cellSens functions

		Dimension		Standard		Entry
Layout	User experience customization	✓		✓		✓
View	Overlay multiple images	✓		✓		
	Document groups for side-by-side image comparison	✓		✓		✓
	Movie playback	✓		✓		✓
	Tile view (multiple images in a single data set shown side by side)	✓		✓		✓
	Slice view for orthogonal plane viewing of 3D or time-lapse data sets	✓				
	Voxel view for isosurface and volumetric rendering of 3D and 4D data sets	✓				
Image Acquisition	Snap/movie acquisition	✓		✓		✓
	Time-lapse at specified interval	✓		✓		
	Automated multi-wavelength	✓		Multichannel Acquisition		
	Z-Stack	✓				
	Multi-dimensional (*xyzt* and wavelength)	✓				
	Graphical Experiment Manager	✓				
	Manual assisted panoramic imaging (manual MIA)	✓		Manual Process		
	Multiposition acquisition and stage navigator	Multiposition				
	Automated panoramic imaging (auto MIA, requires motorized stage)	Multiposition				
	Instant EFI image (manual or motorized Z)	✓		Manual Process		
	Simultaneous multi-color imaging (Image splitter needs)	Ratio / FRET High-End Device	or			
	Live deblurring	✓				
	High Dynamic Range Imaging (HDRi)	✓				
	Multi-well Plate Acquisition	Well Plate Navigator Multiposition	and			
Image Processing	Geometry/combine/filter processing	✓		✓		
	Fluorescence unmixing	✓				
	Brightfield unmixing	✓				
	Deblurring (No/Nearest Neighbor, Wiener Filter)	✓				
	Kymograph	✓				
	2D deconvolution	✓				
	3D deconvolution (constrained iterative deconvolution)	CI Deconvolution				
Image Analysis	Region and line measurements	✓		✓		
	Phase analysis	✓				
	Object analysis and classification	Count & Measure				
	Interactive measurement	✓		✓		✓*
	Intensity plot over time/z	✓				
	Colocalization	✓				
	Object Counting (Manual)	✓		✓		
	Online Ratio and Kinetics	Ratio / FRET				
	Ratio analysis (off-line)	✓				
	FRET analysis	Ratio / FRET High-End Device	or			
	FRAP analysis	Photo Manipulation Life Science Analysis	or			
Documentation and Collaboration	Automatically compose Word reports	✓				
	Database image and data management solution for microscopy	Database Core Database Client		Database Core Database Client		
	Save and load images/documents from Database					Database Client
Remoting	Remote Live Image Viewing					

* Three points angle, four points angle, arbitrary line, closed polygon, polyline and perpendicular line only.

Products with confirmed functionality

			Dimension		Standard		Entry
Olympus	**Camera**	DP20*1, DP21, DP22, DP25*2, DP26, DP27, DP70*1, DP71*2, DP72*2, DP73*3, DP80*3	✓		✓		✓
	Microscope	BX43, BX53, BX63, BX61, BX61WI, IX83, IX73, IX81, SZX16A	✓		✓		
	Peripherals	IX81-ZDC, IX81-ZDC2, IX3-ZDC, IX3-ZDC2	✓				
	Motorized XY stage	BX2-DSU, IX3-DSU, IX2-DSU, U-CBF	✓				
		BX3-SSU, IX3-SSU	Multiposition				
Olympus Soft Imaging Solutions	**Camera**	CC12, F-View II, Colorview I, Colorview II, Colorview III, Colorview IIIu, XM10, XC10, XC30, XC50, UC30, UC50, SC20, SC30, SC50, SC100	✓		✓		✓
	Peripherals	cellTIRF (multi-line, single line), MT20, USB-ODB converter, Real Time Controller (U-RTC and U-RTCE), U-FCB, U-STC	✓				
Hamamatsu	**Camera**	ORCA R2, ORCA 03, ORCA 05, ORCA ERG, ORCA-Flash 2.8, ImagEM, ImagEMX2, ORCA-Flash 4.0 V2, ORCA-Flash 4.0 LT	✓				
			High-End Camera				
	Image Splitter	W-View Gemini	Ratio / FRET High-End Device	or			
Q-Imaging	**Camera**	MicroPublisher 3.3 RTV, MicroPublisher 5 RTV	✓		✓		
		Monochrome: Exi Blue/Aqua, QIClick, Retiga Exi/SRV/2000R/2000RV/4000R/4000RV/6000	✓				
		Color : Exi Aqua					
		OptiMOS, Rolera Thunder	High-End Camera				
Photometrics	**Camera**	CoolSNAP HQ2	✓				
		Evolve 512 Delta	High-End Camera				
	Image Splitter	Dual View DV2 /QuadView QV2	Ratio / FRET High-End Device	or			
Andor	**Camera**	iXon X3 897, iXon Ultra 897, iXon Ultra 888, Zyla4.2(Camera-link,USB3.0), Zyla5.5(Camera-link 10tap,USB3.0), Neo	High-End Camera				
Jenoptik	**Camera**	ProgRes C3, ProgRes C5	✓		✓		
Vincent Associates	**Shutter**	Uniblitz shutter (VCM-D1, VMM-D1, VMM-D3)	✓		✓		
CoolLED	**Light Source**	pE-1, pE-2, pE4000	✓				
Excelitas	**Light Source**	X-Cite 120 PC, X-Cite *exacte*, X-Cite XLED1, X-Cite110LED, X-Cite120LED	✓				
Sutter	**Light Source**	Lambda DG4	✓				
	Shutter, FW	Lambda 10-3/10-B	✓				
Prior	**Motorized XY stage**	Proscan (I, II, III), Optiscan (II, III)	Multiposition				
	Shutter, FW, Z-drive	Proscan (I, II, III), Optiscan (II, III)	✓				
	Piezo Z (control via Real Time Controller)	NanoScanZ NZ100	High-End Device				
Ludl	**Motorized XY stage**	Mac 6000	Multiposition				
	Shutter, FW, Z-drive	Mac 6000	✓				
Objective Imaging	**Motorized XY stage controller**	Oasis 4i	Multiposition				
	Z-drive controller	Oasis 4i	✓				
Märzhäuser	**Motorized XY stage**	Tango	Multiposition				
	Z-drive controller	Tango	✓				
Physik Instrumente	**Piezo Z (control via Real Time Controller)**	PIFOC P-721	High-End Device				
Applied Scientific Instrumetation	**Motorized XY stage**	MS-2000	Multiposition				
National Instruments	**Digital TTL device**	NI USB-6501	✓				
Yokogawa	**CSU**	CSU-X1	High-End Device				

