



## 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:

- 1.0 Ghz Pentium III or higher (compatible)
- 512 MB RAM (min), 1GB or more (recommended)
- USB 2.0 Port

#### Operating System:

- Windows 10, Windows 8.1, Windows 7
- 32 and 64-bit platforms are supported

#### Lens:

- C-Mount (standard) or CS-Mount (optional) lens with proper optical format for the sensor
- Large format cameras require Canon EF series lens (Lw11059, Lw16059 and Lm11059) for a 35mm-sized sensor, a Nikon F-mount (Lw11057), or Pentax K-mount (Lw11058)

#### Notes:

- A USB 2.0 or USB 3.0 port is required. The camera will not work on a standard USB 1.1 port
- Over-voltage is not covered by warranty – correct voltage is always printed on the camera

#### External power for camera models with Orange LED

- 6V DC regulated
- 800 mA minimum current
- 2.1 mm tip; center positive

#### External power for camera models with Green LED

- 5V DC regulated
- 500 mA minimum current
- 2.1 mm tip; center positive

#### External power for specific models (Green LED):

Lw11059, Lw11057, Lw11058, Lw16059, Lm11059

- 12V DC regulated
- 2A minimum current
- 2.1 mm tip, center positive

#### External power for Lu176 - Orange LED

- 9V DC regulated
- 500 mA minimum current
- 2.1 mm tip; center positive

### Camera Set-up and Installation:

**Step 1 — Install a 3rd party USB 2.0 PCI add-in card** if your computer does not already have a USB 2.0 port.

**Step 2 — Download the Installation package** from the Lumenera web site (<http://www.lumenera.com/support/downloads/industrial-downloads.php>) before connecting the camera to the computer. Run the downloaded executable, after first verifying the important steps below.

**Important** - 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 CDROM 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). The majority of the Lu and Lw-based camera models will operate using the 5V power on the USB 2.0 bus and do not require a separate DC power supply. Be sure to verify your power supply requirements with the label printed on the camera. Refer to the table above for guidelines.

#### **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 to an available free USB 2.0 or 3.0 port on your computer.**

**Windows** users, the detection of new hardware and the identification of the necessary device drivers is performed behind the scenes. It is typical to see a notification balloon appear in the lower right corner of the screen to indicate that the device drivers are being loaded. This operation typically takes less than a minute to complete. When the LED illuminates on the back of the camera, the device drivers are loaded and the camera is ready to use.

## **IMPORTANT**

Windows will ask you to re-run these steps every 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 for all USB 2.0 ports on your computer in your initial installation.

**Step 5 — If prompted, restart your computer.** Once all of the software has been installed, the camera applications can be run 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/support/rma.php](http://www.lumenera.com/support/rma.php).