

# WHERE TO START WITH YOUR NI 5911 PCI-BASED OSCILLOSCOPE

## with Flexible Resolution

The following section explains how to begin using your NI 5911.

## Set Up and Test Using Windows 95/NT

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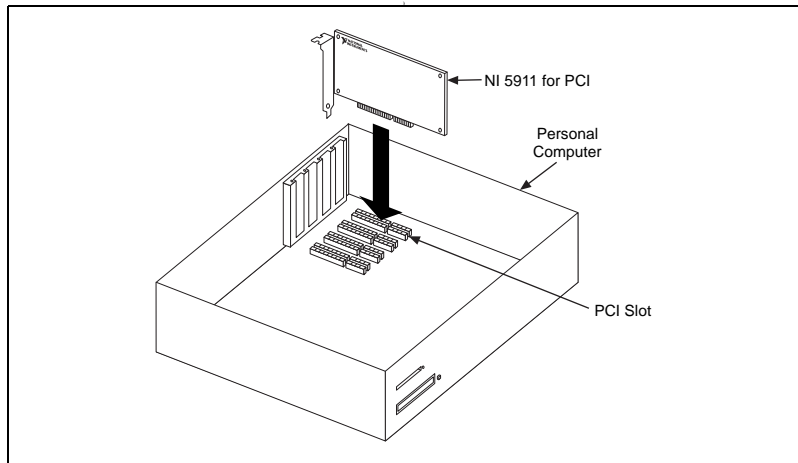
You can control the NI 5911 interactively with the VirtualBench-SCOPE soft front panel software or programmatically with an Application Development Environment (ADE) using the supplied NI SCOPE Interchangeable Virtual Instrument (IVI) driver. The supported ADEs include LabVIEW, LabWindows/CVI, Visual Basic, and other C or C++ environments. The following instructions describe how to set up your NI 5911.

1. If you are using an ADE or third-party tool, install it now if you have not already done so.
2. Install the NI SCOPE software. The software CD includes the software you need to configure, test, and program the operation of your NI 5911.
  - a. Insert your National Instruments SCOPE software CD into your CD-ROM drive. Click on the **Install** option from the installation window.
  - b. To install the instrument driver, ADE examples, and VirtualBench-SCOPE soft front panel, choose the **Programmatic and Interactive Support** option. To install only the VirtualBench-SCOPE soft front panel, choose the **Interactive Support Only** option.
3. Install your NI 5911 hardware. The following figure illustrates the NI 5911 hardware installation.



### Caution

*You must turn off your PC or chassis before installing your NI 5911. To prevent damage due to electrostatic discharge or contamination, handle the board using the edges or the metal bracket.*



**Figure 1.** Installing the NI 5911 for PCI

4. To configure and test your NI 5911, launch Measurement & Automation Explorer.
  - a. Double-click on the **Measurement & Automation** icon on the desktop.
  - b. Double-click on the **Devices** icon to open a list of recognized devices.
  - c. Find the device in the list which corresponds to your NI 5911. Note the device number your device has been assigned. You will need to use this device number when you program your device.
  - d. Right-click on the device and select **properties** from the menu.
  - e. From the **Properties** window, click on the **Test Resources** button to test the NI 5911 resources. A dialog box appears and indicates if the resource test has passed.
  - f. Click on **Run Test Panels** to run the functional test panels and begin using your NI 5911. Connect a signal to your NI 5911 and select the appropriate range and mode.
  - g. Click on **Close** when you finish testing your NI 5911. Click on **OK** from the **Properties** window.

You have successfully installed and configured the necessary software and hardware to use your NI 5911 with the NI SCOPE software.

1. Launch the soft front panel. Open the **VirtualBench-SCOPE** soft front panel from the **Start»Program»National Instruments SCOPE** menu. Refer to your *NI 5911 User Manual* for more information on using this soft front panel to control your NI 5911 scope.
2. Begin programming your NI 5911 in your ADE. Refer to the *National Instruments SCOPE Help* file in the **Start»Programs»National Instruments SCOPE** menu for more information on programming your NI 5911 with the instrument driver.



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