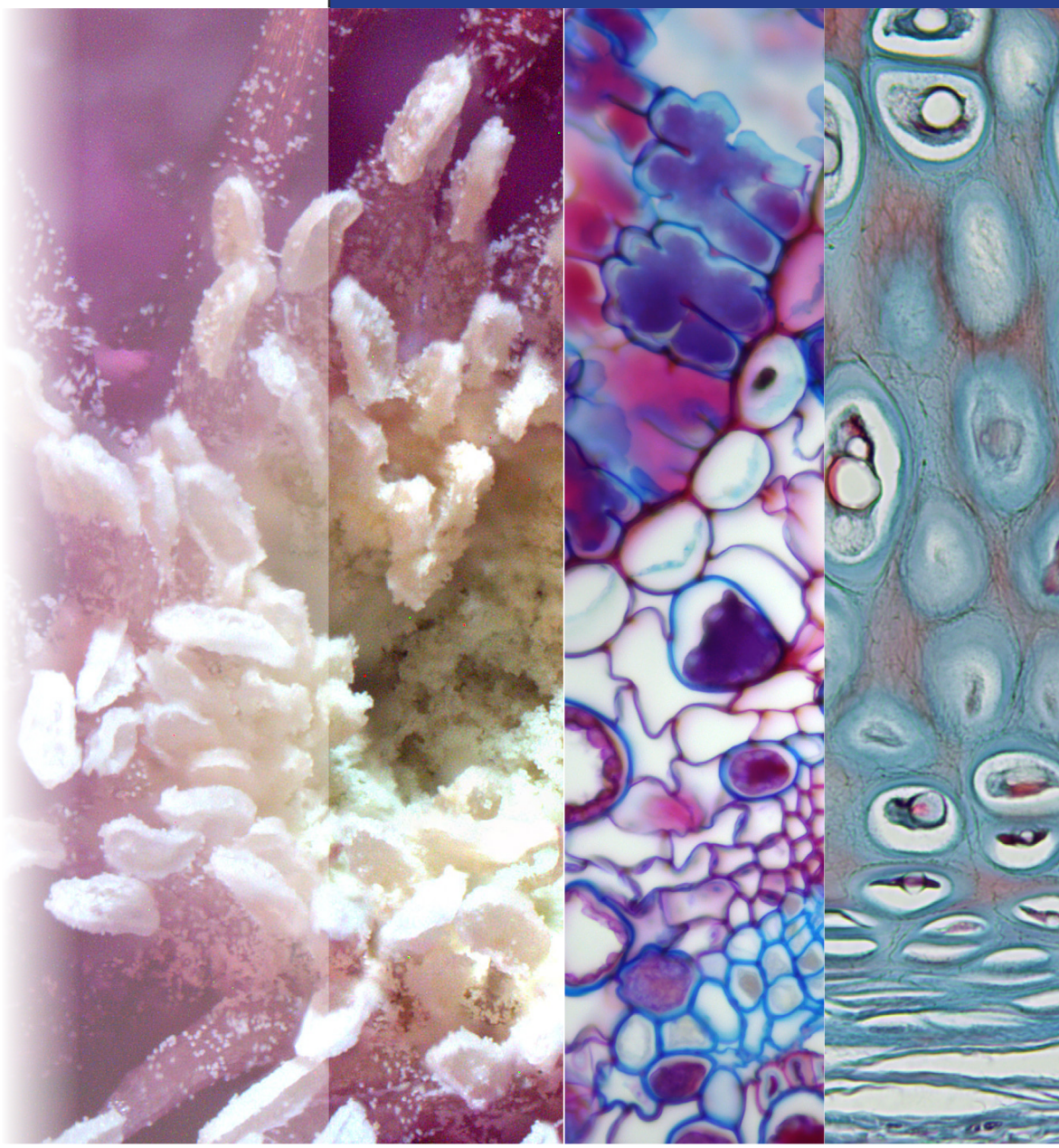
OPTIKA®
MICROSCOPES
ITALY

OPTIKA SOFTWARE



OPTIKA SOFTWARE SUITES

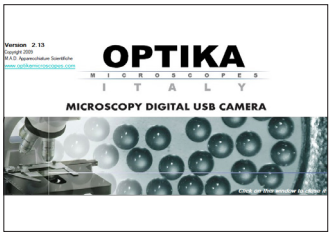
OPTIKA SOFTWARE - Comparison chart

Software

• Before proceeding with the SW installation, please check the table below "Software Function list" to identify the most suitable software.







