

Instructions for the A512

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Hardware Installation

1. Make sure the 1400 power is off
2. Connect the A512 to the 1400 (see picture)
3. Connect the detector to the A512
4. Connect a mini USB/USB cable to the A512 and set the other end next to the
5. USB port on a PC



A512 Connected to 1400, Detector and USB



1400 System Connected to a PC

Software Downloads

1. Go to http://www.intl-lighttech.com/support/software/Virtual_Radiometer_20apr99.exe/view and click on the icon for the self-installing executable file.
2. Save the file to your desktop and, if necessary, rename the file to have a .exe extension. After the software is working, go back and delete this file.
3. Double left click on the icon for this executable file on your desktop, and then chose to run the executable.
4. Select a folder location for the program. We suggest either the desktop or C:/Program Files/International Light.
5. Unzip the files by clicking on “Unzip”
6. There will now be a folder entitled “ReadOnly” in the folder you selected.
7. Select “Close” in the WinZip window.
8. Turn on the 1400, Connect the USB cable to the PC and see if the computer recognizes the new hardware. If the 1400 is recognized, skip to the software operation procedure.

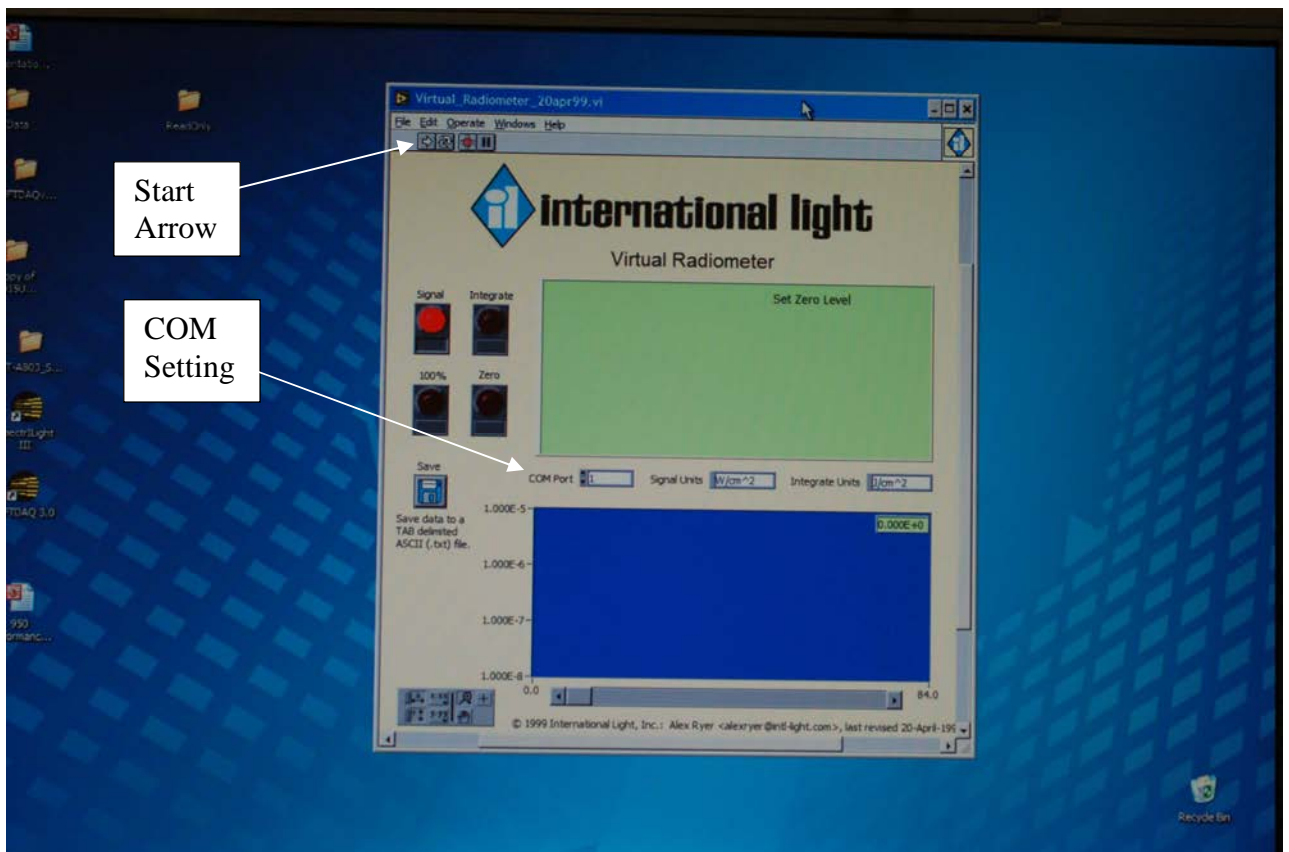
The next few steps are used only if the computer has not recognized the hardware.

