

OPTIKA

M I C R O S C O P E S
I T A L Y

Video and photo cameras

VIDEO AND PHOTO APPLICATIONS

OPTIKAM B05 / OPTIKAM B1 / OPTIKAM B2 / OPTIKAM B3

OPTIKAM B5 / OPTIKAM B9 / OPTIKAM PRO 3LT

OPTIKAM PRO3 / OPTIKAM PRO 5LT / OPTIKAM PRO 5

OPTIKAM PRO COOL 5 / DIGI / TB-2L / TB-2W / EDUCAM SERIES

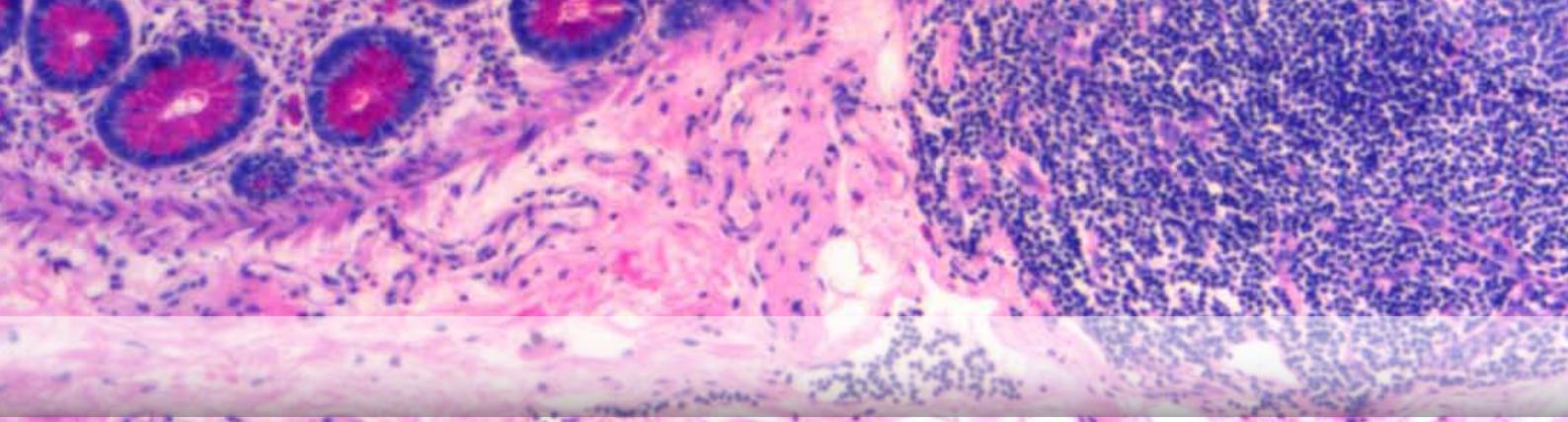
VC SERIES

VIDEO AND PHOTO APPLICATIONS

Video and photo cameras



VIDEO AND PHOTO APPLICATIONS



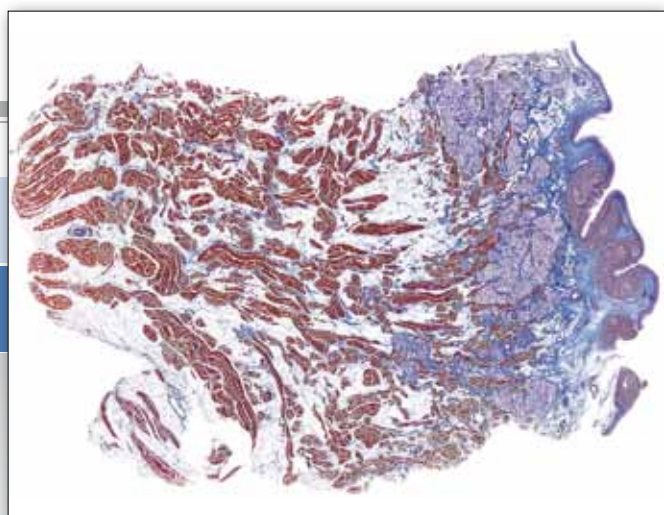
OPTIKAM® Cameras

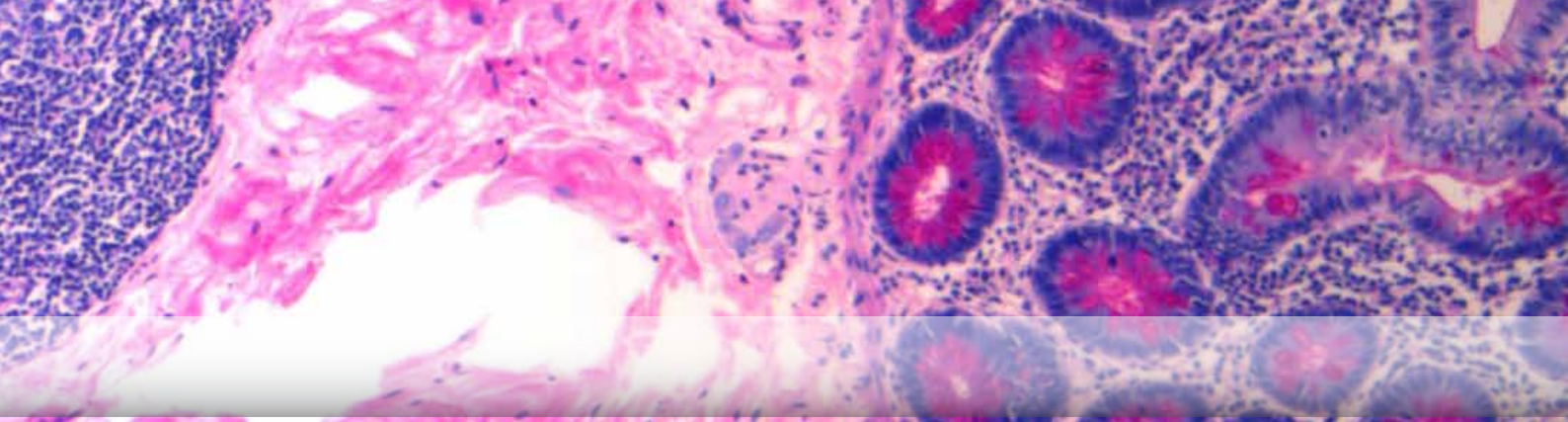
A wide range of instruments fulfilling any requirement in the photo/video field. It has never been so easy to get impressive images from your microscope. Thanks to different resolutions, all digital cameras (to be used with PC or TV set) can meet the demands of either a professional user or people who are looking for an economic but valuable product.

Several models (OPTIKAM B2, Pro LT models, and pro Cool 5) are designed to be used on trinocular microscopes by using specific adaptors (optional accessories). It will be easy to connect these instrument to any microscope, biological or stereo, by C-mount.

The models with optical eyepiece adapter are ready to be used (by means of one of the two eyepieces) on monocular and binocular microscopes too, both biological and stereo.