SOFTWARE FUNCTION LIST

	FUNCTION		OPTIKA PRO VIEW	OPTIKA LITE VIEW	OPTIKA VISION LITE
GENERAL	Simultaneous management of several cameras		X	X	X
	GUI (Graphical User Interface)		X		
	Report generator		X		X
	Archiving		X	X	X
	Language	Catalan	X	X	
		Chinese (simpl.)	X	X	
		Chinese (trad.)	X	X	
		Korean	X	X	
		English	X	X	X
		French	X	X	X
		German	X	X	X
		Indonesian	X	X	
		Italian	X	X	X
		Japanese	X	X	
		Polish	X	X	X
		Russian	X	X	
		Spanish	X	X	X
		Swedish			X
		Thai	X	X	
		Turkish	X	X	

	FUNCTION		OPTIKA PRO VIEW	OPTIKA LITE VIEW	OPTIKA VISION LITE
MEASUREMENTS	Measurements on "live"		X		
	Measurements on "captured"		X		X
	2D Measurements	Line	X		X
		Angle	X		
		Parallel lines	X		
		Rectangle	X		
		Ellipse	X		
		Circle	X		
		Annulus	X		
		Arc	X		
		Curve	X		
		Polygon	X		
	Particle count		X		
	Export to Excel		X		X

OPTIKA SOFTWARE - Comparison chart

SOFTWARE FUNCTION LIST

	FUNCTION		OPTIKA PRO VIEW	OPTIKA LITE VIEW	OPTIKA VISION LITE
IMAGE ACQUISITION	Simultaneous management of several cameras		X	X	
	IMAGE acquisition		X	X	X
	Image formats	tiff	X	X	X
		jpg	X	X	X
		bmp	X	X	X
		png	X	X	
		pcx	X	X	
		jp2	X	X	
		dcm	X	X	
	IMAGE acquisition		X	X	X
	VIDEO formats	avi	X	X	X
		wmv	X	X	X
		mp4	X	X	X
		asf	X	X	X
		3gp	X	X	X
		mov	X	X	X
		h264	X	X	X
		h265	X	X	X
	Continuous automatic exposure		X	X	X
	Manual Exposure		X	X	X
	Mobile spot for exposure		X	X	X
	Resizable spot for exposure		X	X	X
	Colour acquisition		X	X	X
	Grey-scale acquisition		X	X	X
	Manual Time-Lapse		X		X
	Automatic Time-Lapse		X		
	Fast Image Acquisition		X	X	X
	Focus Indicator		X		
	White Balance		X	X	X
	Black balance		X		
	Background correction		X		
	Dark Field Correction		X	X	
	Image Enhancement		X	X	X
	Live Histogram		X	X	X
	Flip	Horizontal	X	X	X
		Vertical	X	X	X
	Rotate		X		

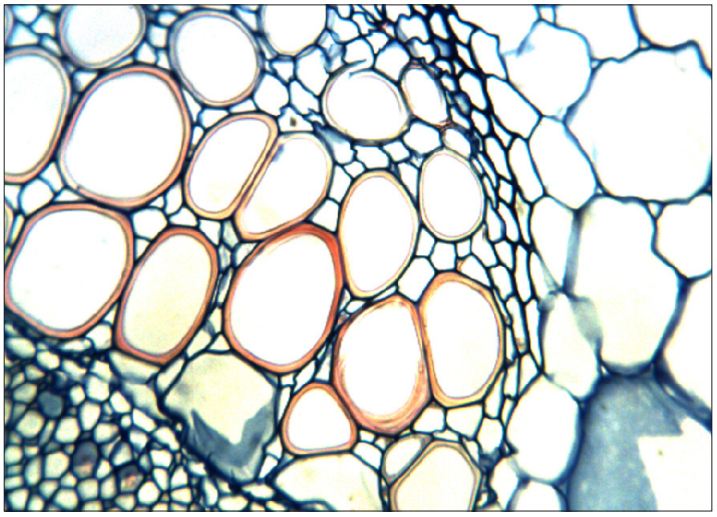
	FUNCTION	OPTIKA PRO VIEW	OPTIKA LITE VIEW	OPTIKA VISION LITE
PROCESSING	Several function of image processing (filters)	X		
	Multiple image combining	X		
	EDF (Extended Depth of Focus)	X		
	Colour Combine (Multi-Fluorescence Imaging)	X		
	Shift Correction	X		
	HDR (High Dynamic Range)	X		
	Layer Management	X		X
	Text Overlay	X		
	Ruler Overlay	X		
	Measurement Overlay	X		
	Grids	X		X

4083.Wifi, 4083.4 and 4083.EC2 work with Vision Lite only. Cameras with HDMI connection only, do not require any software.

