

CRYSTAL instruments

Spider-81 Random Test Quick Start Guide

Start Up

Power button is on the left side of the front panel of the Spider-81.

- Press the power button.
- Use an Ethernet cable to connect the Spider-81 to a PC running the EDM software.

Start EDM Software

- Click on Random to create a new random test.



Spider Configuration

- Click Tools->Spider Configuration
- On the next screen, click **Create a new Spider System**.
- Select one or more detected Spider module(s) to create a new system.

T <u>o</u> o	s <u>R</u> eport <u>H</u> elp						Create a new Spider System
品	Spider Configuration						Enter the name of the Spider system. Check the Spider modules to be included:
1	Download Files from Internal Flas	hof Spider Sign	als		Hardware Info and Version	IP Setting	Name of Syst So1_Sample
<u> </u>	- 14	Spider Configuratio	on		Hardware Information		Set as default spider system
1	Calibration	,			Name	SN: 980640	Detected modules • Sort by SN • Sort by IP SN: 663488 (IP: 192,168.0.103)
3	Hardware Self-Test				Device Type	Spider81	🗷 🛹 (M) SN: 980640 (IP: 192.168.0.105)
8		gnal	D		Charge Enabled	Yes	 ▲ Image: A modules previously saved
8	Access Database		-		Last Calibration Date	4/1/2013	(M) SN: 663008 (IP: 192.168.0.104)
8	Backup and Restore Databases				Version Information		
	Marakia - Marka				EDM Version	4.1.8.27	
G	Working Mode	•		Create a new Spider system	DSP Application Version	4.1.8.27	
	License Key Manager	0063	sε		BIT Version	20203	
2	Account Manager		_	Diagnose Spider Modules			
Ę	Initial Setup	Ctrl+Shift+I		Add a known IP Address Module			
2	Global Settings	Ctrl+G					<u>O</u> K <u>C</u> ancel

Create A New Test

- Press **New Test** button in the upper left to start creating a new test.
- Click on VCS tab to create a VCS test.
- Click on **Random** to create a random test.
- Select **Spider System** to be involved in this new test and press **Finish** to proceed to a new test window.

Engineering Data M	New Test Wizard ? X	New Test Wizard 7 X			
Test Setup Control	Select the test type This test will be applied to the configured default system	Input the basic information for this test Note: In the future you can search this test through the database by the keywords in the fields of Test Name or Test Description.			
New Test	Opmanic Signal Analysis (OSA) Vibration Control System (VCS) All Templates Image: Control Signal Analysis (OSA) Vibration Control System (VCS) All Templates Image: Control Signal Analysis (OSA) Vibration Control System (VCS) All Templates Image: Control Signal Analysis (OSA) Vibration Control System (VCS) All Templates Image: Control Signal Analysis (OSA) Programmer Control Signal Analysis (OSA) Programmer Control Signal Analysis (OSA) Programmer Control Signal Analysis (OSA) Image: Control Signal Analysis (OSA) Programmer Control Signal Analysis (OSA) Image: Control Signal Analysis (OSA) Programmer Control Signal Analysis (OSA) Programer Control Signal Analysis (OSA) Progr	Test see see Audron tests Readord Test See see Audron tests Readord Test See see Audron test Readord Catel by using manufacture setting: Orabit by using test plane Setter: Test See single baser Setter: Charts was not folder for tesh run			
	Cancel	< Back Pinish Carcel			



Input Channels

- Click Setup->Input Channels to setup input channels.
- All input channels related parameters can be edited at this step.

Engineering Data Management System					input Channels for RandomS [VCS(Random)]									
Test Setup Control View Layout Tool			Fill	Ex/Im	Units	Sensor • Loa	d From Library	Non-a	cceleration	Control			Max.	
1		Test Configuration	Ctrl+T			On/Off	Туре	ID	Quantity	Unit	Sensitivity	Input Mode	Sensor	Sensor Range
New	Eab	Input Channels	Ctrl+I	•	1	I On I On	Control - Monitor -	Ch1 Ch2	Acceleration	g a	100.0000 (mV/g)	AC-Single End	<u> </u>	20.0000 (V 20.0000 (V
-		Measured Cincels	Chilin		3	C Off	Monitor	Ch3	Acceleration 💌	g	100.0000 (mV/g)	AC-Single End		20.0000 (V
	-	Measured Signals	Ctri+M		4	C Off	Monitor	Ch4	Acceleration	g	100.0000 (mV/g)	AC-Single End	<u> </u>	20.0000 (V
Recer	1	Test Sequence	Ctrl+Q		6	O#	Monitor -	Ch6	Acceleration	g	100.0000 (mV/g)	AC-Single End		20.0000 (V
	13	Black Box Setup	Ctrl+B		7	0ff	Monitor	Ch7	Acceleration	g	100.0000 (mV/g)	AC-Single End	.	20.0000 (V

Measured Signals

- Click **Setup->Measured Signals** to select signals to be measured and recorded.

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Now	13	В	lack Box S	Ctrl+B							
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Shake

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 Random Max. Acc. RMS (g)

 2205.866
 Sine Max. Acc. Peak (g)

 100.022
 Shock Max. Acc. Peak (g)

50

0.25

Force & Acceleration -Random Max. Force RMS (Sine Max. Force Peak (LBF

Displacement

1ax, Positive I

nock Max. Force Peak (LBF)

Test Configuration

- Click **Config** button from the control panel to open a dialogue.
- Click Shaker Parameters to edit shaker parameters.
- Click other tabs to edit additional parameters if necessary.



Run A Test

- Press **Run** button from the control panel to start the test.
- Click window tabs to switch displayed signals.