OPTIKAM Budget Series	USB cameras for general purpose
OPTIKAM Pro Series	High Performance cameras with advanced software package
OPTIKAM CCD Cooled Camera	Very high-sensitive camera with cooled CCD
DIGI	Universal photo & video (1080p) camera
TB-2 SERIES	Tablet PC with integrated camera
EDUCAM SERIES	Multimedia cameras
VC SERIES	CCD videocameras for general purpose





OPTIKAM® Budget Series - USB cameras

OPTIKAM B05	Eyepiece Camera
Sensor	CMOS 1/4"
Resolution	800x600 pixels (0,48 Mpixels)
Frame Rate at Full Resolution	25 frames/sec
Frame Rate at VGA Resolution	30 frames/sec
Optical Format	1/4"
Aspect Ratio	4:3
S/N Ratio	52 dB
Dynamic Range	60 dB
Sensitivity	2,0 V/Lux-second
C-Mount:	No
Adapters for stereomicroscopes	30 and 30,5 mm diameter
Calibration slide	None
System Requirements	Windows XP/Vista/Seven, 32-64 bit, USB port
Software	Optika Vision Lite / OPTIKA MIPro
Capture Features	Continuous auto white balance, continuous auto exposure
Accessories included	1.8 m USB cable, carton box



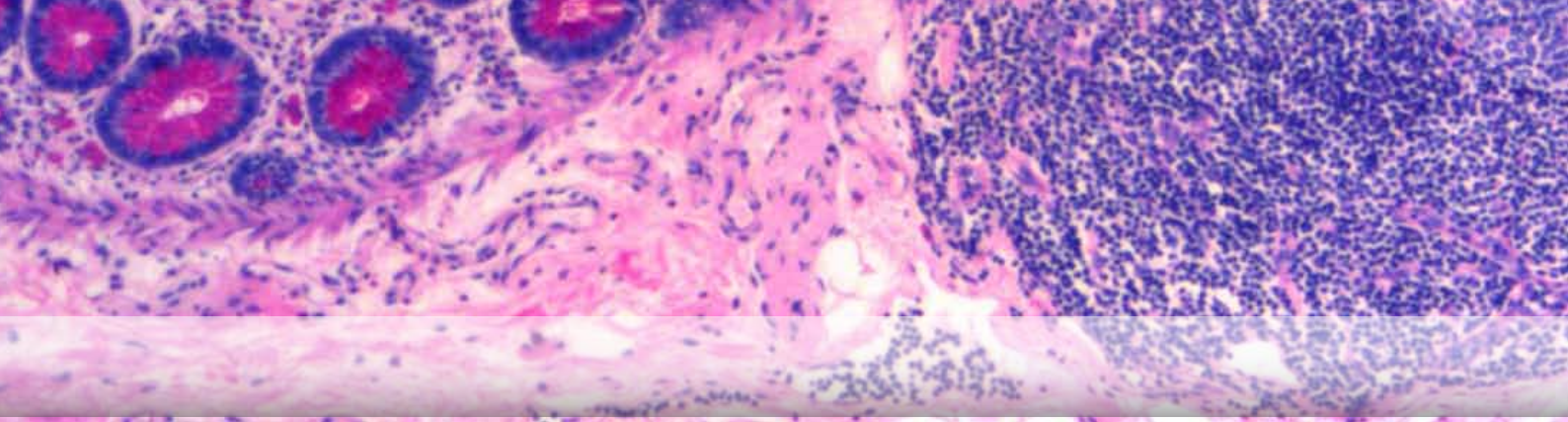
OPTIKAM B1	C-mount and Eyepiece Camera
Sensor	CMOS 1/3"
Resolution	1280 x 1024 pixels (1,3 Mpixels)
Frame Rate at Full Resolution	15 frames/sec
Frame Rate at VGA Resolution	30 frames/sec
Optical Format	1/3"
Aspect Ratio	4:3
S/N Ratio	44 dB
Dynamic Range	71 dB
Sensitivity	1,0 V/Lux-second
C-Mount:	Yes
Optical adapter	0,5x (for eyepiece tube)
Adapters for stereomicroscopes	30 and 30,5 mm diameter
Calibration slide	76x24mm micrometric calibration slide
System Requirements	Windows XP/Vista/Seven, 32-64 bit, USB port
Software	Optika Vision Lite / OPTIKA View
Capture Features	Continuous auto white balance, continuous auto exposure
Accessories included	1.8 m USB cable, carton box



OPTIKAM B2	C-mount Camera
Sensor	CMOS 1/3"
Resolution	1600 x 1200 pixels (2 Mpixels)
Frame Rate at Full Resolution	10 frames/sec
Frame Rate at VGA Resolution	25 frames/sec
Optical Format	1/3"
Aspect Ratio	4:3
S/N Ratio	56 dB
Dynamic Range	60 dB
Sensitivity	1,0 V/Lux-second
C-Mount:	Yes
Optical adapter	None
Adapters for stereomicroscopes	None
Calibration slide	76x24mm micrometric calibration slide
System Requirements	Windows XP/Vista/Seven, 32-64 bit, USB port
Software	Optika Vision Lite / OPTIKA MIPro
Capture Features	Continuous auto white balance, continuous auto exposure
Accessories included	1.8 m USB cable, carton box



Special model designed for trinocular microscopes only. This camera does not include any optical adapter for biological microscopes or stereomicroscopes. Especially designed for heavy applications, the Optikam B-2 is very robust and does not need the installation of any driver in your computer.



OPTIKAM® Budget Series - USB cameras

OPTIKAM B3	C-mount and Eyepiece Camera
Sensor	CMOS 1/2"
Resolution	2048 x 1536 pixels (3,14 Mpixels)
Frame Rate at Full Resolution	8 frames/sec
Frame Rate at VGA Resolution	30 frames/sec
Optical Format	1/2"
Aspect Ratio	4:3
S/N Ratio	44 dB
Dynamic Range	71 dB
Sensitivity	1,0 V/Lux-second
C-Mount:	Yes
Optical adapter	0,5x (for eyepiece tube)
Adapters for stereomicroscopes	30 and 30,5 mm diameter
Calibration slide	76x24mm micrometric calibration slide
System Requirements	Windows XP/Vista/Seven, 32-64 bit, USB port
Software	Optika Vision Lite / OPTIKA View
Capture Features	Continuous auto white balance, continuous auto exposure
Accessories included	1.8 m USB cable, carton box



OPTIKAM B5	C-mount and Eyepiece Camera
Sensor	CMOS 1/2,5"
Resolution	2592 x 1944 pixels (5,04 Mpixels)
Frame Rate at Full Resolution	8 frames/sec
Frame Rate at VGA Resolution	30 frames/sec
Optical Format	1/2,5"
Aspect Ratio	4:3
S/N Ratio	40,5 dB
Dynamic Range	60 dB
Sensitivity	1,0 V/Lux-second
C-Mount:	Yes
Optical adapter	0,5x (for eyepiece tube)
Adapters for stereomicroscopes	30 and 30,5 mm diameter
Calibration slide	76x24mm micrometric calibration slide
System Requirements	Windows XP/Vista/Seven, 32-64 bit, USB port
Software	Optika Vision Lite / OPTIKA View
Capture Features	Continuous auto white balance, continuous auto exposure
Accessories included	1.8 m USB cable, carton box



OPTIKAM B9	C-mount and Eyepiece Camera
Sensor	CMOS 1/2,3"
Resolution	3488 x 2616 pixels (9,12 Mpixels)
Frame Rate at Full Resolution	2 frames/sec
Frame Rate at Middle Resolution(1,3Mp)	15 frames/sec
Frame Rate at VGA Resolution	30 frames/sec
Optical Format	1/2,3"
Aspect Ratio	4:3
S/N Ratio	40,5 dB
Dynamic Range	63 dB
Sensitivity	1,0 V/Lux-second
C-Mount:	Yes
Optical adapter	0,5x (for eyepiece tube)
Adapters for stereomicroscopes	30 and 30,5 mm diameter
Calibration slide	76x24mm micrometric calibration slide
System Requirements	Windows XP/Vista/Seven, 32-64 bit, USB port
Software	Optika Vision Lite / OPTIKA View
Capture Features	Continuous auto white balance, continuous auto exposure
Accessories included	1.8 m USB cable, carton box



Hi-Performance cameras with advanced software package

OPTIKAM® PRO Series

C-mount cameras for video and still-image capturing with high performances. These cameras are delivered with our complete OPTIKA VISION SOFTWARE PACKAGE.

