769	12.318146	176.491778
436.640000	225.2	-32.3	-40.0	0.0	-15.818773	0.876308	15.843027	176.829240
437.703000	243.8	-32.3	-40.0	0.0	-17.147430	2.201128	17.288127	172.685233
438.765000	262.7	-32.3	-40.0	0.0	-19.605418	3.572406	19.928234	169.673131
439.531000	281.5	-32.3	-40.0	0.0	-21.589383	3.208337	21.826472	171.547296
440.250000	300.2	-32.3	-40.0	0.0	-22.203986	3.732617	22.515538	170.457471

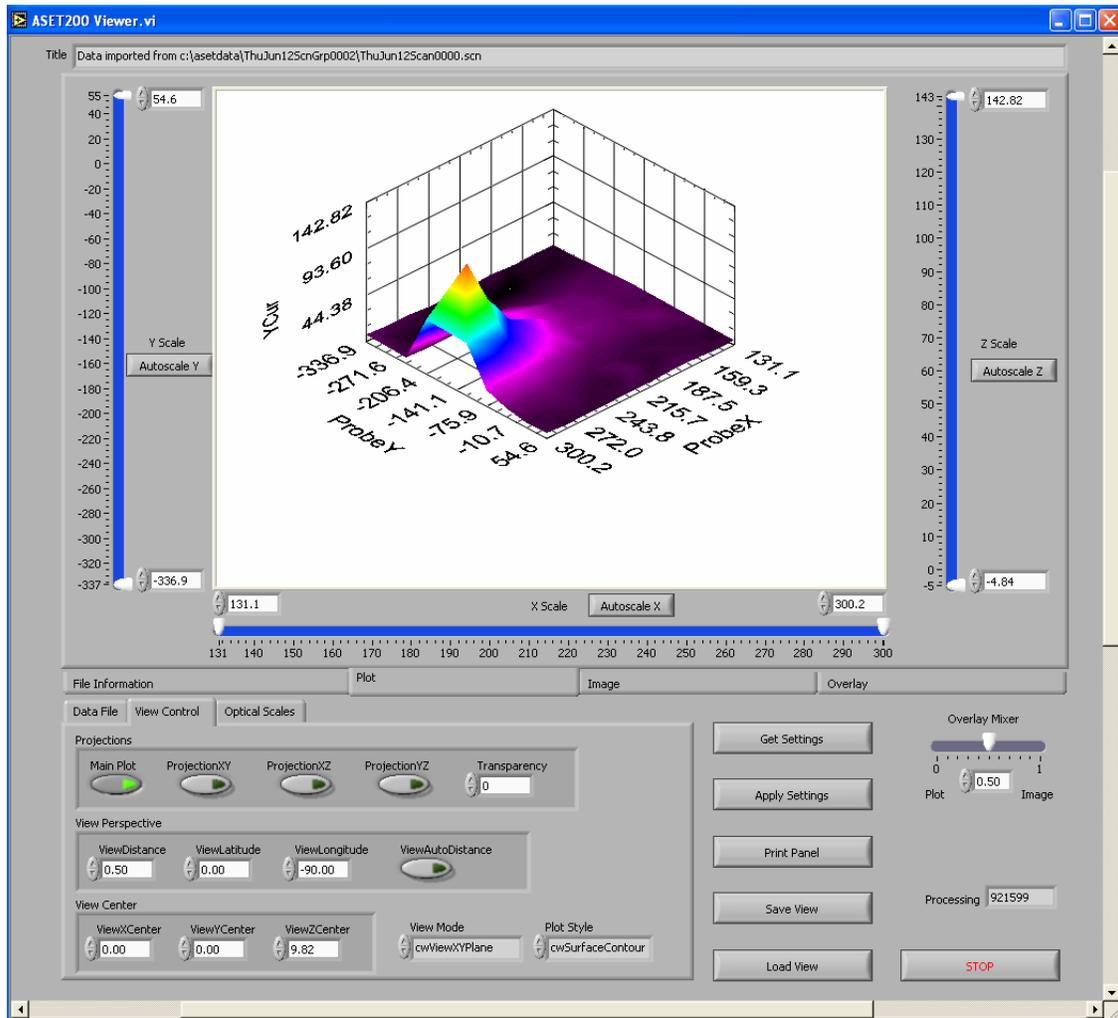
After you select the filename and click Open, you will see a display window as follows:



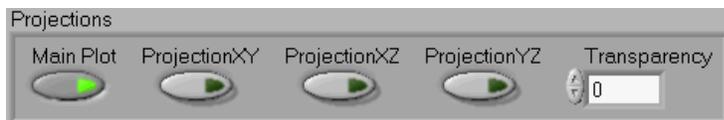
You can open a different file at any time by clicking on the **Data File** tab and then clicking on the folder icon  next to the Data Path field. This will return you to the File Open dialog described above.



