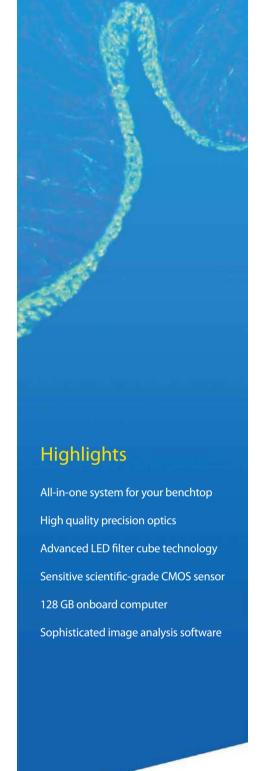


Capture brilliance with the ultimate all-in-one imaging system







The future of imaging is here.

One instrument for imaging and data analysis. One instrument to replace the complex setup of traditional fluorescence microscopes, extensive imaging equipment, computers, and image analysis software. Small, powerful, and easy to use, the CELENA® S Digital Imaging System makes capturing publication-quality fluorescence, brightfield, and phase contrast images a breeze. User-friendly software accommodates a wide range of imaging applications such as image capture, analysis, live cell imaging, Z-stack imaging, and even automated cell counting.



Exquisite images and powerful data analysis with the CELENA® S

The CELENA® S is an all-in-one digital imaging system for your benchtop, equipped with advanced precision optics, a highly sensitive scientific grade CMOS sensor, digitally controlled LED light sources with hard-coated fluorescence filters, and a computer with image analysis software. Interchangeable objectives, filter cubes, and vessel holders accommodate a wide range of imaging needs. An onstage incubation system gives precise control over temperature, humidity, and gases for live cell monitoring. Remarkably sophisticated yet simple software makes it easy to acquire and analyze multicolor fluorescence, brightfield, Z-stack, and time lapse images as well as monitor cell growth, concentration, and viability.



New! Onstage incubation system

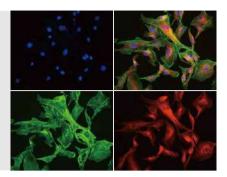
Composed of an environmental chamber, temperature controller, and a gas mixer, the new onstage incubation system supports various live cell imaging applications. Researchers can control the temperature, humidity, and gas content with precision. Live cells can be monitored with the time lapse function or the growth monitor on the CELENA® S.

Key software features



Multicolor fluorescence and brightfield imaging

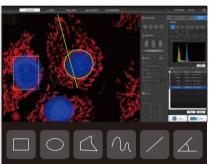
Capture, overlay, edit, and save multichannel fluorescence images with the simple user interface. Stellar optics and adjustable transmitted light allow for high quality brightfield and phase contrast imaging.





Onboard data analysis

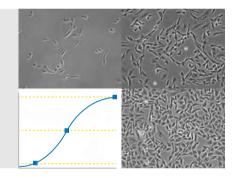
Choose from a variety of measurement and annotation tools to analyze your images immediately upon capture. Export data and annotated images easily via USB.





Live cell monitoring

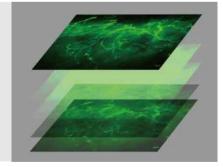
Monitor live cells with the time lapse function or the growth monitor. Set up the onstage incubator to control the temperature, humidity, and ${\rm CO_2/O_2}$ levels for your cells.





Z-stack imaging

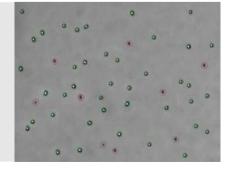
Capture multiple images along the Z-axis with the Z-stack function.





Automated cell count and viability analysis

Check cell concentration and viability with the onboard automated cell counter. Count data and images can be stored onboard or exported via USB.



