

CELENA[®] X

HIGH CONTENT IMAGING SYSTEM

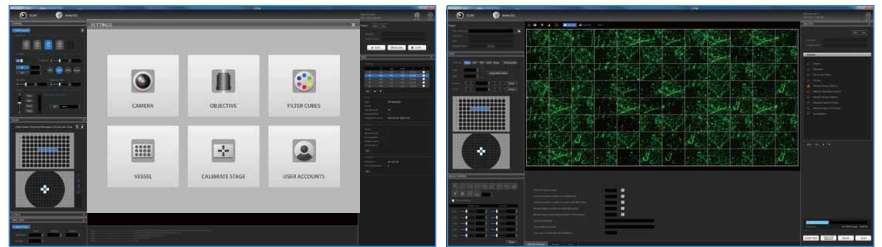


The CELENA[®] X High Content Imaging System is a powerful automated imaging system integrated with advanced software that can automatically capture, process, and analyze thousands of images. The CELENA[®] X is customizable with your choice of interchangeable LED filter cubes, high-quality dual cameras, and a wide range of objectives to meet the most demanding cell imaging needs.

With a rapid and fully automated X/Y stage and laser autofocus capabilities, the CELENA[®] X is optimized for multi-positional well plate imaging and whole slide scanning. The intuitive software lets you configure and save imaging routines with ease for reproducible, high-throughput experiments. An onstage incubator facilitates live cell time-lapse imaging in a precisely controlled environment. No need to export your images for analysis - CELENA[®] X analysis software processes large batches of images for quantitative data analysis.

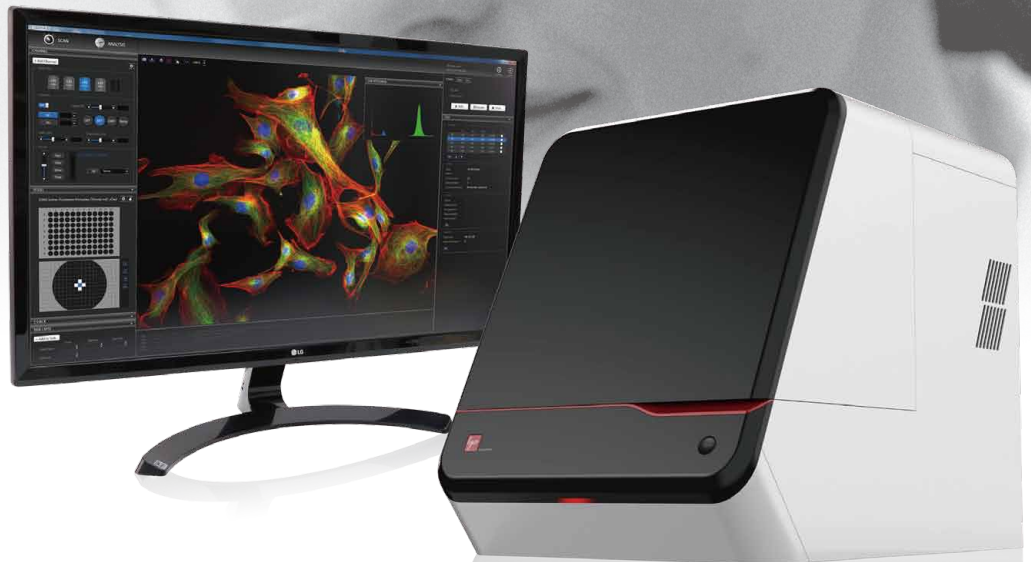
Key Features

- Fully automated image acquisition and analysis
- Rapid multi-well plate imaging
- Powerful cell based assay software package
- Whole slide imaging
- Area scanning & image stitching
- Z-stacking & focus merging
- Time lapse live cell imaging



Applications

- Cell-based assays
 - Angiogenesis - Apoptosis - Autophagy - Cell cycle - Cell metabolism
 - Cell proliferation - Cell viability - Cytotoxicity - Ion indicators - Oxidative stress
 - Phagocytosis - Transfection - Viral infection - Viral titration
- Cell counting
- Live confluency monitoring
- Drug discovery
- Histology



CELENA® X High Content Imaging System

SPECIFICATIONS	
Imaging modes	Multicolor fluorescence, brightfield, color brightfield, and phase contrast
Light source	High power LED filter cubes with adjustable intensity (>50,000 hours per filter cube)
LED filter cube capacity	4 interchangeable fluorescence channels and 1 brightfield channel 12+ LED filter cubes (DAPI, EGFP, RFP, mCherry, ECFP, EYFP, DSRRed, Cy5, Cy7, Cy3/TRITC Long Pass, GFP Long Pass, Cy5 Long Pass, Custom filters)
Objective capacity	5 interchangeable objectives 15 high quality CELENA precision objectives ranging from 1.25-100X; also compatible with Olympus objectives
Condenser	Basic: 60 mm LWD condenser, 4-positions, motorized Phase contrast (optional): 60 mm LWD condenser, 4-positions with 3 phase annuli, motorized
Camera (single or dual)	Monochrome: High-sensitivity CMOS, 1.92 MP, 1600x1200 pixels Color: High-sensitivity CMOS, 1.92 MP, 1600x1200 pixels
Image outputs	Monochrome: 16-bit (12-bit dynamic range) TIF, PNG, or JPG Color: 24-bit color TIF, PNG, or JPG Video: MP4
Autofocus method	Image-based autofocus Laser autofocus (optional)
Stage	Motorized X/Y scanning stage (120 mm x 80 mm) Motorized Z stage (10 mm)
Stage control	Software Joystick (optional)
Supported labware	Slides, multi-well plates, culture dishes, culture flasks
Computer	External PC
LCD display	27 inch 4K UHD IPS Monitor; 3840 x 2160 pixels
Power	100-240 VAC, 250 W, 50-60 Hz

**Specifications are subject to change.



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VCX1808-01

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