Click on the **View Control** tab in the control at the lower left, and click on the **Autoscale X**, **Autoscale Y**, and **Autoscale Z** buttons in the **Plot** tab window, and you will see a display similar to the following:

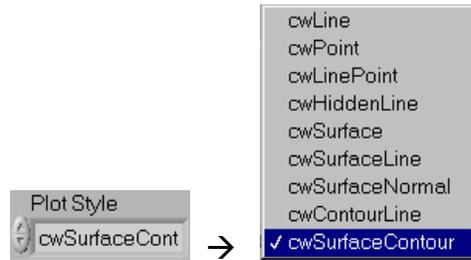


Try turning the various projections on and off and adjusting the main plot transparency with the following controls on the **View Control** tab:



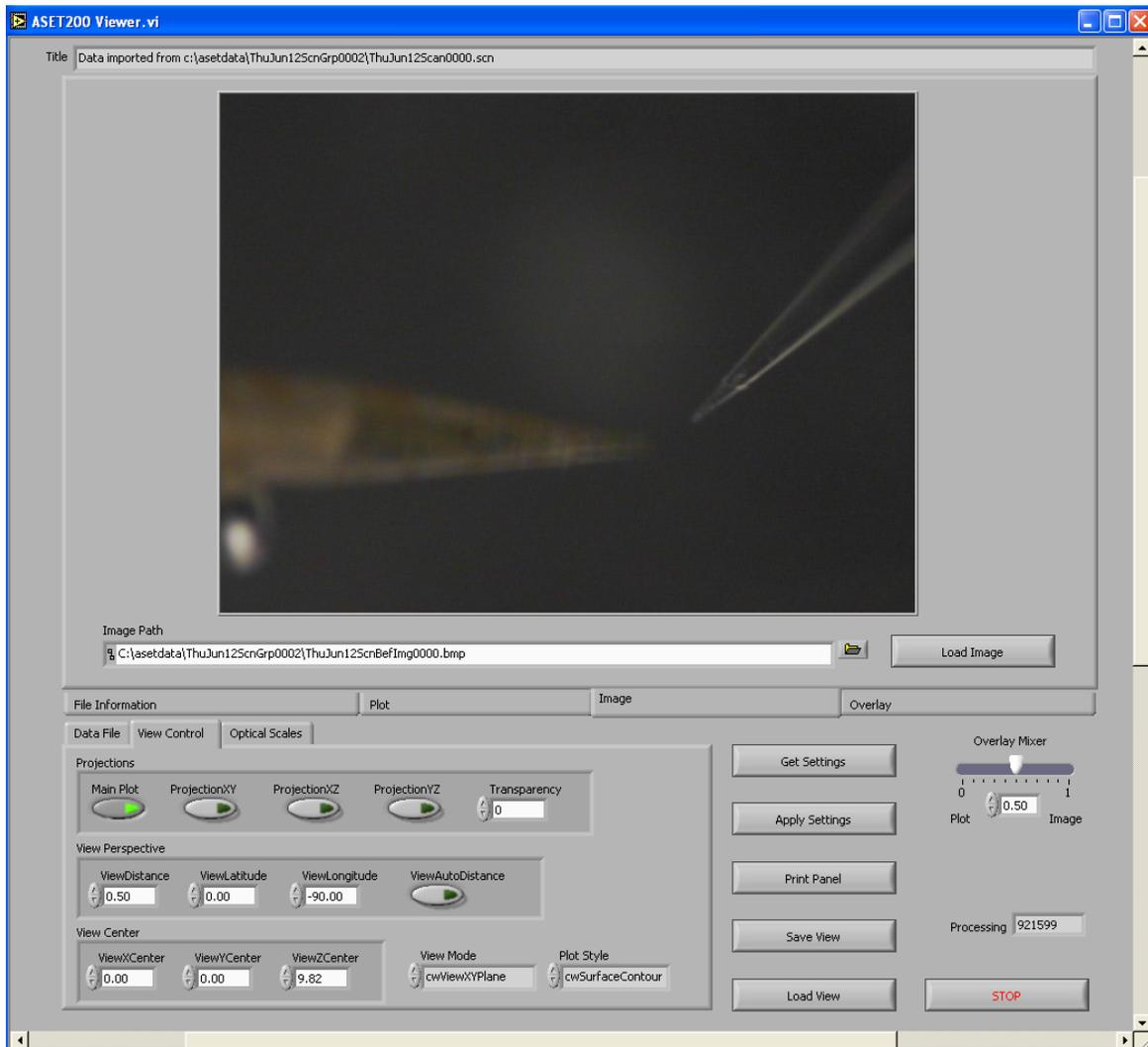
You can put the cursor over the graph control and click and drag to spin the plot and examine it from different perspectives. If you do not click the **Get Settings** button after adjusting the view in this way, then the view may revert to the previously defined perspective if you make adjustments to other controls in the program.