LT versions do not include any eyepiece adapter.

Ideal for professional trinocular microscopes.



	OPTIKAM® PRO 3LT		OPTIKAM® PRO 3	OPTIKAM® PRO 5LT		OPTIKAM® PRO 5
Resolution	2048 x 1536 pixels (3.2 Mpixel)			2560 x 1920 (5.0 Mpixel)		
Sensor	CMOS 1/2"			CMOS 1/2,5"		
Pixel Size	3.2 μm x 3.2 μm			2.2 μm x 2.2 μm		
Image Area	6.55 mm x 4.92 mm			5.70 mm x 4.28 mm		
Frame Rate at Full Resolution	12 frames/sec			3 frames/sec		
Frame Rate at Half Resolution	24 frames/sec			12 frames/sec		
Optical Format	1/2"			1/2"		
Aspect Ratio	4:3			4:3		
S/N Ratio	43 dB max			40.5 dB max		
ADC	10 bit			10 bit		
Data Output (Uncompressed Video)	3x8 bit			3x8 bit		
Sensitivity	1.0 V/Lux-second			0.53 V/Lux-second		
System Requirements	Windows XP / Vista 32-64bit / Win 7 32-64bit, USB 2.0 port			Windows XP / Vista 32-64bit / Win 7 32-64bit, USB 2.0 port		
Software	OPTIKA Vision Pro Plus, TWAIN interface, SDK			Optika Vision Pro, TWAIN interface, SDK		
Capture Features	Continuous auto white balance, continuous auto exposure, averaging, subsampling (decimation)			Continuous auto white balance, continuous auto exposure, averaging, subsampling (decimation)		
Optical adapter	None		0,45x with additional ring adapter for stereomicroscopes	None		0,45x with additional ring adapter for stereomicroscopes
Included with the camera	3 m USB cable, 76x24mm micrometric calibration slide, C-mount cap, box			3 m USB cable, 76x24mm micrometric calibration slide, C-mount cap, box		
Max exposure	1 sec			28,9 msec		
Max extended exposure	26 sec			29 msec		

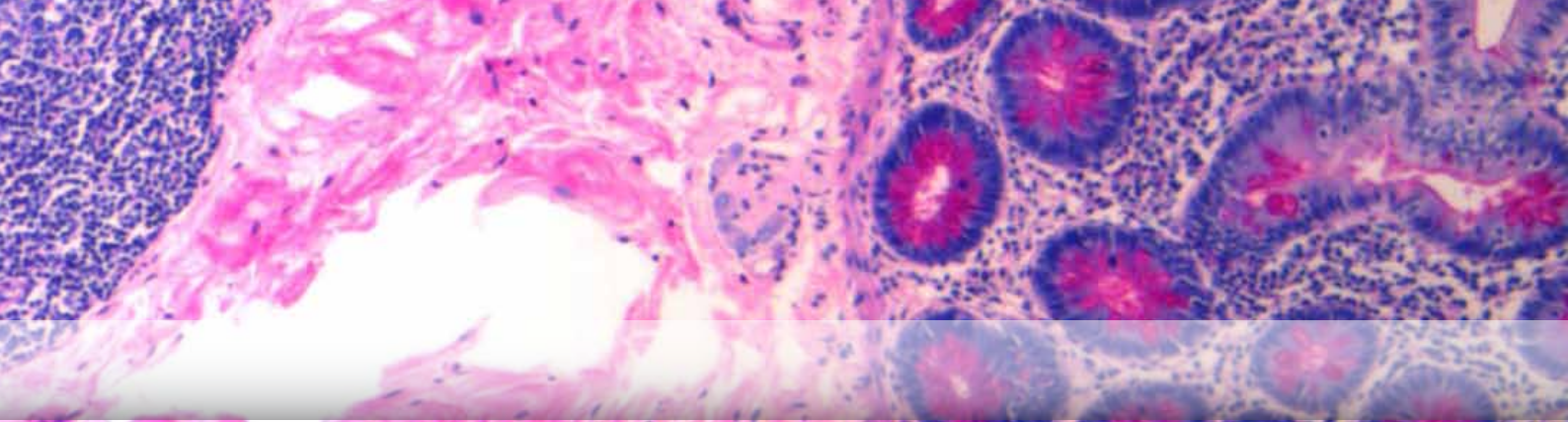
OPTIKAM® Pro Cool 5 - 5 Mpixel cooled CCD camera

A new CCD cooled camera for fluorescence applications

- * Scientific-grade CCD chip
- * 5 Mega pixels resolution (2580x1944 pixels)
- * 12 bit color RGB
- * Peltier-cooled to 30° below room temperature
- * Very long exposure time for fluorescence imaging
- * Anti "amplifier glow" function for long exposure
- * CNC aluminum alloy metal case



OPTIKAM Pro Cool 5	CCD Cooled Camera
CCD chip manufacturer, model	Sony, ICX282AQ
CCD scan mode	interline transfer
CCD size	2/3"
Pixels	3.4mm x 3.4mm
G sensitive	280 mV
Resolution	2580H x 1944V
Filter	RGB
C-mount	Yes
Frame Rate at Max Resolution	3 fps (2580x1944)
Frame Rate at VGA Resolution	10 fps (1280x932)
Low-speed readout	Yes
A/D conversion	8/12 bit
Peltier cooling system	30°C below room temperature
Exposure control	Automatic, manual
Exposure time	0.1ms - 9 minutes
Anti "amplifier glow"	Yes
White balance	Automatic, manual
Parameter controls	image size, brightness, gain, exposure time, white balance
Data interface	USB2.0 / 480Mb/s
Dimension	130mm x 111mm x 54mm
System Requirements	Windows XP / Vista 32-64bit / Win 7 32-64bit, USB 2.0 port
Software	Optika View



