

SIGNAL EXPLORER MANUAL Engineering Data Management Software

© Crystal Instruments Corporation

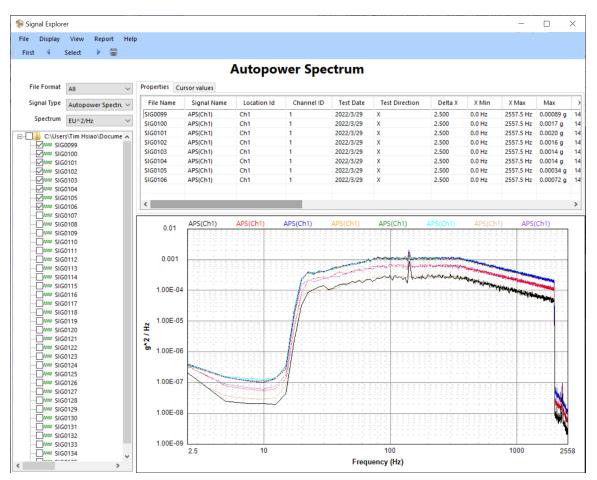


Signal Explorer

Introduction

Signal Explorer allows users to easily compare signals from the same channel in different files. This software is a small .exe file included with EDM installation media and is available for download on the Crystal Instruments support site. No installation is needed. Just run it and load the folder containing your data files.

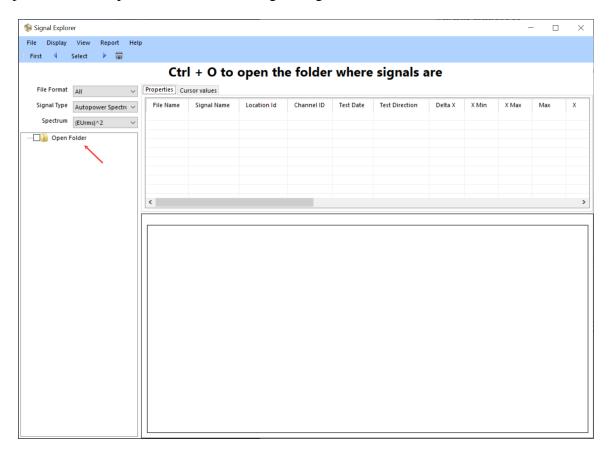






Instructions

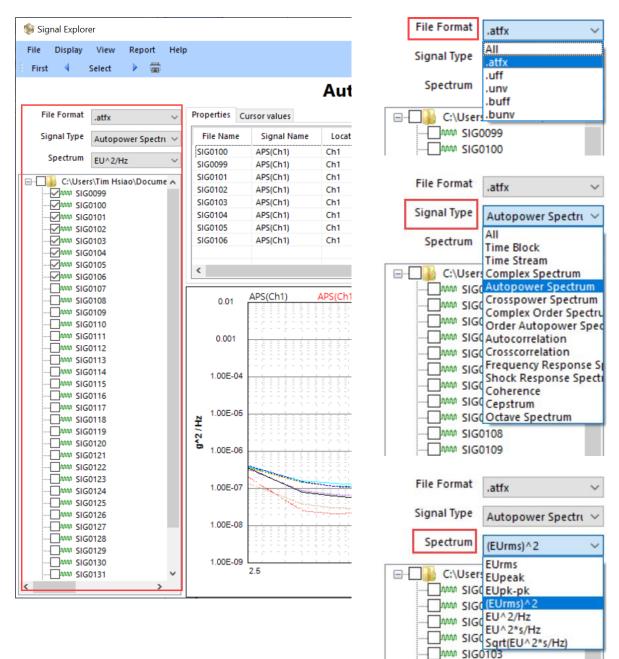
When the Signal Explorer starts, no signals are loaded. Press the "Ctrl + O" keys or click on "Open Folder" to open the folder containing the signals.





All the compatible data files in the selected folder are listed on the left. Only files of a specified format are listed when the **file format** is specified. Select a **signal type** to list data files containing the selected signal types. The **Spectrum** specifies the Y-axis format of the signal display on the right.

Select files on the list with a check mark and corresponding signals are displayed on the right. Up to 8 files can be selected.



MM SIG0104



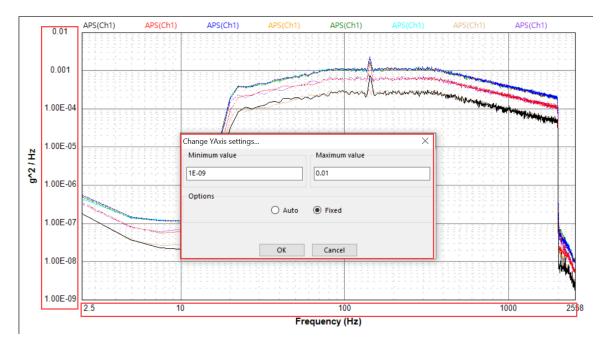
Two tabs are located at the top of the signal display: Properties and Cursor values. The Properties tab displays the properties of each signal in the bottom window. The Cursor value tab displays cursor values when users hover the mouse over the display window.