*1 DP20/70 does not support Windows7 64bit, Windows 8/8.1 32bit/64bit. *2 DP25/DP71/DP72 does not support Windows8/8.1 32bit/64bit. *3 DP73/80 support only Windows7/8/8.1 64bit.

Compatible image formats

Read and write	JPEG, JPEG2000, TIFF, BMP, AVI, PNG, VSI (Virtual slide image),
Read only	GIF, PSD (Adobe Photoshop), TIFF (DP-BSW, FSX100, MetaMorph), OIF/OIB/OIR (Fluoview format), Cell, STK (MetaMorph), MRC (Medical Research Council)

Recommended system requirements

OS	Microsoft Windows 8.1 Pro (32-bit/64-bit), Microsoft Windows 8 (32-bit/64-bit) Pro, Microsoft Windows 7 (32-bit/64-bit) Ultimate with SP1, Microsoft Windows 7 (32-bit/64-bit) Professional with SP1
OS Language	English, Simplified Chinese, Japanese, German, Russian (only for Entry and Standard) and all others with English like alphabet
CPU	Intel Core i5, Intel Core i7, Intel Xeon Recommended for high speed image acquisition: QuadCore
RAM	4 GB Recommended for high speed image acquisition: 8GB or more only on Windows7 64-bit operating system
Graphic card	1280x1024 (min. 1024 x768) monitor resolution with 32-bit-video card with separate graphics memory (no integrated graphics processor with shared memory)
Port	USB 2.0 port to connect devices to the system FireWire A to connect devices to the system (BX61, IX81, SZX2-MDCU etc...) Serial (RS232) to connect devices to the system (BX61, IX81, SZX2-MDCU etc...) Additional PCI/PCIe slots as necessary to connect third party peripherals (principally third party cameras) with proprietary interface cards
HDD	1 GB for installation Performance of hard disk is a limiting factor for image acquisition speed Recommended for high speed image acquisition: Solid State Drive (SSD)
Drive	DVD drive (Read: DVD-R DL)
Web Browser	Recommended for Windows 7: Microsoft Internet Explorer 8.0, 9.0, Recommended for Windows 8: Microsoft Internet Explorer 10, Recommended for Windows 8.1: Microsoft Internet Explorer 11

Image data courtesy of:
Hiroo Ueno, Ph.D.
Department of Stem Cell Pathology, Kansai Medical University
(cover page)

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• OLYMPUS CORPORATION is FM553994/ISO9001 certified.

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OLYMPUS CORPORATION
Shinjuku Monolith, 2-3-1 Nishi-Shinjuku, Shinjuku-ku, Tokyo 163-0914, Japan
OLYMPUS EUROPA SE & CO. KG
Wendenstrasse 14-18, 20097 Hamburg, Germany
OLYMPUS SCIENTIFIC SOLUTIONS AMERICAS CORP.
48 Woerd Avenue, Waltham, MA 02453, U.S.A.
OLYMPUS SINGAPORE PTE LTD.
491B River Valley Road, #12-01/04 Valley Point Office Tower, Singapore 248373
OLYMPUS MEDICAL SYSTEMS INDIA PRIVATE LIMITED.
102-B, First Floor, Time Tower, M.G. Road, Gurgaon 122001, Haryana, INDIA