DIGI - Full HD video/photo camera

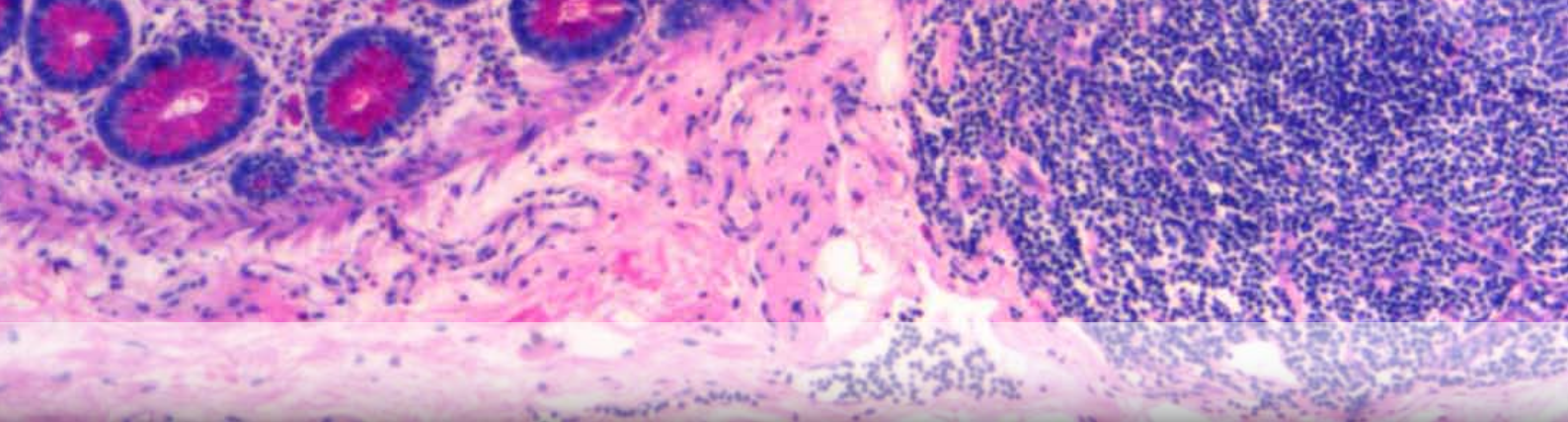
OPTIKA Microscopes is pleased to introduce a new model of digital camera, fitted with USB connection and AV output for HDTV or TV set with standard resolution. All you need to capture pictures and videos from your microscope or simply from the surroundings is in this 2-in-1 model. Other advantages of the new DIGI camera are the possibility to record videos and to use it as a standard digital camera, for personal use. The camera sensor has a resolution of 5MPixels (8Mpixels through interpolation), it is provided with 3X optical zoom and a very bright 2.4" LCD display. The system also includes specific adapters that allow the use on all microscopes and stereomicroscopes models with diameter of the eyepiece holder of 23mm or 30mm. A complete software will allow you to process, file and work with the captured images. The camera includes a 2GB SD memory card.

DIGI	Digital Photo and Video Camera
Sensor	5.0 MP 1/2.5" CCD Sensor
Resolution (PHOTO)	8Mp (3200x2400 pixels) 5Mp (2595x1944 pixels) 3Mp (2048x1536 pixels)
Resolution (VIDEO)	1440x1080 (HD 1080p, 30fps) 1280x720 (HD 720p, 60fps) 1280x720 (HD 720p, 30fps) 848x480 (480p, 60fps) 320x240 (QVGA, 30fps)
Lens	3x optical zoom lens
Digital zoom:	4x (2x in 1080p mode)
File format:	JPEG, MOV, WAV
Internal Memory:	32MB
External Memory:	2GB SD card included (up to 32GB SDHC)
LDC display:	2,4"
TV out:	HDTV Component Out, PAL/NTSC system supported
Interface:	USB 2.0
Voice Recorder:	Yes
Microphone:	Internal (stereo), mic jack
Speaker:	Yes
Nightshot:	Yes (both in still image and video modes)
E.I.S.:	Electronic Image Stabilization
C-Mount:	No
Optical adapter	10x (for eyepiece tube)
Adapters for stereomicroscopes	30,0mm diameter
Battery:	Li-Ion rechargeable
Remote Control:	Yes, IR transmission



DIGI



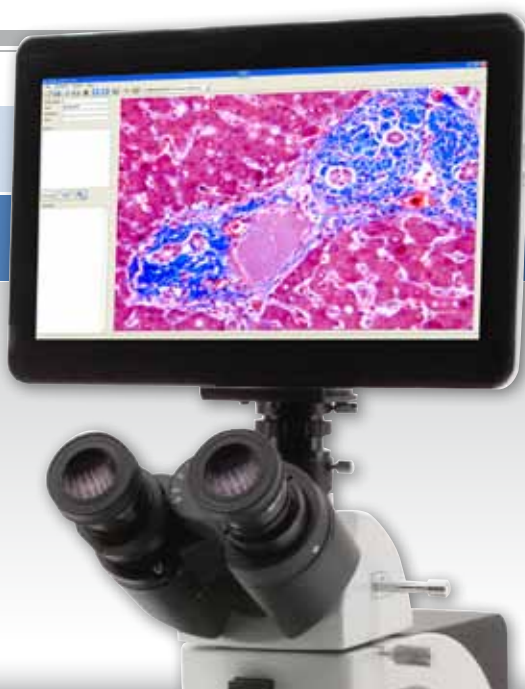


TB-2 Series - Tablet PC with integrated camera

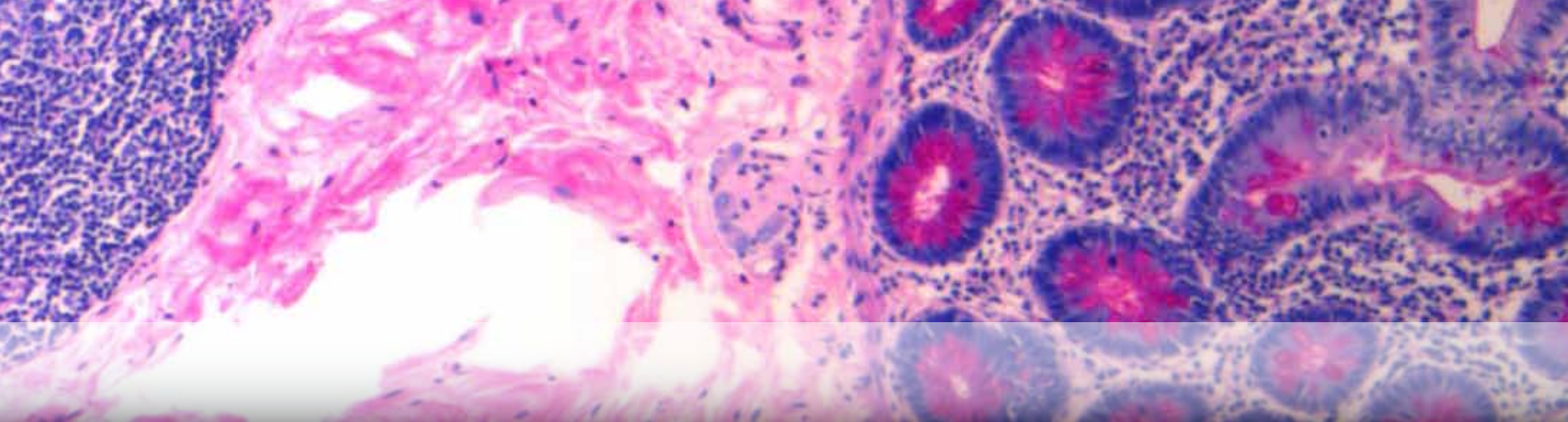
Finally, something new in digital microscopy !

A Tablet PC with 10" LCD touch screen, in combination with a 2Mp C-mount camera:
an universal system wich can be installed on every trinocular microscope.

