

# Installing Hardware on Windows 2k/Xp/>

Application Note #197, 11/21/2002

## Installing New Hardware

The instruNet Setup.exe software >= v1.4 installs inf and sys driver files for the i230 card. Then, later, when an i230 card is inserted in the machine, the computer already has the drivers, and the install occurs without prompt. However, in the i200 PCI case, the end user must navigate after inserting the card to the inet.sys/inetpci.inf files at "Program Files \ instruNet \ Internal \ PCI Win Nt-2k-Xp Driver \".

## instruNet Driver Files after Installation

The Installer stores drivers at the following locations. If one cannot see the INF or Driver directories, select START \ Control Panels \ Folder Options, click the View tab, and then select "Show hidden files and folders". The iNet32.dll and iNet32\_WinXp.dll files are not part of the formal instruNet Windows OS hardware driver, yet are used heavily by instruNet World and interface software (e.g. DasyLab, C, Basic). In some cases, the inf/sys files are not copied to the Windows directory until a card is inserted in the computer.

<u>PCMCIA</u>	Windows \ Inf \ iNetPcm.inf (the OS also creates a .pnf file)
	Windows \ System32 \ Drivers \ iNetPcm.sys
<u>PCI</u>	Windows \ Inf \ inetpci.inf (the OS also creates a .pnf file)
	Windows \ System32 \ Drivers \ iNet.sys
<u>DLLs</u>	Windows \ System32 \ iNet32.dll
	Windows \ System32 \ iNet32_WinXp.dll

## instruNet Driver Files before Installation

The instruNet Setup.exe installer places a copy of the driver files at the following locations. If your computer asks for a .sys, .inf, or .vxd driver file; please navigate to one of the below directories.

<u>PCMCIA</u>	Win 2k/Xp	Program Files \ instruNet \ Internal \ PCMCIA Win 2k-Xp Driver \ inetpcm.sys, inetpcm.inf
	Win 95/98/Me	Program Files \ instruNet \ Internal \ PCMCIA Win 95 Driver \
<u>PCI</u>	Win Nt/2k/Xp	Program Files \ instruNet \ Internal \ PCI Win Nt-2k-Xp Driver \ inet.sys, inetpci.inf
	Win 95/98/Me	Program Files \ instruNet \ Internal \ PCI Win 95 Driver \

## Device Manager

The Device Manager program contains a list of devices (e.g. pci, pcmcia cards) installed on your computer. One runs this software by selecting START / Control Panels / System / Hardware tab / Device Manager Button.

## Identifying the State of your i2x0 Controller Card

An installed i2x0 card is in one of 3 states: (#1) OS does not see the physical card due to card/motherboard malfunction, card not seated well, or conflict with other card/driver; (#2) OS sees card yet Driver (i.e. .inf/.sys or .ini/.vxd files) cannot establish connection due to card/motherboard malfunction, card not seated well, conflict with other card/driver, or Driver not installed properly or not at all (Remove / Update driver, noted below, might remedy this last case); (#3) OS sees card, Driver is installed, and Driver has successfully connected the card to the OS / Computer. To identify which state your card is in: Install your card, open the Device Manager, as noted above, and look for a "Data-Acquisition Cards" category with a card listed under it. If you don't see that card, you are in State #1. If you see the card, yet see a yellow mark on its icon, you are in State #2 and the error message in its Property dialog summarizes your problem (this message is helpful when interacting with your supplier). If you see that card without the yellow mark, and the Property dialog says "Driver Installed Correctly", then you are in State #3. If there is a conflict with other pci/pcmcia cards (typically State #2), then emailing a registry report via Application Note #184 ([www.instrunet.com#184](http://www.instrunet.com#184)) might be helpful.

## Removing a PCI or PCMCIA Driver on Windows 2k/Xp/>

To remove a Driver (i.e. .inf/.sys files), one must enter the Device Manager (described above), click on "Data-Acquisition Cards", locate the i200 or i230 card, double-click on the card itself, press the Driver tab, click Driver Details, write down the location of the driver files, and then click the Uninstall button. The location of the files is probably similar to that noted above under "instruNet Driver Files after Installation". After Uninstalling, check that these files have been deleted from your computer, and if they haven't, delete them manually and Restart your computer. This pertains to "iNetPcm.inf", "iNetPcm.pnf", and "iNetPcm.sys" for the i230 PCMCIA card; and "inetpci.inf", "inetpci.pnf" and "iNet.sys" for the i200 PCI card.

## Updating a PCI or PCMCIA Driver on Windows 2k/Xp/>

The instruNet Setup.exe install program updates the i230 drivers when run (i.e. it writes to the Windows inf and driver directories). However, if one wants to do this manually after running the instruNet Setup.exe, follow the above instructions in "Removing a PCI or PCMCIA Driver", yet press the "Update Driver" button instead of the "Uninstall" button. One must then navigate to the directory noted above in "instruNet Driver Files locations before sys/inf Installation" for the inf/sys files.