OLYMPUS LATIN AMERICA, INC.
5301 Blue Lagoon Drive, Suite 290 Miami, FL 33126, U.S.A.
OLYMPUS (CHINA) CO., LTD.
A8F, Ping An International Financial Center, No. 1-3, Xinyuan South Road, Chaoyang District, Beijing, 100027 P.R.C.
OLYMPUS KOREA CO., LTD.
8F Olympus Tower, 446 Bongeunsa-ro, Gangnam-gu, Seoul, 135-509 Korea
OLYMPUS AUSTRALIA PTY. LTD.
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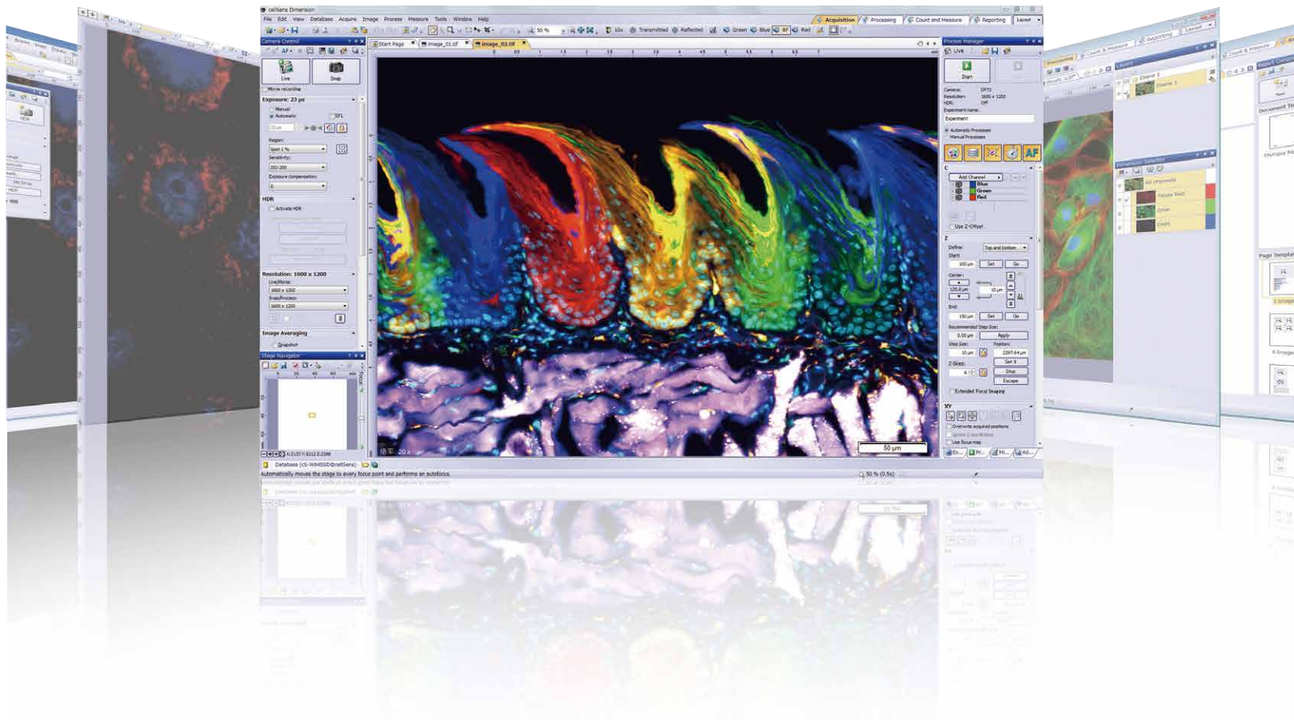
OLYMPUS®
Your Vision, Our Future

Imaging Software

cellSens

Seamless Workflow. Intuitive



Not for clinical diagnostic use.

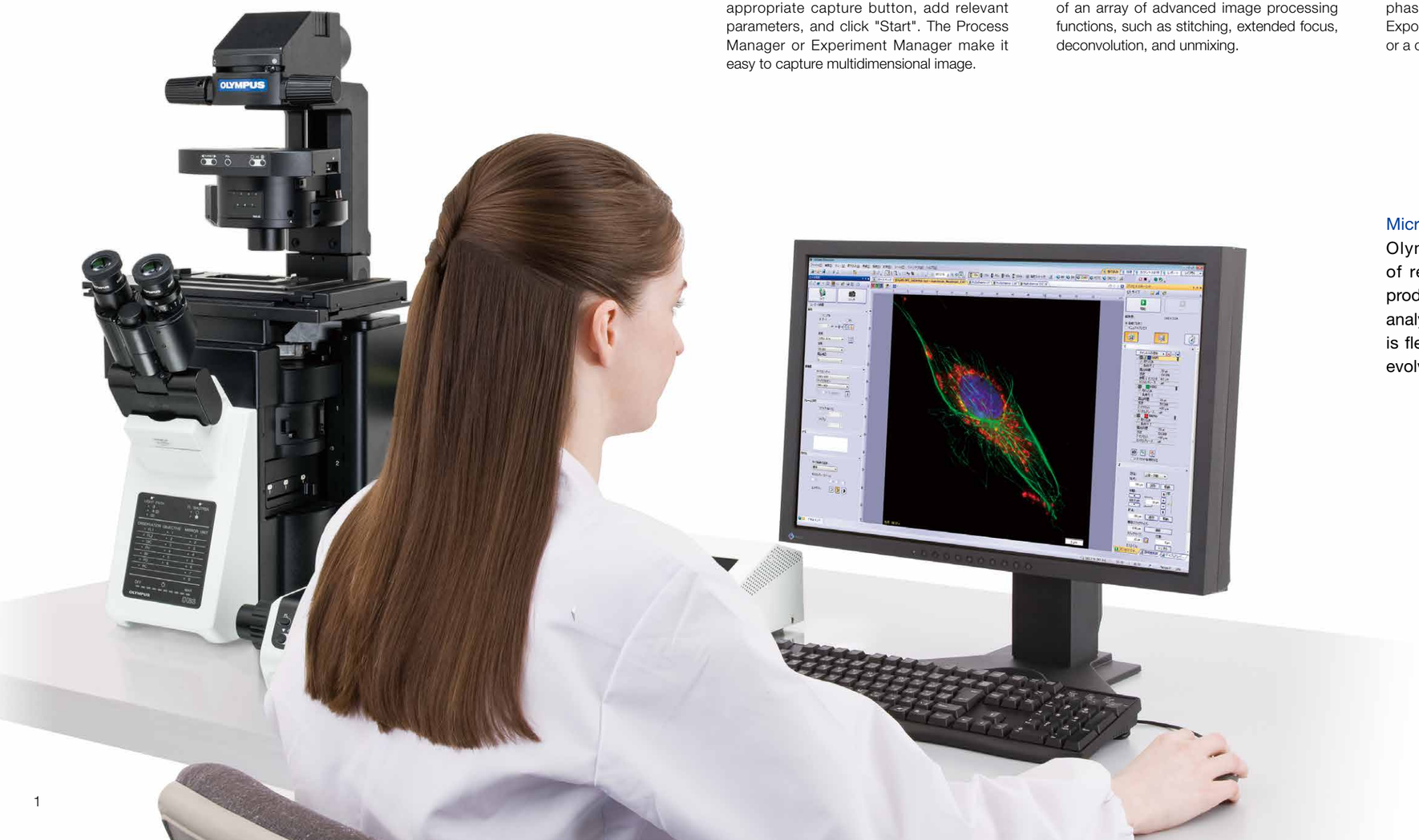
Add Simplicity to Experiment Design...
Leave More Time for Research

Olympus cellSens gives you a simpler way to work.

