



QImaging FireWire Camera

Installation Guide

This document will guide you through the steps required for the installation of your QImaging MicroPublisher and QICam camera(s) in order to make it work with the Clemex application software for version 7.0.



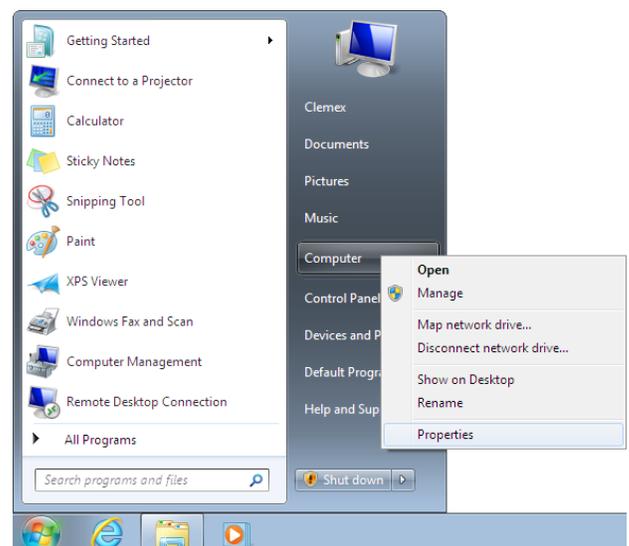
Prerequisite:

- 1) Your computer must be running on Windows 7 32-bit or 64-bit.
- 2) The Clemex software must be installed before installing the camera.
- 3) Your computer must have **FireWire (IEEE 1394)** ports on your computer. If your computer does not have FireWire ports, you will need to buy and install an IEEE 1394 PCI card with an internal power connector. The internal power connector is highly recommended for high-powered FireWire camera devices.
- 4) For more information on 12V powered FireWire, refer to Annex A. The user installing the camera must have administrative privileges on the machine.

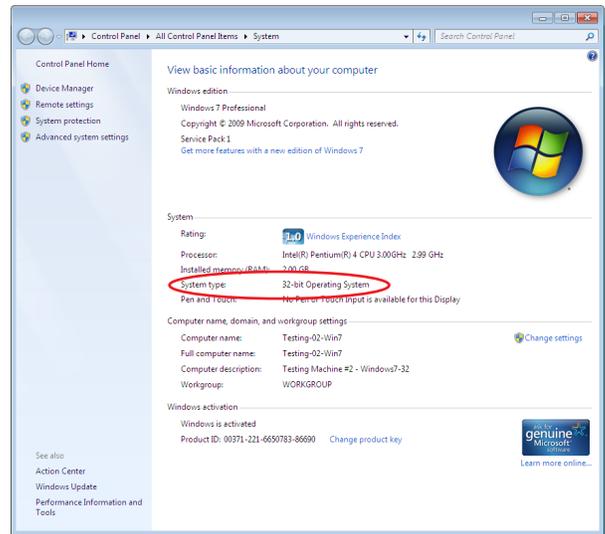
1. Determination of Windows 7 system type

1.1 Before installing the drivers, you need to know if your computer is using a 32-bit or 64-bit version of Windows 7.

1.2 Open the Start menu. Locate the item called *Computer*. Right-click on this item and select *Properties*.



The System information window will appear. In the *System* section, under *System Type*, note if the system is 32-bit or 64-bit. Close the window once you have the information.

