



# Installing Your Nicolet iS5 System

**1** Wait 24 hours



To prevent condensation which can damage internal optics, leave the spectrometer in its plastic shipping bag for 24 hours after delivery to allow it to slowly adjust to room temperature.

## 2 Unpack the shipping box

Remove top tray.



Lift sleeve straight up and then spread hands to separate foam blocks.



Remove spectrometer; weight is 10 kg (22 lb.). Remove plastic wrap.



Open cover and remove desiccant packs.



Use the Packing Confirmation list to verify that your order is complete. Save the shipping box if you plan to move or ship the instrument in the future.

## 3 Install the software and device driver

1. Set up the computer and plug in the power cord.
2. Turn on the computer and log on as an administrator.
3. Insert the "Install First - OMNIC™ Software Program Disk" into the disk drive and run the install program.
4. Click **Install** and follow the prompts to install the software.
5. After the prompt, install the "OMNIC Software Spectrometer Driver Disk" and run the install program. Follow the prompts to install the device driver for the Nicolet iS5 spectrometer.



## 4 Turn on the spectrometer and verify the device



Check "Preparing Your Site" on your documentation disk for electrical and other system requirements before you connect the power cord.

1. Connect the power supply to the spectrometer and to a properly grounded AC power source.
2. Press the spectrometer power switch.
3. Connect the USB cable to the spectrometer and to a USB 2.0 port on the computer. If your computer is running Windows® 7, a message indicates that the operating system found the device.

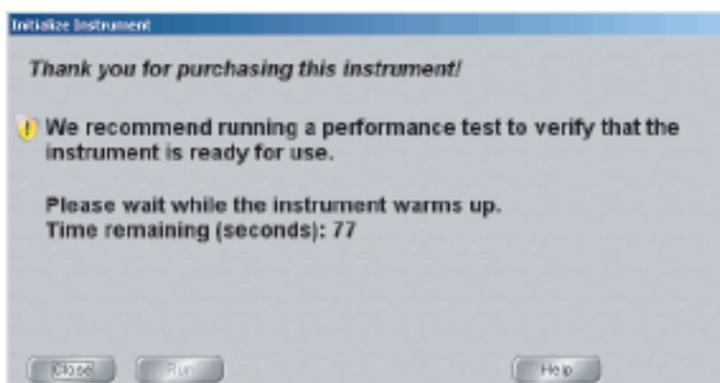
If the computer has Windows XP, the "Found New Hardware" wizard appears. Follow the steps to search the computer's hard disk for the driver.

**Note:** If the system cannot find the driver, restart the computer.

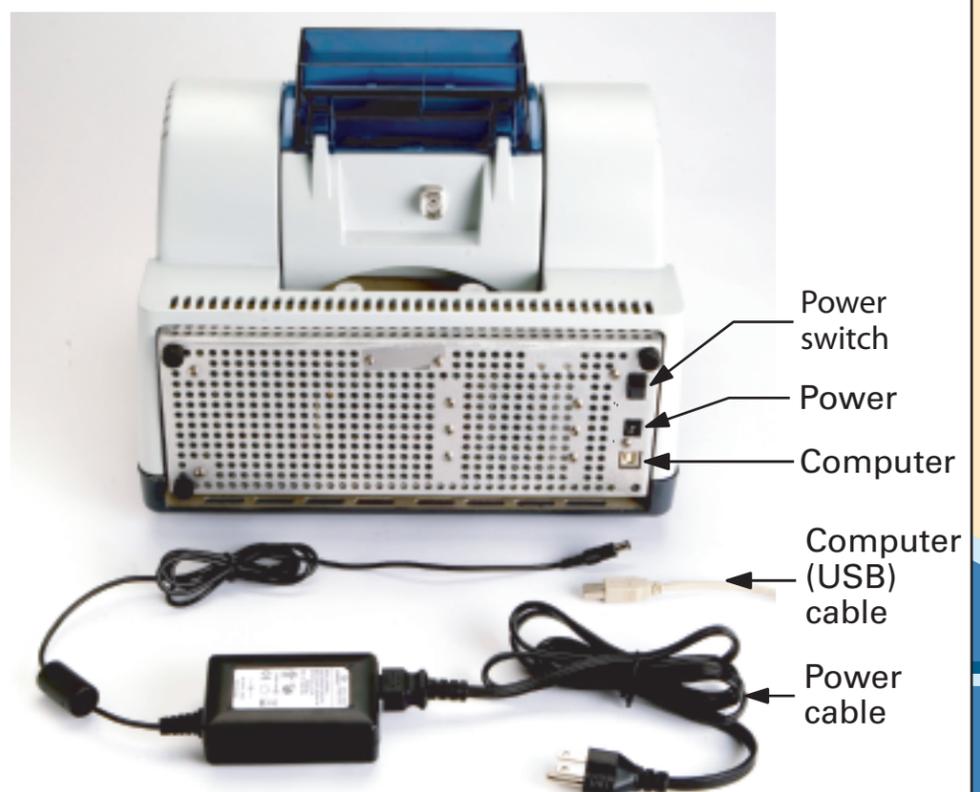
## 5 Start OMNIC software and wait for the spectrometer to initialize