OPTIKA Vision Lite - Extremely Intuitive Software

Optika Vision Lite has been designed and developed to be incredibly intuitive, simple and easy to use for customers needing a convenient solution to be combined with OPTIKAM cameras.

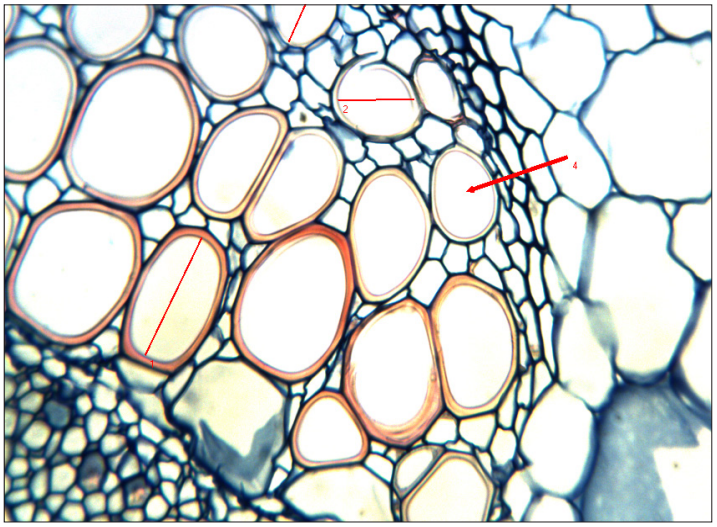
» Friendly interface, multilanguage
» Capture still images & stream live videos
» Perform linear measurements
» Export comprehensive reports



Friendly interface, multilanguage

Engineered for easy user interaction and optimized image acquisition, the main purpose of OPTIKA Vision Lite is ensure clear communication.

- An efficient means to efficiently completing your jobs
- Pleasant, easy-to-navigate menus
- Eight languages pre-installed, others upgreadable



Capture still images & stream live videos

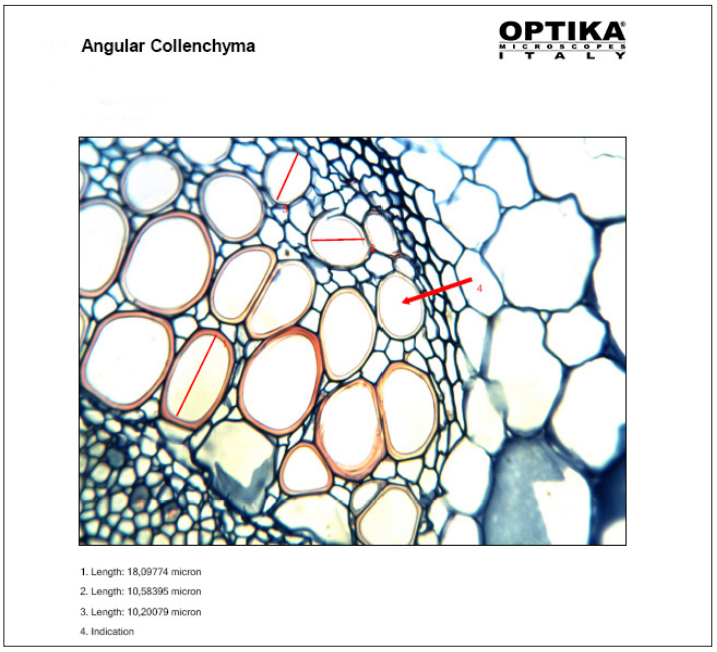
Use the live preview to accurately focus your image and change parameters to obtain the perfect final result you are looking for. Images can be saved in different formats and even as test reports, including personal comments.

