PCI LVDS Driver Install, V37 Firmware Upgrade and PCIe LVDS Card
Standard PCI LVDS Card
Examples below in Win 7 – 32-bit. **(PCI card only supported on 32-bit platforms)**

If using the new PVCAM camera driver, PVCAM 2.9.3 or higher is available on the Photometrics website. The PCI card driver will not load automatically:
You will need to manually install the PCI driver from this path:

Right click on ‘MultiMedia Video Controller’ in Device Manager and Update driver software
Select: Browse my computer for driver software
Click on ‘Browse’
program files\ photometrics\ pvcam32\ drivers\ pmwdm\n
(Note: this does not apply to lower legacy versions of PVCAM – PVCAM 2.8.0 and below. The driver will automatically install for you.)
Once install is complete, you will see Photometrics PCI Camera
PCI card Firmware (applies to Standard PCI LVDS card)

Only supported on 32-bit platforms

Firmware upgradeable to V33 and this .hex file is included with the PVCAM camera Driver included.

File location is in the Photometrics directory for PVCAM Versions 2.7.9.1 32-bit up to and including PVCAM 2.9.11 32-bit.

First determine the current firmware on the PCI card by running `InstallFirm` found at this location:

C:\Program Files\Photometrics\PVCam32\utilities\FirmwareUpdater

The .hex file called PCIROM33.hex is found in the folder noted above.
Why upgrade to V37?
*(only available on PCI 32-bit LVDS cards only.)*

With newer CPU architectures emerging, faster computers including multi core or multi processor computer systems

You may see:
- Time lapse issues
- Image tearing
- Drop in communication
- Dropped frames
- Lags in operation

Other issues may be non-trivial problems after moving to a new faster computer.
Upgrades are done through the Customer Service Department, the PCI card will have to be sent in for the upgrade.

Please note the following: The 5933 Matchmaker chips are not upgradable and will not accept the V37 firmware. (5935 are upgradable to V37). The matchmaker chips are the big quad flap-pack IC’s on the PCI board..... you will need to verify this visually. If you have a card that is not upgradable, then a new card is required. Please also note that there have been cases where the PCI would not accept the new firmware update due to the outdated electronics OR will not work with the faster processor and so a new PCIe LVDS Card would then have to be purchased.
PCIe LVDS Card (PCIe = ‘e’ refers to Express)
Key Points:

Photometrics has released a 32-bit/64-bit compatible PCIe LVDS card.

PCIe LVDS interface card will provide 64-bit support for current Photometrics LVDS-based cameras.

Note also the New LVDS 64-bit card is PCIe.
Key Points (con’t):

Extends the lifetime of existing Photometrics (non-firewire) cameras by providing full support for newer and more current computer systems.

You will also need the new PVCAM camera driver, PVCAM 2.9.3 or higher available on the website for free download and use: http://www.photometrics.com/support/downloads/
Key Points (con’t):

Will need to connect power from PC power supply to PCIe card. Card has an IDE connector for power connection. Y- Cable and/or sata to IDE adaptor may be required and is also included with the card shipment. See picture.
Once install is complete, you will see WDF Driver for Photometrics PCIe Camera/Boards
Key Points (con’t):

New PCIe card **does not** have status LED’s. Remember the Frame led, Bus Master led, Transmit led & Receive

No firmware to upgrade. i.e.: V33 or V37

Bus Support – verify with computer spec’s the bus is wired the same:

- PCI express x1 only supported
Customer Service teams are available to help you

http://www.photometrics.com/support/

http://www.qimaging.com/support/
Thank You