OPTIKA®
MICROSCOPES
ITALY

Cameras & Digital Solutions

Cameras / Softwares / Optiscan

More Power Behind Every Pixel

EDUCAM & VC Series

THE MUST-HAVE IN EDUCATIONAL FIELD
» Direct connection to TV screen
» Up to 90x magnifying power

TABLET Series

WINDOWS TABLET PC WITH CAMERA FOR DISCUSSION GROUPS
» Clearly superior images on a 10.1" touch screen
» A 2-in-1 solution

OPTIKAM BUDGET Series

USER-FRIENDLY USB CAMERAS FOR GENERAL PURPOSE
» Convenient, plug-&-play solutions
» Different resolution available (up to 10 MP)

OPTIKAM WIFI

WIFI CONNECTION FOR TEACHING & GROUPS
» Unlimited users connectable
» Supported by any device (PC, tablet or smartphone)

With Vivid Colors And Greater Contrast For Stunning Images

OPTIKAM FAST3

PROVIDING EXTREMELY FAST LIVE-VIEW
» USB3.0 for the latest technology
» Extremely reliable color fidelity

OPTIKAM HDMI Series

HIGHLY VERSATILE USE (QC, LAB, INDUSTRIAL)
» High-definition cameras in HDMI & USB mode
» Plug-&-play solutions for TV screen

OPTIKAM PRO LT Series

THE RESPONSE TO PROFESSIONAL NEEDS
» Incredibily high color fidelity
» Recommended for fluorescence applications

OPTIKAM Pro Cool 5

PERFORMING RESULTS IN LOW LIGHT CONDITIONS
» High sensibility, professional cooled camera
» Ideal for challenging fluorescence samples

Icons

Mpixels

CCD Sensor

CMOS Sensor

Ring adapter

Adapter


Calibration slide

HDMI Output

USB Input

USB Output

USB 3.0

SD card

MicroSD card


WI-FI


Cooled


Calibration and measurements


Bluetooth


10.1" Tablet screen size


Software on CD


Mouse controlled

EDUCAM and VC Series

4083 - 4083.1 - 4083.2 - 4083.3 USB - 4083.4

CCD | 23 | 30 | 4083.4 | USB-OUT 4083.4

EDUCAM - Multimedia cameras to meet various requirements in the educational field

- Direct connection to TV screen and monitor
- Versatile and flexible, yet sturdy and stable at the same time: can be used as overhead projector, for the projection of drawings, as a camera for teleconferences, assemblies, meetings or as a camera for filming
- Up to 90x magnifying power for any specimen and object
- 8mm objective lens enables focus from 0,76 cm, up to an infinite distance
- Extremely sensitive microphone to record voices/sounds (Multimedia models only)

All models are equipped with two adapters for video-microscopy (for biological and stereo microscopes).

VC-05 - Simple eyepiece camera with CCD sensor, 420 TV Lines (PAL)

MIC- 4083.5

VC-05

	MULTIMEDIA 4083	MULTIMEDIA PRO 4083.1	STUDENT 4083.2	STUDENT PRO 4083.3	USB 4083.4	MIC 4083.5	VC-05
Digital camera resolution	NO	NO	NO	NO	0.3 MegaPixels	NO	NO
Analog camera resolution	PAL 582 x 420	PAL 582 x 420	PAL 582 x 420	PAL 582 x 420	PAL 582 x 420	PAL 582 x 420	PAL 582 x 420
Signal output	PAL	PAL	PAL	PAL	PAL , USB2.0	PAL	PAL
Audio Signal	Analog	Analog	NO	NO	Analog	NO	NO
Sensor Size	1\3"	1\3"	1\3"	1\3"	1\3"	1\3"	1\3"
Sensor technology	CCD	CCD	CCD	CCD	CCD	CCD	CCD
Image format	4\3	4\3	4\3	4\3	4\3	4\3	4\3
Full Image size	-	-	-	-	640 x 480	-	-
Frame rate full resolution	50 frames\sec (analog mode)	50 frames\sec (analog mode)	50 frames\sec (analog mode)	50 frames\sec (analog mode)	50 frames\sec (analog mode), 25 frames\sec (digital mode)	50 frames\sec (analog mode)	50 frames\sec (analog mode)
Max Exposure time	-	-	-	-	Auto	-	-
ON board Memory	NO	NO	NO	NO	NO	NO	NO
External Memory Card	NO	NO	NO	NO	NO	NO	NO
External camera power	15V DC power supply	15V DC power supply	12V DC power supply	12V DC power supply	15V DC power supply	12V DC power supply	12V DC power supply
White Balance	Auto	Auto	Auto	Auto	Auto	Auto	Auto
Gain Control	Auto	Auto	Auto	Auto	Auto	Auto	Auto
Back light control	Auto	Auto	Auto	Auto	Auto	Auto	Auto
Exposure control	Auto	Auto	Auto	Auto	Auto	Auto	Auto
C-Mount connection	YES	YES	YES	YES	YES	YES	NO
CS-Mount connection	NO	NO	NO	NO	NO	NO	NO
Arm length	50cm	65cm	50cm	65cm	65cm	-	-
8mm objective	YES	YES	YES	YES	YES	YES	NO

Accessories included:
All models: SCART for TV plug, 23mm eyepiece tube adapter and 30mm ring adapter for microscopes.
VC-05: 23mm to 30mm or 30.5mm ring adapters for microscopes, SCART for TV plug.

TABLET Series - **TB-3W & TB-5W**

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

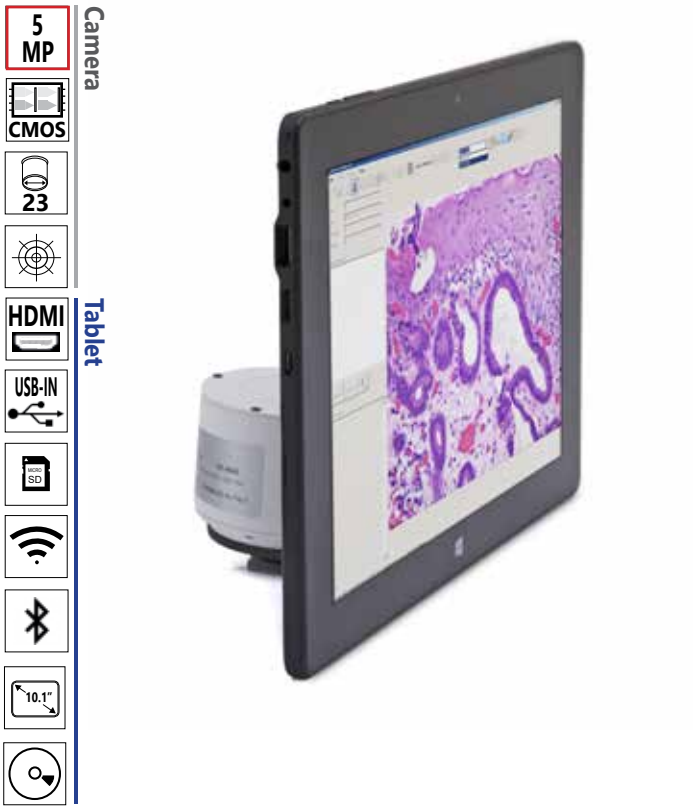
Exclusive tablet PC, powerful and versatile for a great user experience. Always one step forward to ensure the latest technology!

- For trinocular microscopes only
- A 2-in-1 solution that you can use like a PC, being Windows-based
- Powerful Intel processor ensuring top performance and speed
- High-resolution, vivid color graphic display
- Large touch screen of 10.1" with fast, responsive and smooth control
- Attached camera available in 3MP (TB-3W) or 5MP (TB-5W) resolution
- Holding solution for open discussion, 360° rotating
- Includes the user-friendly and intuitive Optika Vision Lite software

TB-3W

Windows tablet PC with large **10.1" LCD touch screen**, combined with a **3MP camera** to create the most advanced solution for digital microscopy.

TB-5W



Windows tablet PC with large **10.1" LCD touch screen**, combined with a **5MP camera** to create the most advanced solution for digital microscopy.

TABLET Series - **TB-3W & TB-5W**

Perform **linear measurement** on your image with OPTIKA Vision Lite just by drawing a line!

TABLET TECHNICAL SPECIFICATIONS	
Model	Tablet 10.1"
Operating System	Windows 10 32-bit
Language	Multilanguages already installed
Software	OPTIKA Vision lite
CPU	Intel® Atom™ Z3735F, Quad core
Memory	Ram 2,048 GB DDR3L
LCD display	**LED 10.1" IPS Multi Touch Screen**
LCD resolution	1280 x 800, 16/10 (WXGA)
Storage	HDD 32GB
Network	Wireless, Bluetooth 4.0
Input/output ports	USB - Microphone - MicroSD card reader - HDMI - Head-phone
Battery capacity	6000 mAh
Dimensions	Thickness 10,5 mm, Height 17,4 cm, Width 25,7 cm
Weight	600 g
Cables included	OTG cable (Micro USB-B to USB-A)

CAMERA TECHNICAL SPECIFICATIONS		
Model	**TB-3W**	**TB-5W**
Digital camera resolution	3,14 Mpixels	5,0 Mpixels
Signal output	USB 2.0	USB 2.0
Full Image size	2048 x 1536	2592 x 1944
Frame rate full resolution	6,5 frames/sec (2048x1536)	7 frames/sec (2592 x 1944)
Frame rate other resolutions	55 frames/sec (640x480)	46 frames/sec (640x480)

Accessories included: 0.5x adapter for 23mm tube, micrometer slide for software calibration, 1mm/10um, 10mm/100um, USB cable, keyboard with touchpad, touch pen.

OPTIKAM Budget Series

	OPTIKAM B05 4083.B05
Digital camera resolution	0.3 MegaPixels
Analog camera resolution	NO
Signal output	USB 2.0
Audio signal	NO
Sensor size	1\4"
Sensor technology	CMOS
Image format	4\3
Full image size	640 x 480
Frame rate full resolution	30 frames/sec (640 x 480)
Frame rate other resolutions	NO
Max exposure time	Auto
On board memory	NO
External memory card	NO
External camera power	PC USB
Cooling system	NO
White balance	Auto / Man
Gain control	Auto / Man
Back light control	Auto / Man
Exposure control	Auto / Man
C-mount connection	NO
CS-mount connection	NO

Accessories included: 30mm and 30.5mm ring adapters for built-in 23mm eye-piece adapter, USB cable.

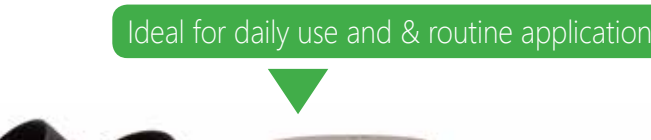
User-friendly eyepiece camera to be combined with any microscope

- Direct connection into the eyepiece tube instead of one of the eyepieces (23mm, 30mm & 30.5mm diameter)
- No additional adapters required
- Very useful for educational purposes
- Removable miniUSB cable
- Includes the user-friendly and intuitive Optika Vision Lite software

Ready to use, instead of one of the eyepiece.