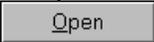
Also try changing the Plot Style with the following control:



### Loading Images

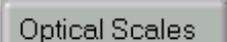
Click on the  tab in the main program control and you will see a display similar to the following:

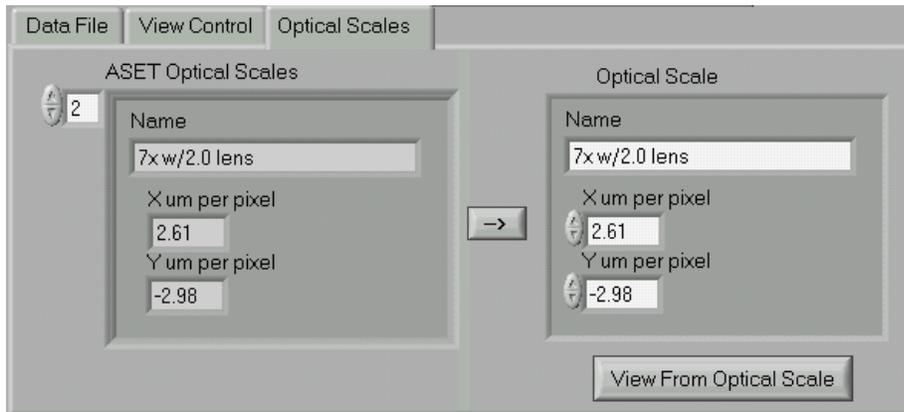


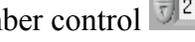
Click on the folder icon  next to the Image Path field. This will bring up a File Open dialog that you can use to browse until you find the image you want to load. After you click  the image file should load. If you are uncertain about whether the file has loaded, you can click the  button. The standard configuration of the program expects a 24-bit color image that is 640x480 pixels. If you are using a different image file format, please contact Science Wares for assistance.

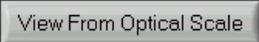
### Overlay Display

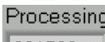
The overlay display requires that the program be informed about the Optical Scale used to acquire the image that was loaded using the procedure described above.