Additional features:
- Image stack acquisition
- Grid addition for rapid considerations
- Image flipping option available

Perform linear measurements

Perform linear measurements in an extremely way just by drawing a line after creating your preferred calibration based on the magnification.

- Accurate measurements through simple calibration
- Comprehensive data export (notes & measures included)
- Indicate particular objects in the image to add persona comments



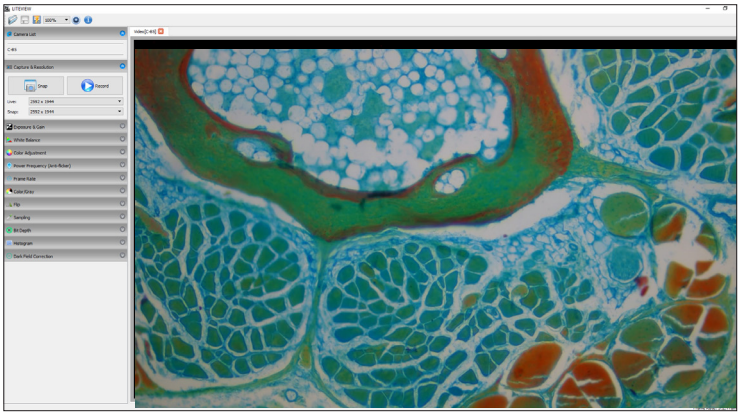
Export comprehensive reports

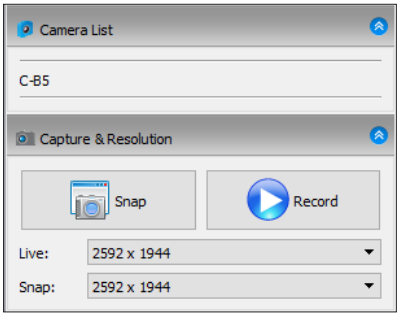
Detailed test reports can be generated, printed and saved. Reports can be also customized with company logos.

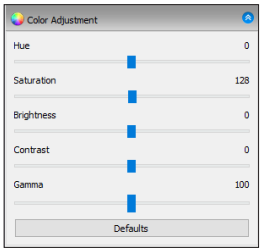
OPTIKA LITEView - Life is Easier

OPTIKA LITEView is a basic image acquisition software. The user who simply wants acquire a still image or a video, with no no need to perform measurements, has, with this powerful and intuitive software, the perfect solution.

-) Simple management of «live» image
-) Acquisition of still images or video
-) Basic imaging functions
-) Background correction



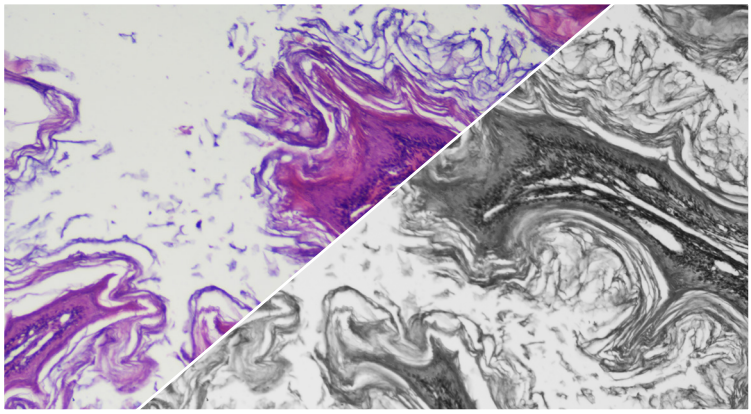




Simple management of «live» image

Image preview is freely customizable by the user. A simple White Balance function with a mobile spot allows to perform the balance even on very small areas, once the specimen has been framed and focused.

Basic functions:
- Automatic or manual acquisition
- Possibility to have «live» and «capture» at different resolutions
- White Balance with mobile spot
- Background correction for the acquisition of perfectly illuminated images.



Color / Grey scales

Capturing still images or video

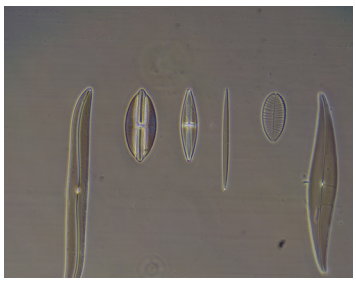
Just select the option and the software performs: acquiring still images or videos is simply and intuitive.