LED fluorescence

CELENA® S LED filter cubes combine LEDs and optical filters for precise control over powerful and uniform illumination. LEDs have an exceptionally long lifetime, do not generate excessive heat, and can be turned on and off instantly without consequence. The hard-coated optical filters provide high transmission efficiencies, making the CELENA® S highly sensitive to even the faintest of fluorescence signals. The interchangeable CELENA® S LED filter cubes allow for diverse and robust fluorescence imaging applications.





Cat #	LED Filter Cube	Ex (nm)	Em (nm)
I10101	DAPI	375/28	460/50
I10102	EGFP	470/30	530/50
110103	RFP	530/40	605/55
110104	mCherry	580/25	645/75
110105	ECFP	436/20	480/40
110106	EYFP	500/20	535/30
110107	DSRed	530/40	620/60
110108	Cy5	620/60	700/75
110109	Су7	710/75	810/90
I10110	Cy3/TRITC Long Pass	530/40	570lp
I10111	GFP Long Pass	470/40	500lp
I10112	Cy5 Long Pass	620/60	665lp
I10113	Custom Filters	-	-

Outstanding optics, outstanding image quality

The CELENA® S has a wide selection of high precision optics for high-resolution, publication-quality images. The objectives accommodate different types of sample vessels for various imaging applications.





High resolution fluorescence

Cat #	Objective	MAG	NA	WD	Immersion	Correction
I10030	UPLFLN 4X	4X	0.13	17	Air/Dry	-
I10031	UPLFLN 10X2	10X	0.3	10	Air/Dry	-
I10034	LUCPLFLN 20X	20X	0.45	6.6 - 7.8	Air/Dry	0 - 2 mm
110035	LUCPLFLN 40X	40X	0.6	2.7 - 4.0	Air/Dry	0 - 2 mm

Fluorescence and phase contrast

Cat #	Objective	MAG	NA	WD	Immersion	Correction
I10038	UPLFLN 4XPH	4X	0.13	17	Air/Dry	-
110039	UPLFLN 10X2PH	10X	0.3	10	Air/Dry	1 mm
110042	LUCPLFLN 20XPH	20X	0.45	6.6 - 7.8	Air/Dry	0 - 2 mm
110043	LUCPLFLN 40XPH	40X	0.6	3 - 4.2	Air/Dry	0 - 2 mm

Fluorescence and phase contrast

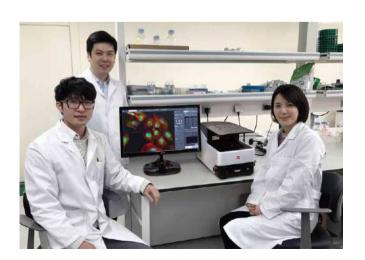
Cat #	Objective	MAG	NA	WD	Immersion	Correction
I10046	PLAPON 1.25X	1.25X	0.04	5	Air/Dry	-
110047	PLAPON 2X	2X	0.08	6.2	Air/Dry	-
110052	UPLXAPO 60XO	60X	1.42	0.15	Normal Oil	0.17 mm
I10051	UPLXAPO 100XO	100X	1.4	0.13	Normal Oil	0.17 mm

^{*} MAG = magnification; NA = numerical aperature; WD = working distance; BF = brightfield; FL = fluorescence; UV = ultraviolet; PH = phase contrast

Vessel holders

A collection of vessel holders have been to accommodate various flasks, dishes, plates, and slides.

For use with the Vessel Holder Frame [Cat # 110200] I10202 I10201 25 mm x 75 mm Slide Holder, 35 mm Cell Culture Dish Holder, Universal Holder Two Positions Four Positions I10204 110205 25 cm² Nunc T-25 Flask Holder, 60 mm Cell Culture Dish Holder, 100 mm Cell Culture Dish Holder, Two Positions One Position Two Positions 110207 I10208 I10209 75 cm² Nunc T-75 Flask Holder, 25 cm² BD/Greiner T-25 75 cm² BD/Greiner T-75 One Position Flask Holder, Two Positions Flask Holder, O ne Position I10210 Glass Hemocytometer Holder, One Position

