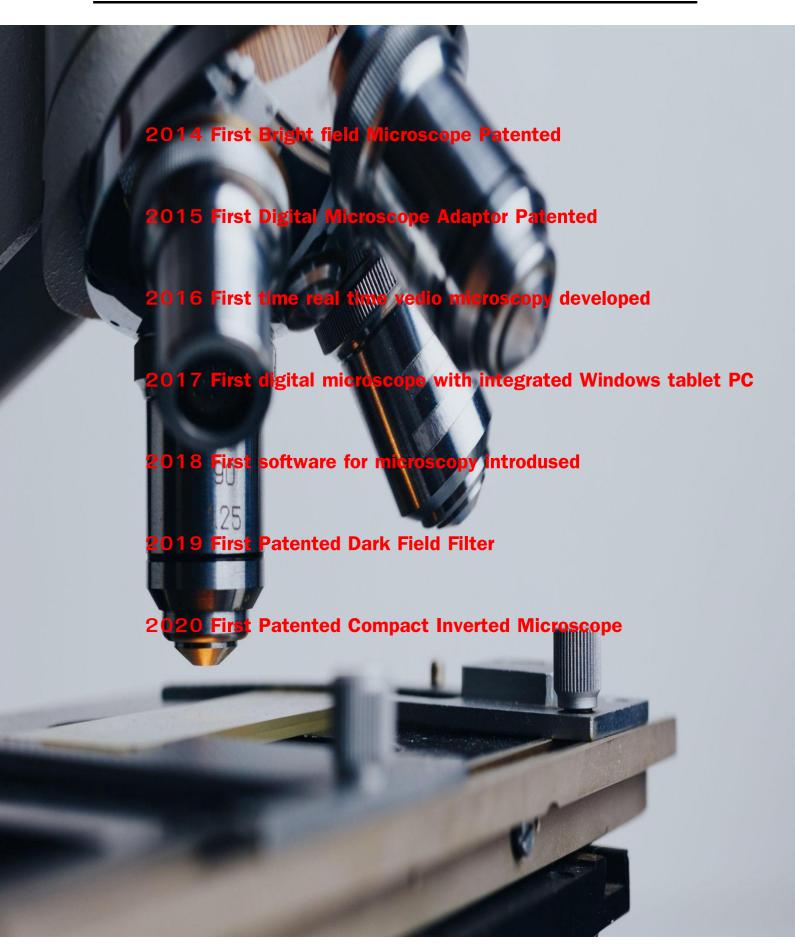


DIGITAL MICROSCOPES



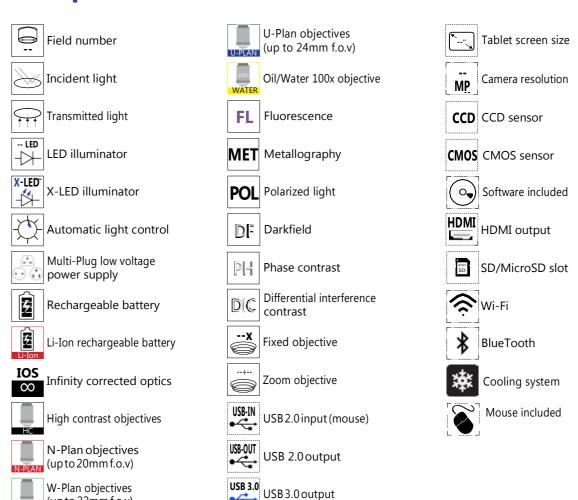
DIGITAL MICROSCOPY CATALOG

SAGLO Research Milestones



Complete Icon List

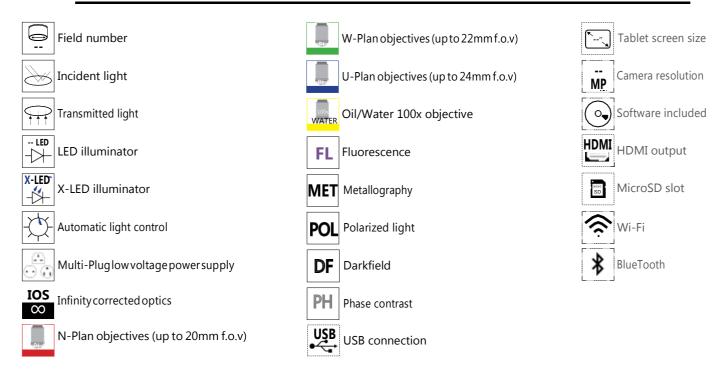
(up to 22mm f.o.v)