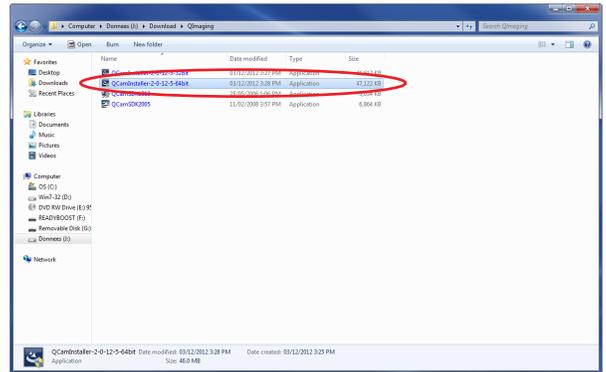


2. Camera Driver Installation

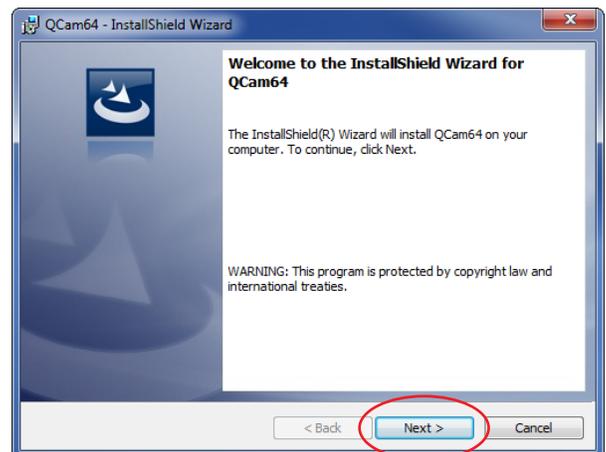
(Note: The screen grabs below refer to the 64-bit version of the drivers. If you are using a 32-bit system, the windows will refer to *QCam32* instead of *QCam64*; otherwise the process is identical.)

2.1 If the camera is connected to the computer, disconnect it now.

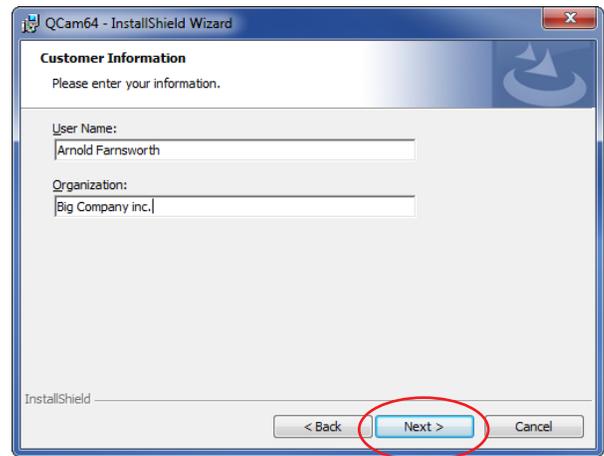
From the Clemex software installation disk, go to the **Drivers\QImaging** folder. If you are using a 32-bit version of Windows 7, double-click on the application called **QCamInstaller-2-0-12-5-32bit**. If you are using a 64-bit version of Windows 7, double-click on the application called **QCamInstaller-2-0-12-5-64bit**.



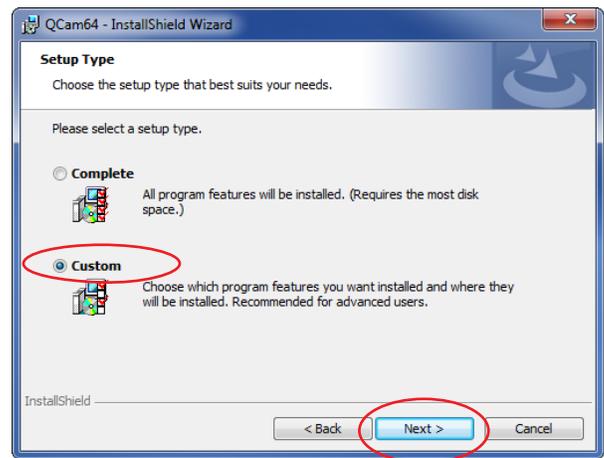
2.2 The **InstallShield Wizard** window will appear. Click **Next** to begin.



