

Quick Start Guide for Lumenera USB 2.0 Cameras

Thank you for purchasing a Lumenera USB 2.0 camera. This camera is designed to operate straight out of the box. Follow the steps below for a quick and easy installation.

Required Tools and Parts:

Computer:

- 600 Mhz or above Pentium compatible processor
- 256 MB RAM memory
- USB 2.0 Port

Operating System:

- Windows 2000 (Service Pack 4), or
- Windows XP (Service Pack 2)
- Windows Vista (32-bit)

Lens:

- C-Mount (standard) or CS-Mount (optional) lens with proper optical format for your camera's sensor

Power Connections for Lu-Based Cameras (Orange LED):

- 6 V DC regulated
- 800 mA min. current
- 2.1 mm tip, center positive

Power Connections for Lw-Based Cameras (Green LED):

- 5 V DC regulated
- 500 mA min. current
- 2.1 mm tip, center positive

Camera Set-up and Installation:

Step 1 – Install 3rd party USB 2.0 PCI add-in card if your computer does not have a USB 2.0 port already. If you have purchased a developers kit and are using the supplied USB 2.0 PCI add-in card, the drivers are built-in when using Windows XP with Service Pack 2. Windows 2K users should first upgrade to Service Pack 4, and then go to the Windows upgrade site (<http://windowsupdate.microsoft.com>) to obtain the USB 2.0 host controller drivers. Win98SE users should contact technical support for current drivers before proceeding.

Step 2 – Install camera software from the enclosed CD-ROM before connecting the camera to the computer. Insert the Lumenera Installer CD-ROM into your CD-ROM drive. The installer application should start automatically. If it does not, open a Windows Explorer window, locate the installer application on your CD-ROM drive and start it manually by double-clicking on the application. Follow the onscreen prompts to install the software drivers and user application.

WARNING

Observe the following to ensure smooth installation of camera software:

- You must ensure you are logged into the computer with administrator privileges prior to installing the camera software.
- Close all application software that is running and before inserting the Lumenera Installer CD into your CD-ROM drive.
- Do not connect the camera to the computer before installing the camera software.

Step 3 – Connect the power supply to the camera if one was provided with your camera. Be sure to verify that your power supply meets the following requirements:

Camera	Lu-Based Camera (Orange LED)	Lw-Based Camera (Green LED)
Voltage	6 V DC regulated	5 V DC regulated
Current	800 mA minimum	500 mA minimum
Connector	2.1 mm tip, center positive	2.1 mm tip, center positive

WARNING

- Using an incorrect power supply may damage the camera and void the warranty.

Step 4 – Connect the supplied USB 2.0 cable to the camera and a free USB 2.0 port on your computer.

The Windows New Hardware Wizard will pop-up detecting a new “Lumenera Unconfigured Device”. Select “Install the software automatically” from the options that are presented to you and click *Next*. A warning may appear notifying you that the drivers have not been digitally signed by Microsoft. Click *Continue Anyway* to continue with the driver installation. Then click *Finish* to install the drivers.

After a few seconds the Windows New Hardware Wizard will pop-up again (if it doesn't, unplug and re-plug the camera), detecting a “Lumenera USB 2.0 Camera” device. Select “Install the software automatically” from the options that are presented to you and click *Next*. A warning may appear notifying you that the drivers have not been digitally signed by Microsoft. Click *Continue Anyway* to continue with the driver installation. Then click *Finish* to install the drivers.

WARNING

- You must ensure you are logged into the computer with administrator privileges prior to installing the camera software.
- Do not connect the camera to the computer before installing the camera software that is on the included CD-ROM. See Step 2 for more details on how to install this software.

IMPORTANT

Windows will ask you to re-run these steps each time you plug the camera into a **new** USB 2.0 port. You must have administrator privileges the first time the camera is used on any given USB 2.0 port. You may wish to repeat these installation steps at this time for all USB 2.0 ports on your computer.

Step 5 – If prompted, restart your computer. Once you have installed all the software you can run the camera applications from the Windows Start Menu.

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PRODUCT WARRANTY

Lumenera Corporation warrants to the original purchaser that our cameras are guaranteed to be free from manufacturing defects for a period of one (1) year from the original date of purchase.

Should the unit fail during the warranty period, Lumenera will, at its option, repair or replace the failed unit. Repaired or replaced units will be covered under warranty for the remainder of the original one (1) year warranty period.

This warranty does not apply to units that, after being inspected by Lumenera, have been found to have failed due to customer abuse, accidents, mishandling, tampering/alteration, improper installation, improper power source, negligence, opening of the enclosure, or if the serial number has been removed or damaged. This warranty does not cover labor or incurred charges required in removing or installing the unit, any business interruption, loss of profits/revenues, or any consequential damages.

Units returned to Lumenera beyond the warranty period will be repaired, if possible, and all appropriate material and labor charges will apply.

Any returning product, specifically those being returned under warranty, must follow the Returned Material Authorization (RMA) process. Any units being returned are to be properly packaged (in original packing - if possible). Lumenera will not cover damage sustained in shipping due to improper packing.

For RMA instructions please refer to our website at www.lumenera.com.