

Live Cell Microscopy



LS820

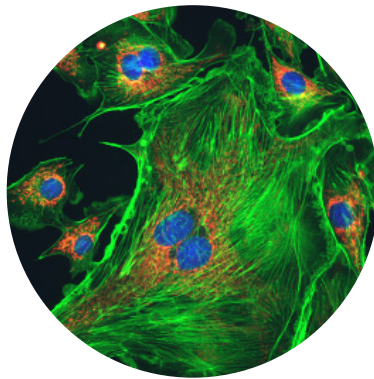
Microscope with Automated Focus

- High Resolution 3-Color Fluorescence
- Automated Focus and Z-Stacking
- Live Cell Imaging in Your Incubator

The LS820 offers walk-away automation for single FOV time-lapse with the highest quality wide field microscopy images for your research.



Live cell imaging
is our specialty



Diffraction
limited resolution



LumaViewPro application runs on
Windows, Mac, and Linux



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Lumascope model 820

The **Lumascope model 820** is a multi-channel automated inverted microscope which offers the latest advances in optics, cameras, and user flexibility. The LS820 in your incubator allows you to have a live cell imaging system that offers minimum photo toxicity and the most stable environment for long term imaging.



Uses commercial microscope objectives



Multi-mode transmitted illumination technology



Manual Stage

Features

- High performance, diffraction limited optics
- Three channel fluorescence, bright field and phase contrast
- Use in incubators, hoods, hypoxia chambers, and on the bench
- Autofocus and z-stacks to 100 nm
- LumaViewPro control application on Windows, Mac, or Linux
- Accommodates microplates, microfluidics, slides, dishes, flasks and deck-top chambers

Specifications

<i>LED Excitations</i>	405 nm, 488 nm, 589 nm
<i>Filter Set</i>	Blue: Excitation 370-410 nm, Emission 429-462 nm Green: Excitation 473-491 nm, Emission 502-561 nm Red: Excitation 580-598 nm, Emission 612-680 nm
<i>Transmitted Modes</i>	Bright Field and Phase Contrast
<i>Objectives</i>	1.25x, 2.5x, 4x, 10x, 20x, 40x, 60x, 100x, incl. oil immersion
<i>Camera</i>	High QE Monochrome CMOS BSI Sensor; 4.4 megapixel, 12-Bit
<i>Image Formats</i>	TIF, BMP, PNG, JPG
<i>Image Size</i>	100 x 100 up to 2100 x 2100 pixels
<i>Video Rate</i>	45 FPS (exposure limited)
<i>Motorized Z</i>	14 mm travel, 100 nm step, image-based autofocus, Z-stacks
<i>Control Software</i>	LumaViewPro, Multi OS control application
<i>Computer Requirements</i>	Windows 11: Core i7, 1TB SSD, 8GB RAM Mac OS: M1, 1TB SSD, 8GB RAM Linux (Debian): 1TB SSD, 8GB RAM
<i>Power Requirements</i>	100-240 V, 50-60 Hz
<i>Integration</i>	Python source under the MIT Open Source License
<i>Dimensions</i>	24 cm W x 22.6 cm D x 27.8 cm H
<i>Weight</i>	10 lbs. (5 kg)
<i>Operating Conditions</i>	4°C - 42°C, 5% - 95% RH non-condensing



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