Double-click the OMNIC icon on the computer desktop.

The welcome screen appears. The spectrometer requires 2 minutes to initialize. During initialization, the blue power indicator on the instrument flashes and OMNIC software displays the number of seconds remaining; the system cannot collect data until initialization is completed.



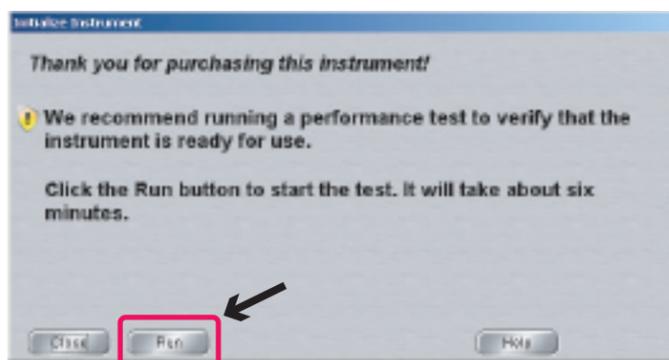
*continued on reverse side*



Performance Verification (PV) aligns the spectrometer, verifies the laser frequency, checks the energy throughput, and uses a NIST-traceable polystyrene film located inside the spectrometer to confirm wavenumber accuracy. The PV test is based on ASTM E1421 standard practice and takes about 6 minutes to complete.

## 6 Start the Performance Verification test

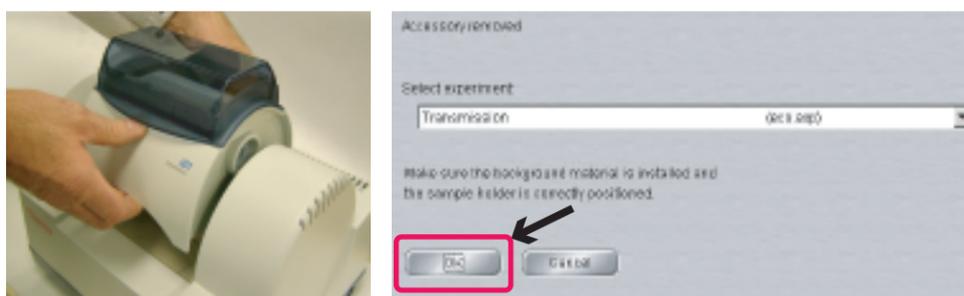
To start the PV test, click **Run**. A message prompts you to remove the sampling accessory.



