




for NI PXI/PXIe

Quick Start Guide

Revision 1.7.8

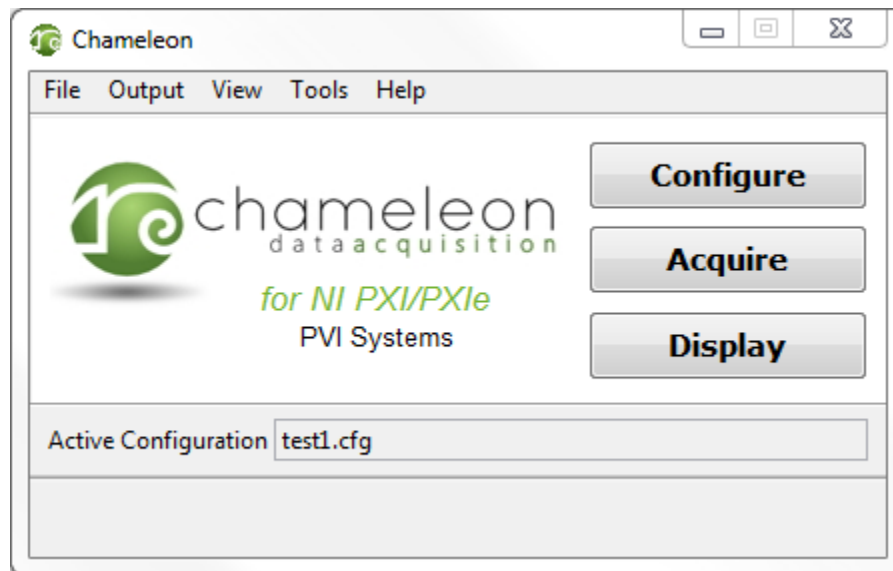
February 2021

Chameleon Quick Start Guide


Launch **Chameleon** from the desktop icon, . The Getting Started panel will be displayed.



