



Quick Start Guide for LAS X Life Science Software

IQS004- Rev 03

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1 Integrated CoolLED Products:

- pE-800 Series (pE-800 and pE-800^{fura})
- pE-400^{max}
- pE-300^{white} and pE-300^{ultra}
- pE-340^{fura}

2 Setting up your CoolLED Illumination System COM Port via USB:

If using the pE-800 Series or pE-400^{max} and Windows 10, please move directly to Section 3, since the pE-Driver is not required (Windows automatically detects the hardware and installs the driver).

For Windows versions pre-dating Windows 10, or if using any other compatible Illumination System, the CoolLED pE-Driver is required and the PC configured as follows:

1. Download the CoolLED pE Driver file from the CoolLED website:

<https://www.coolled.com/support/imaging-software/#coolled-pe-driver>

N.B. This is a general driver for Windows and all USB controlled CoolLED Illumination Systems, and the pE-800 Series when using Windows operating systems earlier than Windows 10.

2. Save the files to a memorable location.

3. Connect the CoolLED Illumination System and switch on. When the driver required warning (yellow exclamation mark) appears, right click and 'update' the driver, pointing it to the .inf file in the previously downloaded driver folder.
4. Check the Virtual COM ports assigned by navigating to Device Manager (Start -> Control Panel -> System Management -> System -> Hardware -> Device Manager). The CoolLED Illumination System should be listed under 'Ports' (COM & LPT):

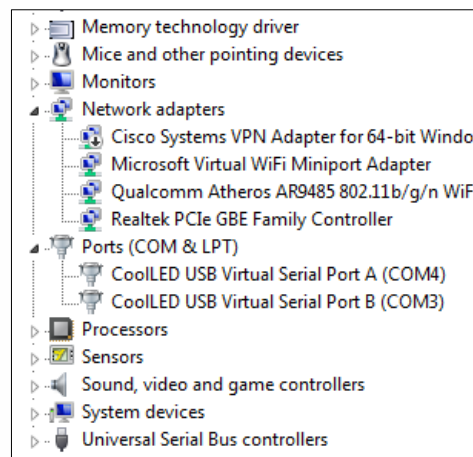


Figure 1: Device Manager with CoolLED Illumination System installed

Where some products have two COM ports, either can be used for control. Two COM ports allow for multiple uses (e.g., one for controlling the CoolLED Illumination System and the other for command testing).

3 Configuring Your CoolLED Illumination System in LAS X

Leica offers comprehensive resources for installing and configuring multi-colour LED light sources.

1. In LAS X, navigate to Help > Contents (Figure 2).
2. To configure your CoolLED Illumination System, navigate to Instructions > LED light sources > Configuring LED light sources (Figure 3).

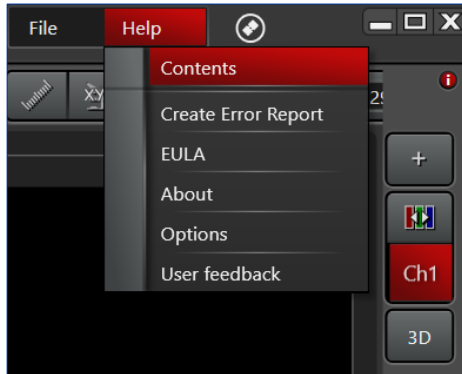


Figure 2: Help available in LAS X

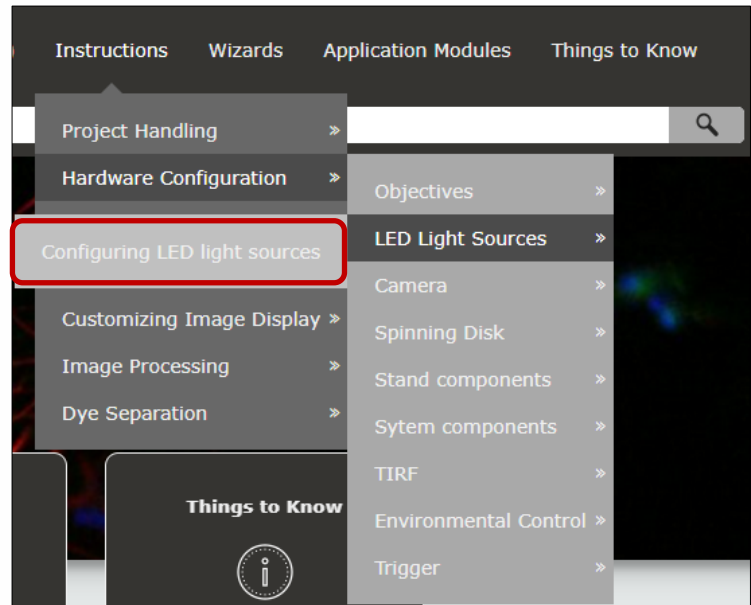


Figure 3: Where to find instructions within LAS X for configuring LED light sources (red box)

- Tutorial videos are also available to watch online: www.youtube.com/@LeicaMicrosystemsTutorials

4 Notes

- In previous versions of LAS X, CoolLED Illumination Systems were controlled via manual mode of the DMI8 microscope. The CoolLED Illumination Systems listed in '*Section 1: Integrated CoolLED Products:*', now allow basic on/off and intensity control in LAS X directly via USB control with compatible microscopes (including the DMI8 and DM6).
- For applications requiring illumination to be automated and synchronised with other components, TTL triggering is possible using the Leica Sequencer Board option. For configuration instructions, consult the relevant section in LAS X help section (Figure 4).

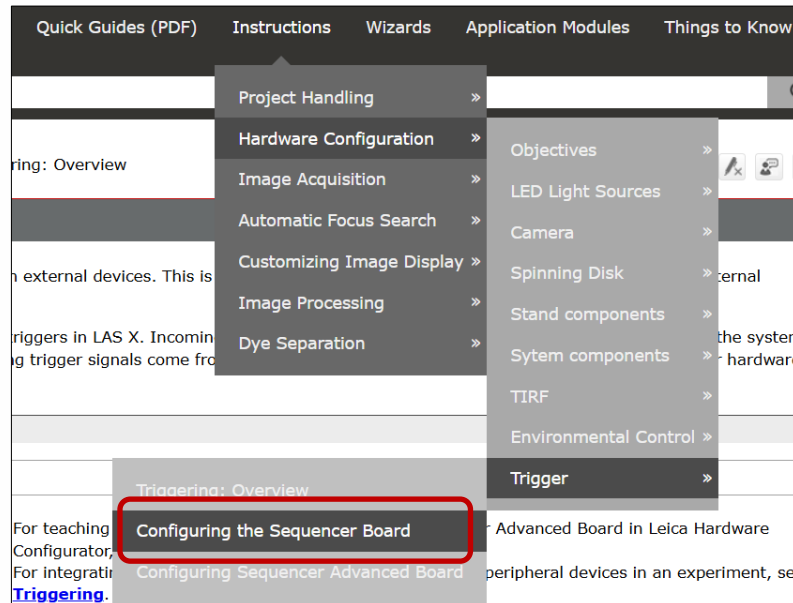


Figure 4: Instructions within LAS X for TTL triggering LED light sources with the Leica Sequencer Board (red box)

For more information, please contact
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