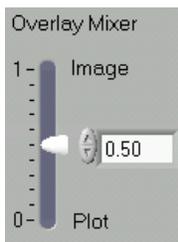
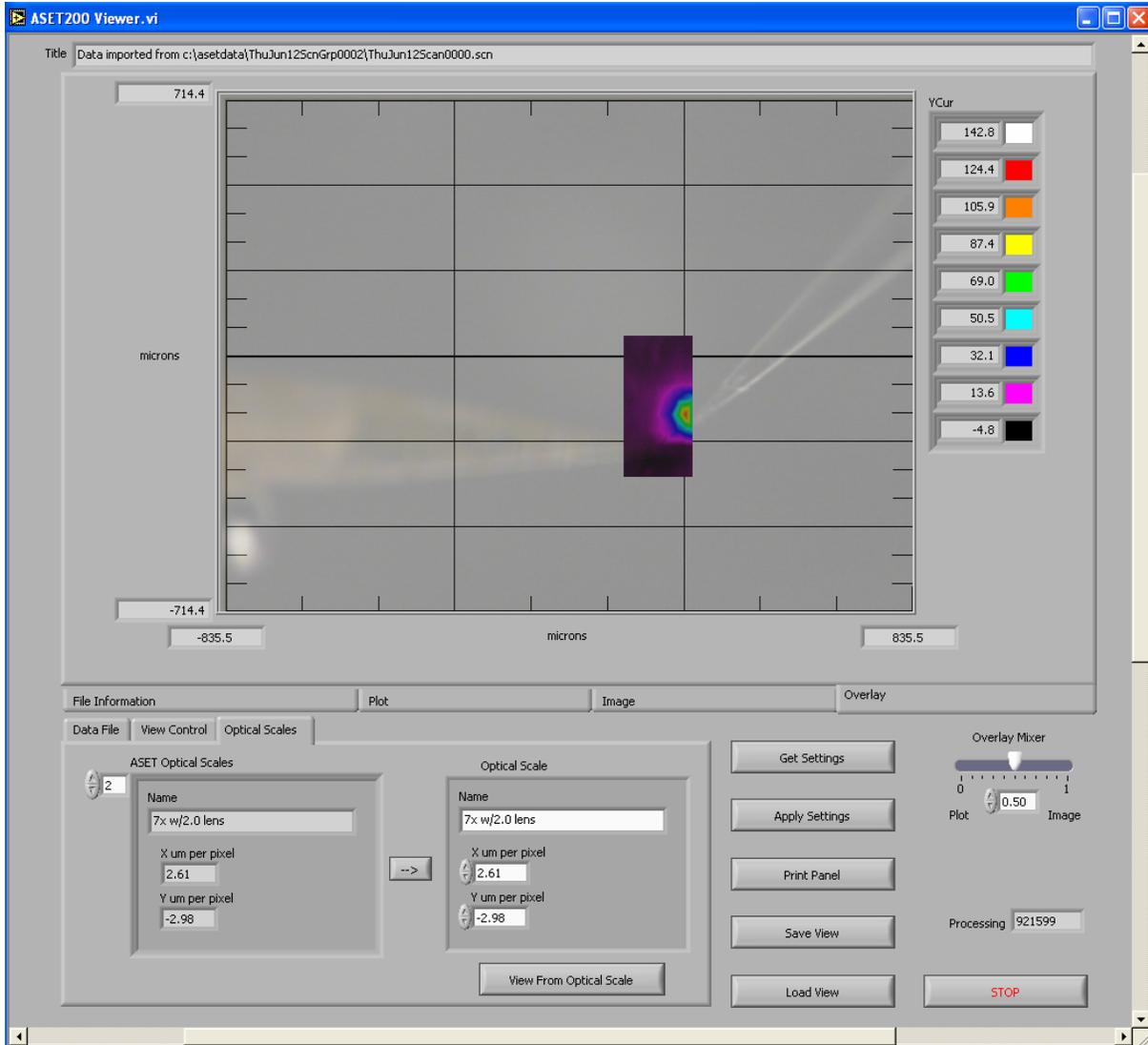
Click on the  tab in the control at the lower left of the program window, and the following controls will appear:

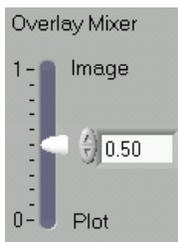


The  array is loaded from the presently stored C:\Windows\Aset.ini file. Use the number control  at the upper left of the  array to locate the correct optical scale for the image you have loaded, and click the  button to load it into the overlay  register. If you need to use an optical scale that is not presently stored in the Aset.ini file, please contact Science Wares for assistance.

Click the  button to adjust the scale and perspective of the plot to match the scale and perspective of the image. It is assumed that the image is acquired from the XY position coordinate plane. If your images are acquired from a different plane, please contact Science Wares for assistance.

Click on the  tab in the main program window control, and then click on the  button. The  control will enumerate through all the pixels in the image and produce an overlay display, which should look similar to the following:



You can use the  control to adjust the ratio of Image to Plot in the Overlay.