LABORATORY Digital Microscopes

SAGL-11 A - Trinocular Brightfield MIcroscope	page 8
SGL-11 B- Digital Microscope with Camera & Tablet	page 9
SGL-11 C - Brightfield Inverted Microscope	page 11
USB CAMERAS - A Series	page 13
SAGLO Soft Micro Imaging - Professional Image Analysis	page 17- 19

<u>Icons</u>





SGL-11 Series



Patented Digital Microscopes

Best Value-for-Money Solutions & Versatile Use

SUITABLE FOR UNIVERSITIES, EXPERTS & ROUTINE LABS

- » The ideal choice for common lab requirements
- » Simply engineered for life-science
- » Ready for Dark Filed, Bright Field and phase contrast

EXCELLENT PRICE/PERFORMANCE RATIO

- » N-PLAN objectives (160 mm or IOS) for flat images on 20 mm FN
- » Fixed Koehler illumination for crisp and contrasted images
- » Rounded edge, rackless stage to prevent scratches

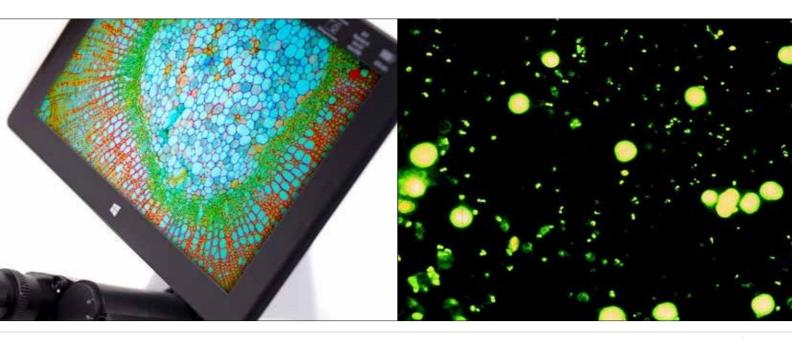


B-290TB - BREAK NEW gROUND WITH WINDOWS TABLET

- » Large touch-screen of 10.8" with fast, responsive and smooth control
- » 360° rotatable, tiltable and easily detachable
- » Simultaneous camera & power connection for long-term operation

B-290LD SERIES - ON-FIELD TBC & MALARIA DIAGNOSIS

- » Ultra-convenient LED fluorescence, blue filter
- » No waiting time, immediate operation
- » Cost-effective, money-saving technology