	OPTIKAM B2 4083.B2
Digital camera resolution	2 MegaPixels
Analog camera resolution	NO
Signal output	USB 2.0
Audio signal	NO
Sensor size	1\2.5"
Sensor technology	CMOS
Image format	4/3
Full image size	1600x1200
Frame rate full resolution	15fps (1600*1200)
Frame rate other resolutions	30fps (800*600)
Max exposure time	0,25 sec
On board memory	NO
External memory card	NO
External camera power	PC USB
Cooling system	NO
White balance	Auto / Man
Gain control	Auto / Man
Back light control	Auto / Man
Exposure control	Auto / Man
C-mount connection	YES
CS-mount connection	NO

Accessories included: CS- to C-mount adapter, micrometer slide for software calibration, 1mm/10um, 10mm/100um, USB cable.



Low budget c-mount camera

- C-mount connection only
- 2MP resolution
- Driver free
- TWAIN Driver compatibility
- Includes the user-friendly and intuitive Optika Vision Lite software

Ideal for daily use and & routine applications

OPTIKAM Budget Series

B1 1.2 MP | B3 3.1 MP | B5 5.0 MP | B9 10 MP | CMOS | 23 | 30 | 30.5 | USB-OUT

A comprehensive range of cameras with different resolutions (up to 10 MP)

- Connection for both trinocular C-mount ports and eyepiece tubes
- No additional adapters required for mono and bino models
- Lightweight cameras, to be used even on the smallest and lightest microscopes
- Optika IS view and Optika Vision Lite softwares included

> Remove the eyepiece.
> Insert the camera.
> Enjoy your digital experience.

	OPTIKAM B1 4083.B1	OPTIKAM B3 4083.B3	OPTIKAM B5 4083.B5	OPTIKAM B9 4083.B9
Digital camera resolution	1.21 MegaPixels	3.14 MegaPixels	5.0 MegaPixels	10.0 MegaPixels
Analog camera resolution	NO	NO	NO	NO
Signal output	USB 2.0	USB 2.0	USB 2.0	USB 2.0
Audio signal	NO	NO	NO	NO
Sensor size	1\2.5"	1\2"	1\2,5"	1\2,3"
Sensor technology	CMOS	CMOS	CMOS	CMOS
Image format	4/3	4\3	4\3	4\3
Full image size	1272x952	2048x1536	2592x1944	3664x2740
Frame rate full resolution	19fps (1272x952)	6,5 frames/sec (2048x1536)	7 frames/sec (2592x1944)	3 frames/sec (3664x2740)
Frame rate other resolutions	52fps (632x472)	28 frame/sec (1024x768) 55 frames/sec (640x480)	46 frames/sec (640x480)	25 frames/sec (1280x960) 30 frames/sec (640x480)
Max exposure time	0,25 sec	0,5 sec	2,9 sec	1,1 sec
On board memory	NO	NO	NO	NO
External memory card	NO	NO	NO	NO
External camera power	PC USB	PC USB	PC USB	PC USB
Cooling system	NO	NO	NO	NO
White balance	Auto / Man	Auto / Man	Auto / Man	Auto / Man
Gain control	Auto / Man	Auto / Man	Auto / Man	Auto / Man
Back light control	Auto / Man	Auto / Man	Auto / Man	Auto / Man
Exposure control	Auto / Man	Auto / Man	Auto / Man	Auto / Man
C-mount connection	YES	YES	YES	YES
CS-mount connection	NO	NO	NO	NO

Accessories included: C-mount to 23mm adapter, 23mm to 30mm and 30.5mm ring adapters, micrometer slide for software calibration, 1mm/10um, 10mm/100um, USB cable.

OPTIKAM WIFI - 4083.WiFi

5 MP | CMOS | 23 | 30 | 30.5 | USB-OUT

Camera with remote WiFi connection, ideal for teaching purposes and discussion groups

- Connection for both trinocular C-mount ports and eyepiece tubes
- WiFi & USB camera
- 5 MP resolution on USB mode and 2 MP resolution on WiFi mode
- Ideal for educational applications
- Lightweight cameras, to be used even on the smallest and lightest microscopes
- Direct connection via browser to share the specimen view (router is not needed)
- Unlimited users connectable (average speed depending on connected users)
- Supported by any device (PC, tablet or smartphone) with any type of browser
- Image and video capturing function when used in WiFi mode
- Includes the user-friendly and intuitive Optika Vision Lite software (USB mode)

OPTIKAM WIFI 4083.WiFi	
PC camera resolution	5.0 MegaPixels
WiFi camera resolution	2.0 MegaPixels
Signal output	USB 2.0, WiFi
Audio Signal	NO
Sensor Size	1\2.5"
Sensor technology	CMOS
Image format	4\3
Full Image size	2592 x 1944
USB Frame rate Full resolution	3 frames/sec: 2592 x 1944
USB Frame rate other resolutions	11 frames/sec: 640 x 480, 8 frames/sec: 1024 x 768
WiFi Frame rate Low resolution	2 frames/sec: 640 x 480 with 10 users
WiFi Frame rate other resolutions	1 frames/sec: 1024 x 768 with 10 users, 1 frames/3sec: 1600 x 1200 with 10 users
Max Exposure time	Automatic
ON board Memory	NO
External Memory Card	NO
External camera power	5 V 2000mA
Cooling system	NO
White Balance	Auto / Man
Gain Control	Auto / Man
Back light control	Auto / Man
Exposure control	Auto / Man
C-Mount connection	YES
CS-Mount connection	YES, ready

Accessories included: CS- to C-mount adapter, C-mount to 23mm adapter, 23mm to 30mm and 30.5mm ring adapters, micrometer slide for software calibration, 1mm/10um, 10mm/100um, USB cable.

USB and WiFi camera in once.
No router needed!

OPTIKAM FAST3 - 4083.F33

3 MP | CMOS | USB-3.0

Get the latest technology with this USB3.0 camera for extremely fast live-view

- C-mount connection ideal for professional microscopes
- USB 3.0 technology, enabling incredibly high speed live-view
- Reliable color fidelity CMOS camera
- Optika IS view and Optika Vision Lite softwares included

It is all about speed.
Four times faster than a USB 2.0 camera,
Ideal for moving samples

OPTIKAM FAST3 4083.F33	
Digital camera resolution	3.0 MegaPixels
Analog camera resolution	NO
Signal output	USB 3.0
Audio Signal	NO
Sensor Size	1\2.7"
Sensor technology	CMOS
Image format	16\9
Full Image size	2304 x 1296
Frame rate	30 frames/sec (1920 x 1080)
Frame rate other resolutions	7 frames/sec (2304 x 1936)
Max Exposure time	330 msec
ON board Memory	NO
External Memory Card	NO
External camera power	PC USB
Cooling system	NO
White Balance	Auto / Man
Gain Control	Auto / Man
Back light control	Auto / Man
Exposure control	Auto / Man
C-Mount connection	YES
CS-Mount connection	NO

Accessories included: micrometer slide for software calibration, 1mm/10um, 10mm/100um, USB cable.

OPTIKAM HDMI Easy - 4083.13E

5 MP | CMOS | HDMI | USB-OUT | SD | | |

HDMI / USB camera for easy operation, no compromises in quality

- CS and C-mount connection, eyepiece adapter available
- No installation of software required when used in HDMI mode
- HDMI (720p) and USB camera, for TV live view and PC use
- Extremely reliable color fidelity
- Lightweight cameras, to be used even on the smallest and lightest microscopes
- SD card enables images and videos capturing
- Built-in function buttons for HDMI camera control
- Optika Is View software included

USB and HDMI (720p) camera in once. Automatic settings and **driver-free** for **simplified use.**

OPTIKAM HDMI - 4083.13H

5 MP | CMOS | HDMI | USB-OUT | USB-IN | SD | | | |

HDMI / USB camera for extremely easy operation, and maximum flexibility

- C-mount connection, eyepiece adapter available
- No installation of software required when used in HDMI mode
- HDMI (1080p) and USB camera, for TV live view and PC use
- Reliable color fidelity
- Highly reccomended for wide range of applications
- SD card enables images and videos capturing
- External mouse (included) for HDMI camera control
- Optika Is View and Optika Vision Lite softwares included

USB and full HD HDMI (1080p) camera in once. Mouse-controlled, driver-free.

OPTIKAM HDMI Pro - 4083.13

6 MP | CMOS | HDMI | USB-OUT | USB-IN | SD

HDMI / USB camera combining easy operation with top performances

- CS and C-mount connections, eyepiece adapter available
- No installation of software required when used in HDMI mode
- HDMI (1080p) and USB camera, for TV live view and PC use
- Extremely reliable color fidelity
- Highly reccomended for wide range of applications
- SD card enables images and videos capturing
- External mouse (included) for HDMI camera control, calibration and measurement included
- Optika Is View and Optika Vision Lite softwares included

USB and Full HD HDMI (1080p) camera in once. Mouse-controlled, calibration and measurements for **high performance.**

	OPTIKAM HDMI Easy 4083.13E	OPTIKAM HDMI 4083.13H	OPTIKAM HDMI Pro 4083.13
PC camera resolution	5.0 MegaPixels	5.0 MegaPixels	6.0 MegaPixels
TV camera resolution	1.0 MegaPixels	2.0 MegaPixels	2.0 MegaPixels
Signal output	USB 2.0, HDMI	USB 2.0, HDMI FULL HD	USB 2.0, HDMI FULL HD
Audio signal	NO	NO	NO
Sensor size	1\2.33"	1\2,5"	1\2,8"
Sensor technology	CMOS Panasonic	CMOS APTINA MT9P001	CMOS Sony
Image format	16\9	16\9	16\9
Full image size	2976x1674 (interpolated 4320x2430)	2592 x 1944	3264 x 1836
Usb frame rate full resolution	30 frames/sec on USB: 1280x720, 30 frames/sec on HDMI: 1280x720	15 frames/sec (1920 x 1080 on USB), 30 frames/sec (1920 x 1080 on HDMI)	30 frames/sec (1920 x 1080 on USB), 30 frames/sec (1920 x 1080 on HDMI)
Usb frame rate other resolutions	30 frames/sec on USB: 640x480, 800x600, 1024x768	15 frames/sec (1280 x 720 on USB with Optika Vision Lite)	20 frames/sec (1280 x 720 on USB with Optika Vision Lite)
Max exposure time	Automatic	10 sec	10 sec
On board memory	NO	NO	NO
External memory card	2GB MicroSD	8GB SD-CARD	8GB SD-CARD
External camera power	5V-12V 1000mA	12 V 2000mA	12 V 2000mA
Cooling system	NO	NO	NO
White balance	Auto	Auto / Man	Auto / Man
Gain control	Auto	Auto / Man	Auto / Man
Back light control	Auto	Auto / Man	Auto / Man
Exposure control	Auto	Auto / Man	Auto / Man
C-mount connection	YES	YES	YES
CS-mount connection	YES	NO	YES

Accessories included:
4083.13E: CS- to C-mount adapter, micrometer slide for software calibration, 1mm/10um, 10mm/100um, HDMI & USB cable, 2GB MicroSD card.
4083.13 & 4083.13H: micrometer slide for software calibration, 1mm/10um, 10mm/100um, HDMI & USB cable, 8GB SD-CARD, mouse.