Enjoy full control over the user interface, with functions that are where you want them, when you need them.

Seamless operation, from image capture to report creation means more results with less effort.

Spend less time with your software. Have more time for research.



Imaging

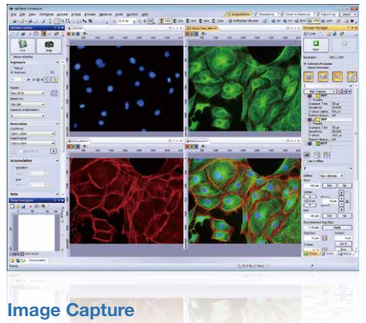
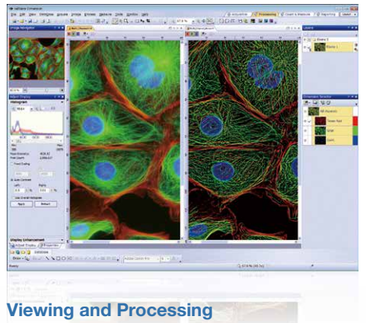


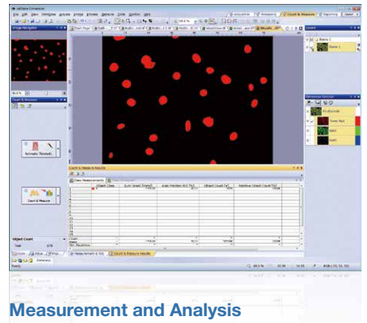
Image Capture
Capture multi-color, time lapse, and z-stack images with ease. Just select the appropriate capture button, add relevant parameters, and click "Start". The Process Manager or Experiment Manager make it easy to capture multidimensional image.

Processing



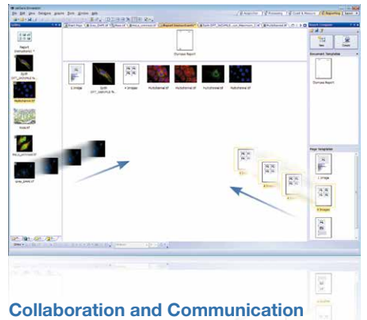
Viewing and Processing
Automatically view your data in the colors and layout you choose. Take advantage of an array of advanced image processing functions, such as stitching, extended focus, deconvolution, and unmixing.

Analyzing



Measurement and Analysis
Make measurements using an intuitive interface. cellSens offers region of interest, phase analysis, and cell count capability. Export raw measurement data to MS Excel or a cellSens workbook with a single click.

Reporting



Collaboration and Communication
Actively collaborate with colleagues and coworkers with special tools including Database and Reporting functions. These functions make it simple to manage, share, and distribute your own image and data reports.

Microscopy Research With a Personal Touch

Olympus microscopes enable new techniques and push the boundaries of resolution at all magnifications. Olympus cellSens software improves productivity with efficient acquisition work-flow, image processing capability and analytical strength. Centered around the needs demanding customers, cellSens is flexible, easily personalized, and designed to fit as application requirements evolve.

Reduce Clutter and Confusion by Displaying Only the Tools and Windows You Need

It's Time to Get Personal

Olympus has been at the forefront of microscopy for over 90 years and has developed microscopes and systems for a broad spectrum of applications. As a result, we know that each researcher has individual requirements that can't all be met by fixed solutions. The cellSens software family consists of three packages, all featuring a peerless user-definable interface. As a result, each user can define what they want cellSens to show them within the defined work areas.