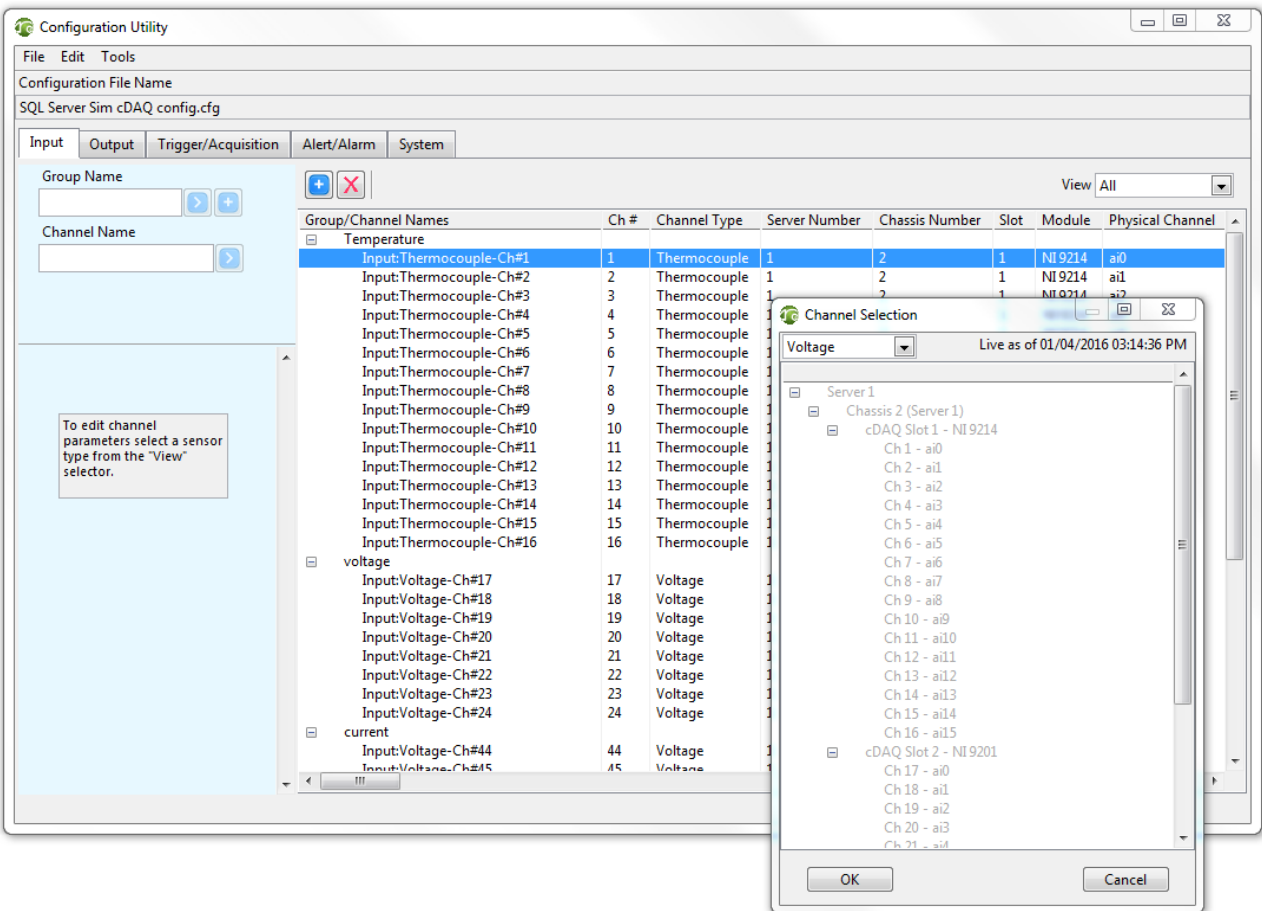
Select, **Continue to Main Menu**. The Chameleon panel will be displayed. **Tutorials describing each step of channel configuration, acquisition, and display are available under the help menu.**