Tablet PC specifications	TB-2L	TB-2W
PCU	Intel Atom N455 1.66GHz	
Screen	10" Touch	
Hard Disk	16 GB	
RAM	1GB	
Graphics Card	Intel GMA3150	
LAN	Ethernet port	
USB 2.0	2 ports	
VGA output	Yes mini	
W-LAN	Wi-Fi adapter	
Bluetooth	Yes	
SD Card Reader	Yes	
OS	Linux Ubuntu	Windows 7 Home Premium 32bit
Image Analysis Software	Image J	Optika Vision Lite / Optika MiPRO
USB Camera specifications		
Sensor	CMOS 1/3"	
Resolution	1600 x 1200 pixels (2 M pixels)	
Frame Rate at Max Resolution	10fps	
Frame Rate at VGA Resolution	25fps	
S/N Ratio	56 dB	
Dynamic range	60 dB	
Sensitivity	1,0V/lux-second	



TABLET



EDUCAM® Series - Multimedia cameras

The EDUCAM® video camera is especially designed to meet the various requirements in the educational field. When it is connected to a professional monitor or simply to a TV set, EDUCAM® is able to carry out many different functions.

- It can be used as an episcope, for the reproduction of
- texts, documents, photographs
- to enlarge small objects, insects, minerals
- for video-microscopy, connected to microscopes used in biology or to stereomicroscopes
- as an overhead projector, for the projection of drawings
- as a camera for teleconferences, assemblies, meetings
- as a camera for filming, with the help of a video recorder.

Its ultra-high sensitivity enables to record clearly even in low-light conditions.

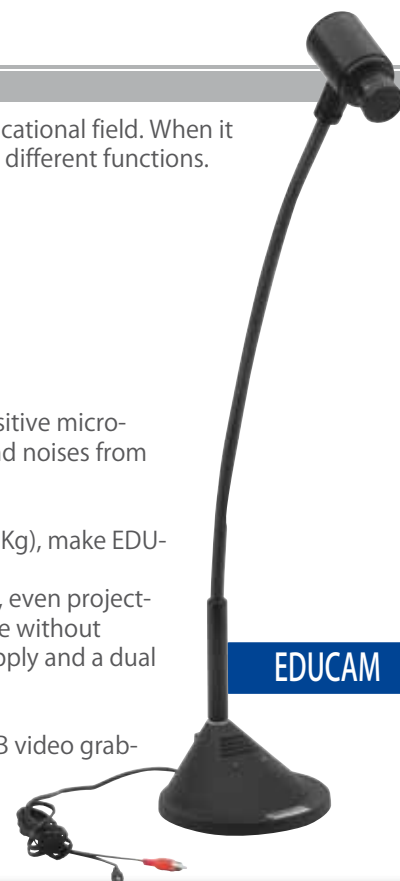
The special lens enables you to focus from 0,76 cm, up to an infinite distance. An extremely sensitive microphone (only on Multimedia models), records the teacher's voice during the lesson, or sounds and noises from the surrounding area, that can be heard via the TV itself, or via a separate amplifying system.

The microphone can be switched off if required.

The special 50-or 65-cm flexible arm (12mm dia.) and the heavy weight of the base (approx. 2.7 Kg), make EDUCAM® versatile, sturdy and stable at the same time.

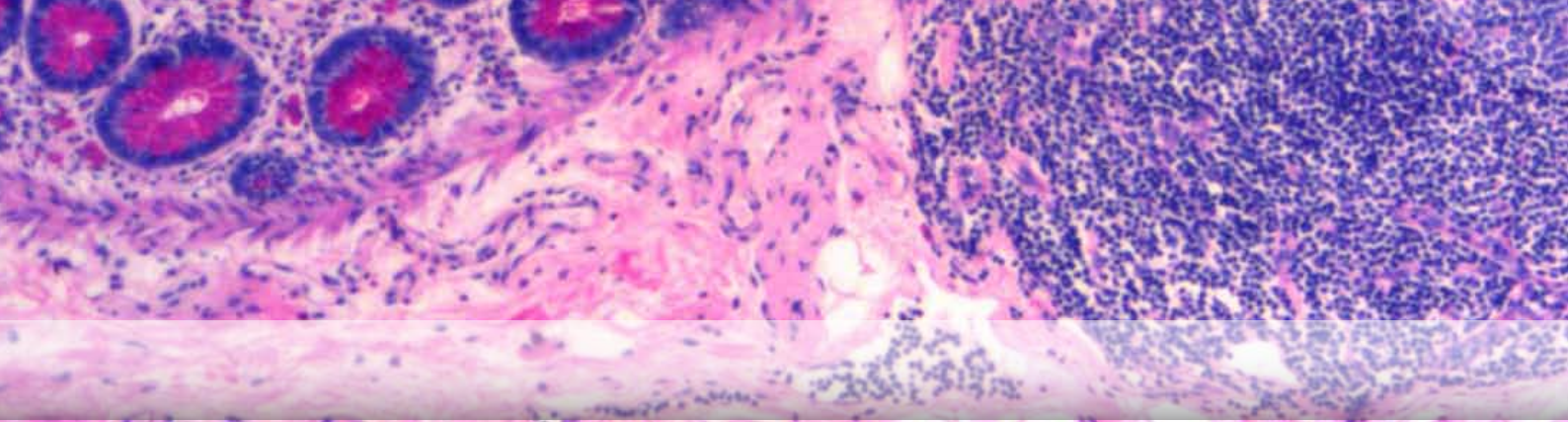
The CCD camera is placed on the end of a flexible arm that can be safely twisted in any position, even projecting from the base, without affecting the system stability. A special joint allows the head to rotate without damaging the wires inside the flexible arm. All models are equipped with an external power supply and a dual adapter for video-microscopy (for biological and stereo microscopes).

For the connection to a PC, a USB video grabber is available as option (see next page, CONV-USB video grabber). In the model EDUCAM USB, the video grabber is built-in.



Technical Features

	MULTIMEDIA 4083	MULTIMEDIA PRO 4083.1	STUDENT 4083.2	STUDENT PRO 4083.3	MIC 4083.5	USB 4083.4
CCD element	1/3"	1/3"	1/3"	1/3"	1/3"	1/3"
Resolution (TV lines)	420	420	420	420	420	420
Total pixels	298.000	298.000	298.000	298.000	298.000	298.000
Signal/noise ratio	>48 dB	>48dB	>48dB	>48dB	>48 dB	>48dB
Sensitivity (lux/F1.2)	0.8lux/F1.2	0.8lux/F1.2	0.8lux/F1.2	0.8lux/F1.2	0.8lux/F1.2	0.8lux/F1.2
Electronic shutter	yes	yes	yes	yes	yes	yes
Automatic gain control	yes	yes	yes	yes	yes	yes
White balance (auto)	yes	yes	yes	yes	yes	yes
Video signal	PAL (NTSC opt.)	PAL (NTSC opt.)	PAL (NTSC opt.)	PAL (NTSC opt.)	PAL (NTSC opt.)	PAL (NTSC opt.)
USB output	-----	-----	-----	-----	-----	yes
Digital resolution	-----	-----	-----	-----	-----	640x480 pixels
Working distance	>0,76 cm	>0,76 cm	>0,76 cm	>0,76 cm	>0,76 cm	>0,76 cm
Objective	8 mm	8 mm	8 mm	8 mm	8 mm	8 mm
Magnification	> 90x	> 90x	> 90x	> 90x	> 90x	> 90x
Microphone	yes	yes	-----	-----	-----	yes
Audio signal	analogic	analogic	-----	-----	-----	analogic
Voltage	15Vdc	15Vdc	12Vdc	12Vdc	12Vdc	15Vdc
Power adapter 230/12Vdc	included	included	included	included	included	included
Flexible arm length	50 cm	65 cm	50 cm	65 cm	-----	65 cm
Base diameter	17 cm	17 cm	17 cm	17 cm	-----	17 cm
Weight	3,4 Kg	3,5 Kg	3,3 Kg	3,4 Kg	0,4 Kg	3,5 Kg
Microscope adapters	included	included	included	included	included	included
System Requirements						Windows XP, VISTA, Seven 32-64 Bit