9. Go to <http://www.intl-lighttech.com/support/software/CDM20814.zip/view> and click on the icon for the zipped drivers for the A512.

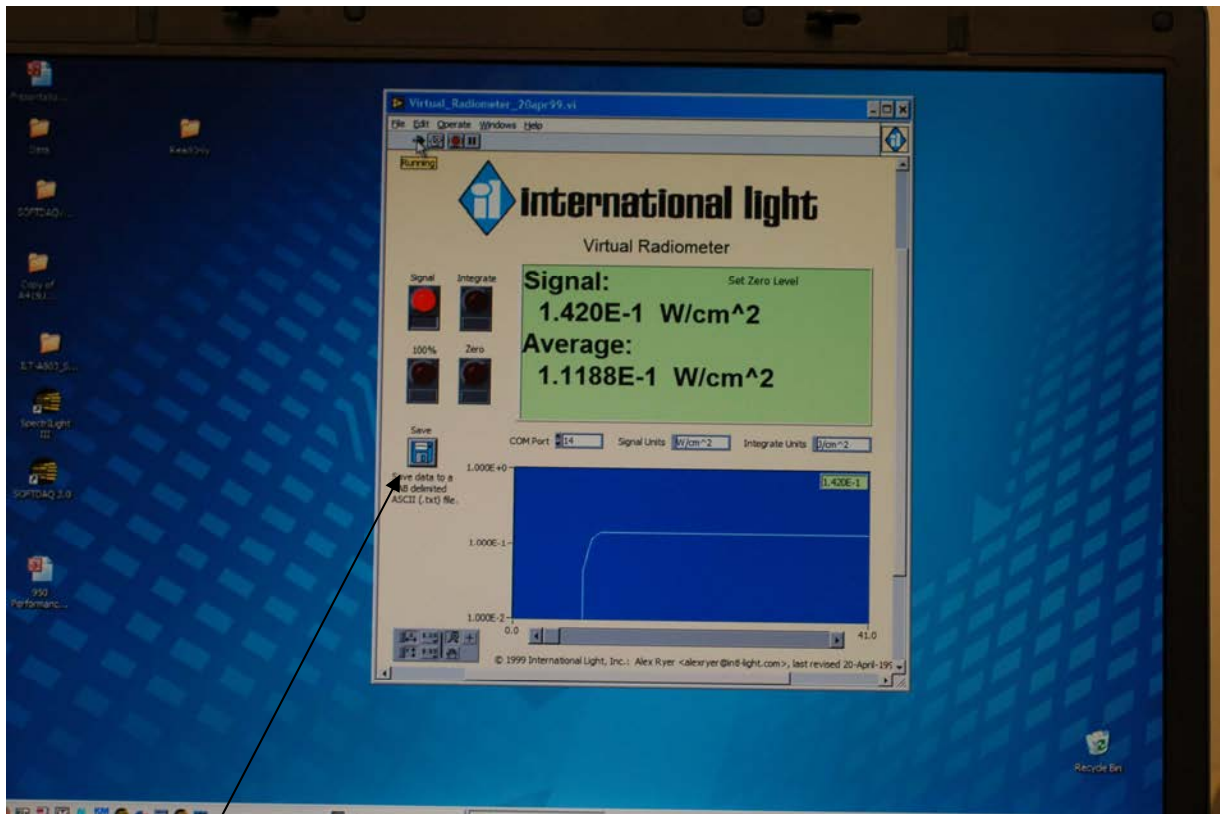
10. Save the file to your desktop and then extract all the files to the desktop. The drivers will be in the file entitled “CDM20814_Setup.exe”. Run the executable to automatically install the drivers for your computer (works with 32 or 64 bit Windows XP and Windows 7).

Software Operation

1. Go to the Start Menu/Control Panel/System, select the hardware tab, and click on the device manager (For Win 7 this is in the Devices and Printer Option in the Start Menu). Click on the + sign next to ports and determine the COM port for the 1400 by seeing which port disappears and reappears as the USB cable is removed and replaced. This COM port number is needed below.
2. Go into the ReadOnly folder, find the file Virtual_Radiometer_20apr99.EXE, and click on this to open the program.
3. Once the Labview Window is open, set the COM port number to the value found in step 1. For example, if the USB is COM2, set the software entry to “2”.



4. Click on the white arrow at the top left of the window to start the program.
5. Turn on the 1400. The data will begin to be output onto the graph. If the software is not logging the data, try turning the 1400 off and then on again.



6. To save the data, click on the icon of the floppy disk.
7. To integrate the signal, click on the INT button. The signal will still be sent to the graph, but the integration of the data will be displayed in the Green Box above the plot.
8. The units for the signal are displayed just above the graph.
9. The current value for the signal is displayed in the right corner of the graph.
10. See the 1400 manual for additional description of the Zero, 100%, and INT features.