Patented Technology - Only at SAGLO

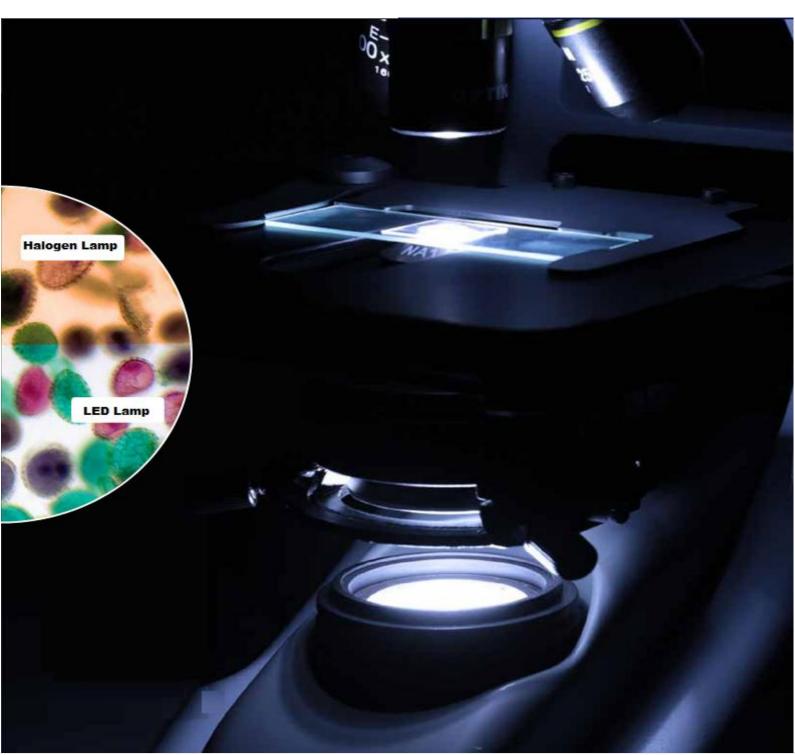
LED LLUMININATION TECHLONOGY

STATE-OF-THE-ART ILLUMINATION SYSTEM

- » Uncomparable light intensity, exclusive lens & collector design
- » Constant pure-white colour temperature at all intensity levels
- » Unmatched color fidelity, uniformity and brightness

CUT ELECTRICITY BILLS By 98%

- » Money & energy saving, only 3.6 W
- » More efficient brightness than a 50 W halogen lamp
- » LED long lifetime (65,000 hours = 22 years at 8 hours/dayusage)



SGL-11 A – Trinocular Brightfield Microscope

SGL-11 A



Trinocular head with N-PLAN objectives, rackless stage and exclusive **LED lilumination** for unmatchable performance, powerful and uniform illumination.

Observation mode: Brightfield.

Head: Trinocular (fixed, 50/50), 360° rotating and 30° inclined. Interpupillary distance 48-75 mm.

Dioptric adjustement: On the left eyepiece tube.

Eyepieces: WF10x/20 mm, high eye-point and secured by screw.

Nosepiece: Quadruple revolving nosepiece, rotation on ball bearings.

Objectives:

N-PLAN 4x/0.10

N-PLAN 40x/0.65 N-PLAN 100x/1.25 (Oil/)

All with anti-fungus treatment.

Specimen stage: Double layer rackless mechanical sliding stage, 150x139 mm, 75x33 mmX-Y movement range. Vernier scale on the two axes, accuracy: 0.1 mm.

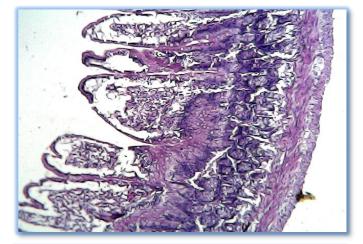
Focusing: Coaxial coarse and fine focusing mechanism with limit stop to prevent the contact between objective and specimen. Adjustable tension of coarse focusing knob.

Condenser: Abbe N.A. 1.25, with objective-coded iris diaphragm, focusable and centerable.

Illumination (Fixed Koehler type): X-LED³ type with white 3.6 WLED (6,300 K) and light intensity control. Multi-plug 100-240Vac/6Vdc external power supply.

Legend

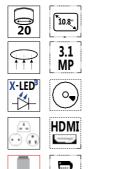
- 1. SGL -11 A with 360° rotating tablet PC for discussion.
- 2. Pine, one year stem, with SGL -11 A and 10x objective, 20x objective and 40x objective.
- 3. SGL -11 A Series exclusive LED illumination system.
- 4. SGL -11 A used by a Researcher.





SGL-11 B- Digital Microscope with Camera & Tablet

SGL-11 B









3.1 MP Built-in camera and 10.8" Windows tablet PC with N-PLAN objectives, rackless stage and exclusive *LED lilumination* for unmatchable performance in illumination. Ideal for discussion group with 360° rotating tablet.

Observation mode: Brightfield

Head: Binocular, 360° rotating and 30° inclined. Interpupillary distance from 48 to 75 mm; dioptric adjuctment on left eyepiece. Built-in 3.1

Dioptric adjustement: On the left eyepiece tube.

Eyepieces: WF10x/20 mm, high eye-point and secured by screw.

Nosepiece: Quadruple revolving nosepiece, rotation on ball bearings.