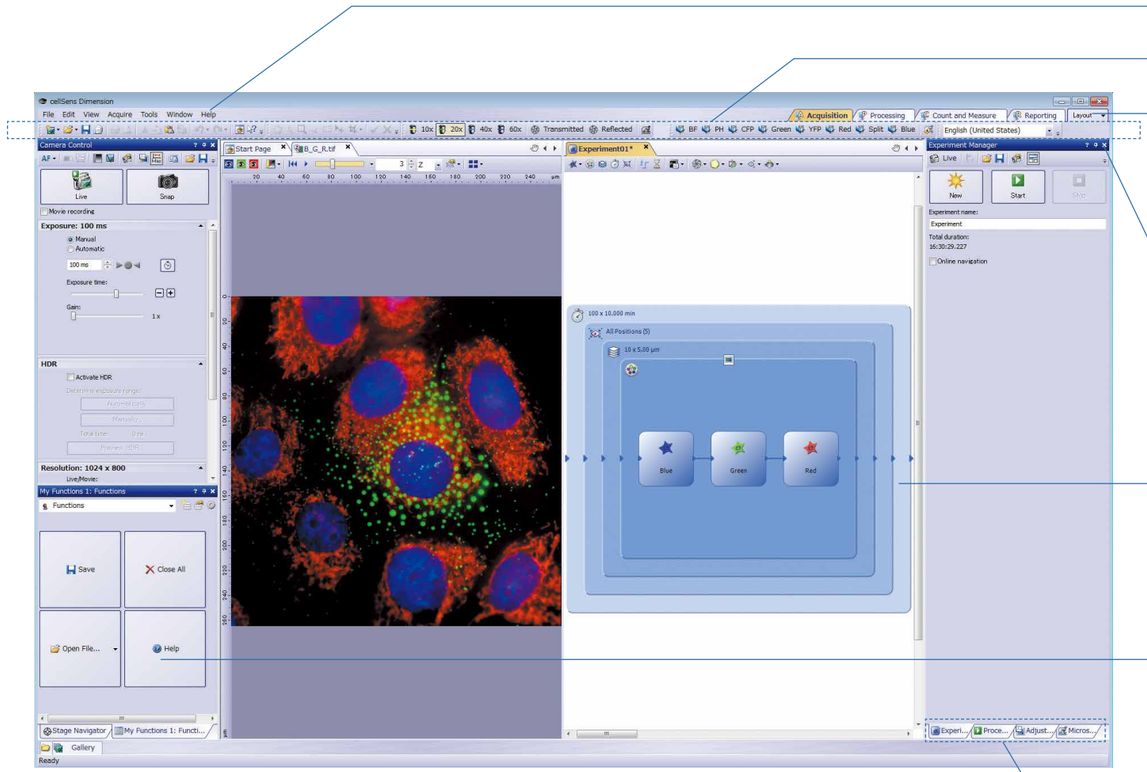
Dynamic Interface

Creating an efficient workflow requires careful definition of the tasks and tools at each stage. With the cellSens platform's dynamic GUI, the same is true—the tools you need for each stage are clearly available, without clutter or the need to search. Olympus has created a number of interface layouts, which are developed with capabilities appropriate to the users needs.

- **Acquisition Layout**—for selecting between different acquisition processes and adjusting the camera settings.
- **Processing Layout**—for post-acquisition functions such as image processing, execution of measurements, collection of data, presentation of resulting statistics.
- **Count & Measure Layout**—for manual and automated measurement and object counting.
- **Reporting Layout**—for generating reports to document and share results.
- **Create Layout**—a user can define his or her own layout in various arrangements.

Camera Control Panel

The most important microscope component that requires software control when imaging is the digital camera. Modern cameras feature a number of functions that can be changed to enhance or perfect an image; for example, exposure time and pixel binning. The cellSens Entry and Standard packages control such features on all Olympus digital microscopes and cameras. The Dimension package, in addition, controls such features on high-end research cameras as well. As a result, scientists can maximize the quality of their images.



Need Help? Online Help is Just a Click Away

Display Only Those Functions You Need on the Toolbar

Common Functions can be Grouped in a Single Tab
All necessary functions are placed where you want, when you need them. Layout tabs allow easy selection of functions according to your workflow. For instance, display camera control features in your Acquisition layout, and then remove them from view when you switch to the Processing layout.

Display or Hide Windows as You Require, or Use Auto-hide for Clean Operation

Graphical Experiment Manager (GEM)
GEM enables the design of complex experiments by simply dragging and dropping icons onto the canvas.

Create Flexible Workflow Toolbars for Repetitive Operations
cellSens lets you create custom toolbars for your most frequently used functions and then save them to the My Functions window. Custom buttons are also easy to use, with convenient tab access that further enhances workflow efficiency. Furthermore, appearance of each toolbar in the My Functions window can be customized by choosing an icon and/or text from Button Appearance window.

Functional Panels are Grouped in Tabs for Easier Access

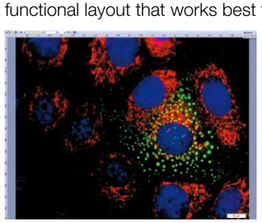
Dark Application Skin

The Dark Application Skin reduces computer monitor-generated ambient light and allows cellSens users to adapt to darkened environments; icon contrast remains high for easy recognition and quick selection.

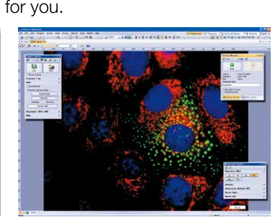
Dark skin

Arrange Windows as You Like

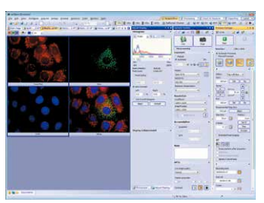
Organize the tools and windows for the job at hand to create a functional layout that works best for you.



Full screen



Floating panels



Docked panels

Solutions to Empower Your Individual Research

What Scientific Researchers Wanted

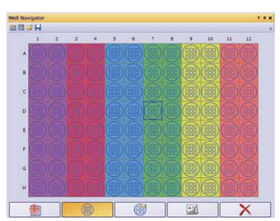
Our Solutions

Complex experimental procedure with flexible design

Graphical Experiment Manager (GEM)
Experiments can be freely designed simply by connecting the various commands. Furthermore, image acquisition is available for up to 6 dimensions (XYZTλ multipoint).

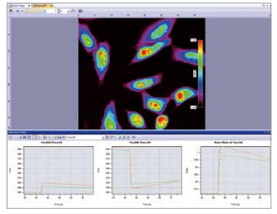
Flexible well plate image capture

Well Plate Navigator
Capture well plate samples automatically by using the well plate navigator in combination with the motorized stage. There is also enhanced flexibility to allow multiple experiments to be executed within a single well plate.



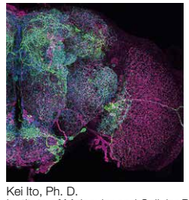
Intensity analysis

Intensity Analysis
Visualize changes in intensity over time, and save this information for later analysis. Ratio Analysis function allows calibration, display and analysis of live/stored data reflecting changes in the intensity ratio between two acquisition channels.