Select, **Configure**

Select the  **button** at the top of the panel. A list of available input channels is displayed. Use the drop down menu to select the type of sensor to add, select the channels to add, and select **OK**. The selected channels are added to the input channel list.

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Change the settings as needed by selecting the channel type from the drop down menu titled "View" on the top right of the panel and selecting one or more channels. A list of available settings for the selected channel type appears on the left side of the panel. Set the parameters as desired.

Select the **File** menu and **Save As** to save the configuration settings.

Close the Configuration panel.

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In the Chameleon panel, select **Acquire**. Select signal monitor from the drop down menu to display the signal monitor panel. This will display signal levels graphically and numerically.

Acquisition

Tools Displays

Signal Monitor [Camera Icon] Recording Status **Off** Channel Overload [Off]

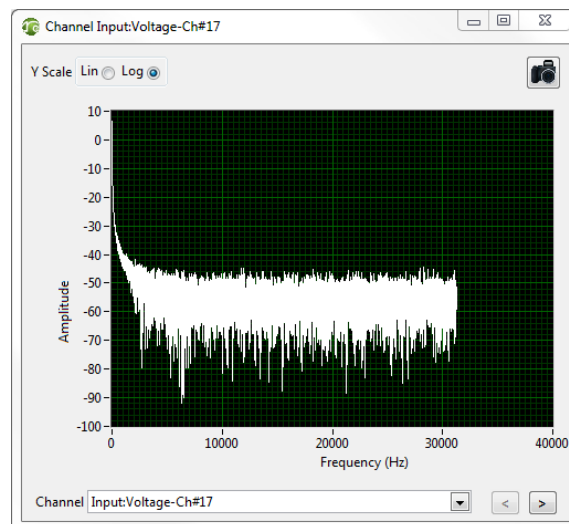
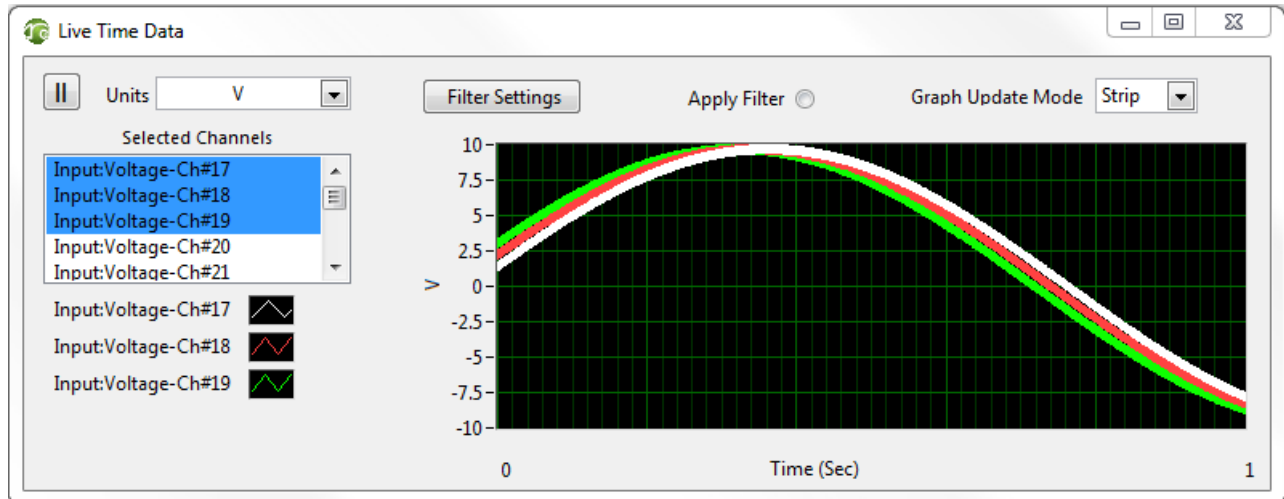
Active Configuration:
SQL Server Sim cDAQ config.cfg RMS Units EU Alerts [Green] Alarms [Red]

Name	Level	Value	Over-load	Open Short
Input: Voltage-Ch#17		3.672388		
Input: Voltage-Ch#18		4.211387		
Input: Voltage-Ch#19		4.780937		
Input: Voltage-Ch#20		5.360376		
Input: Voltage-Ch#21		5.927883		
Input: Voltage-Ch#22		6.474669		
Input: Voltage-Ch#23		6.990132		
Input: Voltage-Ch#24		7.466359		
Input: Voltage-Ch#44		15.755595		
Input: Voltage-Ch#45		11.241751		
Input: Voltage-Ch#46		6.069833		
Input: Voltage-Ch#47		1.299707		
Input: Thermocouple-Ch#1		304.525360		
Input: Thermocouple-Ch#2		299.059235		
Input: Thermocouple-Ch#3		297.879089		
Input: Thermocouple-Ch#4		298.894135		
Input: Thermocouple-Ch#5		299.717834		
Input: Thermocouple-Ch#6		301.780487		
Input: Thermocouple-Ch#7		303.658844		
Input: Thermocouple-Ch#8		307.346100		

Ready.

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Select the **Displays** drop down menu and **Open Time...**, **Open Numeric...**, **Open Frequency...** buttons to create plots of the live data. The time window can display multiple channels, is resizable, can apply filters, and has an editable x-axis scale.