OPTIKAM Pro LT Series - 4083.11LT /4083.12LT

Professional camera equipped with high grade CMOS sensor.
Ideal in poor light conditions

High-performance cameras with advanced software package

- C-mount connection for professional microscopes
- High grade CMOS sensor for reliable colors
- Available in 3MP (4083.11LT) or 5MP (4083.12LT) resolution
- Long exposure time
- 3-meter cable for long-distance operation included
- Includes the Optika Vision Pro PLUS software

4083.11LT

3 MP
CMOS
USB-OUT

CMOS camera with **3MP resolution**, extremely sensitive to **low light conditions.**

4083.12LT

5 MP
CMOS
USB-OUT

CMOS camera with **5MP resolution**, extremely sensitive to **low light conditions**.

OPTIKAM Pro LT Series - 4083.18LT

Professional camera equipped with **scientific-grade** CCD sensor.
Ideal in poor light conditions needing long exposure time.

8 MP | CCD | USB-OUT

High-performance camera with great color fidelity and advanced software package

- C-mount connection for professional microscopes
- Scientific-grade CCD 1/1.8" for extremely high color fidelity
- 8MP resolution
- Long exposure time
- 3-meter cable for long-distance operation included
- Includes the Optika Vision Pro PLUS software

	OPTIKAM PRO 3LT 4083.11LT	OPTIKAM PRO 5LT 4083.12LT	OPTIKAM PRO 8LT 4083.18LT
Digital camera resolution	3.2 MegaPixels	5.0 MegaPixels	8.0 MegaPixels
Analog camera resolution	NO	NO	NO
Signal output	USB 2.0	USB 2.0	USB 2.0
Audio Signal	NO	NO	NO
Sensor Size	1\2"	1\2,5"	1\1.8" Sony Sensor
Sensor technology	CMOS	CMOS	CCD
Image format	4\3	4\3	4\3
Full Image size	2048x1536	2592x1944	3264x2472
Frame rate full resolution	12 frames/sec (2048x1536)	3 frames/sec (2592x1944)	2 frames/sec (3264x2472)
Frame rate other resolutions	24 frame/sec (1024x768)	12 frame/sec (1296x972)	20 frame/sec (live view mode)
Max Exposure time	26 sec	26 sec	26 sec
ON board Memory	NO	NO	NO
External Memory Card	NO	NO	NO
External camera power	PC USB	PC USB	PC USB
Cooling system	NO	NO	NO
White Balance	Auto / Man	Auto / Man	Auto / Man
Gain Control	Auto / Man	Auto / Man	Auto / Man
Back light control	Auto / Man	Auto / Man	Auto / Man
Exposure control	Auto / Man	Auto / Man	Auto / Man
C-Mount connection	YES	YES	YES
CS-Mount connection	NO	NO	NO

Accessories included: micrometer slide for software calibration, 1mm/10um, 10mm/100um, USB cable.

OPTIKAM Pro Cool 5 - 4083.CL5

5 MP | CCD | USB-OUT

Professional CCD cooled camera for fluorescence applications

- Peltier-cooled to 30°C below room temperature for ultra long exposure time applications
- C-mount connection for professional microscopes
- Scientific-grade CCD 2/3" extremely reliable color fidelity sensor
- 5MP resolution
- Anti-amplifier glow function for long exposure
- Includes Optika IS view software for fluorescence purposes

Peltier-cooled sensor, the **perfect response to fluorescence analysis.**

OPTIKAM Pro Cool 5 4083.CL5	
Digital camera resolution	5.0 MegaPixels
Analog camera resolution	NO
Signal output	USB 2.0
Audio Signal	NO
Sensor Size	2\3" Sony Sensor
Sensor technology	CCD
Image format	4\3
Full Image size	2572 x 1954
Frame rate full resolution	3 frames/sec (2572 x 1954)
Frame rate other resolutions	12fps (1024 x 768) 3fps (1280*960 2x2 Binning) in LOW light mode 3fps (640*480 4x4 Binning) in LOW light mode
Max Exposure time	30 minutes
ON board Memory	NO
External Memory Card	NO
External camera power	PC USB
Cooling system	YES
External Cooling power	YES
On camera case IR Filter	BP 680 nm
White Balance	Auto / Man
Gain Control	Auto / Man
Back light control	Auto / Man
Exposure control	Auto / Man
C-Mount connection	YES
CS-Mount connection	NO

Accessories included: micrometer slide for software calibration, 1mm/10um, 10mm/100um, USB cable.

Adapter reference list **OPTIKAM BUDGET** Series

	With ADAPTER	With ADAPTER	With NO ADAPTER
	4083.B05 & VC-05	**4083.B1-B3-B5-B9**	**4083.B2**
Biological microscopes			
B-20 - M-100FL (Monocular head)	READY TO USE	READY TO USE	M-114
B-50 (Monocular head)	READY TO USE	READY TO USE	M-114
B-150 (Monocular and binocular head)	READY TO USE	READY TO USE	M-114
B-191 (Monocular head)	READY TO USE	READY TO USE	M-114
B-192 (Binocular head)	READY TO USE	READY TO USE	M-114
B-193 (Trinocular head)	READY TO USE	READY TO USE	M-114
B-292 (Binocular head)	READY TO USE	READY TO USE	M-114
B-293 (Trinocular head)	READY TO USE	READY TO USE	M-114
B-382 (Binocular head)	READY TO USE	READY TO USE	M-114
B-383 (Trinocular head)	READY TO USE	READY TO USE	M-114
B-500 (Binocular head)	READY TO USE	READY TO USE	M-114+M-113.1
B-500 (Trinocular head)	M-699	M-699	M-620.1
B-500 ERGO (binocular head ONLY)	READY TO USE	READY TO USE	M-114+M-113.1
B-500Ti-* (Multihead) for Binocular head	READY TO USE	READY TO USE	M-114+M-113.1
B-500Ti-* (Multihead) for Trinocular head	READY TO USE	READY TO USE	M-778
B-800 & B-1000 (Trinocular head)	M-699	M-699	M-620.1
B-800 & B-1000 ERGO (Binocular head)	READY TO USE	READY TO USE	M-114+M-113.1
B-800 & B-1000 ERGO (Trinocular head)	READY TO USE	READY TO USE	M-114
IM-2 (Trinocular head)	READY TO USE	READY TO USE	M-778
IM-3 (Trinocular head)	M-699	M-699	M-620
IM-2ERGO (Trinocular connection)	READY TO USE	READY TO USE	M-114
Stereomicroscopes			
STX (Binocular head)	READY TO USE	READY TO USE	M-114
MS-2 (Binocular head)	READY TO USE	READY TO USE	M-114
S-10-20-30-40-45-50 (Binocular head)	M-113.2	READY TO USE	M-114 + M-113.2
LAB-10 LAB-20 (Binocular head)	READY TO USE	READY TO USE	M-114 + M-113.1
LAB-30 (Trinocular head)	READY TO USE	READY TO USE	ST-418
SZM (Binocular head)	READY TO USE	READY TO USE	M-114 + M-113.1
SZM (Trinocular head)	READY TO USE	READY TO USE	ST-090
SZN (Binocular head)	READY TO USE	READY TO USE	M-114 + M-113.1
SZN (Trinocular head)	READY TO USE	READY TO USE	ST-147.1
SZP (Binocular head)	READY TO USE	READY TO USE	M-114 + M-113.1
SZP (For Trinocular connection)	ST-170	ST-170	ST-170 + M-114
SZM-SMD (Trinocular head)	READY TO USE	READY TO USE	ST-090
SZM-GEM-1 (Binocular head)	READY TO USE	READY TO USE	M-114 + M-113.1
SZM-GEM-2 (Trinocular head)	READY TO USE	READY TO USE	ST-090
OPTIGEM-3 (Binocular head)	READY TO USE	READY TO USE	M-114 + M-113.1
OPTIGEM-4 (Trinocular head)	READY TO USE	READY TO USE	ST-147.1
OPTIGEM-1 (Binocular head)	READY TO USE	READY TO USE	M-114 + M-113.1
OPTIGEM-2 (Trinocular head)	READY TO USE	READY TO USE	ST-090
XC-100L (Monocular head)	READY TO USE	READY TO USE	M-114
XZ-1 (Monocular head)	READY TO USE	READY TO USE	M-114
XZ-2 (Binocular head)	READY TO USE	READY TO USE	M-114

Adapter reference list **TABLET, OPTIKAM Pro LT & PRO COOL5**

	With ADAPTER	With NO ADAPTER	With NO ADAPTER
	TB-3W & TB-5W Tablet	**4083.11LT, 4083.12LT & 4083.18LT**	**4083.CL5**
Biological microscopes	**Only for TRINOPORT**		
B-20 - M-100FL (Monocular head)	NO	NO	M-116
B-50 (Monocular head)	NO	NO	M-116
B-150 (Monocular and binocular head)	NO	NO	M-116
B-191 (Monocular head)	NO	NO	M-116
B-192 (Binocular head)	NO	NO	M-116
B-193 (Trinocular head)	READY TO USE – FREE TO MOVE 360 DEGREE	M-114	M-116
B-292 (Binocular head)	NO	NO	M-116
B-293 (Trinocular head)	READY TO USE – FREE TO MOVE 360 DEGREE	M-114	M-116
B-382 (Binocular head)	NO	NO	M-116
B-383 (Trinocular head)	READY TO USE	M-114	M-116
B-500 (Binocular head)	NO	NO	M-116 + M-113.1
B-500 (Trinocular head)	M-699	M-620.1	M-620.2
B-500 ERGO (Binocular head ONLY)	NO	NO	M-116 + M-113.1
B-500Ti-* (Multihead) for Binocular head	NO	NO	M-116 + M-113.1
B-500Ti-* (Multihead) for Trinocular head	READY TO USE – FREE TO MOVE 360 DEGREE	M-778	M-116
B-800 & B-1000 (Trinocular head)	M-699	M-620.1	M-620.2
B-800 & B-1000 ERGO (Binocular head)	NO	NO	M-116 + M-113.1
B-800 & B-1000 ERGO (Trinocular head)	READY TO USE	M-114	M-116
IM-2 (Trinocular head)	READY TO USE – FREE TO MOVE 360 DEGREE	M-778	M-116
IM-3 (Trinocular head)	M-699	M-620.1	M-620.2
IM-2ERGO (Trinocular connection)	READY TO USE	M-114	M-116
Stereomicroscopes			
STX (Binocular head)	NO	NO	NO
MS-2 (Binocular head)	NO	NO	M-116
S-10-20-30-40-45-50 (Binocular head)	NO	NO	M-116 + M-113.2
LAB-10 LAB-20 (Binocular head)	NO	NO	M-116 + M-113.1
LAB-30 (Trinocular head)	READY TO USE – FREE TO MOVE 360 DEGREE	ST-419	M-116
SZM (Binocular head)	NO	NO	M-116 + M-113.1
SZM (Trinocular head)	READY TO USE – FREE TO MOVE 360 DEGREE	ST-090.1	M-116
SZN (Binocular head)	NO	NO	M-116 + M-113.1
SZN (Trinocular head)	READY TO USE – FREE TO MOVE 360 DEGREE	ST-147.1	M-116
SZP (Binocular head)	NO	NO	M-116 + M-113.1
SZP (For Trinocular connection)	ST-170	ST-170 + M-114	ST-170 + M-116
SZM-SMD (Trinocular head)	READY TO USE – FREE TO MOVE 360 DEGREE	ST-090	M-116
SZM-GEM-1 (Binocular head)	NO	NO	M-116 + M-113.1
SZM-GEM-2 (Trinocular head)	Not Suggested	ST-090.1	M-116
OPTIGEM-3 (Binocular head)	NO	NO	M-116 + M-113.1
OPTIGEM-4 (Trinocular head)	Not Suggested	ST-147.1	M-116
OPTIGEM-1 (Binocular head)	NO	NO	M-116 + M-113.1
OPTIGEM-2 (Trinocular head)	Not Suggested	ST-090.1	M-116
XC-100L (Monocular head)	NO	M-114	NO
XZ-1 (Monocular head)	READY TO USE – FREE TO MOVE 360 DEGREE	M-114	NO
XZ-2 (Binocular head)	NO	M-114	NO