Objectives:

N-PLAN 4x/0.10 N-PLAN 40x/0.65

All with anti-fungus treatment.

Specimen stage: Double layer rackless mechanical sliding stage, 150x139 mm, 75x33 mm X-Y movement range. Vernier scale on the two axes, accuracy: 0.1 mm.

Focusing: Coaxial coarse and fine focusing mechanism with limit stop to prevent the contact between objective and specimen. Adjustable tension of coarse focusing knob.

Condenser: Abbe N.A. 1.25, with objective-coded iris diaphragm, focusable and centerable.

Illumination (Fixed Koehler type): X-LED³ type with white 3.6 W LED (6,300 K) and light intensity control. Multi-plug 100-240Vac/6Vdc external power supply.





UNIQUE FEATURES

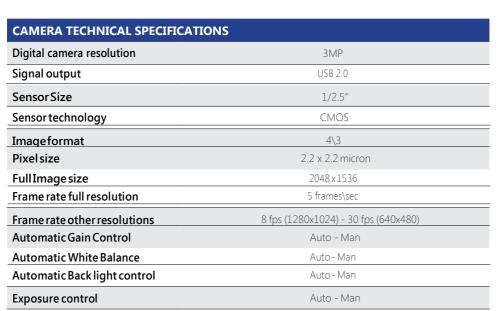
- » Simultaneous camera & power connection
- » Equipped with the latest Windows OS & Intel processor
- » Easily detachable, can be used as a laptop (keyboard included)

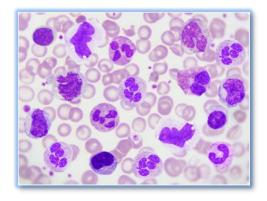
SGL-11 B - Digital Microscope with Camera & Tablet

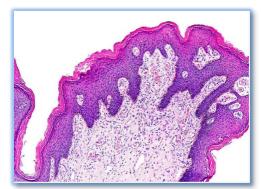
The latest SAGLO digital microscopes with Windows tablet PC open new microscopy horizons, combining high-end optics with innovative digital technology for microscopic imaging. SGL-11 B includes a 3MP camera with a 10.1" Windows tablet. View, capture, analyze and share your images with simplicity and reliability.

TABLET TECHNICAL SPECIFICA	TIONS		
Model	Tablet		
Operating System	Windows 10 32-bit		
Language	Multilanguages already installed		
Image capturing software	SAGLO Micro-imaging		
CPU	Intel® Atom™ Z3735F, Quad core		
CPU speed	1.44 GHz		
Graphics Card	Intel® HD Graphics 3D Accelerator		
LCD display	LED 10.1" IPS Multi Touch Screen		
Memory	Ram 2,048 GB DDR3L		
LCD resolution	1920 x 1280, 16/10 (WXGA)		
Storage	HDD 64GB		
Input/output ports	Micro USB-B - USB - Microphone - MicroSD card reader Mini HDMI - Head-phone		
Network	Wireless, Bluetooth 4.0		
Control Buttons	Auto rotate off, volume control		
BatteryTechnology	Lithium-ion battery, 2xcell		
Battery capacity	8400 mAh		
Maxload	15 W		
Weight	720 g		
Dimensions	Thickness 10,5 mm, Height 17,4 cm, Width 25,7 cm		
Cables included	USB-B to USB-A / OTG cable (Micro USB-B to USB-A)		
Also included	Instruction manual, Keyboard with touchpad, touch pen.		









SGL-11 C - Brightfield Inverted Microscope

SGL-11 C looks at the challenge of the future with confidence, offering first-class optical quality and mechanical versatility, to extend its use with several accessories. Ensuring top-level brightfield and inverted observation, as it comes with a set of 3 IOS LWD W-PLAN PH objectives (10x, 20x and 40x). The high-efficiency **LED lilumination** makes it reliable for all transmitted light observations. For a more complete solution, choose among the several accessories available (objectives, translating stage, side extensions, holders and stage inserts).















