

Lionheart[™] LX

Automated Microscope

6- to 1536-well plates
Microscope slides, Petri and cell culture dishes, cell culture flasks (T25, T75), counting chambers (hemocytometers), chamber slides Support for labware up to 1.5" tall
High resolution lead screw driven stage with open access
Gen5™ 3.0 Microplate Reader and Imager Software included Gen5 Image Prime and Image+ Software available for advanced image analysis (option)
Fluorescence, high contrast brightfield, color brightfield
Single color, multi-color, montage, time lapse, z-stack, z-stack montage, burst mode
High power LEDs (available wavelengths: 365 nm, 390 nm, 465 nm, 505 nm, 523 nm, 590 nm, 623 nm, 655 nm, 740 nm)
Z-projection, digital phase contrast, stitching
16-bit gray scale, Sony CMOS, 1.25 megapixel
Optional 2x2 binning for focus and/or image capture
5 milliseconds to 4 seconds
Raw Images: 16-bit TIFF Saved Images: TIF, JPG, BMP, PNG, EMF, GIF Movies: MP4, WMV
6 onboard, user-replaceable objectives
Air: 1.25x, 0.04 NA; 2.5x (2.25x eff), 0.07 NA; 2.5x (2.75x eff), 0.12 NA; 4x, 0.13 NA; 10x, 0.30 NA; 20x, 0.45 NA; 40x, 0.60 NA; 60x, 0.70 NA Oil: 60x, 1.42 NA; 60x, 1.25 NA; 100x, 1.4 NA; 100x, 1.3 NA High NA: 20x, 0.75 NA; 40x, 0.95 NA
Up to 4 onboard, user-replaceable cubes
DAPI, CFP, GFP, YFP, RFP, Texas Red, CY5, CY7, Acridine Orange, CFP-YFP FRET, Chlorophyll, Phycoerythrin (PE), Propidium Iodide, CY5.5, TagBFP, GFP (Ex)-CY5 (Em), RFP (Ex)-CY5 (Em), CFP FRET, 377 (EX)-647(EM), Oxidized roGFP2, 400 (EX)-647(EM)
Autofocus, user-trained autofocus, auto exposure, auto-LED intensity
Image-based autofocus Laser autofocus option

Image collection rate	Single Well Fastest Frame Rate Capture: -Full Resolution: up to 10 frames per second for single color images -2x2 Binning: up to 20 frames per second for single color images	
Microscope stage control	Gen5 Software Control Optional joystick controller	
PHYSICAL CHARACTERISTICS		
Power	60 Watts max.	
Dimensions	18.3" D, 17.9" W, 14.1" H (46.5 cm x 45.5 cm x 35.8 cm)	
Weight	51 lbs (23.1 kg)	
REGULATORY		
Regulatory	CE and TUV marked. RoHS compliant. Models for In Vitro Diagnostic use are available.	

Specifications are subject to change. Performance specification values represent the average observed factory test values.

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