Adapter reference list **HDMI, WiFi & EDUCAM**

	With NO ADAPTER	With NO ADAPTER	With ADAPTER	With ADAPTER
	4083.13, 4083.13H, 4083.F33	**4083.13E**	**4083.WiFi**	**EDUCAM**
Biological microscopes				
B-20 - M-100FL (Monocular head)	M-114	M-114	READY TO USE	READY TO USE
B-50 (Monocular head)	M-114	M-114	READY TO USE	READY TO USE
B-150 (Monocular and binocular head)	M-114	M-114	READY TO USE	READY TO USE
B-191 (Monocular head)	M-114	M-114	READY TO USE	READY TO USE
B-192 (Binocular head)	M-114	M-114	READY TO USE	READY TO USE
B-193 (Trinocular head)	M-114	M-114	READY TO USE	READY TO USE
B-292 (Binocular head)	M-114	M-114	READY TO USE	READY TO USE
B-293 (Trinocular head)	M-114	M-114	READY TO USE	READY TO USE
B-382 (Binocular head)	M-114	M-114	READY TO USE	READY TO USE
B-383 (Trinocular head)	M-114	M-114	READY TO USE	READY TO USE
B-500 (Binocular head)	M-114 + M-113.1	M-114 + M-113.1	READY TO USE	READY TO USE
B-500 (Trinocular head)	M-620.1	M-620.1	M-699	M-699
B-500 ERGO (binocular head ONLY)	M-114 + M-113.1	M-114 + M-113.1	READY TO USE	READY TO USE
B-500Ti-* (Multihead) for Binocular head	M-114 + M-113.1	M-114 + M-113.1	READY TO USE	READY TO USE
B-500Ti-* (Multihead) for Trinocular head	M-114	M-114	READY TO USE	READY TO USE
B-800 & B-1000 (Trinocular head)	M-620.1	M-699 + M-114	M-699	M-699
B-800 & B-1000 ERGO (Binocular head)	M-114 + M-113.1	M-114 + M-113.1	READY TO USE	READY TO USE
B-800 & B-1000 ERGO (Trinocular head)	M-114	M-114	READY TO USE	READY TO USE
IM-2 (Trinocular head)	M-114	M-114	READY TO USE	READY TO USE
IM-3 (Trinocular head)	M-620.1	M-620.1	M-699	M-699
IM-2ERGO (Trinocular connection)	M-114	M-114	READY TO USE	READY TO USE
Stereomicroscopes				
STX (Binocular head)	NO	M-114	READY TO USE	READY TO USE
MS-2 (Binocular head)	M-114	M-114	READY TO USE	READY TO USE
S-10-20-30-40-45-50 (Binocular head)	M-114 + M-113.2	M-114 + M-113.2	READY TO USE	M-113.2
LAB-10 LAB-20 (Binocular head)	M-114 + M-113.1	M-114 + M-113.1	READY TO USE	READY TO USE
LAB-30 (Trinocular head)	M-114	M-114	READY TO USE	READY TO USE
SZM (Binocular head)	M-114 + M-113.1	M-114 + M-113.1	READY TO USE	READY TO USE
SZM (Trinocular head)	M-114	M-114	READY TO USE	READY TO USE
SZN (Binocular head)	M-114 + M-113.1	M-114 + M-113.1	READY TO USE	READY TO USE
SZN (Trinocular head)	ST-147.1	ST-147.1	READY TO USE	READY TO USE
SZP (Binocular head)	M-114 + M-113.1	M-114 + M-113.1	READY TO USE	READY TO USE
SZP (For Trinocular connection)	ST-170 + M-114	ST-170 + M-114	ST-170	ST-170
SZM-SMD (Trinocular head)	M-114	M-114	READY TO USE	READY TO USE
SZM-GEM-1 (Binocular head)	M-114 + M-113.1	M-114 + M-113.1	READY TO USE	READY TO USE
SZM-GEM-2 (Trinocular head)	M-114	M-114	READY TO USE	READY TO USE
OPTIGEM-3 (Binocular head)	M-114 + M-113.1	M-114 + M-113.1	READY TO USE	READY TO USE
OPTIGEM-4 (Trinocular head)	ST-147.1	ST-147.1	READY TO USE	READY TO USE
OPTIGEM-1 (Binocular head)	M-114 + M-113.1	M-114 + M-113.1	READY TO USE	READY TO USE
OPTIGEM-2 (Trinocular head)	M-114	M-114	READY TO USE	READY TO USE
XC-100L (Monocular head)	M-114	M-114	READY TO USE	READY TO USE
XZ-1 (Monocular head)	M-114	M-114	READY TO USE	READY TO USE
XZ-2 (Binocular head)	M-114	M-114	READY TO USE	READY TO USE

Adapter reference list **REFLEX CAMERAS**

	APS Sensor	FULL Frame / 35mm SRL Cameras	MIRROR-LESS
	+ T/2 BOUGHT BY CUSTOMER	+ T/2 BOUGHT BY CUSTOMER	+ T/2 BOUGHT BY CUSTOMER
Biological microscopes			
B-20 - M-100FL (Monocular head)	M-173	M-173	M-173
B-50 (Monocular head)	M-173	M-173	M-173
B-150 (Monocular and binocular head)	M-173	M-173	M-173
B-191 (Monocular head)	M-173	M-173	M-173
B-192 (Binocular head)	M-173	M-173	M-173
B-193 (Trinocular head)	M-173	M-173	M-173
B-292 (Binocular head)	M-173	M-173	M-173
B-293 (Trinocular head)	M-173	M-173	M-173
B-382 (Binocular head)	M-173	M-173	M-173
B-383 (Trinocular head)	M-173	M-173	M-173
B-500 (Binocular head)	M-173 + M-113.1	M-173 + M-113.1	M-173 + M-113.1
B-500 (Trinocular head)	M-699+M-173	M-619	M-699+M-173
B-500 ERGO (binocular head ONLY)	M-173 + M-113.1	M-173 + M-113.1	M-173 + M-113.1
B-500Ti-* (Multihead) for Binocular head	M-173 + M-113.1	M-173 + M-113.1	M-173 + M-113.1
B-500Ti-* (Multihead) for Trinocular head	M-173	M-173	M-173
B-800 & B-1000 (Trinocular head)	M-699+M-173	M-699+M-173	M-699+M-173
B-800 & B-1000 ERGO (Binocular head)	M-173 + M-113.1	M-173 + M-113.1	M-173 + M-113.1
B-800 & B-1000 ERGO (Trinocular head)	M-173	M-173	M-173
IM-2 (Trinocular head)	M-173	M-173	M-173
IM-3 (Trinocular head)	M-699+M-173	M-788	M-699+M-173
IM-2ERGO (Trinocular connection)	M-173	M-173	M-173
Stereomicroscopes			
STX (Binocular head)	M-173	M-173	M-173
MS-2 (Binocular head)	M-173	M-173	M-173
S-10-20-30-40-45-50 (Binocular head)	M-173 + M-113.2	M-173 + M-113.2	M-173 + M-113.2
LAB-10 LAB-20 (Binocular head)	M-173 + M-113.1	M-173 + M-113.1	M-173 + M-113.1
LAB-30 (Trinocular head)	M-173	ST-089	M-173
SZM (Binocular head)	M-173 + M-113.1	M-173 + M-113.1	M-173 + M-113.1
SZM (Trinocular head)	M-173	ST-089	M-173
SZN (Binocular head)	M-173 + M-113.1	M-173 + M-113.1	M-173 + M-113.1
SZN (Trinocular head)	M-173	ST-146	M-173
SZP (Binocular head)	M-173 + M-113.1	M-173 + M-113.1	M-173 + M-113.1
SZP (For Trinocular connection)	ST-170+M-173	ST-170 + M-173	ST-170+M-173
SZM-SMD (Trinocular head)	M-173	ST-089	M-173
SZM-GEM-1 (Binocular head)	M-173 + M-113.1	M-173 + M-113.1	M-173 + M-113.1
SZM-GEM-2 (Trinocular head)	M-173	ST-089	M-173
OPTIGEM-3 (Binocular head)	M-173 + M-113.1	M-173 + M-113.1	M-173 + M-113.1
OPTIGEM-4 (Trinocular head)	M-173	ST-146	M-173
OPTIGEM-1 (Binocular head)	M-173 + M-113.1	M-173 + M-113.1	M-173 + M-113.1
OPTIGEM-2 (Trinocular head)	M-173	ST-089	M-173
XC-100L (Monocular head)	M-173	M-173	M-173
XZ-1 (Monocular head)	M-173	M-173	M-173
XZ-2 (Binocular head)	M-173	M-173	M-173

Adapter reference list **CUSTOMER'S CAMERA**

	Customer's camera	Customer's camera	Customer's camera
	1\4" or 1\3" C-mount only	1\2" or 1\2.5" or 1\1.8" C-mount only	2\3" or 1" C-mount only
Biological microscopes			
B-20 - M-100FL (Monocular head)	M-115	M-114	M-116
B-50 (Monocular head)	M-115	M-114	M-116
B-150 (Monocular and binocular head)	M-115	M-114	M-116
B-191 (Monocular head)	M-115	M-114	M-116
B-192 (Binocular head)	M-115	M-114	M-116
B-193 (Trinocular head)	M-115	M-114	M-116
B-292 (Binocular head)	M-115	M-114	M-116
B-293 (Trinocular head)	M-115	M-114	M-116
B-382 (Binocular head)	M-115	M-114	M-116
B-383 (Trinocular head)	M-115	M-114	M-116
B-500 (Binocular head)	M-115 + M-113.1	M-114 + M-113.1	M-116 + M-113.1
B-500 (Trinocular head)	M-115 + M-699	M-620.1	M-620.2
B-500 ERGO (binocular head ONLY)	M-115 + M-113.1	M-114 + M-113.1	M-116 + M-113.1
B-500Ti-* (Multihead) for Binocular head	M-115 + M-113.1	M-114 + M-113.1	M-116 + M-113.1
B-500Ti-* (Multihead) for Trinocular head	M-115	M-114	M-116
B-800 & B-1000 (Trinocular head)	M-115 + M-699	M-699 + M-114	M-620.2
B-800 & B-1000 ERGO (Binocular head)	M-115 + M-113.1	M-114 + M-113.1	M-116 + M-113.1
B-800 & B-1000 ERGO (Trinocular head)	M-115	M-114	M-116
IM-2 (Trinocular head)	M-115	M-114	M-116
IM-3 (Trinocular head)	M-115 + M-699	M-620.1	M-620.2
IM-2ERGO (Trinocular connection)	M-115	M-114	M-116
Stereomicroscopes			
STX (Binocular head)	M-115	M-114	NO
MS-2 (Binocular head)	M-115	M-114	M-116
S-10-20-30-40-45-50 (Binocular head)	M-115 + M-113.2	M-114 + M-113.2	M-116 + M-113.2
LAB-10 LAB-20 (Binocular head)	M-115 + M-113.1	M-114 + M-113.1	M-116 + M-113.1
LAB-30 (Trinocular head)	M-115	M-114	M-116
SZM (Binocular head)	M-115 + M-113.1	M-114 + M-113.1	M-116 + M-113.1
SZM (Trinocular head)	M-115	M-114	M-116
SZN (Binocular head)	M-115 + M-113.1	M-114 + M-113.1	M-116 + M-113.1
SZN (Trinocular head)	M-115	ST-147.1	M-116
SZP (Binocular head)	M-115 + M-113.1	M-114 + M-113.1	M-116 + M-113.1
SZP (For Trinocular connection)	ST-170 + M-115	ST-170 + M-114	ST-170 + M-116
SZM-SMD (Trinocular head)	M-115	M-114	M-116
SZM-GEM-1 (Binocular head)	M-115 + M-113.1	M-114 + M-113.1	M-116 + M-113.1
SZM-GEM-2 (Trinocular head)	M-115	M-114	M-116
OPTIGEM-3 (Binocular head)	M-115 + M-113.1	M-114 + M-113.1	M-116 + M-113.1
OPTIGEM-4 (Trinocular head)	M-115	ST-147.1	M-116
OPTIGEM-1 (Binocular head)	M-115 + M-113.1	M-114 + M-113.1	M-116 + M-113.1
OPTIGEM-2 (Trinocular head)	M-115	M-114	M-116
XC-100L (Monocular head)	M-115	M-114	M-116
XZ-1 (Monocular head)	M-115	M-114	M-116
XZ-2 (Binocular head)	M-115	M-114	M-116