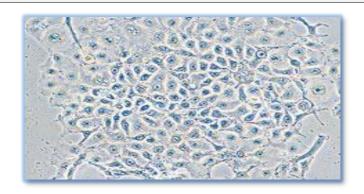
Part	Description	
Observation mode:	Brightfield, phase contrast.	
Head:	Trinocular (2-position 100/0, 50/50), 45° inclined.	
Interpupillary dista	nce: Adjustable between 50 and 75 mm.	
Dioptric adjustment	t: On the left eyepiece tube.	
yepieces: WF10x/22 mm, high eye-point and with rubber cups.		
Nosepiece:	Quintuple revolving nosepiece, rotation on ball bearings.	
Objectives:	IOS LWD W-PLAN PH 10x/0.25	
	IOS LWD W-PLAN PH 20x/0.40	
	IOSLWDW-PLANPH40x/0.65	
	All with anti-fungus treatment.	







Part	Description	
Specimen stage:	Fixed stage, 250x160 mm, with glass and metal stage inserts.	
Focusing:	Coaxial coarse (adjustable tension) and fine focusing mechanism with limit stop to prevent the contact between objective and specimen.	
Condenser:	LWD pre-centered condenser, N.A. 0.30, W.D. 72 mm. With 4x/10x, 20x/40x phase contrast slider and brightfield. Removable to extend the working distance up to 150 mm.	
Transmitted illumination:	X-LED ⁸ with white 8 W LED (6,300K) with brightness control. With aperture diaphragm. Multi-plug 100-240Vac/6Vdc external power supply	





Microscope Cameras



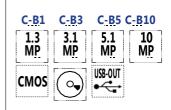
MICROSCOPE CAMERAS

Cameras & Digital Solutions

Cameras for Microscopy & Digital Scanner

USB CAMERAS - ASeries





USB 2.0 C-mountand Eyepiece Microscope Cameras

Cameras have become indispensable nowadays and SAGLO is offering a line of remarkable solutions for digital imaging. SAGLO A Series represents a cost-effective solution equipped with the latest technology sensors with more vivid colors and great contrast for stunning images.

This series features Aptina CMOS sensor with excellent color reproduction, significantly high frame rates and several resolutions available to match any customer need.

Thanks to the convenience and simplicity, being extremely intuitive to install and operate, the SAGLO A Series is recommended for educational and routinary microscopes, also as eyepiece cameras (no need for additional adapters/rings in case of monocular and binocular microscopes).

All the main operating systems like Windows, IOS, Linux are supported. Software included: SAGLO Soft Microimaging Software.

