



## NI-cDAQ 9260/9234 Setup in Windows

Always use the approved driver from the SoundCheck DVD or from our website:

<https://support.listeninc.com/hc/en-us/sections/200370694-Drivers>

Install the latest version of DAQmx that is approved for use with SoundCheck.

### Installation

NI cDAQ is a USB test and measurement interface. The NI 9260, 2 channel output module and NI 9234, 4 channel input module have been approved for use with SoundCheck. This was tested with the NI cDAQ 9174 USB CompactDAQ Chassis. Equivalent cDAQ chassis should work as well.

Install DAQmx and connect the NI cDAQ chassis/modules to the SoundCheck computer.

- Install full version of DAQmx including Measurement and Automation Explorer

The NI cDAQ device monitor opens showing that the chassis is connected.

Under "**Configure this test device**", click **Go** to open NI-Max Measurement and Automation explorer.



Figure 1-1: Device Detected

The NI cDAQ 9174 along with the NI 9250 and NI 9234 modules are shown as available under **My System** as shown in [Figure 1-2](#).

NI cDAQ devices have an issue with phase inconsistency from one measurement to another.

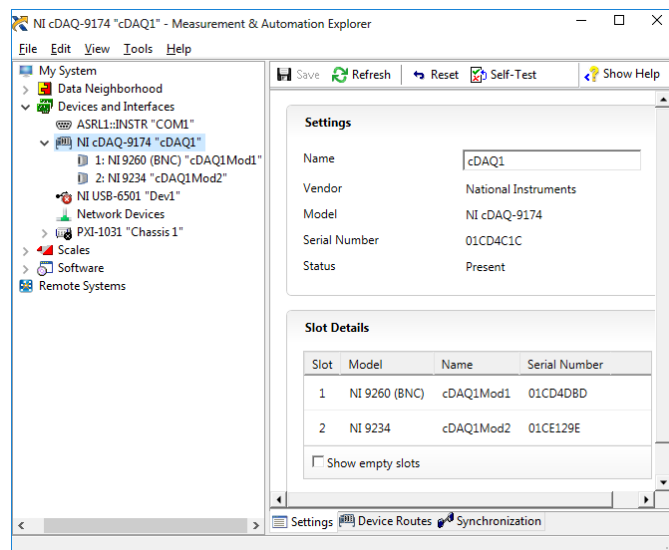


Figure 1-2: Measurement & Automation Explorer

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**Important:** *Please be advised that phase measurements may be inconsistent from one test to the next. This is a known issue to National Instruments.*

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Test panels and Self Tests for the input and output modules can be used to verify that the device is working correctly.

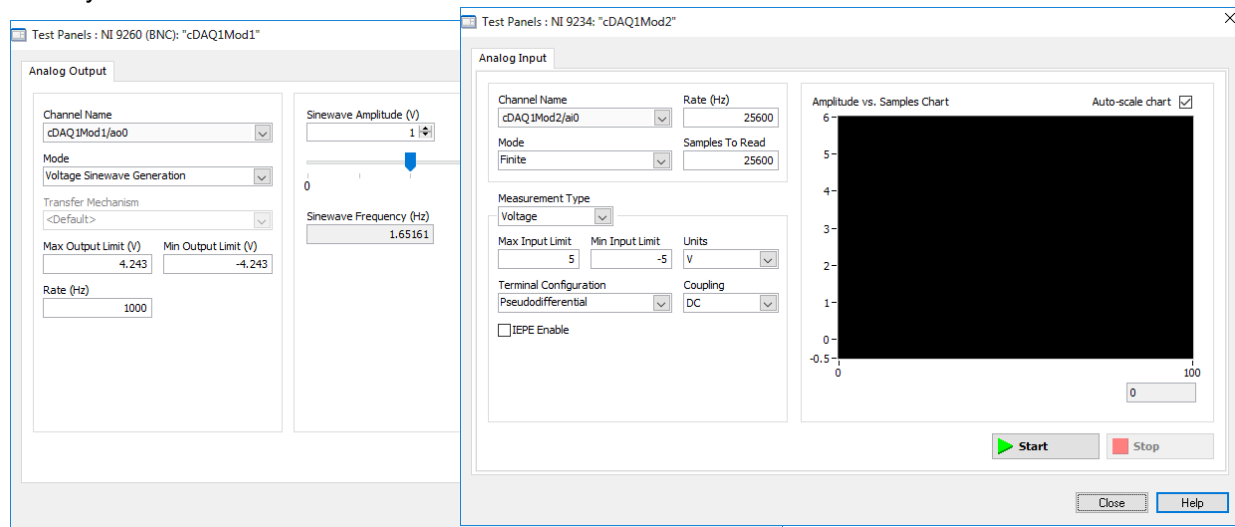


Figure 1-3: Test Panels

## Analysis

NI cDAQ requires that SoundCheck sequences use **Auto Delay** on the Delay Tab of all Analysis Steps.

## SoundCheck Hardware Editor

The Hardware Editor in [Figure 1-4](#) shows the settings for the Input and Output Vp values.

- **Sampling Rate:** Only one rate can be selected for all Input and Output channels of an interface

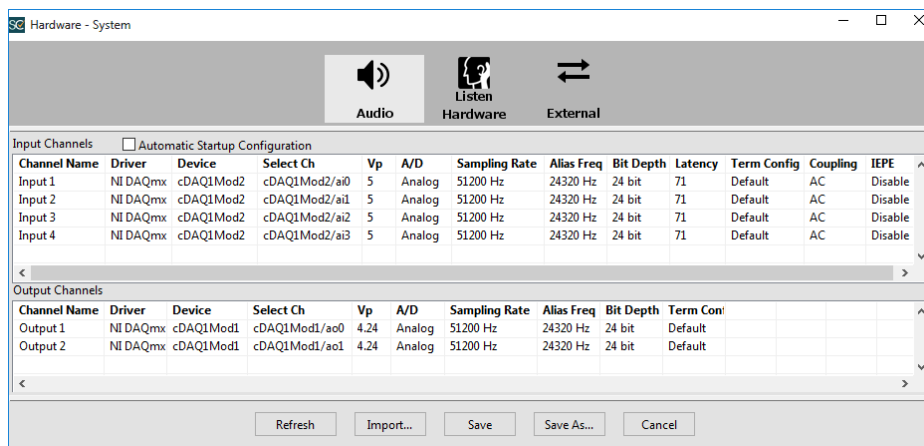


Figure 1-4: Hardware Editor

The default Hardware Step is set to a sample rate of 51.2 kHz. This is the maximum sample rate for the NI 9260 and NI 9234 modules. You can select other sample rates below 51.2 kHz from the drop down list of the Sample Rate field. The Latency remains the same for other sampling rates.

Latency in Samples for Typical Sample Rate and Buffer Values			
USB Connection	44.1 kHz	48 kHz	51.2 kHz
Samples	71	71	71
Enter the <b>Samples</b> value in the Hardware Editor Latency field for the selected Sample Rate.			
Figure 1-5: Latency in Samples - USB			