## 7 Remove the iD1 Transmission Accessory

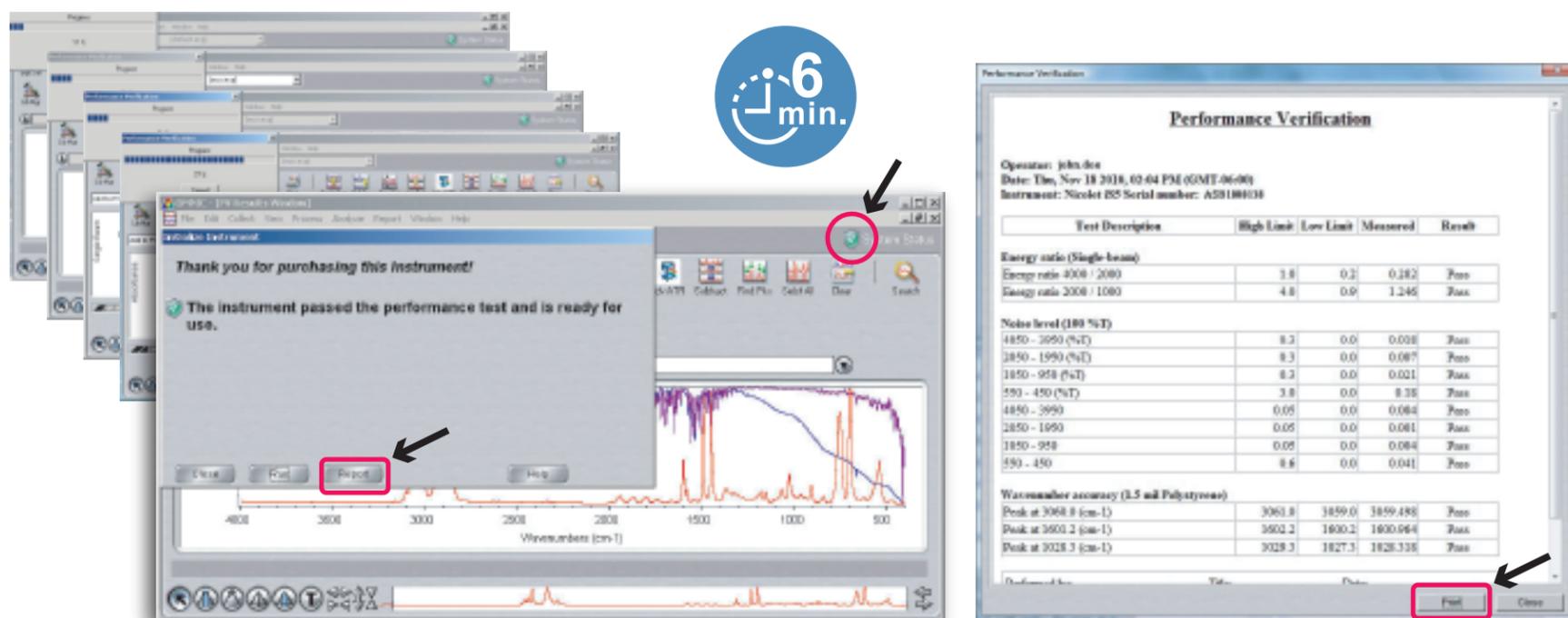
Hold the accessory by the front and rear handles and lift it off the instrument. A prompt confirms the accessory has been removed.

Click **OK** to begin the PV test.



## 8 Wait for the test to complete

During the PV test, OMNIC displays a series of windows and messages detailing each step. You may hear the motor rotate the internal polystyrene sample into and out of position while the system measures the polystyrene spectrum.



When the test is completed, a message confirms the instrument passed and a green check mark appears in the OMNIC window. If your instrument failed the performance test, see "Troubleshooting" in the Nicolet iS5 User Guide on your documentation disk, or follow the link on the disk to learn how to contact us.

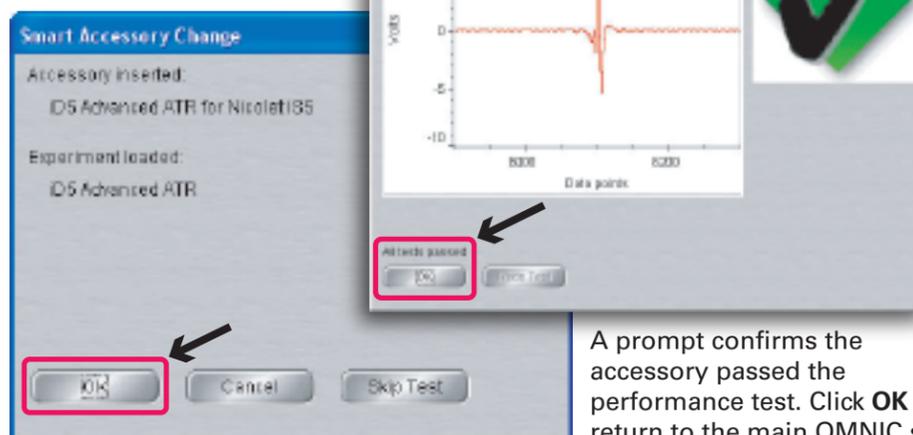
The PV test report is saved automatically. Click **Report** to view or **Print** it. When you are finished, close all open windows except OMNIC.

## 9 Install the iD1 or other sampling accessory

Hold the accessory by the front and rear handles and lower it onto the spectrometer. A prompt confirms an accessory is installed and selects an appropriate experiment file. Click **OK**.



Optional iD5 ATR accessory



A prompt confirms the accessory passed the performance test. Click **OK** to return to the main OMNIC screen.

### Where to go next

To install options such as a purge kit, see the Nicolet iS5 User Guide on your documentation disk.

To learn how to collect data with your new spectrometer, see the Nicolet iS5 Fast Facts and Getting Started guides in your iS5 Documentation binder.