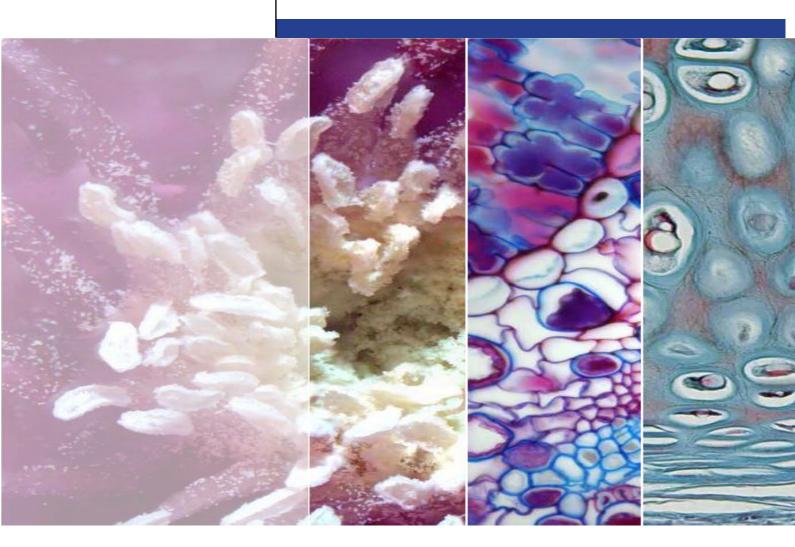
USB CAMERAS – A Series - Specifications

	C-A1	C-A3
Digital camera resolution	1.3 MP (1280 x 1024)	3.1 MP (2048 x 1536)
Signal output	USB 2.0	USB 2.0
Sensor Size	1/3"	1/2"
Sensor technology	CMOS	CMOS
Sensor type	Aptina CMOS	Aptina CMOS
Image format	5/4	4/3
Pixel size	3.6 x 3.6 µm	3.2 x 3.2 µm
Frame rate full resolution	15 fps (1280 x 1024)	12 fps (2048 x 1536)
Frame rate other resolutions	50 fps (320 x 256)	45 fps (680 x 510)
Sensitivity	1 V/lux-second	1 V/lux-second
Signal / noise ratio	44 dB	43 dB
Dynamic range	71 dB	61 dB
ADC conversion	8 Bit	8 Bit
Color Depth	1 Bit; 4 Bit; 8 Bit; 24 Bit	1 Bit ; 4 Bit; 8 Bit; 24 Bit
Exposure Time	0.14 msec - 2 sec	0.244 msec - 2 sec
Binning	1x1; 2x2; 4x4	1x1; 2x2; 3x3
IR filter	380-650 nm (IR-cut filter)	380-650 nm (IR-cut filter)
Camera power	PC USB	PC USB
C-mount	YES	YES

Accessories included: 0.37x (for 23 mm eyepiece tube), 30 mm & 30.5 mm diameter (except 4083.F33), calibration slide, 1.8 m USB cable



SAGLO SOFTSOFTWARE



SAGLO SOFTWARE SUITES

SAGLO SOFTWARE – Function chart

Software

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



Software Function List

	FUNCTIO	N	SAGLO SOFT VIEW
	Simultaneous management of severa	\checkmark	
	GUI (Graphical User Interface)		\checkmark
	Report generator Archiving		\checkmark
			\checkmark
		Catalan	X
		Chinese (simpl.)	X
		Chinese (trad.)	X
		Korean	Х
		English	√
		French	X
GENERAL		German	Χ
	Language	Indonesian	Х
		Italian	X
		Japanese	Χ
		Polish	X
		Russian	Х
		Spanish	Х
		Swedish	X
		Thai	X
		Turkish	Х

	FUNCTION		SAGLO SOFT VIEW
	Measurements on "live"		√
	Measurements on "captured"		√
		Line	√
(0		Angle	√
Ĕ		Parallel lines	√
Ē		Rectangle	$\sqrt{}$
	20 Marshinana	Ellipse	√
R	2D Measurements	Circle	$\sqrt{}$
MEASUREMENTS		Annulus	√
Æ		Arc	√
_		Curve	√
		Polygon	√
	Particle count		√
	Export to Excel		√

Software Function List

	FUNCTIO	SAGLO SOFT VIEW	
	Simultaneous management of severa	l cameras	√
	IMAGE acquisition		√
	Image formats	tiff	√
		jpg	√
		bmp	√
		png	√
		рсх	$\sqrt{}$
		jp2	√
		dcm	√
	IMAGE acquisition		√
		avi	√
		wmv	√
		mp4	√
	VIDEO formats	asf	√
Z	VIBEO IOIIIIdis	3gp	√
2		mov	√
SIT		h264	√
IMAGE ACQUISITION		h265	√
သို	Continuous automatic exposure		√
Щ	Manual Exposure		√
5	Mobile spot for exposure		√
Ž	Resizable spot for exposure		√
_	Colour acquisition		√
	Grey-scale acquisition		√
	Manual Time-Lapse		√
	Automatic Time-Lapse		√ /
	Fast Image Acquisition		√
	Focus Indicator	√ /	
	White Balance		√
	Black balance		√ /
	Background correction		√ /
	Dark Field Correction		√ /
	Image Enhancement		√
	Live Histogram	11	√ /
	Flip	Horizontal	√ /
	•	Vertical	√ /
	Rotate		\checkmark

	FUNCTION	SAGLO SOFT VIEW
	Several function of image processing (filters)	√
	Multiple image combining	√
-	EDF (Extended Depth of Focus)	√
10	Colour Combine (Multi-Fluorescence Imaging)	√
S	Shift Correction	√
S	HDR (High Dynamic Range)	√
Ö	Layer Management	√
Ž	Text Overlay	√
0	Ruler Overlay	√
	Measurement Overlay	√
	Grids	√

