

## **NGS Installation Instructions**

9 April, 2009

This document consolidates the steps that are specified elaborately in the Word document NGS Shipment Cover Letter 1, that was printed and included in this shipment. The letter has as its subject "Tester Interface Configuration and Software Installation". After following the installation instructions in this document or that cover letter, please refer to the cover letter. It includes a description of the first execution of the Vision program and post-execution actions that will configure the program and qualify the tester.

The software installation for the NGS type Precision testers from Radiant consists of three parts in the following order:

1. Install Vision from the Installation Disk #1.
2. Install the latest drivers from Installation Disk #2.
3. Connect the tester to the Windows' USB manager.

**IMPORTANT: THE TESTER MUST REMAIN OFF UNTIL YOU ARE INSTRUCTED TO TURN IT ON BELOW!**

**IMPORTANT: If you are loading a Precision LC, you will have special instructions to follow in STEP 3 -> LOADING THE TESTER.**

### **STEP 1 -> INSTALLATION:**

#### **Install Vision:**

1. Load the "[Precision NGS Tester Installation Disk #1](#)" CD onto your computer CD drive.
2. Go to the folder for "[Vision Installer](#)". Copy the Vision.exe installation program from the Vision Installer directory on Vision distribution disk #1 to the host computer desktop. Running the installer from the CD is very slow. It has also been reported that running it from the CD may produce an "Insufficient Disk Space" error, when this is not the case. The error does not occur when running from the desktop.
3. Execute the "[Vision](#)" installation program from the desktop.
4. Remove Vision.exe from the desktop if so desired.
5. If you are using Vista, you should change the compatibility mode for Vision. To do so,
  - A. Place the mouse cursor over the Vision icon on the desktop and press the right mouse key.
  - B. A pop-up menu will appear. Select the "Properties".
  - C. Go to the "Compatibility" page of the menu.
  - D. Set the compatibility of Vision to "XP with Service Pack 2".
  - E. Press OK.

Vision is a large installation and it may take up to ten minutes so please be patient. This should not be the case if running from the desktop.

**IMPORTANT:** If Vision is already installed on your host computer, the installer will “unload” the installed version on the first pass. You will then have to run the Vision installer again to load the newer version.

## **STEP 2 -> Update Drivers and Example Test Profiles:**

1. Place the “[Precision NGS Tester Installation Disk #2](#)” in the CD drive of the host computer.
2. Execute the programs “[UPDATE\\_Installation](#)” and “[UDT Library](#)”.

## **STEP 3 -> LOADING THE TESTER:**

**IMPORTANT:** If you are loading a tester other than a Precision LC on the host computer, then follow the instructions “**A**” directly below this line.

If you are loading a Precision LC, follows instructions “**B**” below.

### **A -> Load Tester other than Precision LC on a Host Computer:**

1. Connect the Precision tester to power but leave it off.
2. Connect the USB cable between the host computer and the tester
3. Turn on the tester.
4. A “New Device Found” wizard will start on the host computer.
5. Select to search the computer for a suitable driver. Point the wizard to the “[C:\rt\\_usb](#)” folder and say OK. Windows will warn you that the code has not been tested by Microsoft. Press “[Continue Anyway](#)”.

Windows will load your new tester as a USB device. You can verify this if you want to by placing the mouse cursor over the icon for the computer on the desktop and press the right mouse button. Select “Manage”. From the window that opens, select “Device Manager”. Open the folder for the “Universal Serial Bus controllers” and you will find an icon for your type of tester. Turn off the tester and the icon will go away. Turn on the tester and the icon will re-appear!

NOTE: This is the only installation of the NGS drivers you will need to do. When you connect any other Precision tester to the host computer after this point, it will automatically load without the wizard.

Vision is now ready to run!

## **B -> Load Precision LC on a Host Computer:**

**IMPORTANT: If you are loading a Precision LC on a host computer that HAS NEVER had a Precision LC loaded on it, follow the instructions “**B(1)**” below.**

- B(1)** 1. Connect the Precision LC tester to power but leave it off.
2. Connect the USB cable between the host computer and the tester
3. Turn on the tester.
4. A “New Device Found” wizard will start on the host computer.
5. Select to search the computer for a suitable driver. Point the wizard to the “C:\rt\_usb” folder and say OK.

**IMPORTANT: If you are loading a Precision LC on a host computer that HAS had a Precision LC loaded on it before now, then follow the instructions “**B(2)**” below.**

- B(2)** 1. Connect the Precision LC tester to power but leave it off.
  2. Connect the USB cable between the host computer and the tester
  3. Turn on the tester.
  4. Since the LC has been connected to this computer before, the LC will be loaded automatically by the computer using an older USB driver file that we must replace. To replace the old file, we must update the driver file for the LC
  5. Put your mouse cursor over the icon for the computer on the computer desktop.
  6. Press the right mouse button and select “**Manage**” from the pop-up menu. You will get an explorer window.
  7. Click on “**Device Manager**”.
  8. The second entry from the top on the list of devices will be  
“**DeVaSys USB Interfaces**”  
  
Click on the “+” box to open this folder. Inside will be a device named  
“**DeVaSys USB-I2C/IO Board**”  
  
Double click on the device icon for “**DeVaSys USB-I2C/IO Board**”. Go to the DRIVER page and click on the button labeled “**Update Driver**”.
- IMPORTANT: If you cannot find the entry “DeVaSys USB Interfaces”, then look inside the “Universal Serial Bus controllers” folder. If you find the device “DevaSys LC” listed, then the computer already recognizes the LC correctly and you are done. Skip Step 9 below. If you cannot find the LC anywhere, then follow instructions B(1) above.**
9. Select to search the computer for a suitable driver. Point the wizard to the “C:\rt\_usb” folder and say OK.

From this point on, the computer will use the new USB driver to control the Precision LC when you connect the tester to the computer.

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### **First Time Startup Instructions for the Precision LC:**

When you load the Precision LC the first time, it will load as a “Devasys LC” under the Universal Serial Bus Devices in the Device Manager. The first time that you open Vision after installation, it will download a new identity to the LC, changing its name and its USB driver. Windows will automatically load the new personality for the LC while Vision is starting up. You will get a warning from Vision that it could not find the tester. Simply

1. Stop Vision,
2. Turn the LC OFF and then ON, and
3. Restart Vision.

Everything will run correctly from that point on.

**NOTE:** This special situation with the Precision LC will occur only once when Vision starts for the **FIRST TIME** with the LC connected. It will never happen again. No other Precision Tester will do this.