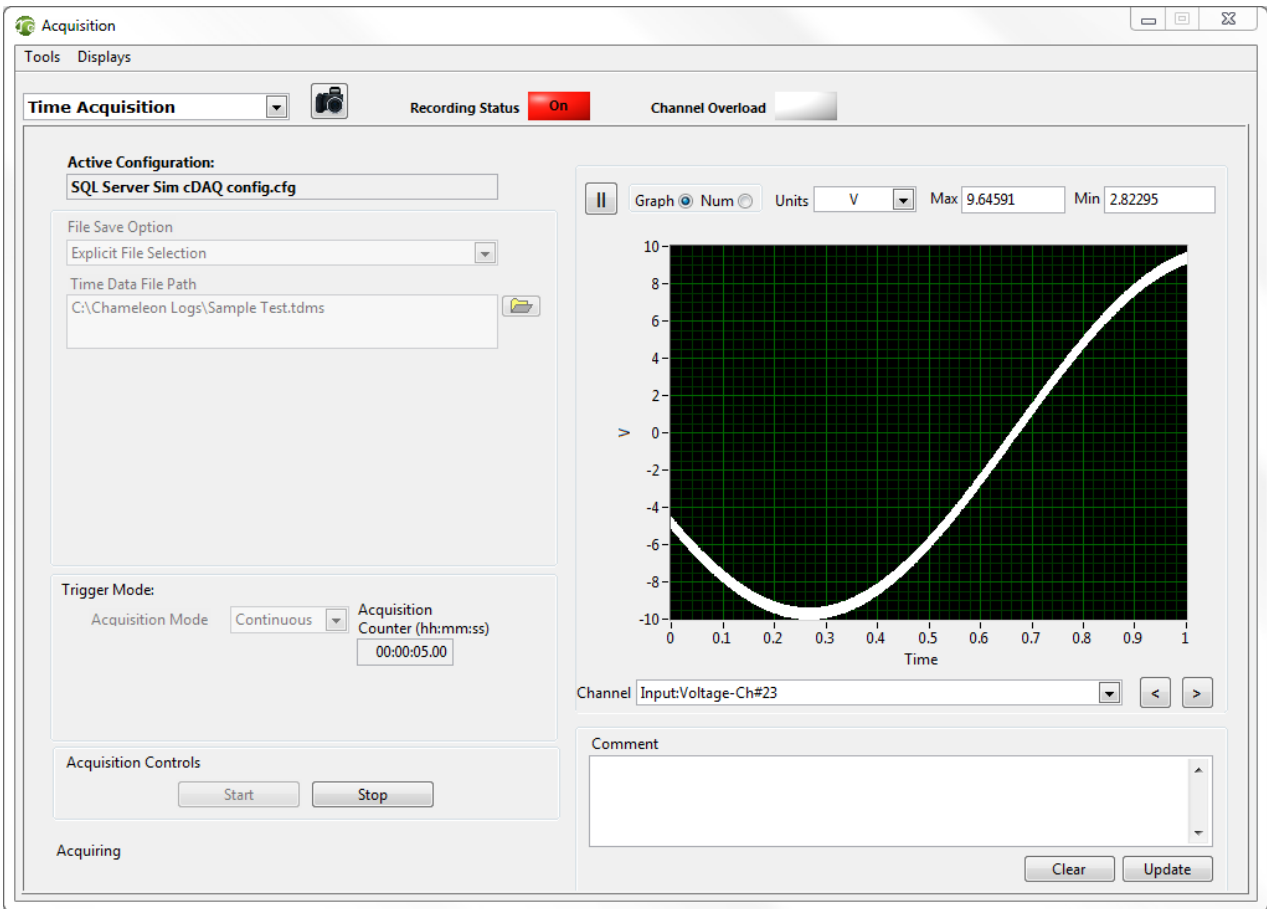


Select **Time Acquisition** tab from the **Acquire** panel.

Set the **File Save Option** to **Explicit File Selection**, enter a file path and name for the TDMS data file. Set the mode to **Finite**, and acquisition time to 10 seconds.

Once the status indicator in the bottom left corner of the panel indicates that the hardware is **Ready**, select the **Start** button to begin the acquisition. The acquisition counter displays the data recoding time.