OPTIKA SOFTWARE

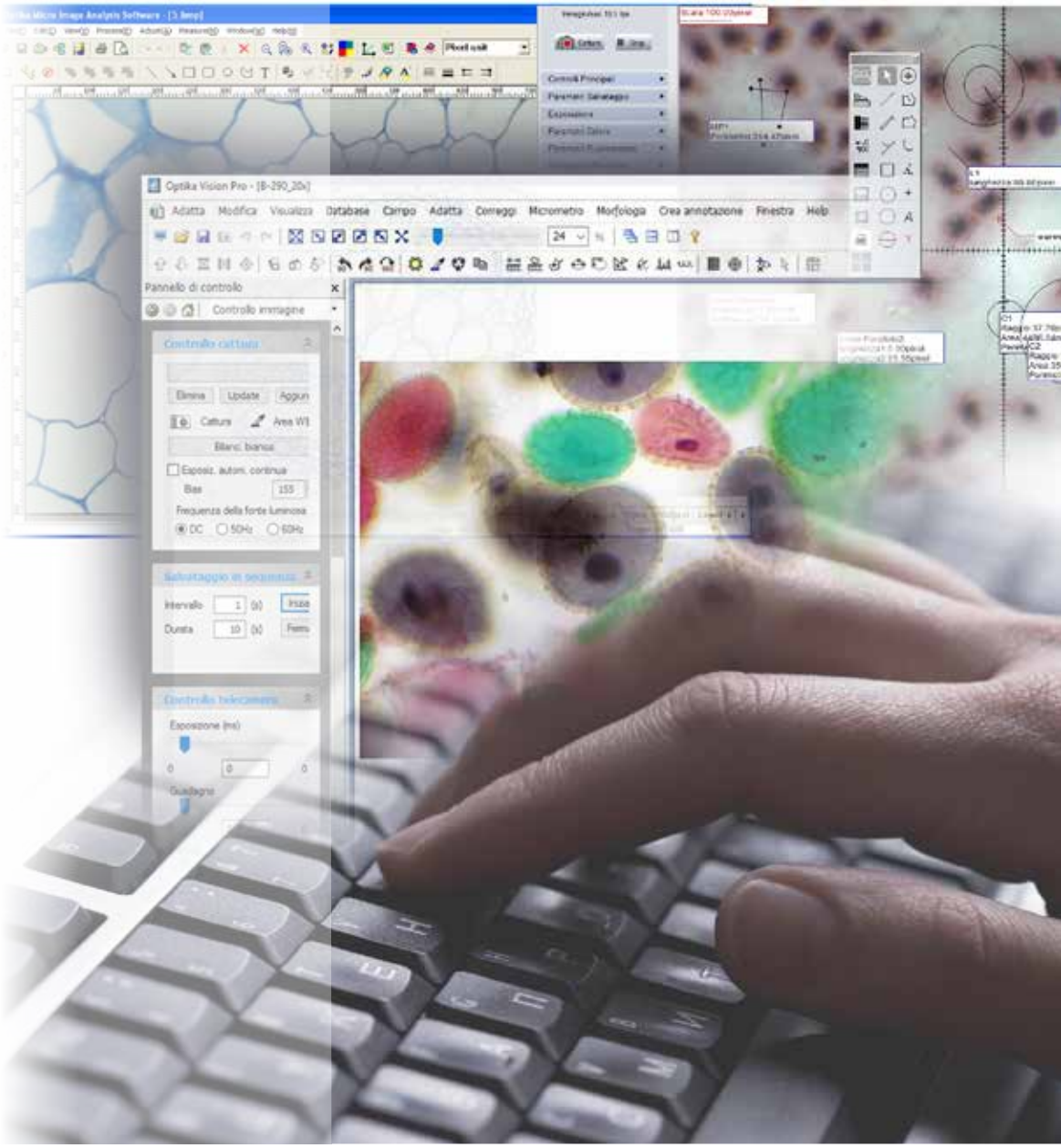


IMAGE ANALYSIS SOLUTIONS - OPTIKA SOFTWARE SUITES

Optika Vision Lite / Optika IS view / Optika Vision Pro Plus / Image J

OPTIKA SOFTWARES - Compararison chart

	Optika Vision Lite	Optika IS view	Optika Vision Pro PLUS	ImageJ
Software Included with OPTIKA Cameras				
Tablet Series (TB-3W & TB-5W)	•	-	-	-
OPTIKAM Budget Series (B05 & B2)	•	-	-	-
OPTIKAM Budget Series (B1, B3, B5 & B9)	•	•	-	-
OPTIKAM WiFi	•	-	-	-
OPTIKAM FAST3	•	•	-	-
OPTIKAM HDMI Easy	-	•	-	-
OPTIKAM HDMI Series (HDMI & PRO)	•	•	-	-
OPTIKAM PRO LT Series	-	-	•	-
OPTIKAM Pro Cool 5	-	•	-	-
Live View				
Live Preview	•	•	•	-
Live Image Zoom	-	•	•	-
Live Image Flip	-	•	•	-
Live Crosshair Grid	•	•	•	-
Live Image Comparison	-	•	•	-
Live Flat Field Correction	-	•	•	-
Live Long Exposure	-	-	•	-
Live Measurements	-	•	•	-
Stuck Pixel Removal	-	-	•	-
Acquisition				
Image Acquisition	•	•	•	•
Time Lapse Acquisition	•	•	•	-
Video Acquisition	•	•	-	-
Camera Settings Archive	-	•	•	-
HDR Capture	-	•	-	-

Live Preview: Real time view of your specimen to monitor different parts or changes into it

Live Image Zoom: Possibility to enlarge and zoom your specimen view during real time view

Live Image Flip: Make your live view specimen "look" in the other direction, or the top to be the bottom

Live Crosshair Grid: Verify images are correctly aligned or to quickly measure sizes and gauge distances (several patterns/colors available)

Live Image Comparison: Compare live images with previously captured images and analyze differences/changes occurred over time

Live Flat Field Correction: Uniform the background brightness of your live vew

Live Long Exposure: Long-duration shutter speed to sharply capture the stationary elements of images

Live Measurements: Measure distances between objects on your live preview, with no need to capture your image

Stuck Pixel Removal: Correction of the effects of bad pixels; unreliable pixels are excluded to ensure a truthful image

Image Acquisition: Accurate image analysis begins with acquisition: capture images instantly

Image Acquisition: Investigate changes in specimens over time by acquiring images at predefined intervals

Video Acquisition: Record videos to investigate changes in specimens or materials over time

Camera Settings Archive: Save and archive your preferred camera parameters' setting, to be quickly recalled

HDR Capture: Capture a sequence of images at different exposures, and combine them into a single High Dynamic Range image

OPTIKA SOFTWARES - Compararison chart

	Optika Vision Lite	Optika IS view	Optika Vision Pro PLUS	ImageJ
Image Editing				
Image Zoom	-	•	•	•
Image Flip	•	•	•	•
Scale Bar Insertion	-	•	•	•
Image Crop	-	•	•	•
Text Labels/Indicate Interesting Points	•	•	•	•
EDF (Extended Depth of Field) Imaging	-	•	•	•
Images Stitching/Tiling	-	•	•	•
Histogram Viewing	-	•	•	•
Darkfield Simulation	-	-	•	-
Fluorescence Combine	-	•	•	-
Fluorescence Split	-	-	•	-

Image Zoom: Enlarge your specimen view on the acquired image

Image Flip: Make your acquired image "look" in the other direction, or the top to be the bottom

Scale Bar Insertion: Add scale bar, on a side, to quickly measure sizes and gauge distances

Image Crop: Crop utility to resize your images quickly to be focused on a part of it

Text Labels/Indicate Interesting Points: Point out features of interest and add personal considerations/comments to your images

EDF (Extended Depth of Field) Imaging: Multifocus composition/Z stack - a composite image assembled from all the sharpest, in-focus pixels at all focus depths

Images Stitching/Tiling: Stitch together multiple fields of view as you manually move around your specimen on XY axes

Histogram Viewing: Determine if your image has enough detail to make a good correction; gives quick analysis of the tonal range

Darkfield Simulation: Replicate the image acquired in darkfield mode

Fluorescence Combine: Possibility to create an image by assembling different pictures acquired with various filters

Fluorescence Split: Possibility to split the several pictures taken with single filters from a consolidated image

Measure				
Calibration Table	•	•	•	•
Measurement of Lenghts	•	•	•	•
Advanced Measuring Functions	-	•	•	•
Manual Counting Particles	-	•	•	-
Automatic Counting Particles	-	-	•	•

Calibration Table: Possibility to save and archive calibrations, to be quickly recalled

Measurement of Lenghts: Perform line segments measurement on your image

Advanced Measuring Functions: Perform measurements of polygons, circles, areas & perimeters

Manual Counting Particles: Manual selection of parts belonging to the same category, then counted by the software

Automatic Counting Particles: Quantify objects easily and automatically (color-based analysis)

Reporting & Special Applications				
Export Test Report	•	•	•	•
User-Friendly Database Function	-	-	•	-
Free Plug-in Installation	-	-	-	•

Export Test Report: Report and publish your results (in txt or Excel)

