

After the drivers for the first interface ports are installed, you go through the procedure a second time to install the drivers for the second interface ports. Simply repeat the steps described above.

To check that the adapter was correctly installed, navigate down through the following folders: *My Computer* → *Control Panel* → *System*; Select the *Device Manager* tab; Click the **Plus Sign** in front of *Universal serial bus controller*. If the adapter was installed correctly, the following entries should appear:

- Under *Universal serial bus controller*:
  - NEC PCI to USB Open Host Controller
  - NEC PCI to USB Open Host Controller
  - USB 2.0 PCI to USB Enhanced Hub Device
  - USB Root Hub
  - USB Root Hub
  - USB 2.0 Root Hub Device
- Under *IEEE 1394 bus host controllers*:
  - VIA OHCI Compliant IEEE 1394 Host Controller

**Note:** Depending on the Windows version, there may be some slight variation in the wording.

#### CONNECTING PERIPHERALS

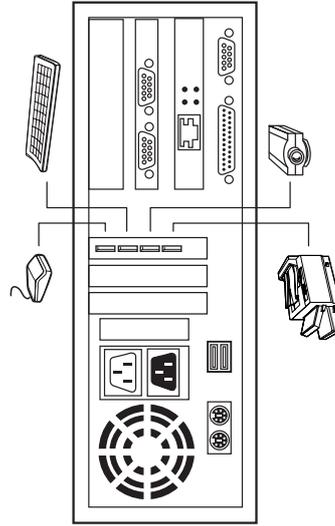
##### USB Peripherals:

1. Plug the B connector end of the peripheral's USB cable into its USB port.
2. Plug the A end of the cable into any available USB port on the UF-220.

**Note:** If you install a USB 1.1 peripheral, the entry for its driver on the *Device Manager* page will show an exclamation point in front of it. This is only because the peripheral isn't 2.0. There isn't a problem, and the entry can be disregarded.

##### IEEE 1394 (FireWire) Peripherals:

1. Plug either end of the peripheral's IEEE 1394 cable into its IEEE 1394 port.
2. Plug the other end of the cable into any available IEEE 1394 port on the UF-220.



#### TROUBLESHOOTING

**Note:** If you are experiencing problems, first make sure that there are no problems with the cables, and that they are all properly connected.

Problem	Cause	Action
Unit Operates Erratically	Static electricity may cause the unit to operate erratically.	Unplug the appropriate USB or FireWire cable from the UF-220's port, then reinsert it.

#### SPECIFICATIONS

Function	Specification
Ports	1 x Type A Internal
	2 x Type A External
Transfer Rate	1 x 6 pin - Internal
	2 x 6 pin - External
OS Support	1.5 / 12 / 480 Mbps
	100 / 200 / 400 Mbps
Weight	Windows XP; Windows 2000; Windows Me; Windows 98SE
	95 g
Dimensions (L x W x H)	167 x 120.41 x 21.5 mm

#### LIMITED WARRANTY

IN NO EVENT SHALL THE DIRECT VENDOR'S LIABILITY EXCEED THE PRICE PAID FOR THE PRODUCT FROM DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THE PRODUCT, DISK, OR ITS DOCUMENTATION.

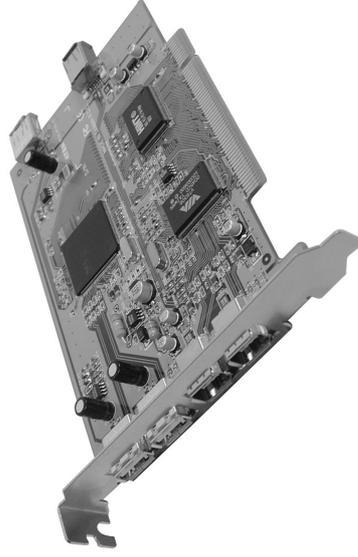
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The direct vendor also reserves the right to revise or update the device or documentation without obligation to notify any individual or entity of such revisions, or update. For further inquiries, please contact your direct vendor.



# USB-FIREWIRE HOST CONTROLLER

USB 2.0



## USER MANUAL

# UF-220

Read this manual thoroughly and follow the installation and operation procedures carefully to prevent any damage to the unit, and/or any of the devices connected to it.

This package contains:

- 1 UF-220 Combo Card
- 1 Driver CD
- 1 User Manual

If anything is damaged or missing, contact your dealer.

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**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Subpart J of Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.



## OVERVIEW

The UF-220 is a PCI card implementation that brings the two new industry standards for peripheral data transfer to older PCI computers. It provides two external and one internal USB 2.0 ports, as well as two external and one internal IEEE 1394 (FireWire) ports, and has the intelligence to handle devices for both bus types simultaneously.

By combining both USB and IEEE 1394 in a single unit, you can have the best of both worlds. For example, you can capture and edit the output from a DVD camera connected to a FireWire port at the same time as you work with a keyboard, mouse, printer, or disk drive connected to your USB ports.

The internal ports are provided specifically for connecting internal devices, such as removable media drives, CD-ROM, DVD, and hard disk drives, etc. For both USB 2.0 and FireWire, the UF-220 supplies power from the PCI bus if a connected device doesn't have its own source of power.

With all six ports always active, the UF-220 is perfect for anyone who wants to enjoy the benefits of the latest bus technologies regardless of what bus-type peripheral he wants to connect.

## FEATURES

### IEEE 1394:

- Hot Pluggable for all 1394/1394a devices
- IEEE 1394, IEEE 1394a Compliant
- Supports transfer speeds of up to 100, 200, and 400 Mbps; automatically switches to the highest supported speed
- Two external/one internal 6-pin IEEE 1394 sockets

### USB:

- Hot Pluggable for all USB devices
- USB 2.0 Compliant
- Supports transfer speeds of up to 480 Mbps - 40 times faster than USB 1.1; automatically switches to the highest supported speed\*
- Fully forward and backward compatible
- Two external/one internal Type A USB sockets

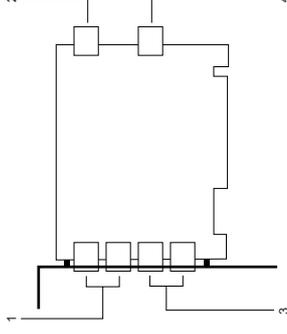
\* Transfer speeds of up to 480 Mbps can only be obtained with USB 2.0 driver support.

## SYSTEM REQUIREMENTS

- Windows XP, Windows 2000; Windows Me; or Win98 SE
- An empty PCI slot on the system

## PORT LAYOUT

1. External USB Ports
2. Internal USB Port
3. External FireWire Ports
4. Internal FireWire Port



## INSTALLING THE CARD

Install the UF-220 in the computer's expansion card area in the same way you would install any other expansion card. See your computer's User Manual for details, if necessary.

## WINDOWS DRIVER INSTALLATION

### Windows XP:

Windows XP has native USB driver support. If USB 2.0 drivers aren't already installed in your computer, get them by clicking the **Start** button, and then selecting **Windows Update**.

### Systems prior to XP:

1. When Windows boots up it detects the UF-220's presence and the New Hardware Wizard appears; Click **Cancel** to close the New Hardware Wizard.
2. Insert the driver disk that came with your product into your CD drive and wait for autorun to display its contents.
3. Open the folder for **USB 2.0 Host Controller Driver (NEC)**; open the folder for the UF-220; open the folder for your version of Windows.
4. Double Click the driver icon. The drivers are now copied to your system.
5. After the drivers have been copied to your hard disk, a dialog box appears confirming that the installation has finished. Click **Finish** to reboot your computer and complete the installation.