File Display	View Report H	elp										
First 4	Select 🕨 🖶											
				A		4						
				Autopo	wer Sp	ectrum						
File Format	.atfx 🔻	Properties Cu	ursor values									
Signal Type	Autopower Spectru	File Name	Signal Name	Location Id	Channel ID	Test Date	Test Direction	Delta X	X Min	X Max	Max	x
Signal type	Autopower Spectri	SIG0100	APS(Ch1)	Ch1	1	2022/3/29	x	2.500	0.0 Hz	2557.5 Hz	0.0017 g	142
Spectrum	EU^2/Hz >>	SIG0099	APS(Ch1)	Ch1	1	2022/3/29	x	2.500	0.0 Hz	2557.5 Hz	0.00089 g	142
		CICO404	APS(Ch1)	Ch1	1	2022/3/29	x	2.500	0.0 Hz	2557.5 Hz	0.0020 g	142
	s\Tim Hsiao\Docume 🔺	SIG0102	APS(Ch1)	Ch1	1	2022/3/29	x	2.500	0.0 Hz	2557.5 Hz	0.0016 g	142
		SIG0102	APS(Ch1)	Ch1	1	2022/3/29	x	2.500	0.0 Hz	2557.5 Hz	0.0014 g	140
		SIG0104	APS(Ch1)	Ch1	1	2022/3/29	x	2.500	0.0 Hz	2557.5 Hz	0.0014 g	140
		SIG0105	APS(Ch1)	Ch1	1	2022/3/29	x	2.500	0.0 Hz	2557.5 Hz	0.00034 g	140
		SIG0106	APS(Ch1)	Ch1	1	2022/3/29	X	2.500	0.0 Hz	2557.5 Hz	0.00072 g	140
		5100100	Ars(cm)	citi		LOLL/J/LJ	~	2.500	0.0112	233713112	0.00072 g	140
		<										
	0108	0.01	APS(Ch1)	APS(Ch1)	APS(Ch1)	APS(Ch1)	APS(Ch1)	APS(Ch1)	APS	(Ch1)	APS(Ch1)	
SIG	0109									0.00000000		388
SIGC	0110			1222222222			12 0 <u>0 0 0 0 0 0 0</u> 0 0			2225311		0.00
	0111	0.001					A			836674		22
	0111 0112	0.001							and the same			
	0111 0112 0113	0.001			æ				and an			
	0111 0112 0113 0114	0.001 1.00E-04			Æ			n an	and a start of the			
	0111 0112 0113 0114 0115				Æ				and a subject of the			
	0111 0112 0113 0114 0115 0116				F				and an and a second			
	0111 0112 0113 0114 0115 0116 0117	1.00E-04			F							
	0111 0112 0113 0114 0115 0116 0116 0117 0118	1.00E-04			F				and an an an I have a second and an and an and an			
	0111 0112 0113 0114 0115 0116 0117 0118 0118 0119	1.00E-04			f							
	0111 0112 0113 0114 0115 0115 0116 0117 0118 0119 0120	1.00E-04			f							
	0111 0112 0113 0114 0115 0116 0117 0118 0119 0119 0120 0121	1.00E-04 1.00E-05 1.00E-05			F							
	0111 0112 0113 0114 0115 0116 0117 0118 0119 0120 0121 0122	1.00E-04 1.00E-05 1.00E-06			ſ							
	0111 0112 0113 0114 0115 0116 0117 0118 0119 0120 0121 0122 0123	1.00E-04 1.00E-05 1.00E-05			ſ							
	0111 0112 0113 0113 0114 0115 0116 0117 0118 0119 0120 0121 0121 0122 0123 0124	1.00E-04 1.00E-05 1.00E-06			ſ							
	0111 0112 0113 0114 0115 0116 0117 0118 0119 0120 0121 0122 0123 0124 0125	1.00E-04 74 74 70 1.00E-05 1.00E-06 1.00E-07			F							
	0111 0112 0113 0114 0115 0116 0117 0118 0120 0120 0121 0122 0123 0124 0125 0126	1.00E-04 1.00E-05 1.00E-06			f							
	0111 0112 0113 0114 0115 0116 0117 0118 0119 0120 0121 0122 0123 0124 0125 0124 0125 0126 0127	1.00E-04 74 74 70 1.00E-05 1.00E-06 1.00E-07			f							
	0111 0112 0113 0113 0114 0115 0116 0117 0116 0117 0118 0119 0120 0121 0122 0123 0124 0125 0124 0125 0126 0127 0128 0129	1.00E-04 74 75 1.00E-05 1.00E-06 1.00E-07 1.00E-08										
	0111 0112 0113 0114 0115 0116 0117 0118 0119 0120 0121 0122 0123 0124 0125 0124 0125 0126 0127 0128 0127 0128 0129 0130	1.00E-04 H 1.00E-05 1.00E-06 1.00E-07 1.00E-08 1.00E-08	25									25