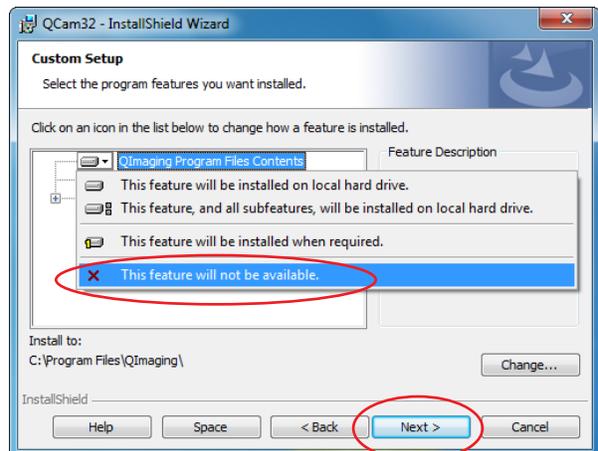
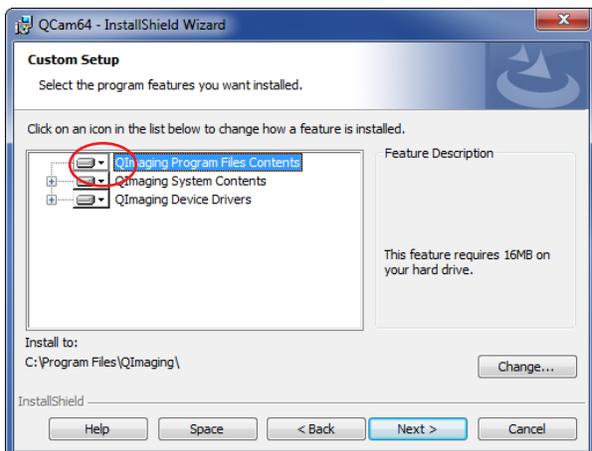
2.3 Enter your name and the name of your organization, then click **Next**.



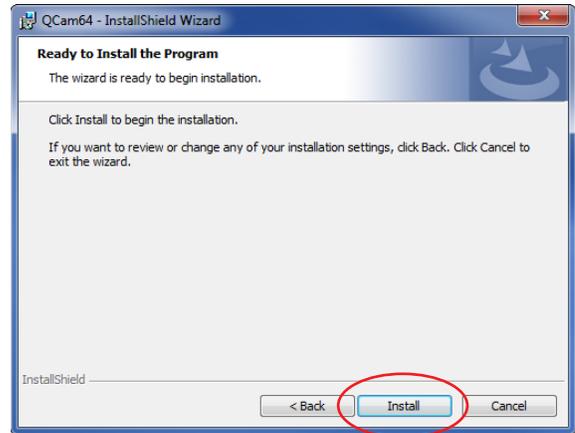
2.4 When asked to select a setup type, select **Custom**. Then click on **Next**.



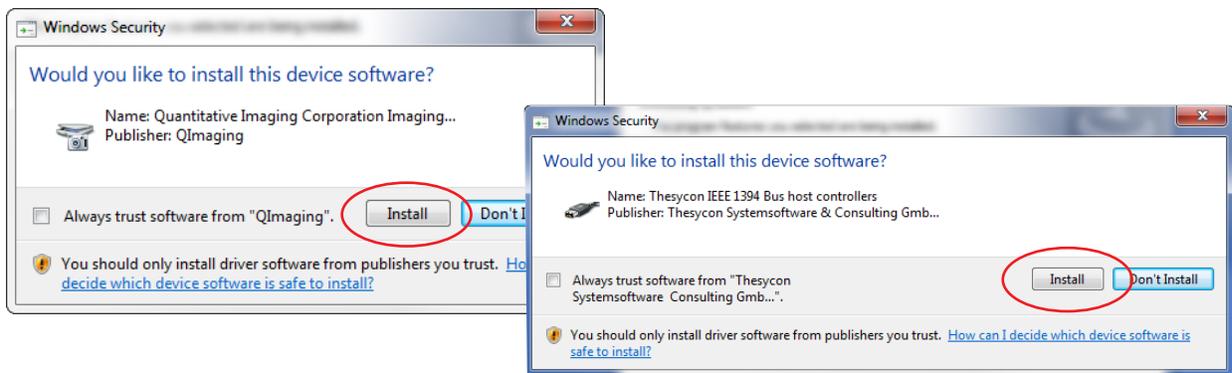
2.5 The Custom Setup window will appear. Click on the **down-arrow** next to the first feature (*QImaging Program Files Contents*). A pop-up menu will appear. Select **This feature will not be available** and click **Next**.



