

Ethernet Interface Adapter Kit includes the following:

- Ethernet Module (iPort™ PT1000)
- 110/220V AC/DC Power Converter with outlet plug
- Interface Cable

Note: Running the Ethernet Module with a PC requires application software, and depending on your data-rate requirements, may need a specific network adapter and device drivers. These drivers are supplied with the software (ie. ResearcherPro 2.8) and should be installed and configured for high-performance data transfer (see below). Phoenix is recommended to be used with the Intel Pro/1000 network card, but Merlin or Omega will run using a (non-Intel non-Gigabit) standard Windows network interface card. Analog Video output from the Ethernet Module is only available with an Omega camera.

1. Connect the Ethernet Module to the camera via the interface cable. Be sure to connect both the serial I/O and the 68-pin to the correct camera connections(Merlin and Phoenix ONLY).
2. Apply power to the camera and then the Ethernet Module.
3. Connect a standard ethernet cable (CAT-5) between the Ethernet Module and the PC. You may use either a direct-cable (crossover) connection or use a networking switch (Gigabit recommended) to get connectivity.
4. Install the application software, and optionally custom (High-Performance) drivers.

Intel Pro/1000 NIC Users follow steps 5-7:

Note: Installing the provided custom driver on an Intel Pro/1000 MT removes that NIC from general Windows networking, and dedicates it to High-Performance Gigabit Ethernet. Therefore, it is recommended that you have an additional network card for standard Windows networking. If you have only one network card in the system, and want to preserve the Windows networking connectivity, please skip steps 5-7.

5. Update the NIC to use the iPort™ driver. Bring up the Control Panel(“Start→Settings→Control Panel”). Select “System”. Choose the “Hardware” panel and select the “Device Manger” as shown in Figure 1 below.

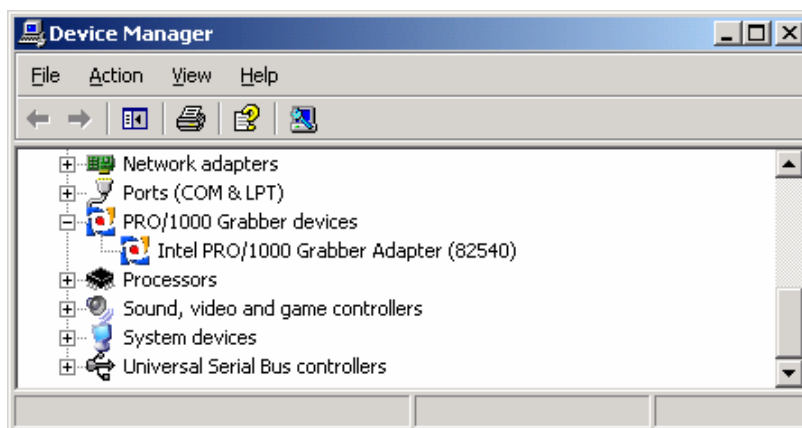


Figure 1 – Windows Device Manager

6. Find the “Network Adapters” and expand the list. Double-click on “Intel Pro/1000 MT” or equivalent. Select the “Driver” panel and choose “Update Driver”. Do step 7 to install the High-Performance driver.
7. Follow the instructions to find and select the custom “pro1000.inf” driver. You will find this driver either in the Application directory, or in “C:\Program Files\Indigo PT1000-IDG\Drivers” in the case of the SDK being installed. Reboot if prompted to do so.

Device Manager list will report the network adapter as an “Intel Pro/1000 Grabber Adapter” under the “Pro/1000 Grabber Devices.”