Basic imaging functions

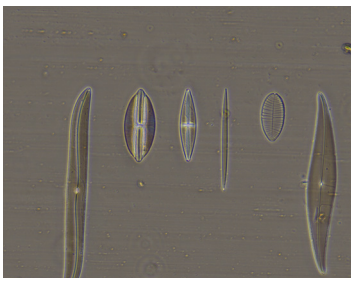
Image parameters can be modified according user's needs. Color, Contrast and Gamma can be chaned in real time.
More, it is possible to use a color camera in «SGrey Scales» modo in order to increase the camera sensitivity.

Background Correction

Any inhomogeneity of illumination of the microscope can be corrected by using the background correction function.
This allows to obtain a faithful reproduction of the image without annoying inhomogeneity due to a not perfect illumination.



No Background correction

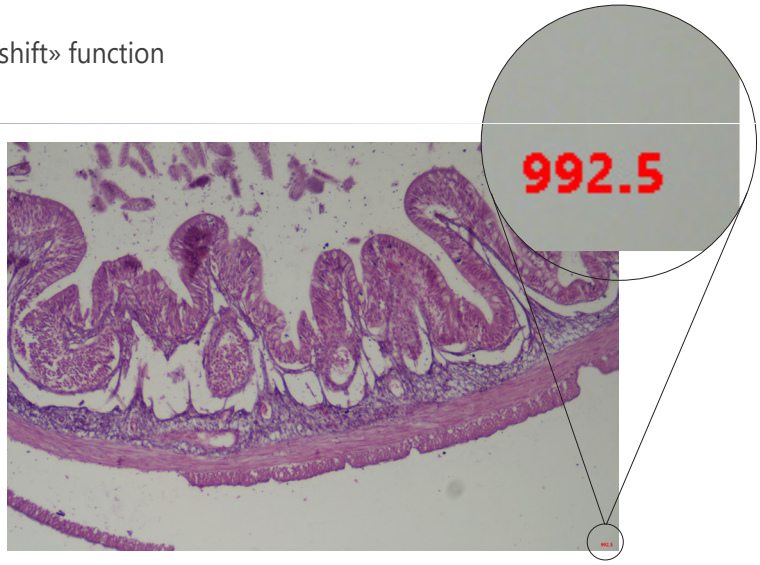


With Background correction

OPTIKA PROView - Professional Image Analysis

OPTIKA PROView is a professional image analysis software. The user who needs to acquire an image or video and to perform a series of processings or measurements, can easily achieve incredible results thanks to this software. PROView incorporates all the functions of the LITEView package, but in addition allows:

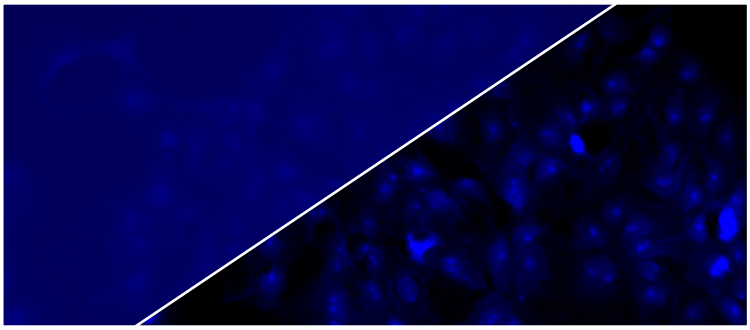
- White Balance and Black Balance
- Simultaneous management of several cameras
- Graphical User Interface fully customizable
- Imaging of Multichannel Fluorescence Images with «pixel shift» function
- Multilanguage Software



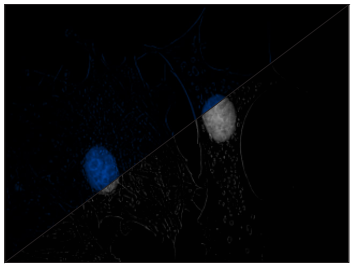
Beginners? Experts?
An «On-line» manual will help any user (no matter on how expert he can be) to get the best from the software

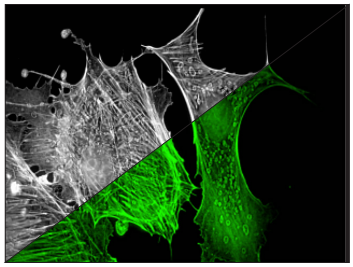
Images always perfect
The management of the acquisition parameters allows to get always the best from your camera. White balance, black balance, background correction, «live» management of Colors, Contrast, Gamma, Gain and Exposure Time ensure to obtain a faithful image. A numerical focus indicator will ensure an optimal focusing, also on specimaens with different focal planes.