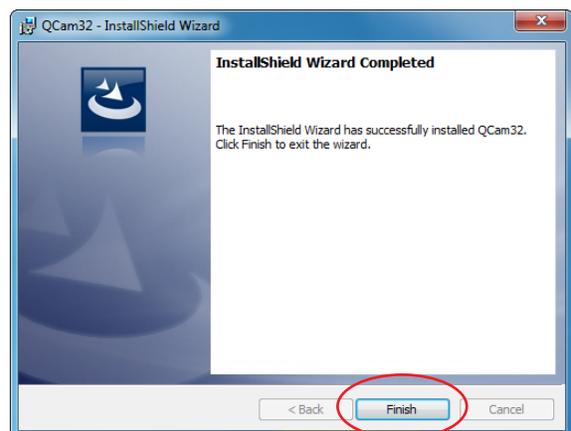
2.6 The InstallShield Wizard is now ready to begin installation. Click on **Install**.



2.7 You will see a few Windows Security confirmation windows appear; click **Install** in each one.

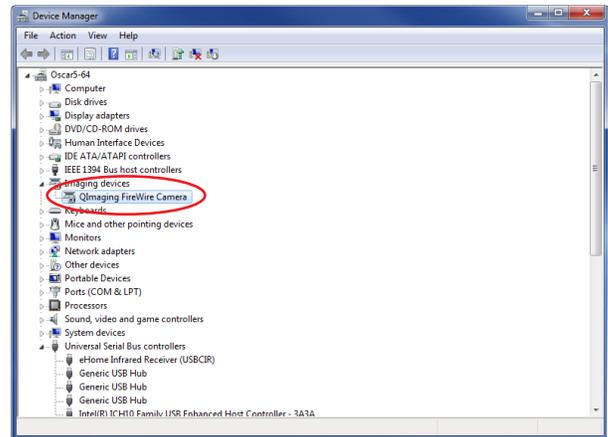


2.8 Once all drivers have been installed, a message will state that cameras can be plugged in after driver installation. Click **OK**. Another message will confirm that the installation process is finished. Click on **Finish** to close the installer.



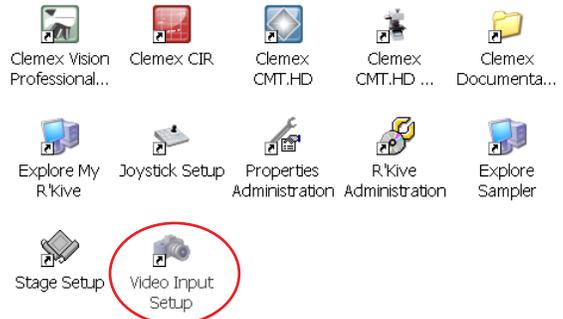
You may connect the camera to the computer at this point, and turn it on if it has a power switch.

Windows will install the driver silently and will not display any information about the new device. If you want to confirm that Windows has recognized the camera, you can open the Windows Device Manager. The camera should appear under *Imaging Devices*. The camera icon should not have any warning or error indicator.



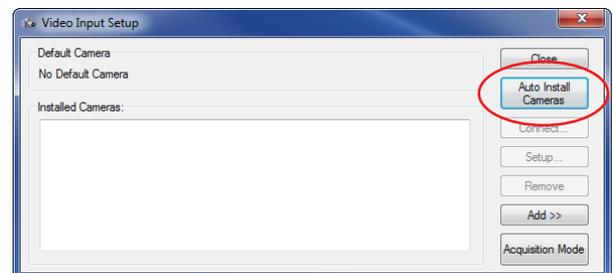
3. Open the **Video Input Setup** program which can be found in the **Clemex Image Analysis** folder on your desktop.