Double-click the “Intel Pro/1000 Grabber Adapter” entry to configure network IP addresses as shown in Figure 2a and 2b below:

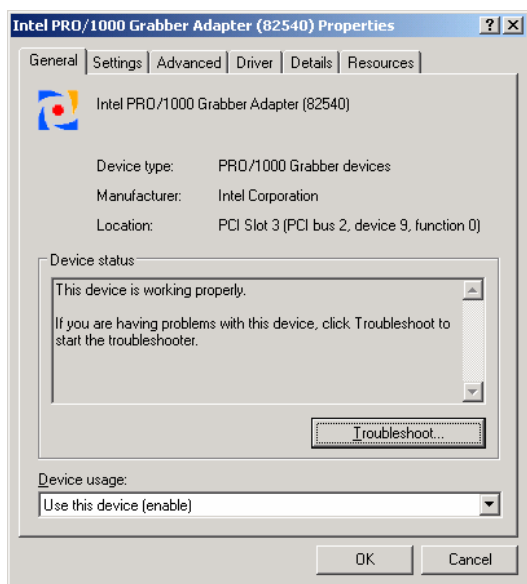


Figure 2a

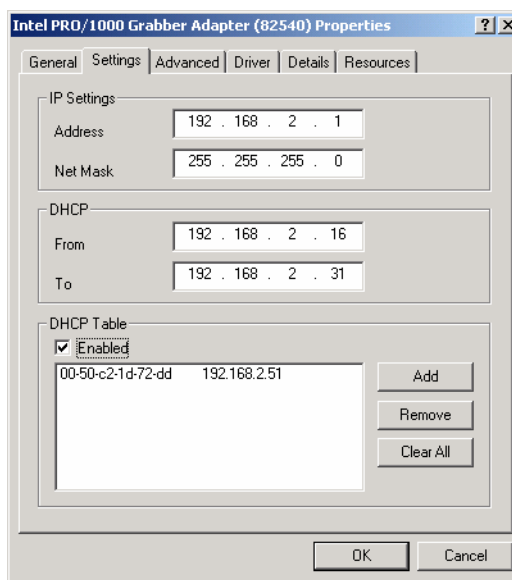


Figure 2b

Setting entries in the DHCP Table section will allow iPorts to automatically obtain IP addresses using BOOTP. Otherwise, you can use the following Network Device Finder dialog (Figure 3) to manually set an appropriate IP address to the iPort.

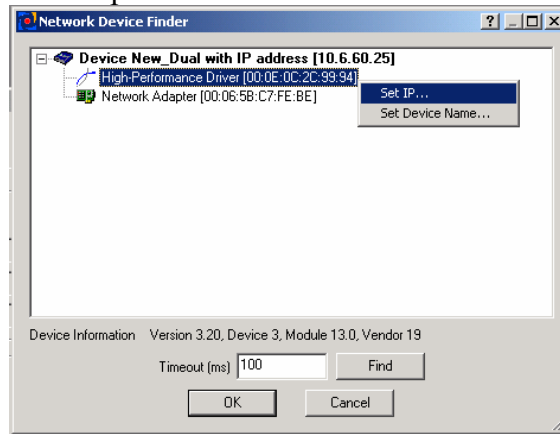


Figure 3

Right-click on the adapter entry (that also indicates the correct network path) to give the iPort a name and/or set an IP address.

Note: Running a Merlin and Omega camera is possible with either the Intel Pro/1000 with High-Performance driver, or a standard (non-Intel) network interface card. When using a standard network card or with multiple Ethernet Modules the user must configure settings for the network adapter, including its IP address and network subnet mask. Please consult IT help if you are not sure about setting IP addresses and subnet masks.

8. Follow instructions to choose the camera type and run the application (ie. Researcher Pro 2.8).

Troubleshooting Tips:

1. Make sure that your Network Interface Card (NIC) and the iPort are on the same subnet, and that they have IP addresses distinct from other networking devices. If unsure, please contact your IT personnel for networking help.
2. iPorts lose their IP addresses and internal frame grabber parameters when power-cycled. You can use one of the following methods to ensure an IP address is re-assigned after a power-cycle.
 - a. Manually set an appropriate IP address by using Network Device Finder before each use.
 - b. Use the “DHCP Table” in the High-Performance driver indicated above to automatically set the iPort IP address upon power-up. Note: In this case the PC acts as a BOOTP server.
 - c. Install or make use of a BOOTP server on the network (contact your IT support for help with configuring a BOOTP server).

Contact Customer Support if you cannot initiate communication with the camera after verifying these items.