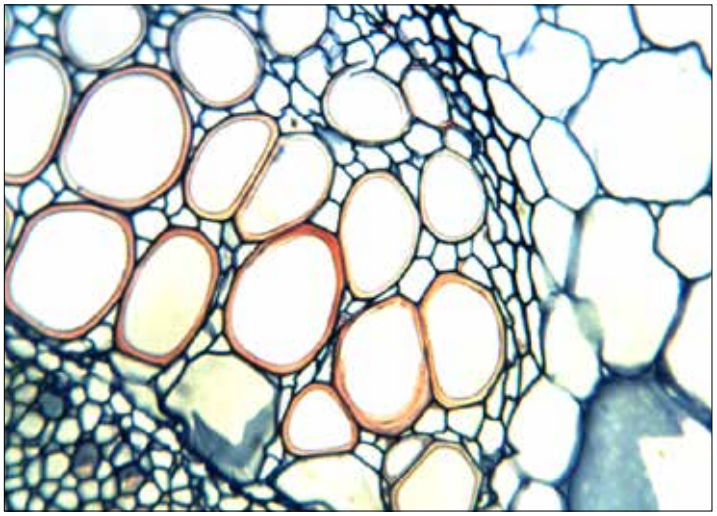
User-Friendly Database Function: Assign keywords to your images for a more effective search of your contents

Free Plug-in Installation: Constant possibility to install new releases and plug-in to customize the software

OPTIKA Vision Lite - Extremely Intuitive Software

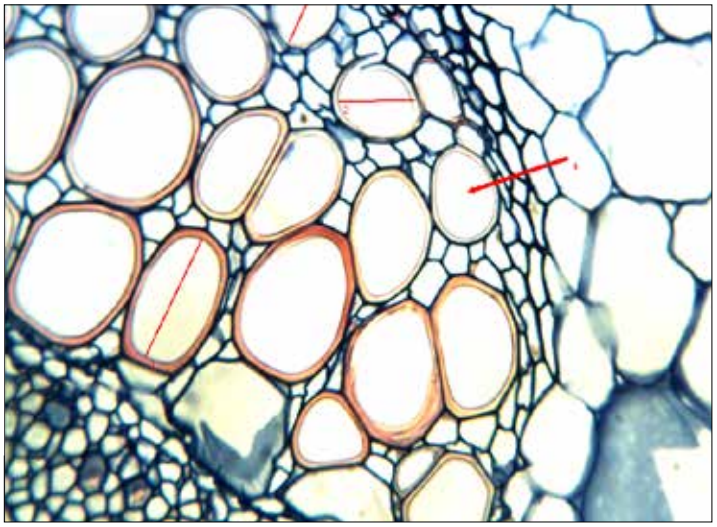
Optika Vision Lite has been designed and developed to be incredibly intuitive, simple and easy to use for customers needing a convenient solution to be combined with OPTIKAM cameras.

» 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

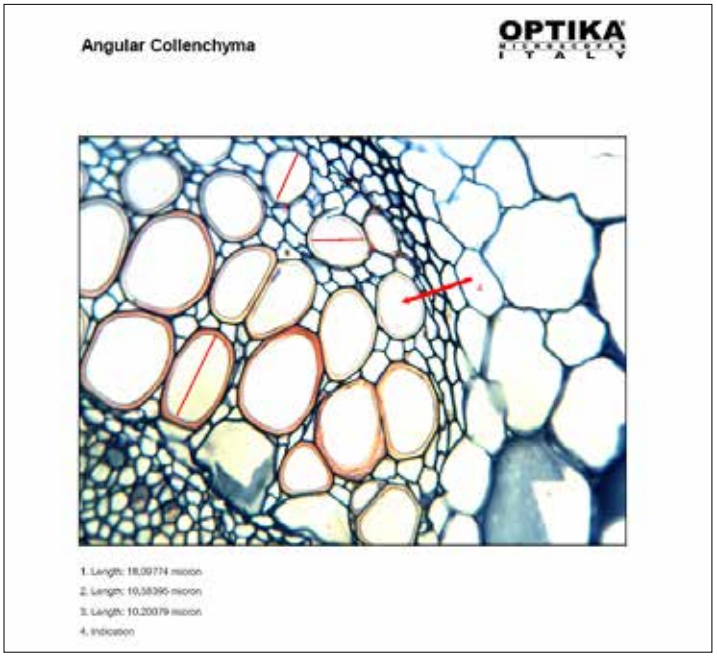


Capture still images & stream live videos
Use the live preview to accurately focus your image and change parameters to obtain the perfect final result you are looking for. Images can be saved in different formats and even as test reports, including personal comments.

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

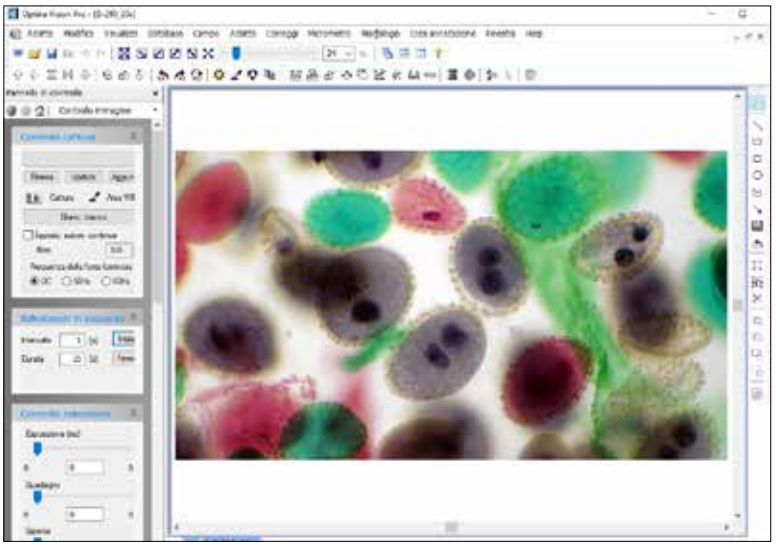


Export comprehensive reports
Detailed test reports can be generated, printed and saved. Reports can be also customized with company logos.

Optika IS view - Expand Your Possibilities

Optika IS view is an advanced image acquisition software package, providing a more comprehensive solution to get the most out from your live view experience and editing tools. Capturing the best image is possible and easier than ever. All this, in addition to OPTIKA Vision Lite Software capabilities...

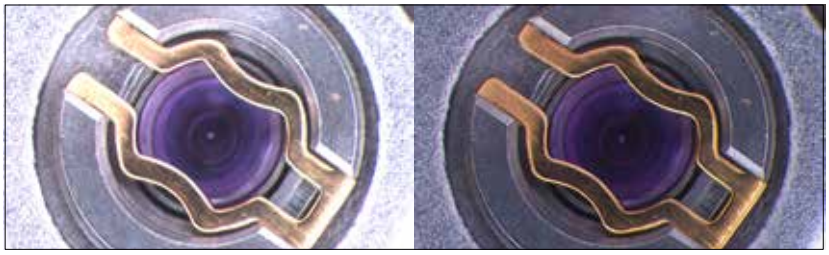
» Extremely rich live view experience
» High dynamic range (HDR) capture
» Extended imaging processes
» Extract quantitative data with ease



Extremely rich live view experience
Do more than just previewing, with this flexible image workspace capable of delivering advanced preview features, including zooming, measuring and make comparison with previously captured images.

Additional features:
» Make the background brightness uniform
» No need to capture your image for measuring
» Analyze changes occurred over time

High dynamic range (HDR) capture
The resulting image is a compilation of several images taken at different exposures, using the widest possible range of dark to light pixels.
No more black or saturated pixels.



Standard Dynamic Range | High Dynamic Range

Extended imaging processes
This robust and powerful software contains a variety of specialty and premium capabilities, including:

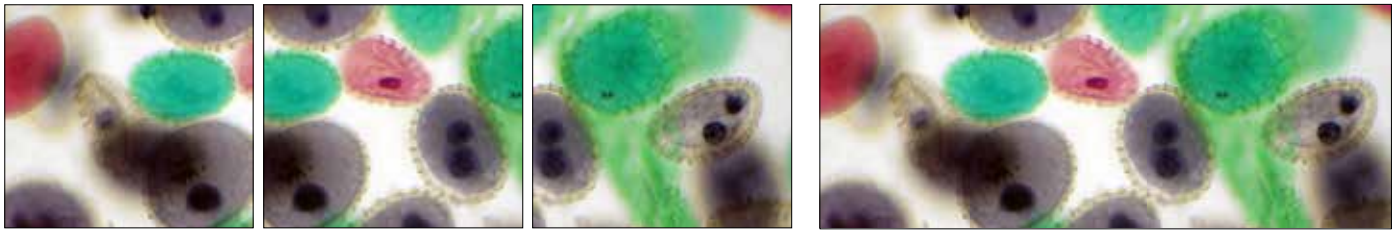
- ***EDF Function (also known as Z-Stack)***

Catch beautifully focused images, regardless of depth, with EDF to get a final image with a very deep of focus all-in-one.

Single Focal Plane Images | EDF Image

- ***Stitching & Tiling***

Stitch together multiple fields of view as you manually move around your specimen with tiling and get everything in one picture.



Separate Images | The Three Images in One

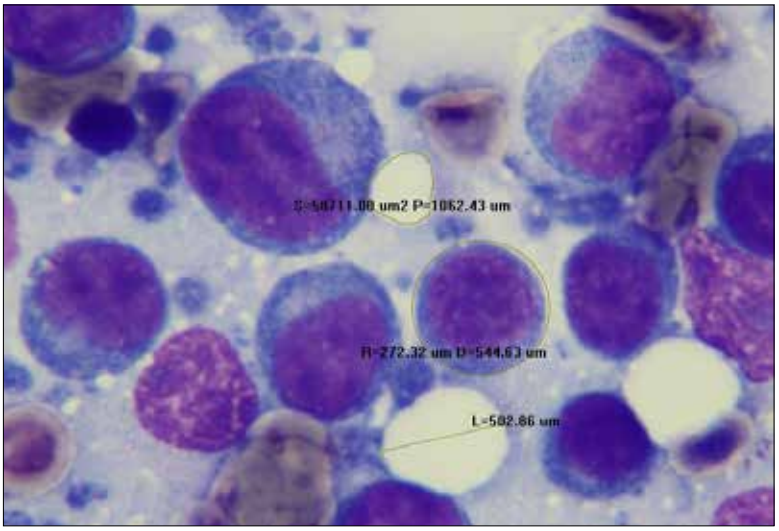
Optika IS view - Expand Your Possibilities

Extract quantitative data with ease

Extract accurate data from your calibrated images with a wide range of manual measurement tools.

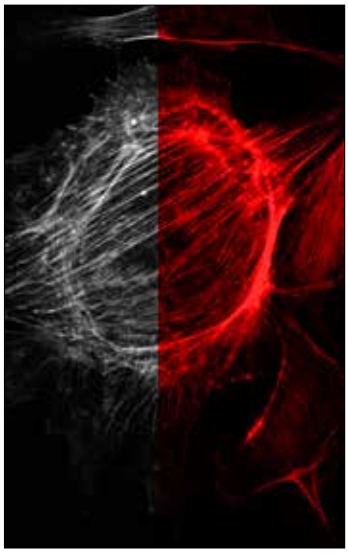
Additional features:

» Measure distances on your live preview
» Measure lenghts, polygons, circles, areas & perimeters
» Manual selection of parts belonging to the same category, then counted.