The **Video Input Setup** utility lets you install your camera so that it is recognized by your Clemex image analysis software application. The camera can be automatically (steps described in section 4) or manually (steps described in section 5) installed. The automatic installation is the recommended way to install the camera, but the manual installation is there if you encounter problems when installing it automatically.

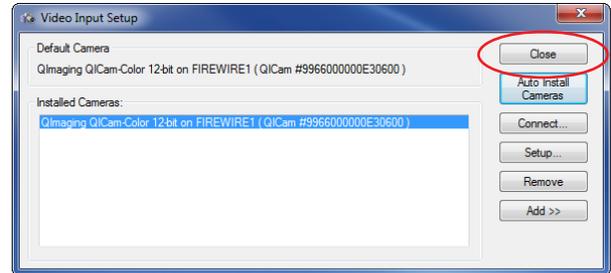


4. Automatic Camera Installation

- 4.1 In the **Video Input Setup** window, click on the **Auto Install Cameras** button.

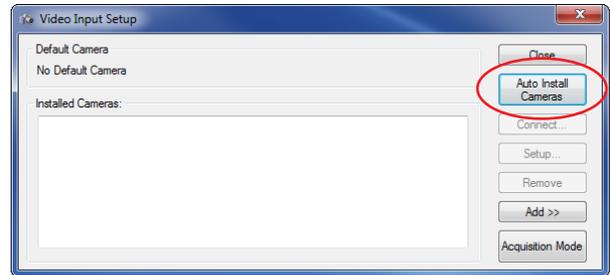


4.2 The **Video Input Setup** utility will automatically detect your QImaging camera. The detected QImaging camera will either be a MicroPublisher model (as displayed here) or a QICam model. Click the **Close** button to accept the installation and quit the utility. Ignore the following section and jump directly to step 6.

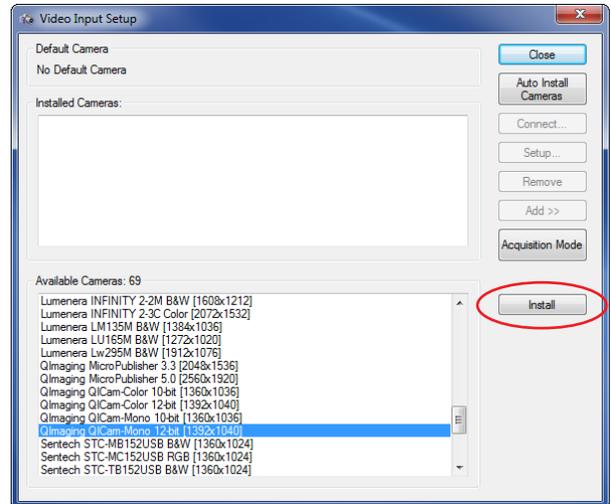


5. Manual Camera Installation

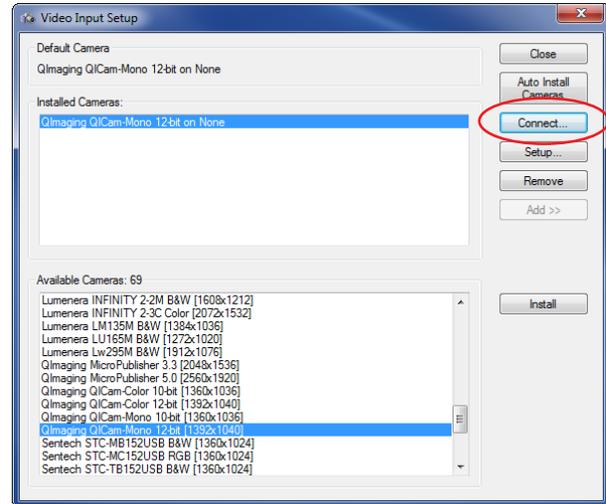
5.1. In the **Video Input Setup** window, click on the **Add** button.