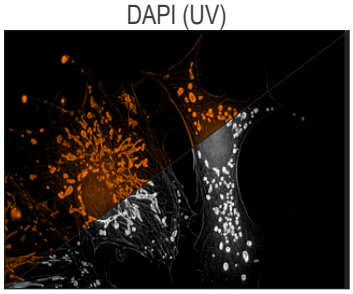
White Balance and Black Balance
It is possible to obtain the balance either on the whole frame or on a small ROI (Region Of Interest) of the image simply resizing and moving the spot in one part of the specimen

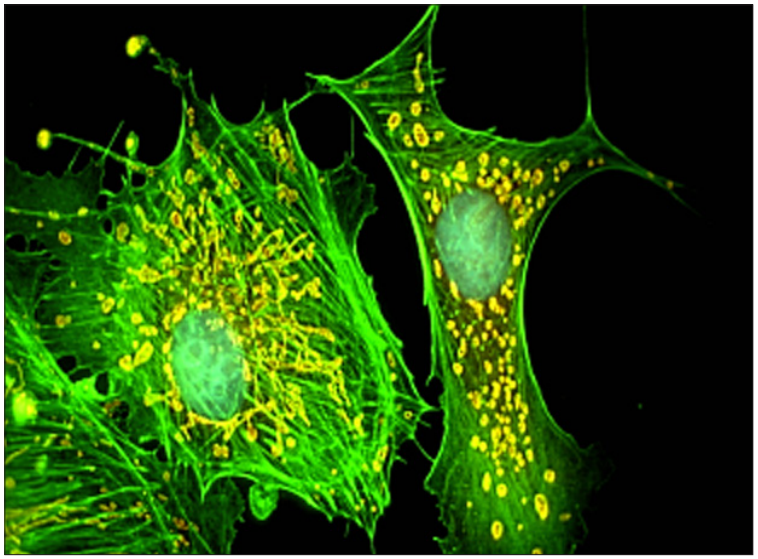

No black correction / Black correction

Multichannel Fluorescence Image processing
Acquire fluorescence images with a specific filtercube, use a false color for the used fluorochrome, get a single multichannel image is simply and intuitive.


DAPI (UV)


FITC (B)

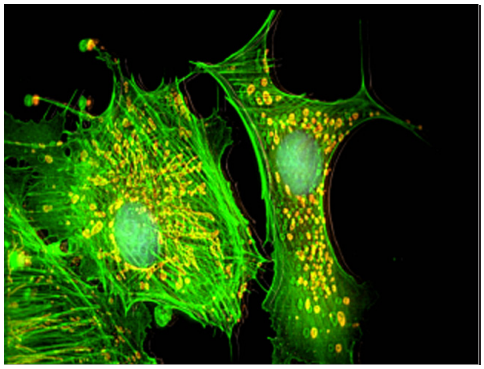

TEXAS RED (G)

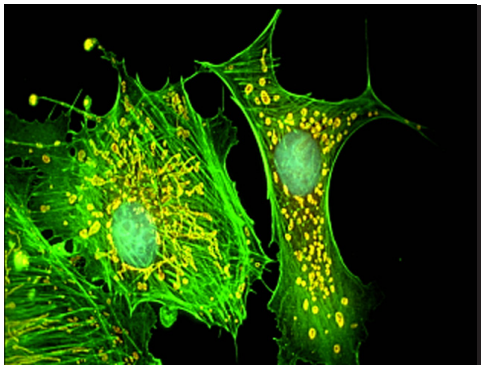

Combined multichannel image

OPTIKA PROView - Professional Image Analysis

«Pixel Shift» function

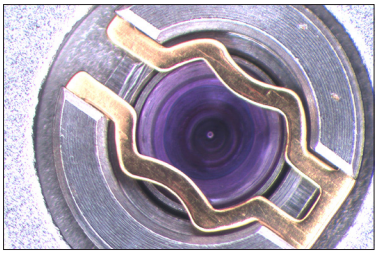
Fluorescence ilter cubes, sometimes, are not perfectly aligned.
During acquisition of multichannel luorescence images, this can cause a non perfect overlapping of the different signals, making the colocalization calculation almost impossible.
«Pixel Shift» function allows to correct these small misalignments:

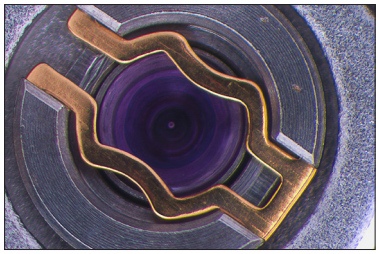

Orignal image


Corrected image

HDR (High Dynamic Range) acquisition

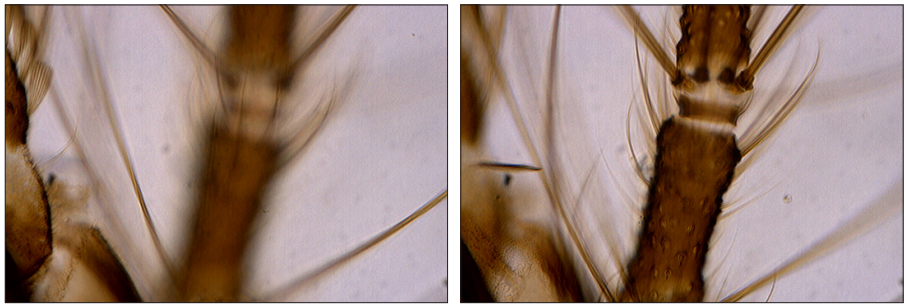
Acquisition of different images with different exposure times allows this function to create a final image where bright and dark zones of the specimen are perfectly displayed.


Standard Dynamic Range


High Dynamic Range

Extended Depth of Focus (EDF)

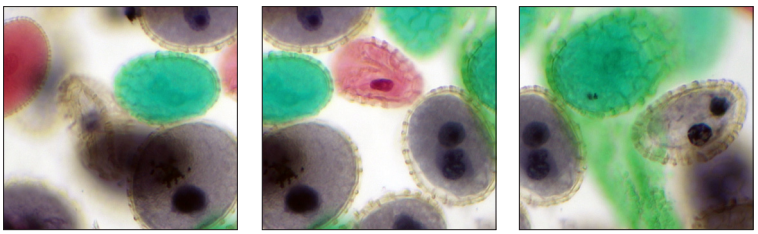
Acquire images with different focal planes, specially on specimens observed under a stereomicroscope, and to obtain a focused final image with a theoretical infinite focus. **EDF** function (also known as «Z-stack») allows a very refined image processing.