VC Series - CCD Cameras

VC-01



VC

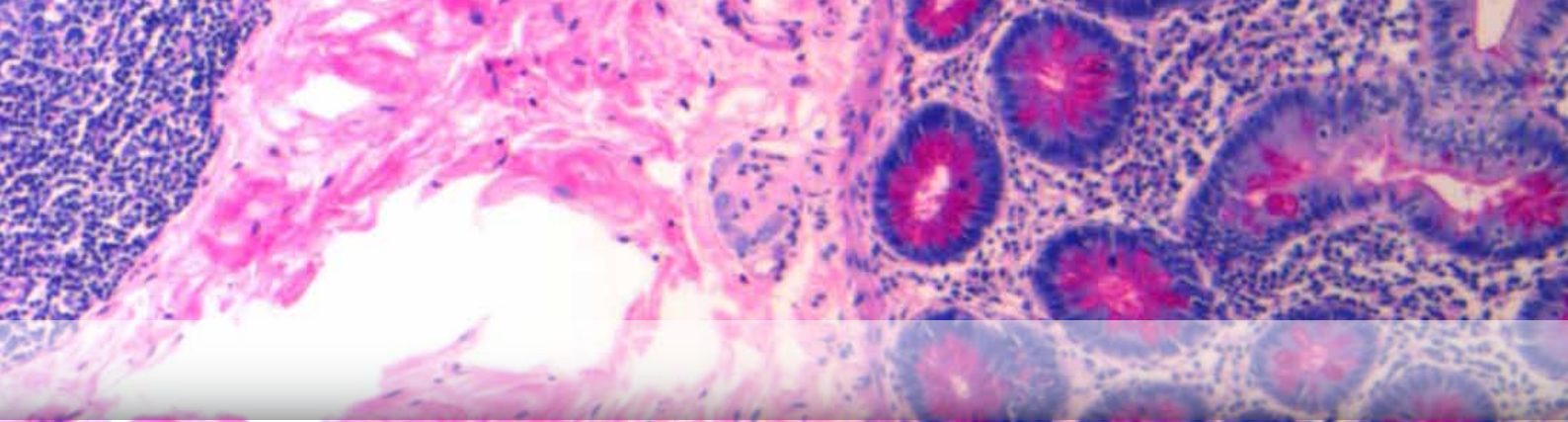


VC-05



CONV-USB





VC Series - CCD Cameras

Videomicroscopy system composed by a colour CCD TV camera, complete with Bio & Stereo Microscope adapter tube, integrated power supply unit, cables and manuals.

VC-01	Videomicroscopy system
Sensor	CCD SONY sensor 1/3"
Horizontal Resolution	420 TV lines (PAL)
Picture elements	500[H]x582[V]
Video output	BNC VBS 1.0Vp-p, 75 Ohm
C-Mount	C/CS
Sensitivity	0.5lux/F=1.2
Auto white balance	Yes
Auto gain control	Yes
Load current	150mA
Dimension	60x50x145mm - Weight 400g
Operating temperature	-10° to + 50°

VC-04	Videomicroscopy system
Sensor	CCD SONY sensor 1/3"
Horizontal Resolution	480 TV lines (PAL)
Picture elements	752[H]x582[V]
Video output	BNC VBS 1.0Vp-p, 75 Ohm
C-Mount	C/CS
Sensitivity	0.8lux/F=1.2
Auto white balance	Yes
Auto gain control	Yes
Load current	150mA
Dimension	60x50x145mm - Weight 400g
Operating temperature	-10° to + 50°

Colour CCD TV camera for C-Mount connection, complete with cables, SCART adapter & manual.

VC-02	Videomicroscopy system
Sensor	CCD SONY sensor 1/3"
Horizontal Resolution	420 TV lines (PAL)
Picture elements	500[H]x582[V]
Video output	BNC VBS 1.0Vp-p, 75 Ohm
C-Mount	C/CS
Sensitivity	0.5lux/F=1.2
Auto white balance	Yes
Auto gain control	Yes
Load current	150mA
Dimension	60x50x145mm - Weight 400g
Operating temperature	-10° to + 50°

VC-03	Videomicroscopy system
Sensor	CCD SONY sensor 1/3"
Horizontal Resolution	480 TV lines (PAL)
Picture elements	752[H]x582[V]
Video output	BNC VBS 1.0Vp-p, 75 Ohm
C-Mount	C/CS
Sensitivity	0.8lux/F=1.2
Auto white balance	Yes
Auto gain control	Yes
Load current	150mA
Dimension	60x50x145mm - Weight 400g
Operating temperature	-10° to + 50°

VC-05 Eyepiece CCD camera

Simple eyepiece camera with CCD sensor. 340 TV Lines (PAL).

CONV-USB Video Grabber

Analogic to Digital signal converter for PC.

Real time video capture from camcorder, VCR or camera. User friendly software easily stores and manages images & videos. Real time/full size Video capture window. The CONV-USB video grabber comes with a CD with drivers for Windows XP, Vista and Seven 32-64bit.

OPTIKA - SOFTWARE SUITE

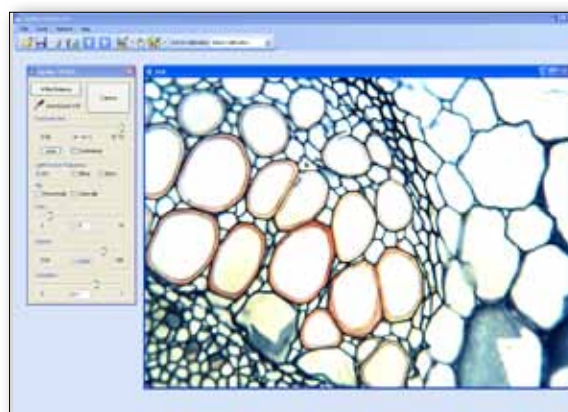
OPTIKA VISION[®] LITE is a software developed by Optika Microscopes with the main purpose to be a handy and simple tool for our customers using our Optikams and other digital microscope cameras. It has a simple user interface and can be used for image acquisition, line measurements and documentation. It is available in seven languages: English, Italian, French, Spanish, German, Swedish and Polish.

Image and video Acquisition

You can capture still images using a live preview that allows to precisely focus your image and change image parameters in order to have a perfect final result. The image can be saved separately in BMP, JPG or TIFF formats. It is also possible to import saved images from other sources.

Moreover:

- Image stacks acquisition (adjustable time steps)
- Square or round grid on live preview
- Video acquisition function included.

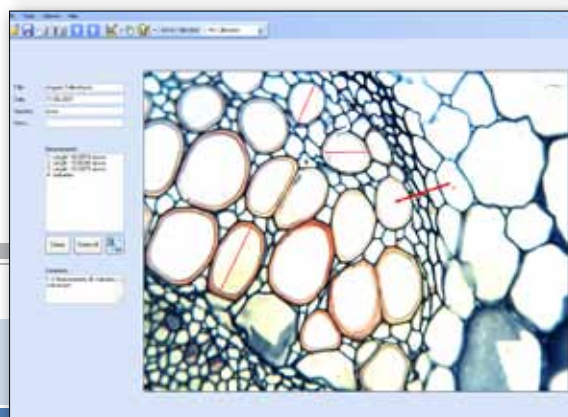


Measurements

Linear in-scale measurements can be made in any unit you like, using a simple calibration and measurement tool.