Improved image detail

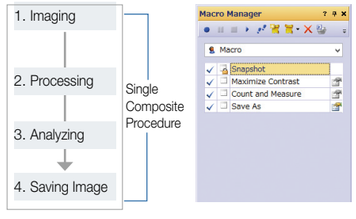
Deconvolution
Choose between 2D (included) and 3D (optional) blind deconvolution. This proprietary and highly efficient post-processing tool for both CCD and Confocal imaging enhances the ability to differentiate between imaged objects.



Kei Ito, Ph. D.
Institute of Molecular and Cellular Biosciences, University of Tokyo

Unified task order management

Macro Manager
Perform tasks, from imaging to processing and analysis, as a single composite procedure. Batch processing is also available, enabling multiple images to be subjected to preferred processes as a continuous series for a significant improvement in workflow efficiency.

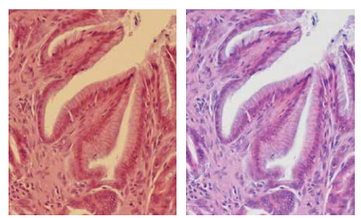


What Medical Researchers Wanted

Our Solutions

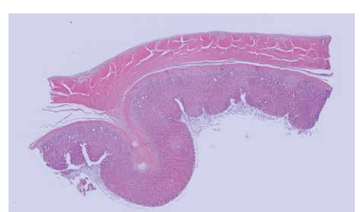
Retention of intact observed images

Live/Snapshot Function with White Balance Adjustment
Simply align the focus and select the appropriate white balance to capture images with true-to-life quality.



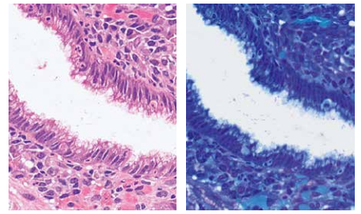
Observe large sample at once

Panoramic Imaging
Create clear and seamless wide area images by automatic correction of mismatching between each images, even when using the manual stage. A fully functional wide-area focus map enables improved clarity in panoramic imaging.



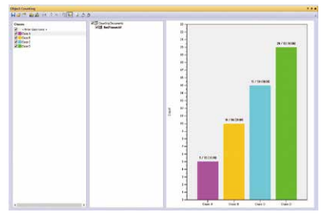
Simultaneously monitoring of multiple images

Image Comparison (simultaneous image windows)
Display images side by side for accurate comparison, with simultaneous zooming and movement.



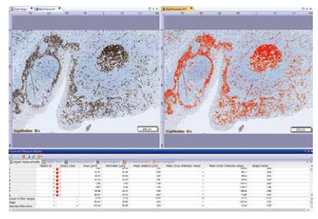
Cell counting by hands

Object Counting
Perform manual counts with self-set classes. Counts and proportions can then be undertaken for each class through simple mouse operation.



Nuclei counting with variable thresholding

Particle Analysis
Set threshold levels for nuclei counts, or calculate parameters such as tissue slice total area and area ratios.



An Array of Easy-to-Use Functions
Turn Research Finding into Compelling Presentations

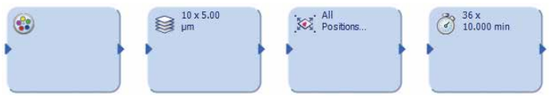
Image Capture

Graphical Experiment Manager (GEM)

Dimension

A break from the usual complex panel-based interfaces, the Graphical Experiment Manager (GEM) uses a flexible drag-and-drop interface to build simple or complex experiments within the cellSens workspace. Actions can be combined within specialized frames to dictate the desired order and priority of automation and imaging. Easily acquire multichannel imaging, Z-stacks, or time-lapse acquisitions across one or more sample positions. GEM permits user interaction with the system during automation to address unforeseen changes in the sample, save time, and prevent repeat effort.

Capture command

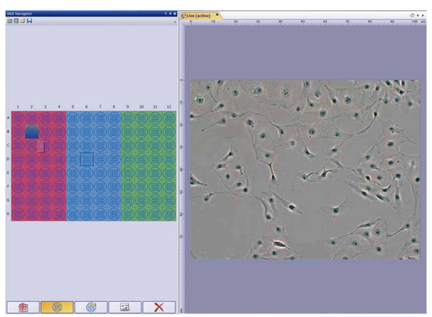


Loop command

Well Plate Navigator

Dimension + Multiposition + Well Plate Navigator

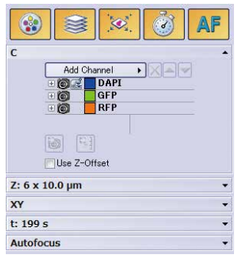
The Well Plate Navigator Solution automatically scans and acquires images from standard and customized well plate formats. All acquired images, sample positions, and user comments can be saved into a structured database for rapid centralized access. Unique imaging settings can be flexibly applied to individual wells, columns, and rows. Additionally, the Well Plate Navigator supports the execution of multiple experiments within a single well plate to support more complex experiments.



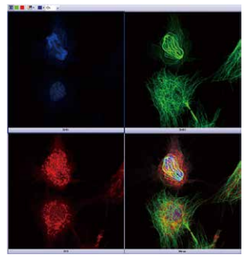
Capture Multidimensional Images

Dimension + Multiposition

In combination with a motorized microscope, the Process Manager makes it easy to capture multi-colored and multidimensional images. With the optional Multi-position Solution, it is also possible to capture multi-point and large area images automatically.