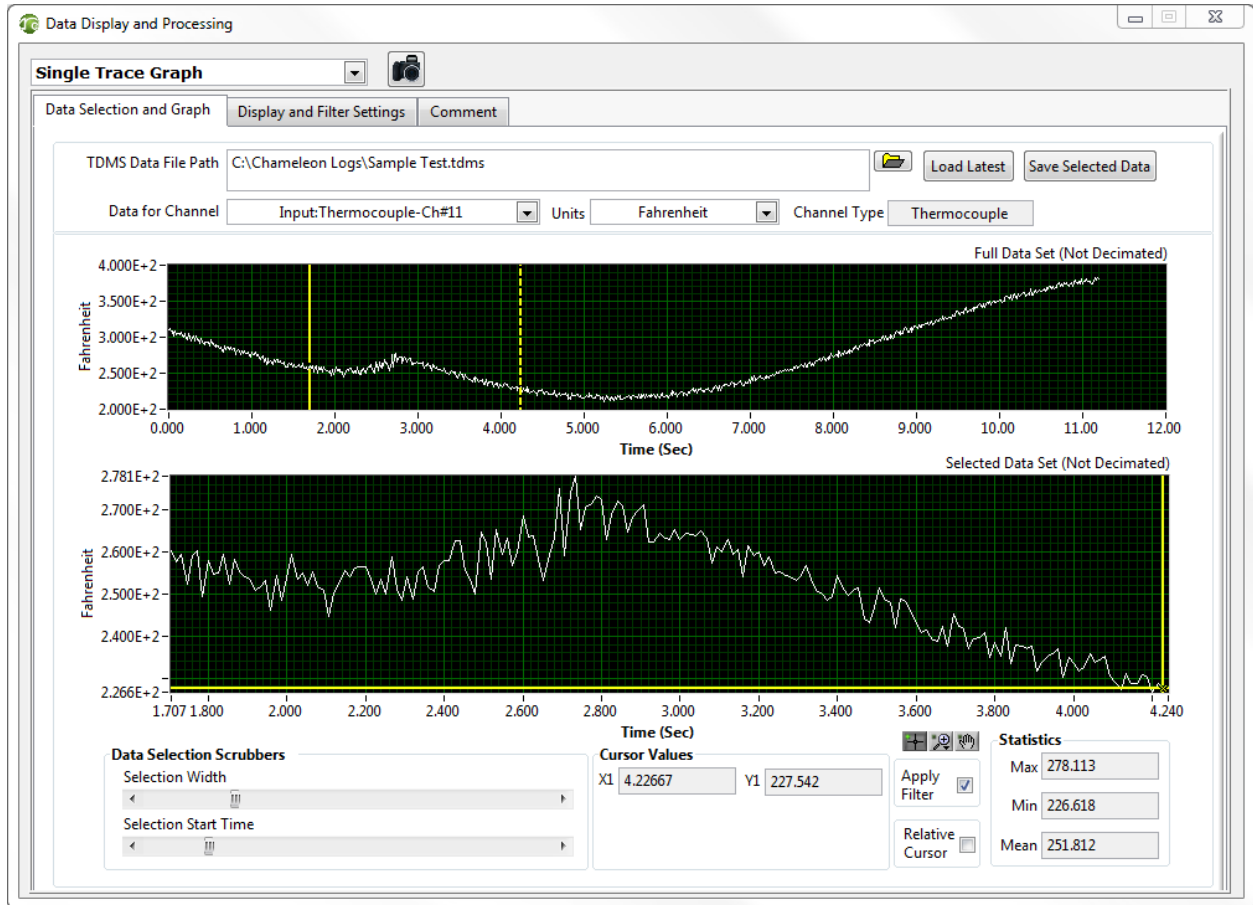
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Once the acquisition is complete, **Close** the Time Acquisition panel.

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In the Chameleon panel select **Display**.



Use the **TDMS Data File Path** browser select the file created in the previous step. Select the display channel from the **Data for Channel** drop down menu.

After reviewing the data, close the Single Trace Graph panel.

Refer to the *Chameleon User Manual* for additional information on operation and features.

To obtain support for Chameleon for NI PXI/PXIe please visit the PVI website at chameleondaq.com/support.

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