



Firmware Upgrade Instructions for the Intelligent Lens Controller within
The Visible Welding V2014-Z camera
June 2014

- 1) Download the update ZIP file to a Windows computer
 - a. (e.g. "Upgrade.v2.60..2014-Z.Lens.zip")
 - b. If you are blocked from downloading zip files, download "Upgrade.v2.60..2014-Z.Lens.zzz" and rename it to Upgrade.v2.60..2014-Z.Lens.zip after it arrives.
- 2) Unzip the zip file to the desktop or your favorite temporary folder
- 3) Run XLoader.exe. A small GUI, as shown below in Fig 1. will appear.
- 4) Insert the name of the hex file e.g. VWIR2014_LensControl.v.2.60.hex
- 5) Select Device: Duemilanove/Nano(ATmega328)
- 6) COM port : this will vary by PC depending on previous USB devices.
 - a. It can be chosen by trial and error until one works or you can observe which com port appears and disappears as the camera lens is plugged into and removed from the PC's USB port.
- 7) Baud rate: 57600
- 8) Click "Upload" button.
 - a. The word, "Uploading..." appears in the lower left corner. (see Fig 2)
 - b. After a minute or two, it should finish with a byte count appearing in the lower left corner (see Fig 3). The value may vary from version to version.
- 9) To reset the camera, unplug the USB cables and re-connect
- 10) This ends the update process.

Figure 1: Xloader ready to click the “Upload” button

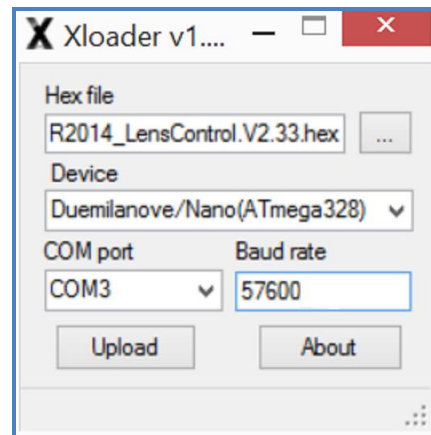


Figure 2: Xloader with load in progress. The word, “Uploading...” appears in the lower left.

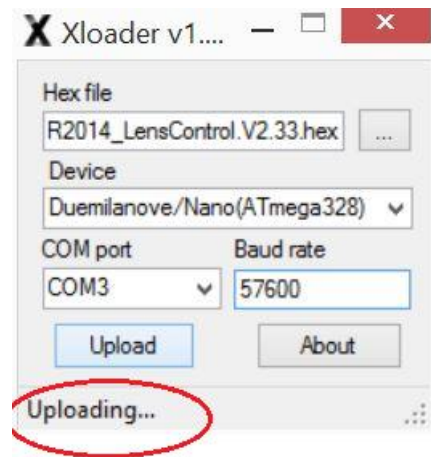


Figure 3: When finished, a byte count will appear at the bottom of the GUI. The actual byte count may vary by version.