The data can be exported to a spreadsheet document for further elaboration.

There is also the possibility to indicate special objects in the image and to write comments.



Documentation

A report can be generated simply by printing the document on a normal printer or to a PDF. The document can be personalized with your own logo.



OPTIKA - SOFTWARE SUITE

OPTIKA VISION® PRO 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. You have also the possibility to create your own database for easy organisation and storage of your images.

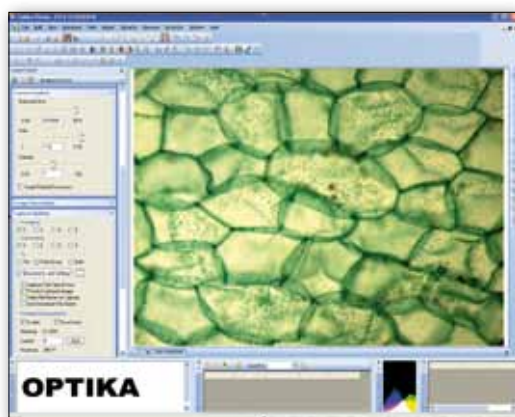


Image Acquisition

Optika Vision® Pro allows still image acquisition with several possibilities to control the image output according to your needs. There are functions such as white balance, automatic exposure, frame average, sub-sampling, hue, saturation and intensity controls, to mention a few.

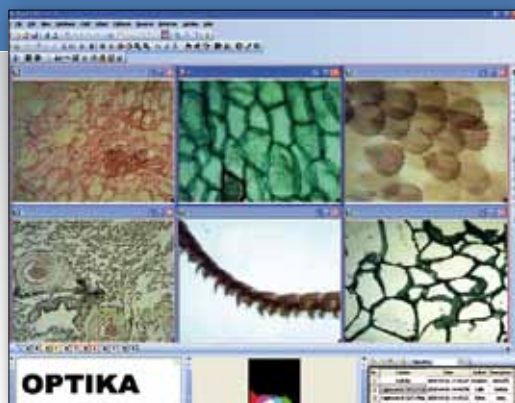
Post Elaboration and Measurements

Optika Vision® Pro also offers the possibility to make various types of enhancements and adjustments of the captured image and calibrated measurements of lines, angles and areas. You can also perform manual counting and measure the light density of your acquired image.

Organize your work

For easy storage and fast upload you can organize your images into a database where it is possible to search for the images using keywords.

In Optika Vision® Pro you can also arrange images into groups in order to combine them calculate the average or create a multi-focus composition.



OPTIKA - SOFTWARE SUITE

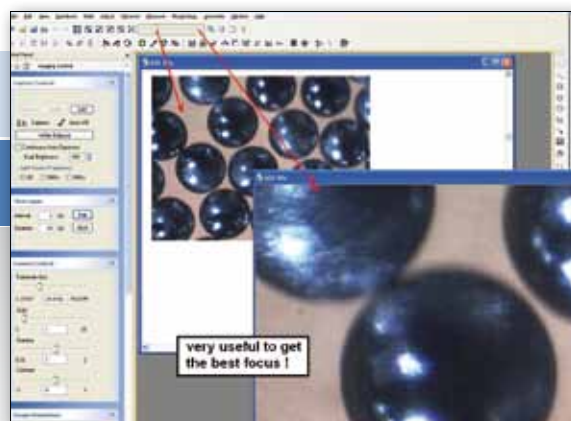
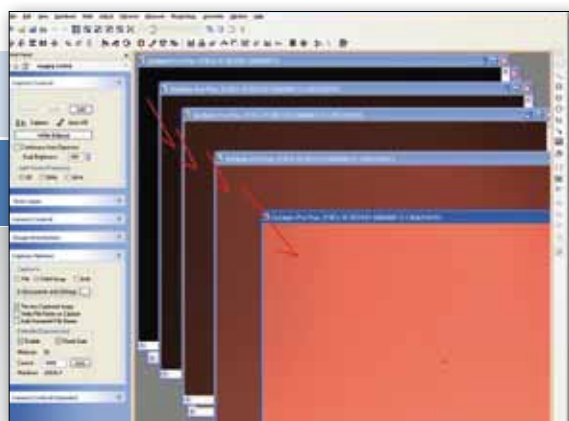
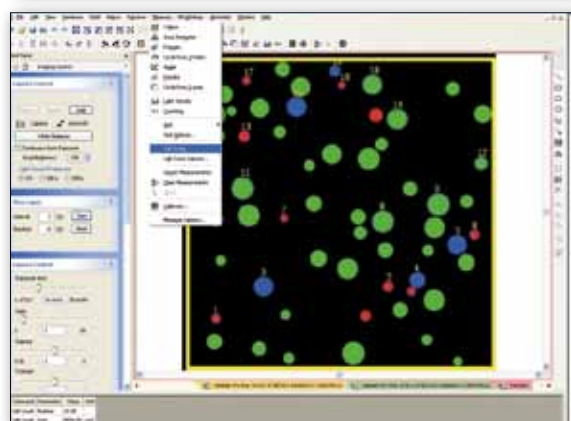
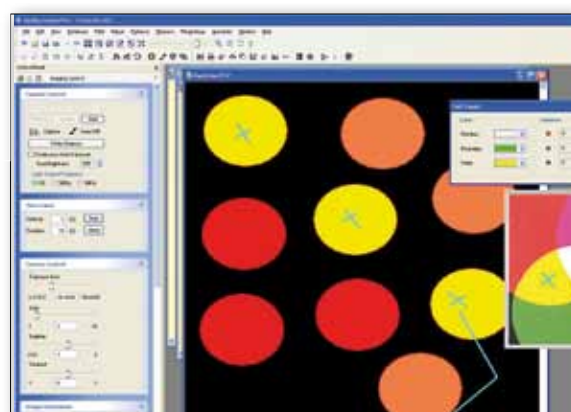
OPTIKA VISION® PRO PLUS

is a software version just for your PRO3 camera which, having a powered internal clock, allows a faster frame rate and additional useful functions such as:

- exposure time up to 1000msec.
- snap exposure time up to 26 sec, very useful when the light source is weak.
- automatic live image brightness on the screen.

and furthermore :

- a simple to use live zoom bar, very helpful to get the better focusing point.
- automatic cells counting (based on RGB colours)
- direct measurement on live view