鲸 Signal Explorer				- 🗆 X
<u>F</u> ile <u>D</u> isplay <u>V</u> iew <u>R</u> eport <u>H</u> elp				
First 🖣 Select 🕨 👼				
_		А	utopower	Spectrum
File Format .atfx ~	Properties Cursor va	lues	•	•
Signal Type Autopower Spectru V	Curve Type	Signal Na	Cursor Value (g)	Cursor X (Hz)
		APS(Ch1)	0.00019	50.000
Spectrum EU^2/Hz ~		APS(Ch1)	0.00041	50.000
C:\Users\Tim Hsiao\Docume		APS(Ch1)	0.00073	50.000
		APS(Ch1)	0.00071	50.000
		APS(Ch1)	0.00067	50.000
		APS(Ch1)	0.00067	50.000
		APS(Ch1)	0.00016	50.000
		APS(Ch1)	0.00038	50.000
	ADS (((ch1)(50.0 ADS(ch1	1)[50.0 APS(Ch1)[50.0 APS(Ch1)[50.0 APS(Ch1)[50.0 APS(Ch1)[50.0 APS(Ch1)[50.0
	0.01 APS(JIII)[JU.U AFS	S(CIT)[50.0 AF3(CIT	100.0 AF3(cm)[50.0 AF3(cm)[50.0 AF3(cm)[50.0 AF3(cm)[50.0
	1999			
			5-5	
	0.001	1111111		and a start of the
	1 2 6 2		2228222222222	and the second s
	1.00E-04		in na h-airte a 🗗	and the second sec



Drag and drop to zoom into a selected area on the signal display. Double-click on the Y-axis or the X-axis to specify the display range or allow the software to adjust.



🇊 Signal Explorer

	<u>F</u> ile	<u>D</u> isplay	<u>V</u> iew	<u>R</u> eport	<u>H</u> elp	
1111	First	4	Select	▶ 🛱]	

Select a channel for	a signal				\times
Signal Na	ame	Loc	ation ID	Channel ID	
APS(Ch1)		Ch1	~	1]
APS(Ch1)		Ch1	~	1]
APS(Ch1)		Ch1	~	1]
APS(Ch1)		Ch1	~	1]
APS(Ch1)		Ch1	~	1]
APS(Ch1)		Ch1	~	1]
APS(Ch1)		Ch1	~	1]
APS(Ch1)		Ch1	~	1]
Show toleran	ce signals				
	ОК		Cancel		

The toolbar has 5 buttons:

First: display Channel 1 signal for selected file

Previous channel: display signal for channel ID decreases by 1 for selected file

Select: specify the Location ID or the Channel ID of the signal for selected file to be displayed

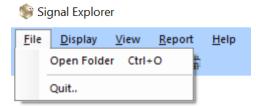
Next channel: display signal for channel ID increases by 1 for selected file

Show tolerance signals: display tolerance signals in the file, such as high abort, high alarm, low alarm, low abort.



File Menu:

Open Folder: open the folder where signals are. **Quit**: close Signal Explorer



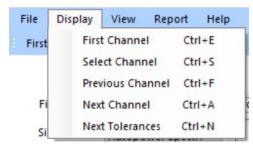
Display Menu:

First Channel: display Channel 1 signal for selected file.

Select Channel: specify the Location ID or the Channel ID of the signal for selected file to be displayed

Previous Channel: display signal for channel ID decreases by 1 for selected file **Next Channel**: display signal for channel ID increases by 1 for selected file **Next Tolerances**: when "**Show tolerance signals**" is enabled, **Next Tolerances** toggles tolerance signals among selected files.

Signal Explorer



View Menu: display/hide the Toolbar



Report Menu:

Quick Report: generate a report to include signal properties of all selected files **Send to printer**: send a screenshot of the Signal Explorer software to your printer



🎲 Signal Explorer

File Disp	lay View	Report Help					
First 🛛 🖣	Select	Quick Report Ctrl+R					
		Send to printer Ctrl+P					
Report setting			×				
A report including all signals A report for each signal							
🗹 Open the rep	ort after it is gene	rated					
Report Location:	C:\Users\Tim	Hsiao\OneDrive - Crystal Instruments\					
		Report Cancel					

Help Menu: displays Signal Explorer information

뗽 Sigi	nal Explo	rer						
File First	Display	View Select	Rep	ort	Help	About Signa	l Explorer	
								Αι
	e Format	.atfx	Abo	ut Sig	inal Exp	Properties ! olorer	Curror values	×
	inal Type pectrum	Autopo				Signal Expl	orer Version 10.0.0	.0 .7
	C:\Use	rs\Tim Hs		Ţ			22 Crystal Instrume	1
		50101				All ri	ghts reserved.	11
					-	5160106	APS(Ch3)	Ch3