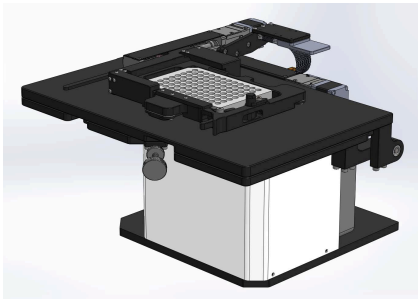
etaluma

Microscopy Simplified

High resolution, versatile and automated 3-color fluorescence & live cell imaging

Lumascope™ 720

Blue, Green & Red Fluorescence and Walk-Away Automation

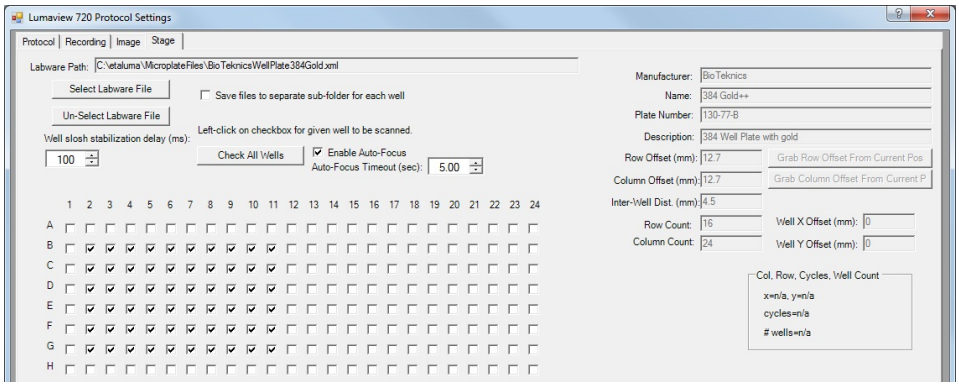


The powerful, new Lumascope 720 adds walkway automation to the many features and high performance of the flagship 3-color Lumascope 620. Exquisite XY motion control, motorized focus that allows autofocus and z-stacks, and easy-to-configure software combine to facilitate your microscopy experiments and high content screens. Place the Lumascope 720 in your incubator and you have a live cell imaging system at a fraction of the cost of conventional HCS systems. Whether imaging multiple fields in your flasks or 1536 wells of cells with 3 fluorophores in a 48 hour time-lapse, the 720 offers a whole new world of automated microscopy!

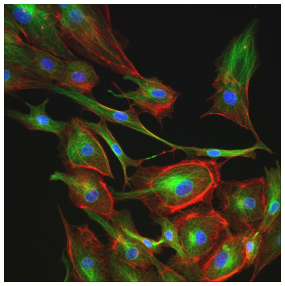
Features and Benefits

- *Automated XY stage with autofocus in Z provides images (photos), time-lapse series, and videos recorded directly to your computer*
- *Fully functioning microscope empowers users to visualize cells from microplates, flasks, slides or custom labware*
- *Modern LED and advanced optical design provides near diffraction-limited (theoretical maximum) resolution*
- *Robust software provides set-up and control across many locations, including microplates and custom arrays*
- *Versatile and compact design enables use inside cell culture incubators and hoods*
- *Detects blue, green and red fluorophores, including BFP, DAPI, FITC, Fluo-4, GFP & mCherry*
- *Flip-up deck allows easy objective access*
- *Used manually, but also robot compatible (RS485, RS232, 5V digital interfaces)*
- *Objective compatibility with standard lenses permits use of your own objectives*

Easy-to-Use Lumaview 720 Software



Portion of the Protocol Settings dialog box of Lumaview 720



Representative 3-color fluorescence image provided by the Lumascope 720 optical system

Lumascope 720 Specifications	
AutoStage	Holds standard labware including up to 1536 well microplates & custom labware
Objectives	2.5x, 4x, 10x, 20x, 40x, 60x, or 100x(oil); interchangeable, LWD also available
Compatibility	RMS-threaded, infinity corrected, 45 mm parfocal distance
Field of View	0.9 mm using 20x objective
Light Sources	White (brightfield); 405 nm, 488 nm & 589 nm (fluorescence)
Fluorescence Filters	Channel 1: Excitation 390/40 nm; Emission 446 nm Channel 2: Excitation 482/18 nm; Emission 532 nm Channel 3: Excitation 589/18 nm; Emission 646 nm
Camera	High Sensitivity Monochrome CMOS Sensor
Image Formats	JPG, BMP, TIF, GIF, PNG; 100-1900 pixel image
Video Rates	Up to 10 frames per second (30 fps with reduced frame size)
XY Stage	Holds SBS microplates or Labware Inserts; removable (sold separately)
Labware Inserts	Holds microscope slides, 3 sizes of petri dishes, or Terasaki plates
Computer Requirement	Windows OS (DLL available)
Power Requirement	USB for Lumascope; 100-240 VAC, 50-60 Hz for AutoStage
Dimensions (without AutoStage)	24 cm W x 14 cm D x 16.5 cm H (9.4 in W x 5.5 in D x 6.5 in H)
Weight	3.2 kg (7.1 lb) (Lumascope only, without AutoStage & accessories)
Operating Conditions	0°C - 42°C, 5% - 99% RH non-condensing
Warranty	1 year parts

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