Crystal Instruments Help - https://help.go-ci.com/

CoCo-DSA (Digital Signal Analyzer)

Selecting a Test

- Select CSA Application from the home screen.
 - CRYSTAL Dynamic Signal Analyzer ... 15:51 U R CSA Application Testing Log Memory **?**1 4 Date/Time Connections Power Report Audio GPS ſ CAN Bus System Calibration Logout About F1 F2 F3 F4 F5 F6
- Select which type of test you wish to run. For this example we will choose Frequency Response.



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	Remote Display	-	×
	Сосо-вох		
	COCO-BOX		
	Sound Power Clear History My CSA View All Cancel OK		
2	F1 F2 F3 F4 F5 F6		

• Select the test that you wish to run. On this screen you can see important parameters like *Channels Enabled, Max Sampling Rate,* and a description of the test.





• This will then pull up the test window

Creating Windows

• To create a new window, first select the **Traces** button or **F1**.

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	COCO-80X		
	FRF Fa:9 #6.37K 로 ⊡ — H(dh2.dh1)	16:05	CRYSTAL
	0.00 dB (V)/(V)	,	
	-10.0		2
	-20.0		
	-30.0		
	-40.0		
	0.00 2000.00/div 8000 Degree		ا ه ه
	150.0		
	50.0 0.00	educer -	
	-50.0	6	Entor
	-100.0		37
	a de la constante de	Hz	
	0.00 2000.00/div 8000 Traces Param. Control Auto Cursor H	loo	
-	Traces Param. Condor Adio Cursor P	oid	
	F1 F2 F3 F4 F5 F	6	

• This will open a menu of all your previously created window. Select **Trace and Windows Settings**.

• Select **Windows** or **F1**. A list of possible windows to create will appear. In this scenario we will choose **Add a Window with one Trace**.

🛃 Rem	ote Display	_		×
	COCO-80X			
	Change Signals in Trace .		CRYSTAL	
[vea	Bode (CPS(ch2,ch1), Bode (H(ch2,ch1),H(c) H(ch2,ch1) Frequency Response Function CPS(ch2,ch1) Cross Spectrum			
	Windows			
	Add a Window with one Trace			
	Add a Window with two Traces		_	
	Add a Bode plot		5	
	Add a Waterfall Window	L		
	Add a Color Map window		-	
	Add a Shaft Orbit Trace	6		F
	Add a XY Time Trace		Entor	\mathcal{Y}
8	Add a Nyqusit Trace		2	
	Delete Window			
	Windows View OK			

• A list of all created signals will appear. Here you can check which signals you wish to view in the window.

	Remote Display	-		×
	COCO-80X			
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	Change Signals in Trace 📃 🗔 16:08		CRYSTAL	
	Press Enter key to select or de-select a signal in a trace.			
	Bode (H(ch2,ch1),H(c One Trace	d		
n.	ch1	0	2	
100	ch2 Time stream of ch2			
Ч	BLOCK(ch1) Captured Block Signal			
	BLOCK(ch2) Captured Block Signal			
	BlockWin(ch1) Captured Block Signal After Window			
	BlockWin(ch2) Captured Block Signal After Window			
	APS(ch1) Auto Spectrum		_	
	APS(ch2) Auto Spectrum		5	
	CPS(dh2,ch1) Cross Spectrum	-		
	H(ch2,ch1) Prequency Response Function		-	
	COH(ch2,ch1) Coherence Function	6	â	
			untor P	y
			Ľ	
	Windows Select OK			
	F1 F2 F3 F4 F5 F6			
2				

Setting Parameters

• To configure parameters for a test, select the **Param.** or **F2** button.

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- This will open up a list of editable parameters.
- To change frequency range, select **Frequency Range**.
 - This will show a wide range of different frequencies to choose from.
- To adjust input settings, select Input Channels.
 - Press on *Sensitivity* for a channel.
 - This will open up a menu in which the Measurement Quality, Engineering Unit, and the Sensor Sensitivity can all be adjusted.
 - Press on Input Mode for a channel.
 - Here you can change the input for different sensors.

Recording Time Streams

- Press F2/Param. and select Time Streams Recording Setup.
- The table lists all available signals to record. Press the box next to the signal to add the check mark and select channels to record.

- Press **F6/OK** to save changes and go back to live signal display.
- Press **Rec/Stop** hard key once to start raw time waveform recording. Recording in progress is confirmed with the recording status box and flashing Rec with red dot in top bar.
 - Press **Rec/Stop** once again to stop time stream recording.

Saving Signals

- For saving frequency domain signals, press F2/Params. and select Spectral Save Setup.
- The table lists all available signals to record, press the box next to the signal to add the check mark and select channels to record.
 - Press **F6/OK** to save changes and go back to live signal display.
- When ready to save signals, press the **Save** hard key. A list of saving options will show to save the signals.
 - A header box will verify signals have been saved.

Viewing Recorded Data

- Press the File hard key to view the list of saved and recorded files
 - Raw time waveforms are denoted as **RECxxxx** by default.
 - Spectral Saves are denoted as **SIGxxxx** by default.
- After highlighting the file you wish to open, click **View File** or **F4** to open and view the recording.

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