Process Manager Setting



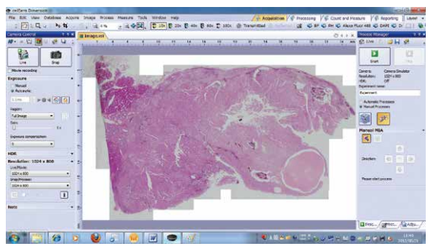
Multi-color images

Panoramic Imaging

Dimension + Multiposition

Standard + Manual Process

The manual multiple image alignment function creates a single panoramic image as the specimen is scanned. Wide area imaging using a motorized stage can also be fully automated with cellSens Dimension and the optional Multi-position Solution. In combination with a motorized z-focus, this function captures images that are auto-corrected for sample distortion and tilting.



Extended Focus Imaging

Dimension

Standard + Manual Process

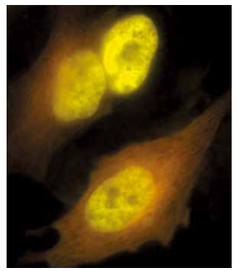
cellSens will create a single in-focus image from successive image planes as the focus knob is turned using the Extended Focus Imaging (EFI) function, or motorized focus drive to fully automated EFI acquisition. EFI composites images can also be created directly from previously captured Z-stacks.

Viewing and Processing

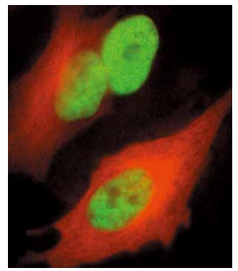
Unmixing

Dimension

The linear unmixing algorithm in cellSens Dimension results in crosstalk-free fluorescent images to address the challenge of fluorochromes with overlapping emission spectra - such as GFP and YFP. cellSens linear unmixing can also help to separate background autofluorescence from fluorescence signal.



Before unmixing

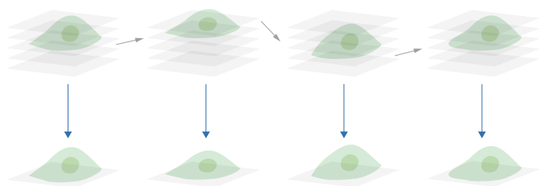


After unmixing

Best Focus Extraction

Dimension

Extract the best focus from images, including z-stack, time-lapse images. This function is effective in creating T-series images with the best focus possible, even when working with defocused time-lapse images.



High Dynamic Range Imaging (HDRI)

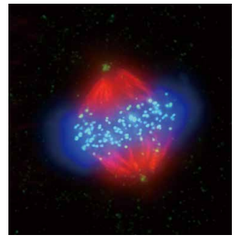
Dimension

By automatically capturing many images at different exposures the HDRI function creates a final image with a much greater dynamic range, where low intensity signals are clearly visible without overexposing the bright areas of the sample.

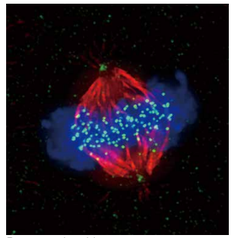
Deconvolution

Dimension + CI Deconvolution

The optional CI Deconvolution Solution employs the latest in Constrained Iterative Deconvolution algorithms to produce improved resolution, contrast and dynamic range, with industry-leading speed. Each cellSens Dimension license includes Live 2D deblurring for preview and acquisition to enable better contrast within thick specimens. cellSens comes complete with the most widely requested deblurring techniques such as 2D deconvolution, Nearest neighbor, Wiener filter.



Original image



Deconvolved image

Cell line: Human cervical cancer cell line HeLa cell
Immunostaining: Hec1 staining (green, Alexa Fluor-488), α-tubulin staining (red, Alexa Fluor-568), DAPI staining (blue)
Mitotic HeLa cell derived from human cervical cancer.
Mitotic spindle and kinetochores are stained with anti-α-tubulin (red) and anti-Hec1 (green) antibodies, respectively. Chromosomes interact with microtubules constituting mitotic spindle via kinetochores, protein structure assembled on centromere region of chromosomes.

Image data courtesy of:
Department of molecular oncology, Institute of Development, Aging and Cancer, Tohoku university
Masanori Ikeda and Kozo Tanaka

Solution

Each cellSens Package can be expanded towards a specific application by using optional “Solutions”

Dimension — available solutions:

CI Deconvolution	Multiposition	Well Plate Navigator
Count & Measure	Ratio/FRET	Database Core
Database Client	NetCam	Photo Manipulation

Standard — available solutions:

Multichannel Acquisition	Manual Process	Database Core
Database Client	NetCam	

Entry — available solution:

Database Client

An Array of Easy-to-Use Functions
Turn Research Finding into Compelling Presentations

Measurement and Analysis

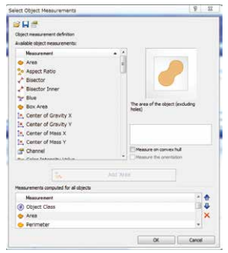
Manual Measurement

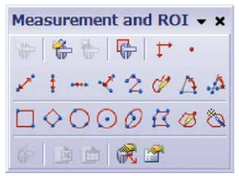
Dimension

Standard

Entry

Distances between points, areas, intensity measurements and morphological parameters become accessible using the cellSens measurement tools. Measurement data are saved as an image layer that can be exported to Microsoft Excel and cellSens workbook formats, or viewed using OlyVIA, the free image viewer software package.