SAGLO Soft Micro Imaging - Professional Image Analysis

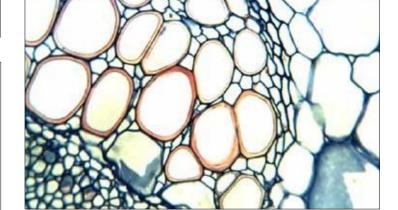
SAGLO Soft Micro Imaging has been designed and developed to be incredibly intuitive, simple and easy to use for customers needing a convenient solution to be combined with SAGLO cameras.

- » 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 SAGLO Vision 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.

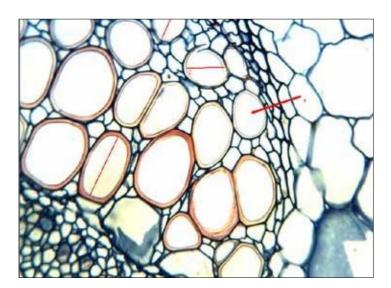
Additional features:

- 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. **SAGLO Soft Micro Imaging** is a basic image acquisition software. The user who simply wants acquire a stil I 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.

Capturing still images or video

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



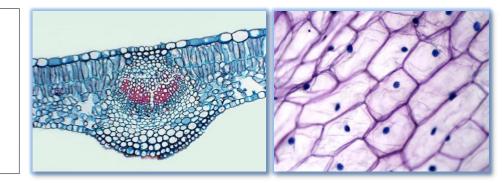
Basic imaging functions

Image parameters can be modified according user's needs. Color, Contrast and Gamma can be channed 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 correctionfunction.

This allows to obtain a faithful reproduction of the image without annoying inhomogeneity due to a not perfect illumination.



Extended Depth of Focus (EDF)







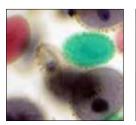
Cameras & Digital

Single Focal Plane Images

EDF Image

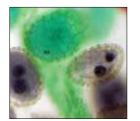
Stitching & Tiling

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

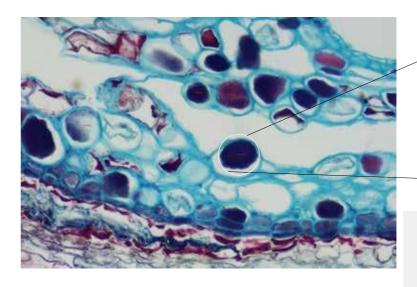


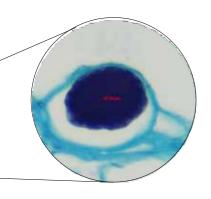


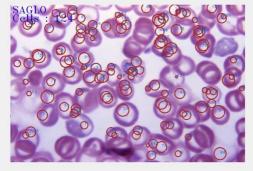
Stitched image

Measurements

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







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.

From Beginners To Experts

Measurements available:

- · linear measurements
- angles
- circles
- annuli
- poligons
- · touch count

ell detail:	s		Cell Count/ S	ize
Cell No	Area (µm²)	Radius (µm)	Size (µm)	Cell Count (No.)
1	644.026533515828	14.3178215026855	0 - 10	4
2	282.743317257569	9.48683261871338	10 - 20	7
3	229.336249824965	8.5440034866333	20 - 30	0
4	920.486652286386	17.1172428131104	30 - 40	0
5	644.026533515828	14.3178215026855	40 - 50	0
6	267.035372856417	9.21954441070557	50 - 60	0
7	731.991089935965	15.2643375396729	60 - 70	0
8	383.274272369014	11.0453605651855	70 - 80	0
9	364.424738419067	10.7703294754028	80 - 90	0
10	766.548632904446	15.6204996109009	90 - 100	0
11	267.035372856417	9.21954441070557	100 - 110	0



Our Company Recognized By







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realization and continuous evolution of the Quality
Management System in order to consolidate and improve the
Company image, also through the commitment and
professionalism of all Company staff.

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