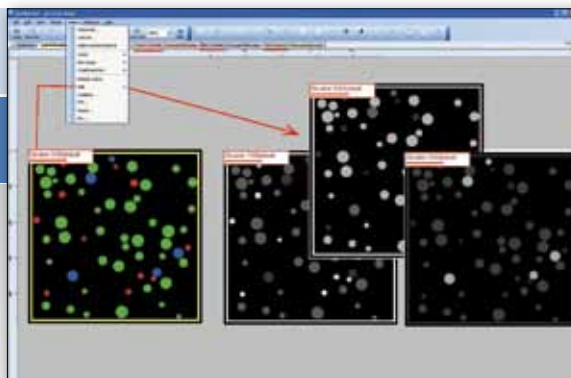
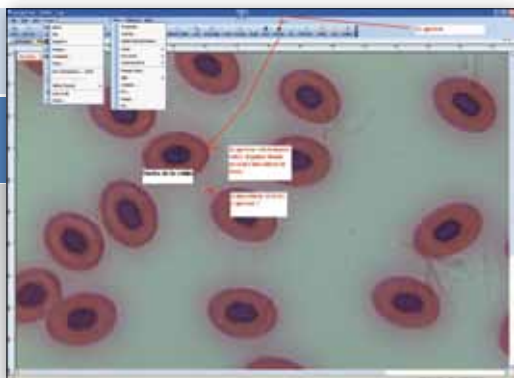
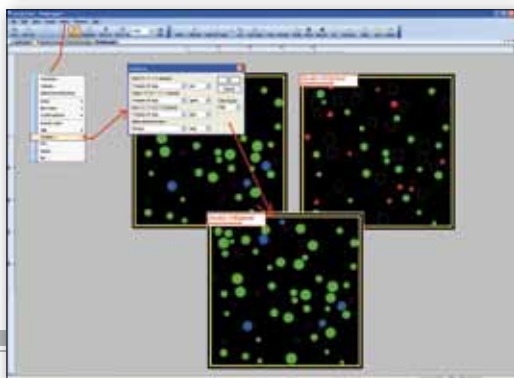


OPTIKA - SOFTWARE SUITE

OPTIKA VIEW is a new generation of microscope image analysis instruments, especially developed for our Optikam Budget and Pro Cool series, which contains various tools for processing and analysis of digital microscope images. It includes powerful tools for image capturing, adjusting, operating and measuring.

Image Acquisition

Optika View allows still image acquisition with several possibilities to control the image output according to your needs. There are functions such as white balance, automatic exposure, frame average, sub-sampling, hue, saturation and intensity controls, to mention a few.



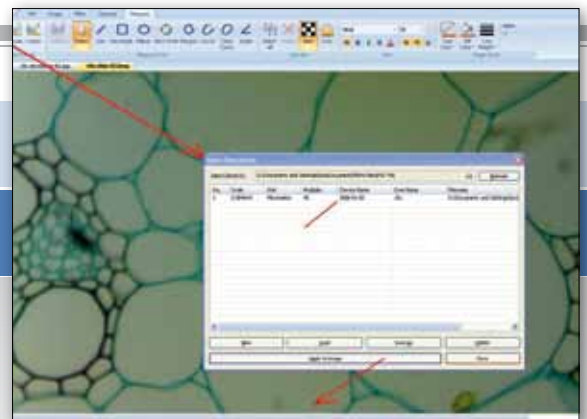
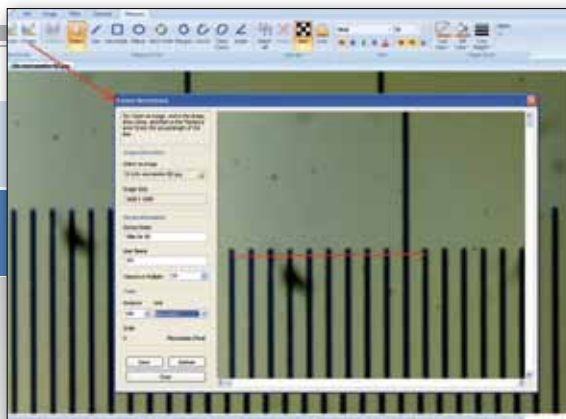
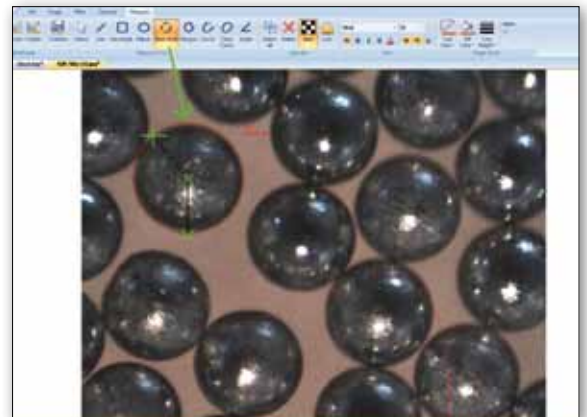
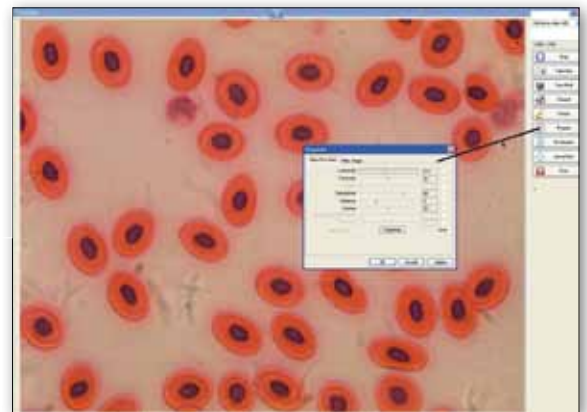
OPTIKA - SOFTWARE SUITE

OPTIKA MiPro

OPTIKA MiPro is a new generation of microscope image analysis instruments, especially developed for our Optikam B0.5 and B2 cameras, which contains simple tools for processing and analysis of digital images. It includes powerful tools for image capturing, adjusting, operating and measuring.

Image Acquisition

Optika MiPro allows still image acquisition with several possibilities to control the image output according to your needs. There are functions such as white balance, automatic exposure, frame average, sub-sampling, hue, saturation and intensity controls, to mention a few.





OPTIKA - SOFTWARE SUITE

FREWARE

The Optika Vision® software package also contains a bundle of imaging, video and image analysis software that are freely available from the Internet. They are provided free of charge, according to the original license, as an aid in the use of your Optika product.

Emamcapture

AMCap is a small yet fully functional video capture and preview application compatible with Microsoft™ DirectShow (formerly ActiveMovie, hence the name). It is based on the sample AMCap source code from the Microsoft DirectX 9 SDK.

GIMP

GIMP is the GNU Image Manipulation Program. It is a freely distributed advanced software for tasks such as photo retouching, image composition and image authoring. It works on many operating systems, in many languages.

Combine Z

This small software combines pictures to increase depth of focus.

Image Tool (not for Windows 7)

ImageTool is an advanced image processing and analysis program for Windows. It can acquire, display, edit, analyze, process, compress, save and print greyscale and colour images. It can read and write over 22 common file image formats.

Image analysis functions include dimensional (distance, angle, perimeter, area), automatic (or manual) object/cell counting and full analysis functions, and greyscale measurements (point, line and area histogram with statistics). ImageTool supports standard image processing functions such as contrast manipulation, sharpening, smoothing, edge detection, median filtering and spatial convolutions with user-defined convolution masks. ImageTool also has built-in scripting capabilities that allow the user to record repetitive tasks and playback saved scripts to automate image analysis. ImageTool was designed with an open architecture that provides extensibility via a variety of plug-ins for example image acquisition using either Adobe Photoshop plug-ins or Twain scanners is built-in.

ImageTool provides for geometric transformations and magnification up to four levels. All analysis and processing functions are available at any magnification factor.

ImageTool also provides for image annotation with text, arrows, rectangle, ellipses and polygon.

MBF ImageJ

ImageJ is a public domain Java image processing program that runs on any computer with a Java 1.4 or later virtual machine.

It can display, edit, analyze, process, save and print 8-bit, 16-bit and 32-bit images of various image formats. It supports "stacks", a series of images that share a single window. It is multithreaded, so time-consuming operations such as image file reading can be performed in parallel with other operations.

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I T A L Y