# **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 <u>ekarplus@sciencewares.com</u>.

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:

Open				? ×
Look <u>i</u> n: 🔂	asetdata	•	1 🗹 🖻	
ThuJun12Sc ThuJun12Sc ThuJun12Sc ThuJun12Sc Expor000.txt Expor002.txt Expor003.txt Expor003.txt	mGrp0000 mGrp0001 mGrp0002			
File <u>n</u> ame:				<u>O</u> pen
Files of type:	Custom Pattern (*.txt)		•	Cancel

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 in next to the Data Path field. This will return you to the File Open dialog described above.

Data File	View Control	Optical Scales		
Data Pa	ath			
ፄ C:\as	etdata\Expor	002.txt		
×Inde €XPos	ex sition (um)	Y Index Y Position (um)	Z Index	Data Index
			🗹 Z Same as Da	ta
		Do not adju	ust these settings: 🖞	Title Line Rows to Ignore

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 mail plot transparency with the following controls on the View Control tab:

Projections				
Main Plot	ProjectionXY	ProjectionXZ	ProjectionYZ	Transparency

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



Click on the folder icon in 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

<u>Open</u> the image file should load. If you are uncertain about whether the file has loaded,

you can click the Load Image 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 Optical Scales tab in the control at the lower left of the program window, and the following controls will appear:

Data File View Control Optical Scales	
ASET Optical Scales	Optical Scale
2 Name 7x w/2.0 lens X um per pixel 2.61 Y um per pixel -2.98	→ Name 7x w/2.0 lens X um per pixel 2.61 Y um per pixel -2.98 View From Optical Scale

The ASET Optical Scales array is loaded from the presently stored C:\Windows\Aset.ini file. Use the number control 2 at the upper left of the ASET Optical Scales array to locate the correct optical scale for the image you have loaded, and click the  $\rightarrow$  button to load it into the overlay Optical Scale 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 View From Optical Scale 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 Apply Settings button. The rocessing control will enumerate through all the pixels in the image and produce an overlay display, which should look similar to the following:



#### Printing and Copying to Clipboard

You can print the program window at any time by clicking the Print Panel 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 in the main program window. The display should look similar to the following:

Data imp	orted from c:\as	etdata\ThuJ	lun12ScnGrp0C	102\ThuJun1250	an0000.scn						
Header	r										
Expor	t Time: 14:56:24	on Thursda	v. June 12, 20	03							
Data (	exported from fil	e c:\asetdat	a\ThuJun12Sc jursday_June	nGrp0002\ThuJ 12 2003 to 14	un125can0000 -55-32 on Thu	).scn to file c:\a sday_June 12	setdata\export 2003	002.txt (ASET I	Beta 0.3.0.0)		
Gaser	deEven Duckey (	Duckey Duck	-7 DeskeW VC		Apple	5667, 5610 12,	2000				
Secon	IUSPTOIN PRODEX 1	Prober Prob	ez Probew XC	ur rear cengan	Angle						
	Column Header										<u> </u>
$\left(\frac{h}{\tau}\right)$ 0	SecondsEro	ProbeX	ProbeV	Probe7	ProbeW	XCur	VCur	Length	Angle		
9	Becondsirio	JITOBEN	Trober	JITOBOL	Inoberr	Incu	i cui	Jeongen			
	Imported Data										
$\left(\frac{h}{\tau}\right) 0$	416.44	131.10	54,60	-40,00	0,00	-4.03	-0,24	4.04	183,43	0.00	0.00
	417.11	150.00	54.60	-40.00	0.00	-4.65	-0,46	4.67	185.71	0.00	0.00
<u> </u>	417.77	168.60	54.60	-40.00	0.00	-4.70	0.86	4.77	169.60	0.00	0.00
	418.77	187.50	54.60	-40.00	0.00	-5.07	0.92	5.15	169.77	0.00	0.00
	419.83	206.30	54.60	-40.00	0.00	-6.47	-0.43	6.49	183.78	0.00	0.00
	420.89	225.20	54.60	-40.00	0.00	-7.15	0.22	7.15	178.22	0.00	0.00
	421.87	243.80	54.60	-40.00	0.00	-6.92	-0.55	6.94	184.54	0.00	0.00
	422.56	262.70	54.60	-40.00	0.00	-8.23	-0.46	8.24	183.21	0.00	0.00
	/										
File Inform	nation						1.			0.1	
	1	1		Piot			Image			Ovenay	
Data File	View Control	Optical S	icales								Overlay Mixer
Data I	Path								Get Setting:	-	
3 ⊂:1	\asetdata\Export	002.txt									0
							1	a   L	Apply Setting	js	Plot Ima
						Relo	ad Data	4 1 1			
X In	ndex	Y Index	<	Z Index		Data Index			Print Panel		
ज्जी Pro	obeX	Prob	eΥ	9 YCur		YCur		-			
				🔽 Z Sa	ame as Data				Save View		Processing 921599
			Header Row	/s Til	tle Line	Column Label Li	ne		Jave view		
Do not	adjust these se	ttings:	÷)5	$\left(\frac{\lambda}{\tau}\right)$ 1		√ √ 4	1				
									Land Gaus		STOR

The Header is displayed in a text window, and the Imported Data is displayed in an array control

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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 save View button and enter a file name.

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