



etaluma™  
lumascope 400

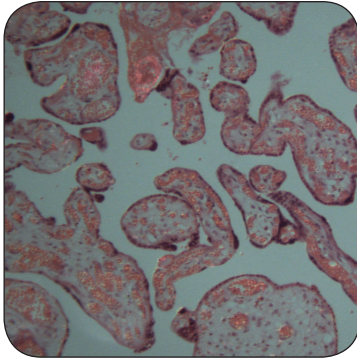
# Microscopy Simplified

High resolution, versatile and compact  
brightfield and live cell imaging



Full Color Brightfield, Optional Phase Contrast

[www.etaluma.com](http://www.etaluma.com)



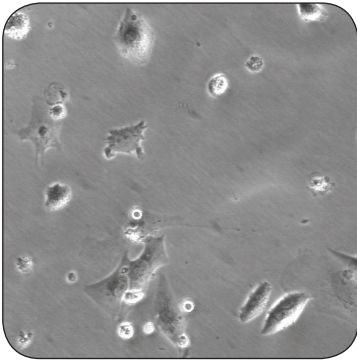
### High Resolution

The Lumascope 400 generates high resolution full color brightfield images, time-lapse capture, and real time video.



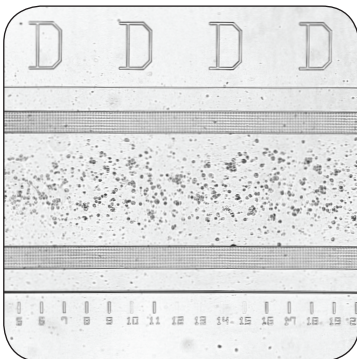
### Versatile

The Lumascope 400 sets up in minutes, requires virtually no maintenance, and powers on instantly. The Phase Contrast Accessory widens the range of imaging applications.



### Affordable

Etaluma designed the Lumascope from scratch using recent advances in optical engineering, CMOS sensors and software, eliminating the cost, power, and space requirements of traditional, expensive digital microscopes. Microscopy simplified.



### Powerful

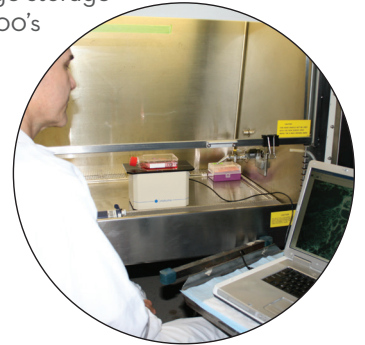
Lumascope can image cells in all standard labware as well as specialized slides and chambers.

# Lumascope™ 400

## Full Color Brightfield

Use the Lumascope 400 to visualize and capture high resolution images comparable to those from traditional, high-cost microscopes. The Lumascope 400 utilizes advanced optical engineering and a CMOS sensor to provide near diffraction-limited (theoretical maximum) resolution. Powered only by its direct USB computer connection, the Lumascope 400 easily records your photos, time-lapse series, and videos directly to your computer. And its compact footprint enables working in challenging locations including inside incubators and biological safety cabinets.

The Lumascope 400 provides full color brightfield imaging at low cost for a wide variety of applications. Its inverted, versatile design accommodates microplates, flasks and dishes in addition to slides that you can adjust by its X-Y stage (sold separately). The included Lumaview software sends images directly to your computer via USB cable, eliminating the need for on-board image storage and processing and contributing to the Lumascope 400's compact size. Etaluma Lumascopes allow you to use your own objectives or choose new objectives (2.5x to 100x(oil)), providing true magnification and not just "digital zoom." The Lumascope 400 can do time-lapse over days or live video recording at up to 8 frames per second. Furthermore, you can fit your Lumascope 400 with an optional Phase Contrast Accessory for enhanced transmitted light imaging.



## Features and Benefits

- Fully functioning microscope empowers users to visualize cells from slides, microplates, flasks, or dishes
- Versatile and compact design permits use inside cell culture incubators and hoods
- Robust software enables time-lapse studies over seconds, minutes, hours or days
- Power and control via USB connection facilitates rapid set up and easy use
- Excellent resolution in ambient lighting conditions
- Objective compatibility with standard lenses allows use of your own objectives
- Optional Phase Contrast Accessory enhances visualization of unstained samples

| Lumascope 400 Specifications |   |
|------------------------------|---|
| Objectives Compatibility     | 2.5x, 4x, 10x, 20x, 40x, 60x, or 100x(oil); interchangeable, LWD also available RMS-threaded, infinity corrected, 45 mm parfocal distance |
| Light Source                 | Ambient light or White LED  |
| Camera                       | High Sensitivity CMOS Sensor  |
| Image Formats                | JPG, BMP, TIF, GIF, PNG; 1280 x 800 pixel image   |
| Video Rates                  | Up to 8 frames per second   |
| XY Stage                     | Holds SBS microplates and Labware Inserts; removable (sold separately)  |
| Labware Inserts              | Holds microscope slides, 3 sizes of petri dishes or Terasaki plates   |
| Computer Requirements        | Windows OS (DLL available)  |
| Power Requirements           | USB or 100-240 VAC, 50-60 Hz  |
| Dimensions                   | 23 cm W x 13 cm D x 13.5 cm H (9.1 in W x 5.1 in D x 5.3 in H)  |
| Weight                       | 2.5 kg (5.4 lb) (without accessories)   |
| Operating Conditions         | 0°C - 42°C, 5% - 99% RH non-condensing  |
| Warranty                     | 1 year parts  |