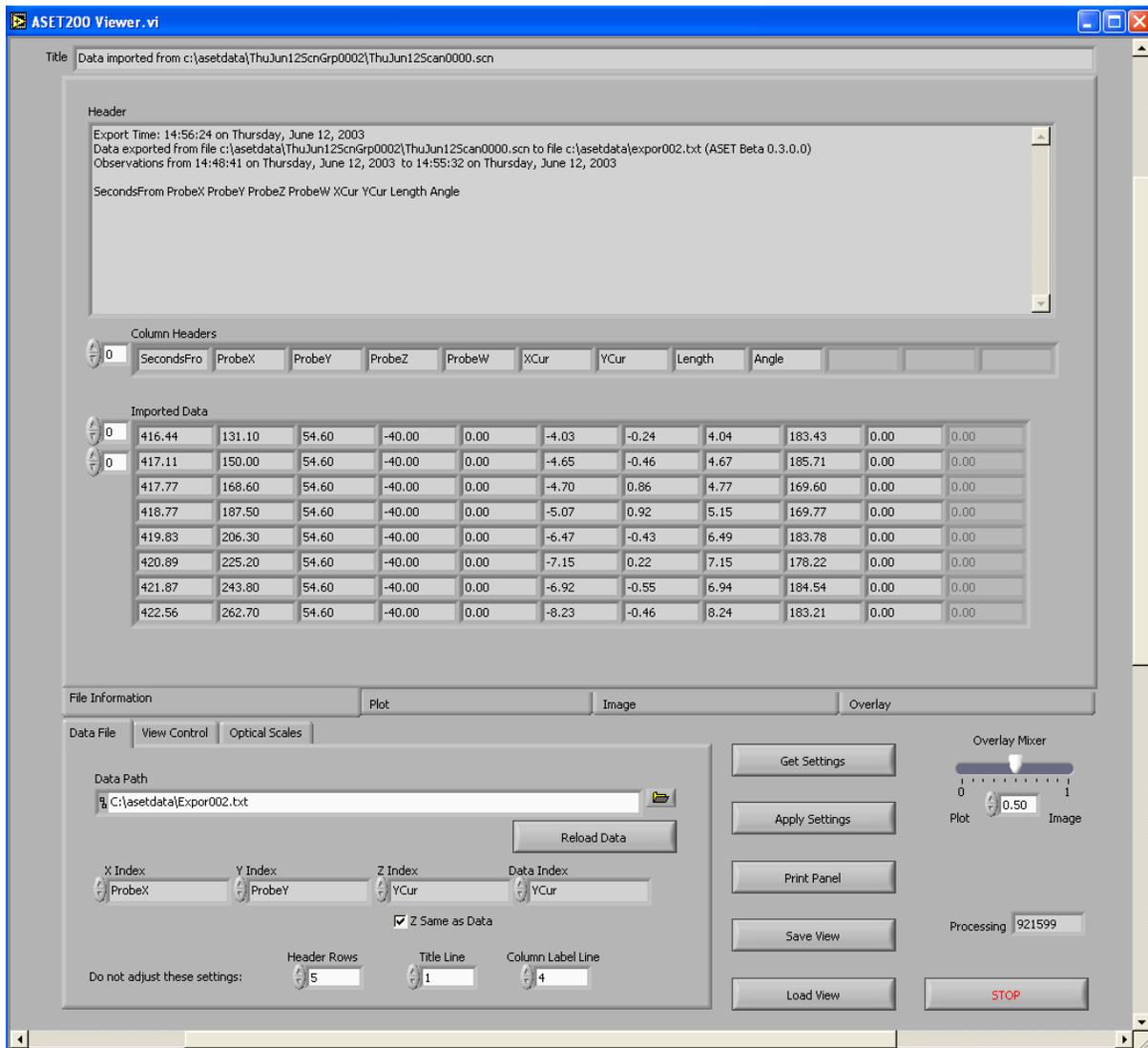
### ***Printing and Copying to Clipboard***

You can print the program window at any time by clicking the  button. If you want to paste an image into another application such as Microsoft Word or PowerPoint, the best method presently available is to copy the entire screen to the Window Clipboard using the Shift-Print Screen key on the keyboard. You can then paste this image into an image editing program

such as Microsoft Paint (standard with Windows, see Start>>All Programs>>Accessories) and select just the region from the screen that you are interested in, and then copy this selection to the clipboard and paste it into your destination application.

### Viewing File Contents

To view the data loaded from the source file, click on the **File Information** tab in the main program window. The display should look similar to the following:



The **Header** is displayed in a text window, and the **Imported Data** is displayed in an array control below it. You can adjust the **Imported Data** index control  to browse through the entire contents of the file.

### ***Storing and Loading Views***

You can save and load the settings used by the ASET200 Viewer to display data. Note that this operation does not actually save a copy of the data, but rather stores the settings used to create the ASET Viewer display. In order for the display to be recreated properly, the data and image files referenced by the ASET200 Viewer must be located in the same folders that they were located in when the settings were stored.

To store the view settings, click on the  button and enter a file name.

To load previously stored view settings, click on the  button and located the file you want to use.