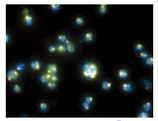


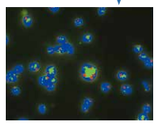


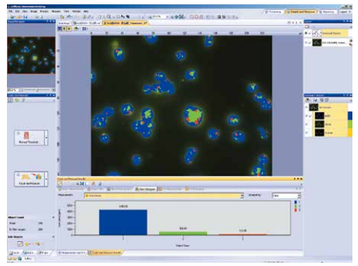
Automatic Object Measurement and Classification

Dimension + Count & Measure

The Count & Measure Solution adds efficient and precise object detection for automated nuclei counting and classification. This solution expands the set of manual measurements in cellSens. Perform automatic object measurement and classification easily, using an interactive interface where recognized objects are always linked with their measurements.


Original image

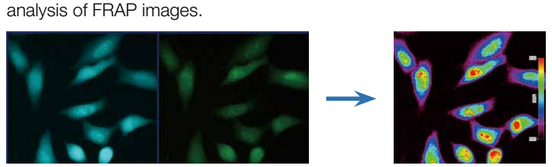

Object detected on image

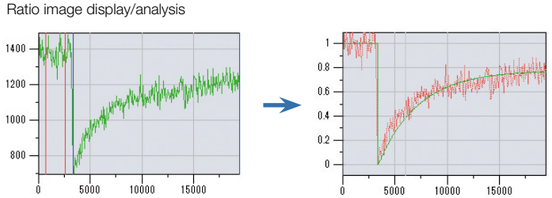

Measurement and classification results

Intensity Analysis

Dimension

Graphically depict intensity and channel ratios, and export values to Excel or WorkBook by simply setting the region of interest (ROI). The ROI can be moved to capture measurements in line with cell movements. Convert variations of intensity to hue and brightness using Intensity Modulated Display (IMD) to visually enhance fine image structure often found within ratio or FRET images. The Ratio/FRET Solution is used for analysis and display of real-time ratiometric imaging and data. FRET analysis of both sensitized emission and acceptor photo-bleaching is also supported within this user friendly work-flow.
The Photo-Manipulation Solution can be used for the curve-fitting analysis of FRAP images.


Ratio image display/analysis



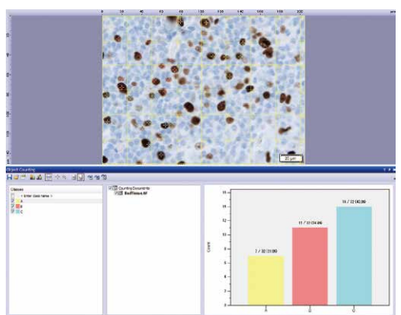
FRAP analysis function

Manual Count

Dimension

Standard

Perform manual counts with self-set classes. Counts and proportions can then be undertaken for each class through simple mouse operation.



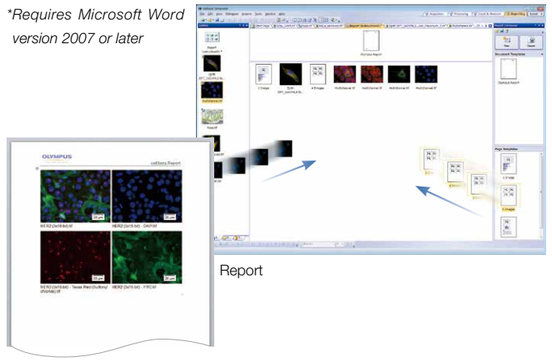
Collaboration and Communication

Reporting

Dimension

Easily drag-and-drop image property data, measurement data and user-customized fields into a report template using the convenience of a built-in reporting tool to produce Microsoft Word* format reports. Collaborate with colleagues, and communicate results, quickly and easily.

**Requires Microsoft Word version 2007 or later*

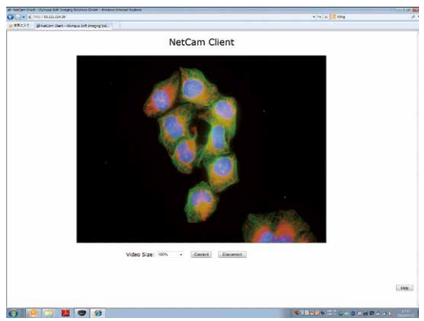

Report

Remote Live Image

Dimension + NetCam

Standard + NetCam

The cellSens NetCam Solution facilitates the transfer of live or static imaging over a network for teaching, mentoring or supervision.



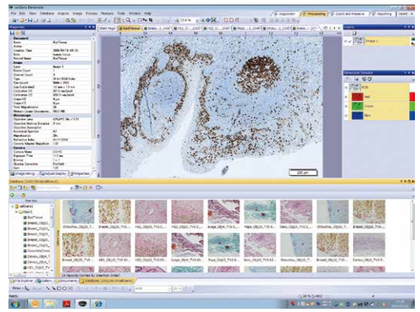
Database

Dimension + Database Core or Database Client

Standard + Database Core or Database Client

Entry + Database Client

Database Core Solution enables the creation of network shared, user-definable databases, with full access controls. The database stores images and all associated image properties, user comments and any other related files that a user wishes to include. The interactive query tool makes it easy to find the data, and provides automatic previews of each queried image. Read and write to a shared database conveniently from multiple different stations with the Database Client Solution.



Database+well Navigator

Dimension + Multiposition + Well Plate Navigator
+
Database Core or Database Client

In combination with the Well Navigator Solution, the Database Solution greatly improves the efficiency of viewing and analysis of well plate images with a large amount of data. By clicking on icons for image information such as the date, file name, or well plate number, any selection of captured images can be viewed for further analysis. This solution also allows viewing of captured images and continuous analysis of selected images (the Batch Macro function) via the well plate GUI.