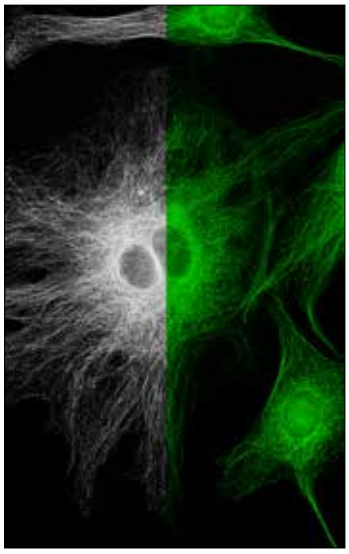


Extended Features - Fluorescence

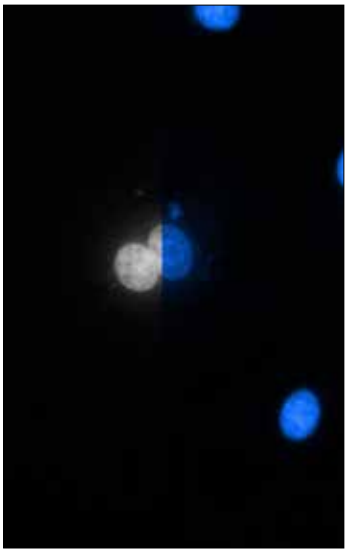
Optika IS view is really appreciated also in fluorescence application, when combined with OPTIKA Pro Cool camera, a cooled CCD, also for the possibility to over-exposure (up to 1 minute) the image when it comes of a low light emission from the sample. Another valuable function is the Fluorescence Combine function, enabling the combination of images captured with different light excitation, to collect the best out from them in a single image, optimized to get the best result possible.



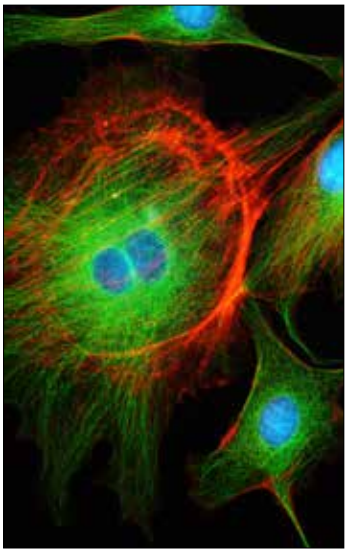
Red Emission Image



Green Emission Image



Blue Emission Image



Fluorescence Combined Image

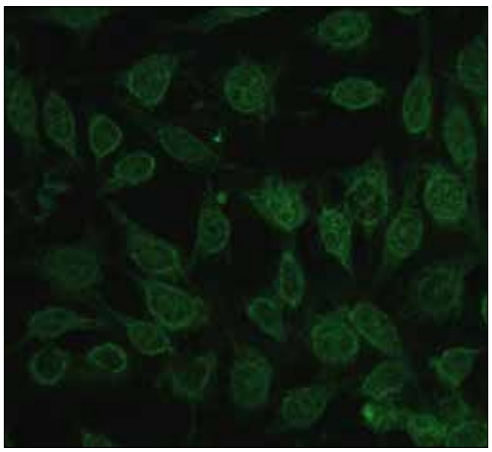
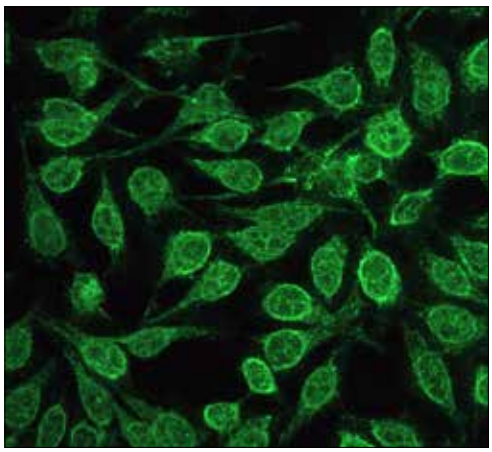


Image of virus culture, seen through the eyepieces.



The same image (virus culture), taken with OPTIKAM Pro Cool 5, at a 3 seconds of exposure time.

OPTIKA Vision Pro Plus - Professional Image Analysis

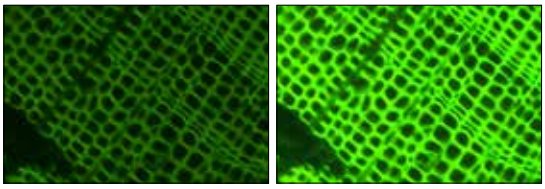
Optika Vision Pro Plus is a new generation of microscope image analysis instruments, especially developed for our Optikam Pro series, which contains various tools for processing and analysis of digital microscope images. It includes powerful tools for image capturing, adjusting, operating and measuring. Organize your images into a database by tagging them with keywords for efficient storage & quick image recall.

From Beginners To Experts

A useful Help-Desk will make you familiar by teaching step by step what are the capabilities of this software, making you an expert in a very short period.

Live Preview Without Limits

In addition to all the capabilities of OPTIKA IS view, OPTIKA Vision Pro Plus also gives the possibility to set long exposure **during the live view** and correct the bad pixels to obtain a truthful image.



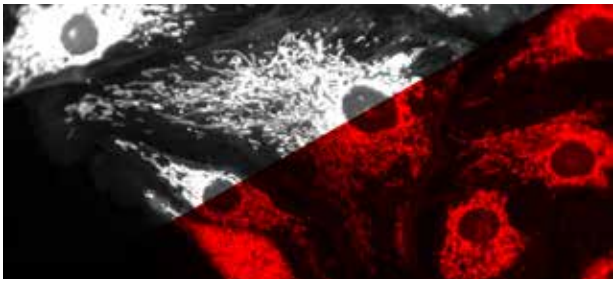
Enriched Image Acquisition

Set all the parameters of your camera sensor to gain the best result in terms of quality and color, including exposure time, gain, gamma, contrast, saturation, color gains, goal brighness. Other functions such as white balance, automatic exposure, frame average, hue, saturation and intensity controls, combined with a user-friendly live zoom bar which is very helpful to get the best focusing point, and the possibility to perform direct measurement on live view makes this software ideal for professional use.

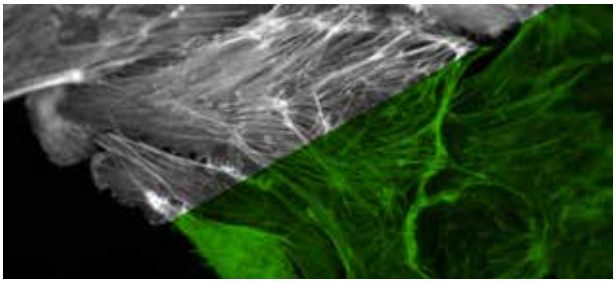
A Variety of Options For Image Editing

Get a comprehensive image processing adjustements, especially for fluorescence applications.

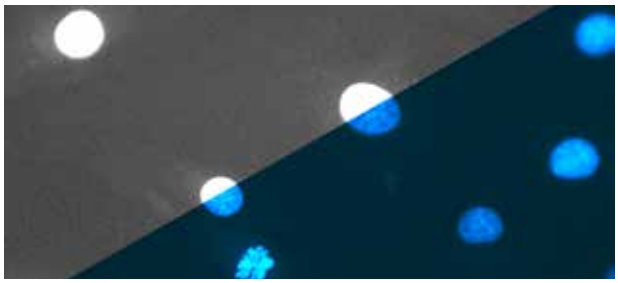
Fluorescence Combine function enables to have in one image the single pictures acquired with various filters, whilst Fluorecence Split generates the opposite effect.



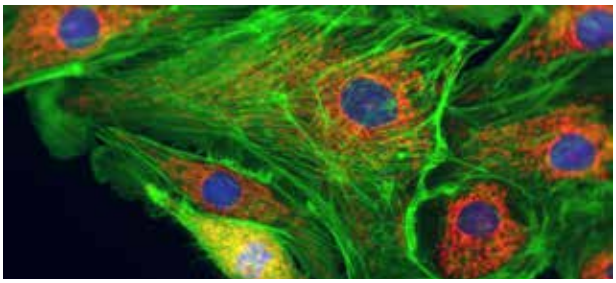
Red Emission Image



Green Emission Image



Blue Emission Image



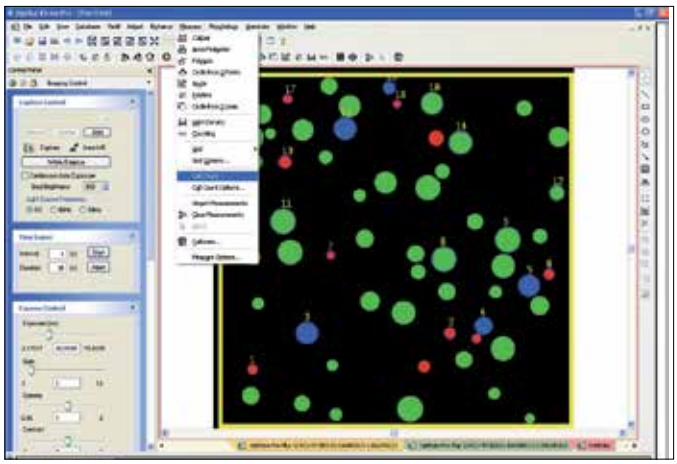
Fluorescence Combined Image

OPTIKA Vision Pro Plus gives the possibility to replicate the image acquired in darkfield mode, producing a simulation of how the specimen looks like in darkfield observation method.

OPTIKA Vision Pro Plus - Professional Image Analysis

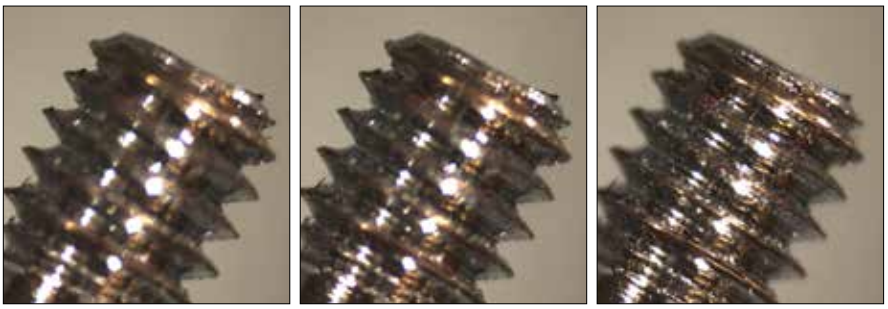
Convenient Automatic Counting

You can now perform quick and reliable automatic counting by measuring the light density of your acquired image.
The automatic cells counting is based on RGB colors, and let you save a considerable amount of time during your analysis.

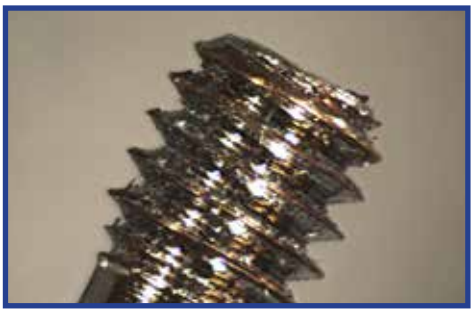


EDF Function (also know as E-stack)

Also known as EDF function, it allows to catch beautifully focused images, regardless of depth and stitching & tiling to combine multiple images in one.