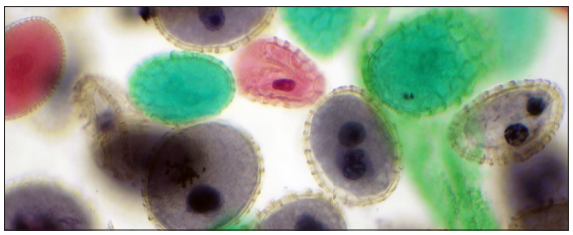

Single Focal Plane Images


EDF Image

Stitching & Tiling

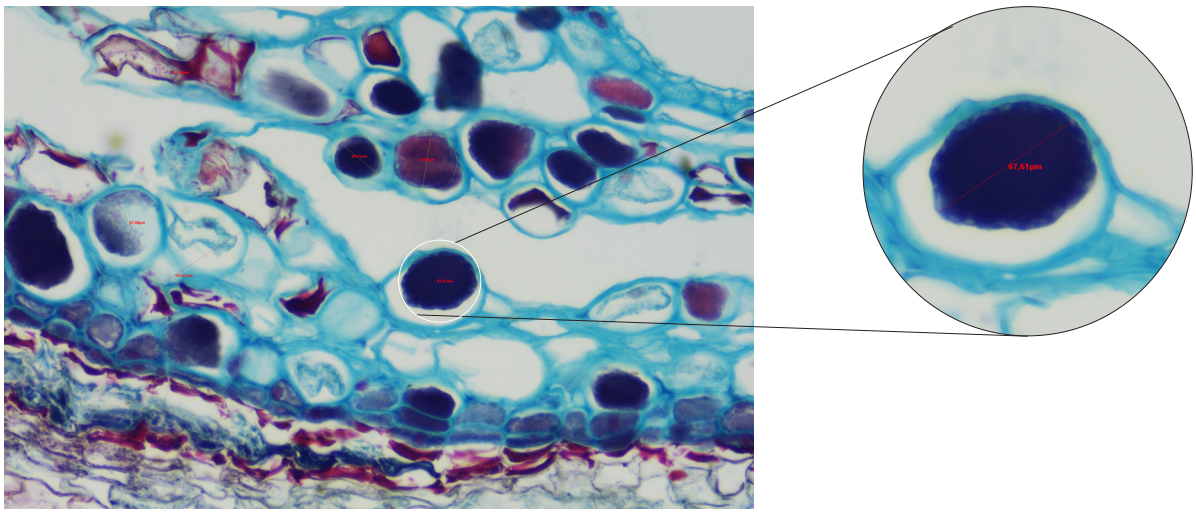
Get an image with high resolution but, at the same time, have a wide view of the specimen under observation.
Impossible? No. The multiple image alignment function allows to get a singe image starting from adjacent images of the specimen.


Separate Images


Stitched image

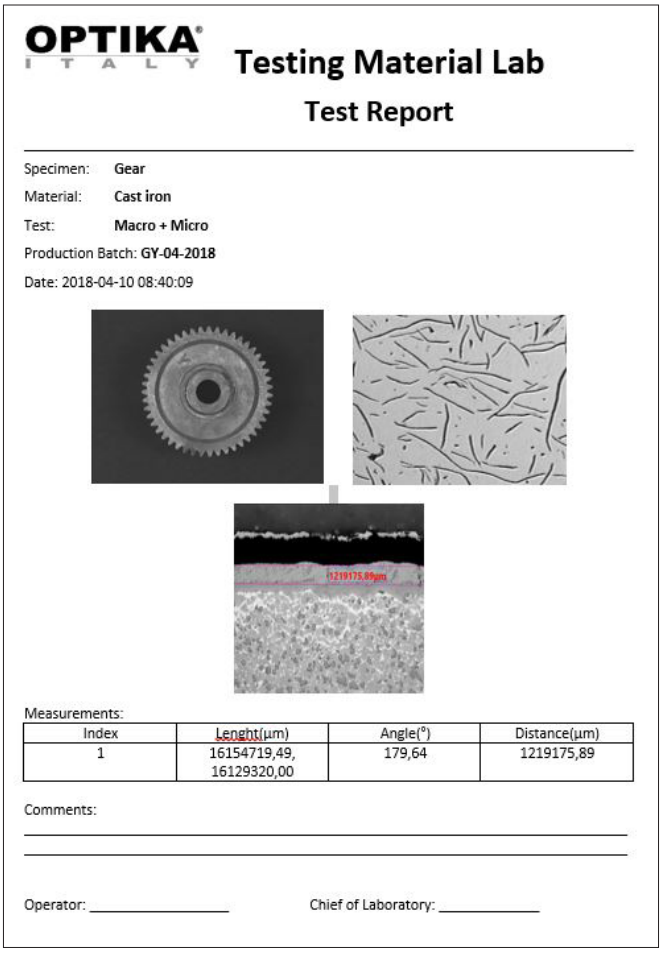
OPTIKA PROView - Professional Image Analysis

Measurements
User can perform measurements on the «live» image (no need to capture an image) and on captured images.



From Beginners To Experts
Measurements available:
- linear measurements
- angles
- circles
- annuli
- poligons
- touch count

Report Generator
At the end of the analysis it is possible to export images and measurement results either on a Excel sheet and on a Report Generator in MS Word format.
The template is freely configurable and can be modified according to laboratory standards.



OPTIKA ITALY

Testing Material Lab

Test Report

Specimen: **Gear**
Material: **Cast iron**
Test: **Macro + Micro**
Production Batch: **GY-04-2018**
Date: 2018-04-10 08:40:09

Measurements:

Index	Lenght(µm)	Angle(°)	Distance(µm)
1	16154719,49, 16129320,00	179,64	1219175,89

Comments:

Operator: _____ Chief of Laboratory: _____

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Headquarters and Manufacturing Facilities

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