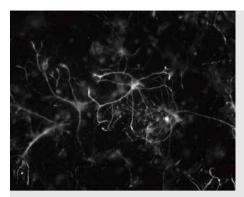


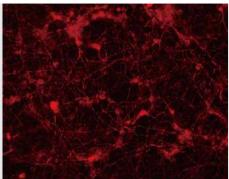
TESTIMONIAL

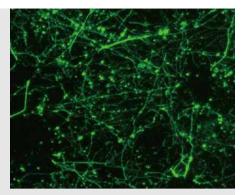


"The best thing about the CELENA® S is the image quality. We can use it for quick screening or for data collection and in both cases get sharp, detailed images. The multipurpose nature of the CELENA® S software makes it a great addition to our lab. Our researchers learned to get high quality images in a few minutes, which is great compared to the hours of training and practice it takes to learn on a traditional setup."

Jason Lee, CEO AmtixBio Inc







Primary mouse cortical neuron culture labeled for MAP2. Imaged using the TC PlanFluor 20X objective with the CELENA® S.

CELENA® S Digital Imaging System

Cat #	Objectives	Filter Cubes
CS20001	Custom configurations	Custom configurations
CS20002	TC PlanAchro 4X Ph TC PlanFluor 10X TC PlanFluor 20X TC PlanFluor 40X	EGFP RFP DAPI

CELENA® S Digital Imaging System Technical Specifications		
Imaging methods	Epifluorescence and transmitted light (brightfield and phase contrast)	
Illumination	LED filter cubes with adjustable intensity (>50,000 hr life per filter cube)	
Fluorescence channels	3 fluorescence channels and 1 transmitted light channel	
Objective turret	5 positions	
Objectives	High quality long working distance (LWD) and coverslip-corrected; 1.25X-100X	
Condenser	47 mm LWD condenser; 3-positions with brightfield and phase contrast annuli	
Computer	Built-in dual core CPU, 128 GB SSD internal storage	
Stage	Mechanical X/Y stage, motorized Z stage; accommodates an onstage incubator	
LCD display	Full HD color LCD monitor, 1920 x 1080 pixels (not included)	
Camera	1.3 MP monochrome CMOS with 1280 x 1024 pixels	
Images	8 or 16-bit TIFF, JPG, BMP, or PNG	
Dimensions (L x W x H)	44 cm x 30 cm x 27 cm (17.3″ x 11.6″ x 10.6″)	
Weight	20 kg (44 lb)	

Onstage Incubation System

Cat #	Product	Contents
l10501	Universal Heating System	- one (1) Temperature Controller - one (1) Heated Plate in Multi-Well Format for 1 Chamber - one (1) Heating Insert - one (1) Heated Lid
l10502	Gas Incubation System for CO ₂	- one (1) CO ₂ Gas Mixer - one (1) Humidifying Column - one (1) Air Pressure Generator
l10503	Gas Incubation System for CO ₂ /O ₂	- one (1) CO ₂ /O ₂ Gas Mixer - one (1) Humidifying Column - one (1) Air Pressure Generator
I10510	Heating Insert for Micro Slides	
I10511	Heating Insert for a 35 mm Dish	

Onstage Incubation System Technical Specifications			
Compatible vessels	35 mm dishes, micro slides		
Temperature range	Ambient temperature to 55°C		
CO ₂ range	0.1-20%		
O ₂ range	0-21%		
Humidity range	22-99%		
Dimensions (L x W x H)	Heated plate with lid: 15.5 cm x 23.6 cm x 3.0 cm Temperature controller: 23 cm x 17 cm x 9 cm Gas mixer: 23 cm x 17 cm x 9 cm		
Weight	Heated plate with lid: 0.4 kg (0.9 lb) Temperature controller: 3.4 kg (7.5 lb) Gas mixer: 2.1 kg (4.6 lb)		





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