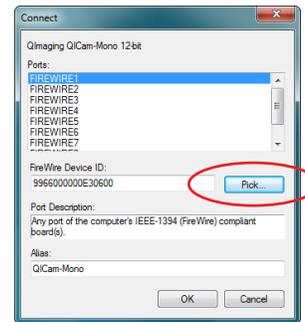
5.2 From the list box of available cameras, select the QImaging camera model that you have. Click on the **Install** button.



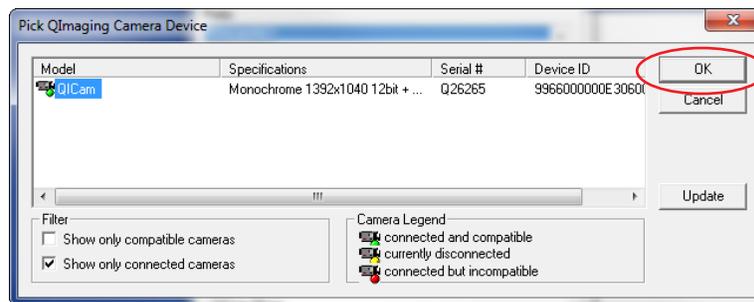
5.3 Click on the **Connect** button. The **Connect** window will appear.



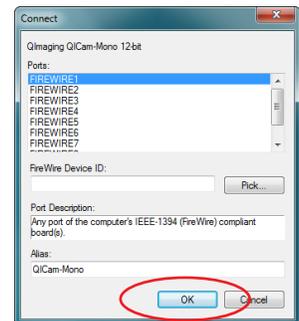
5.4 In the **Connect** window, click **Pick**. The **Pick QImaging Camera Device** window will appear.



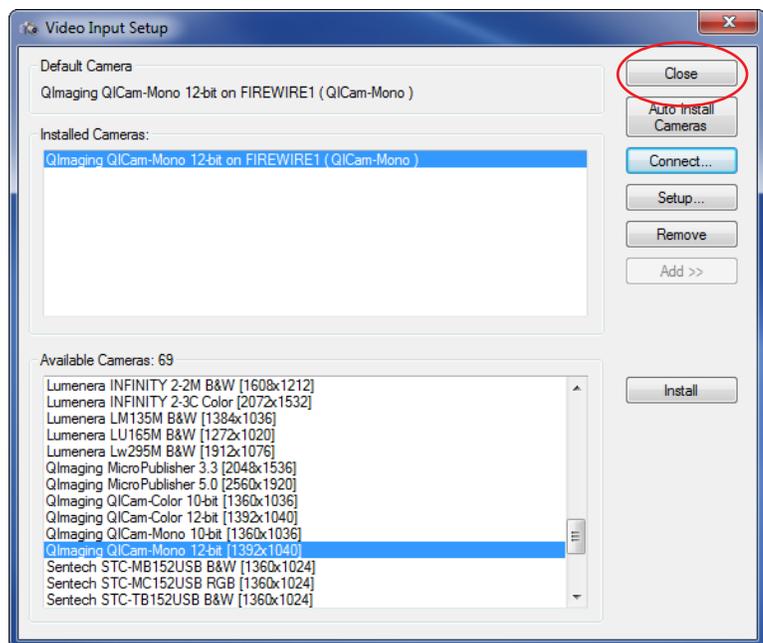
5.5 Choose the QImaging camera (MicroPub model is displayed here) from the list of cameras and click **OK**.