Single Focal Plane Images



EDF Image

Extended Exposure Time

A long time (up to 26 second) ensures you to get a brighter image despite your sample is not properly illuminated or composed of of dark elements.

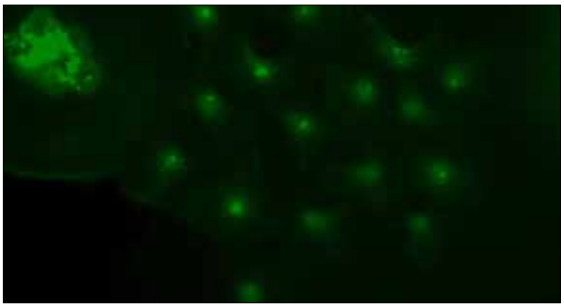


Image with 0,5 seconds exposure

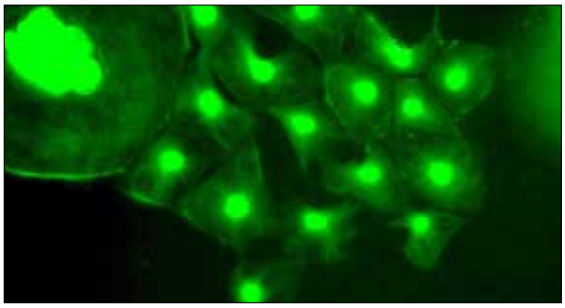
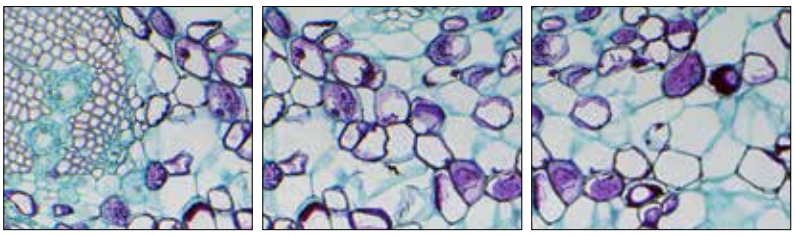


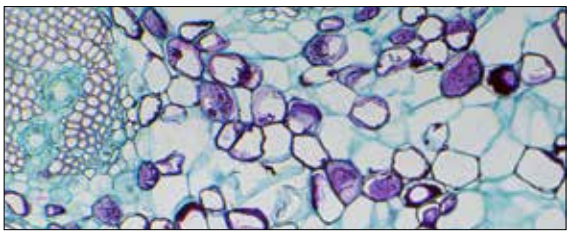
Image with 5 seconds exposure

Panorama Landscape Function

Make a larger field of view image by stitching all the images one next to the other.



Separate Images



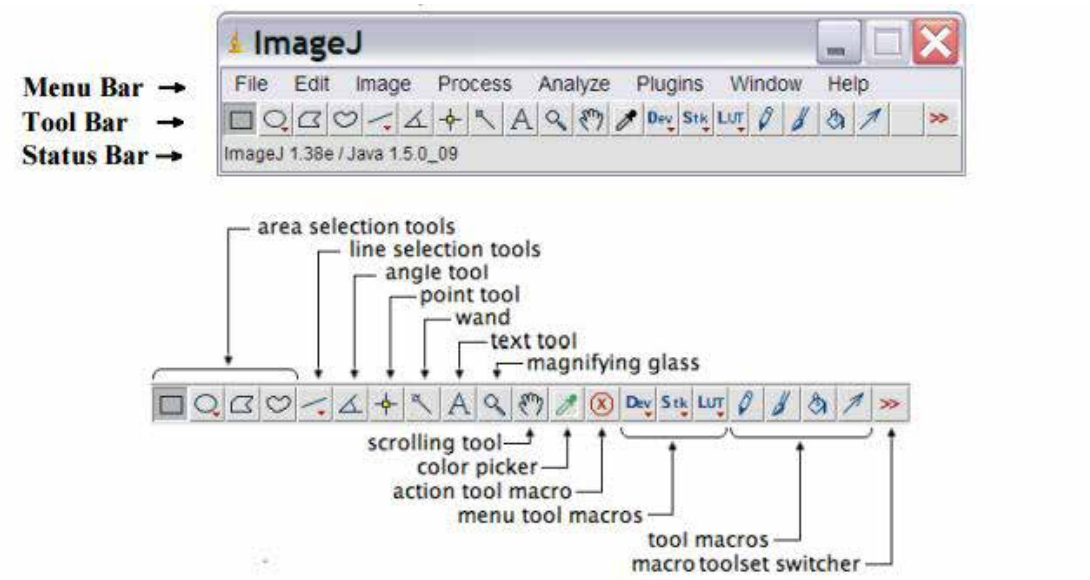
The Three Images in One

ImageJ - Open Source Software

ImageJ is an open source software for image processing on Windows, Mac OS, Mac OS X and Linux, allowing images to be saved in several formats after a comprehensive editing.

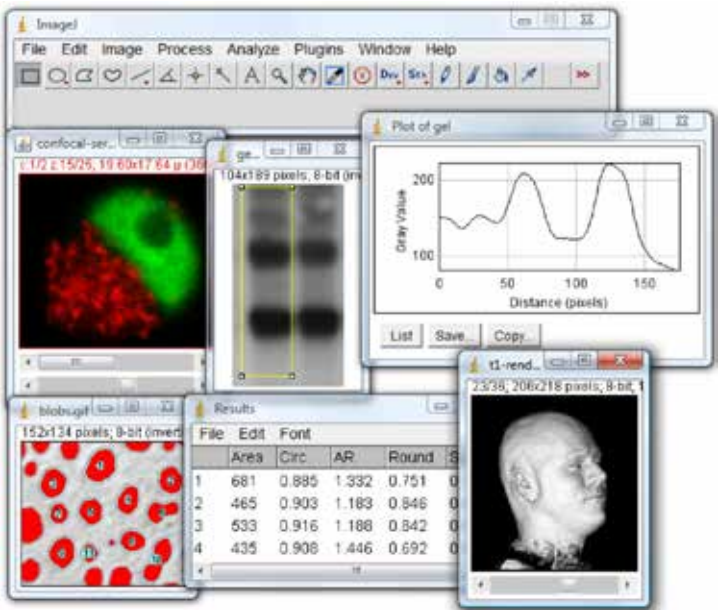
Standard Functions

It can display, edit, analyze, process images with standard image processing functions.
Just to name a few:
- contrast manipulation, sharpening, smoothing, edge detection and median filtering
- geometric transformations such as scaling, rotation and flips
- image zooming (all analysis and processing functions are available at any magnification factor)
- density or gray scale calibration
- spatial calibration to provide real world dimensional measurements in units such as millimeters



Advanced Functions

Advanced functions are also supported, including:
- EDF (Extended Depth of Field) imaging (known also as stacking), displaying multiple spatially or temporally related images in a single window
- defined areas or lines selections using the rectangular, elliptical, polygonal and freehand selection tools
- calculate area and pixel value statistics, distances and angles measuring
- automatic counting particles
- create density histograms and line profile plots
- multithread operation, enabling time-consuming activities to be performed in parallel with other operations.



Constanty Add New Functions

ImageJ's functionality can be expanded through the installation of plug-ins, allowing you to extend its capabilities according to your needs.

OPTISCAN

OPTISCAN10
Digital scanner

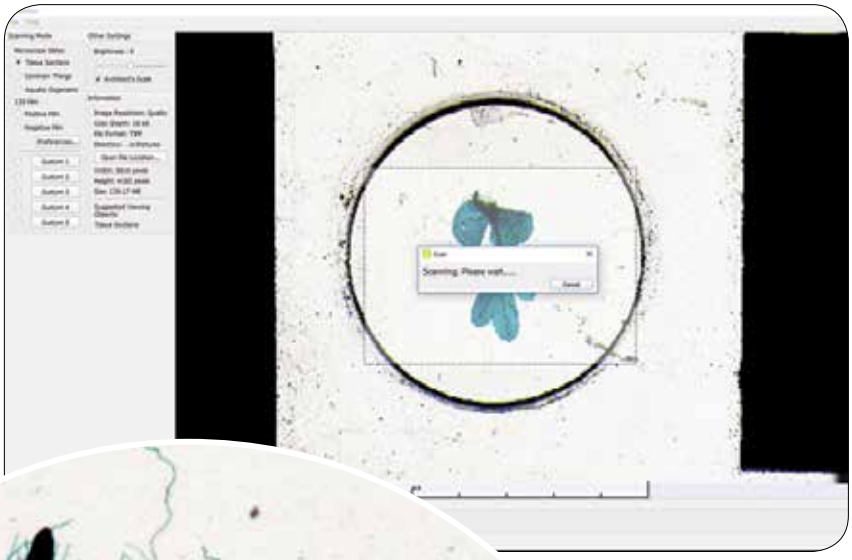
OPTISCAN10 - 4083.SC10

CONVERT YOUR GLASS SLIDES INTO DIGITAL DATA !

Rapid and high resolution scanner to convert your slides into digital slides. The digital slide can be easily manipulated to see any location at any magnifications. Digitizing slides opens up a variety of new possibilities, like:

- Creating a database to be incorporated into a laboratory information system
- Networking slide libraries to be consulted from distant facilities and research institutes
- Sharing expertise for evaluation processes and discussing
- Information storing (digital data does not deteriorate, are secure from damages and losses)

Main application fields are quality control & research, education, veterinary, histology / pathology, entomology / insectology, etc.



Main Features:

- High Resolution (up to 10.000 dpi)
- True & Neutral Color Fidelity
- White Balance & Distortion-free Images
- Dedicated Illumination (LED Transmitted Light)
- Efficient Scanning Area, Wide Field of View
- Impressive Scanning Speed (from 40 sec. to few minutes)
- High Sensitivity CCD Sensor
- Largest Field Of View, Better Than Any Camera

Ideal for:

- building up a comprehensive database of images for routine operations
- sharing expertise for evaluation processes
- archiving confidential patient information

OPTISCAN10 - Technical Specifications

OPTISCAN10 is an extremely convenient scanner for professionals, labs & teaching purposes, offering unmatchable price/performance ratio and coming along with a comprehensive but user-friendly software.
A ultra efficient, compact scanning device carrying high resolution features for spot detection with easy operation figure.
It is equipped with a dedicated LED transmitted light system and high resolution CCD sensor, ensuring high sensitivity with low background noise.

Signal output	USB 2.0
Illumination	LED
Resolution	5'000 dpi (Normal), 10'000 dpi (Quality)
Allowed slide	Standard 24 x 75 mm
Scan view size	Any size, Max 24 x 36mm
Prescan function time	25 seconds
Scanning time (Normal)	1min 30sec (24 x 36mm); 40 sec (standard 15x15mm cover slide)
Scanning time (Quality)	2min 10sec (24 x 36mm); 1min (standard 15x15mm cover slide)
Always included	1.5 m USB cable, power supply, CD rom
System requirements	Windows XP service pack 2, Vista / win7 / win8 / win10 / 32-64 bit / USB 2.0
Supplied software	Multilanguage software for image scan
Capture features	Prescan, slide scan 24x36mm, crop scan, brightness, contrast, saturation, image flip

Headquarters and Manufacturing Facilities

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