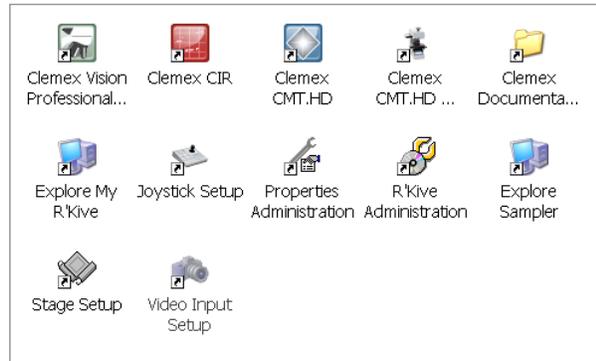
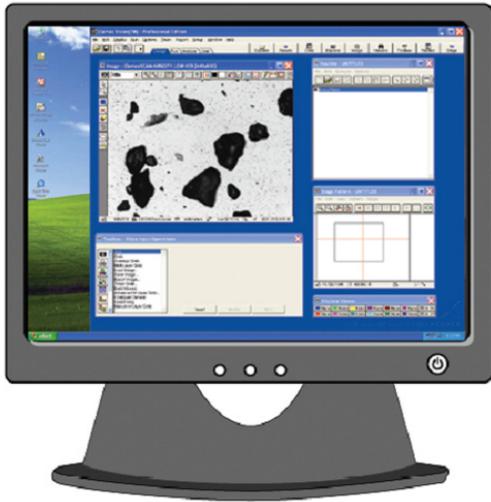
5.6 In the **Connect** window, click **OK**.



5.7 In the **Video Input Setup** window, click **Close**.



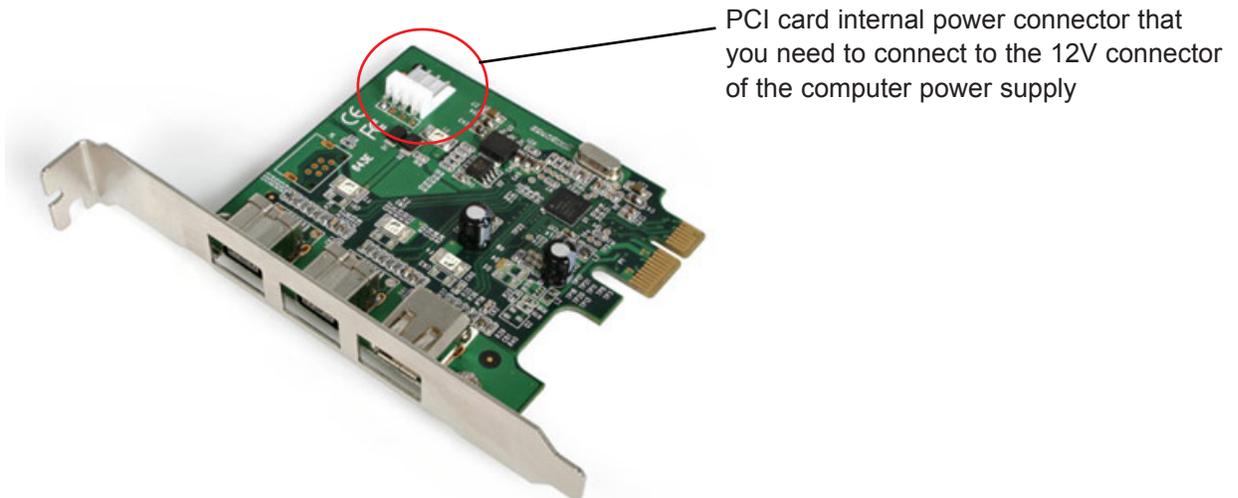
6. Run the Clemex software by double-clicking on the appropriate icon (Clemex Captiva, Clemex Vision Lite, Clemex Vision PE, Clemex CMT.HD, or Clemex CIR) in the **Clemex Image Analysis** folder on your desktop.



Annex A –FireWire Power Injection

When using high-powered FireWire devices, like a digital camera, it is highly recommended that your FireWire hubs be alimented from an external power source. Newer computers that are energy efficient are sometime not giving enough power to the FireWire ports resulting in camera that cannot be connected or that receive no or bad signal.

To circumvent this problem, you have two choices. If you have a free power connector on your computer power supply or motherboard, you can use a computer PCI or PCI Express card with an internal 12V power connector. An example of such a card is displayed below:



If your computer does not have a free 12V power connector, the other alternative is to use a FireWire powered cable and external power adaptor. This FireWire power injection cable will allow you to power a 6pin device from a non-powered 6pin port. An example of such a cable is displayed below.



