Motic®

MORE THAN MICROSCOPY

DIGITAL MICROSCOPES

DIGITAL PROFESSIONAL

SELECTION

DIGITAL
SELECTION
MICROSCOPES

GET READY TO EXPLORE THE FULL POTENTIAL OF YOUR MICROSCOPE!

In the Motic Digital Professional Microscope selection, we have lined up our top range of digital microscopes suitable for any application and working area. Our range contains biological and stereomicroscopes with digital and/or analogue output.

Whether you are a teacher at a University, a Lab Technician, a Researcher, working in the Industrial sector or a devoted microscopist, in this catalogue you will definitely find something suitable, for your application and within your budget. Discover the endless possibilities and benefits of a digital microscope.

Our 5-Year Limited warranty for the microscope and the 2-Year Limited warranty for the camera, is backed by a complete parts inventory that assures availability beyond the two year warranty period.

Motic's aim is to provide you with a complete package that will allow you to get immediately started.

Have a look at the several different digital microscopes and software solutions that we have to offer.

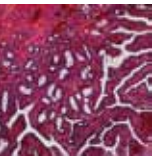
BA210 DIGITAL

All-in-one

The **BA210 Digital** is the perfect digital microscope as a teaching, training and analysis station. The complete closed system ensures no hassle with adapters or risk of getting dust on any of the optical parts. A 3.0 Mpixel CMOS chip is integrated in the head of the **BA210 Digital** providing crisp and clear images.

The USB 2.0 output ensures fast data streaming to the computer. **Motic** also includes the basic but sophisticated **Motic Images Plus 2.0 Multi Language software,** allowing you to share, capture, archive, make video recordings and accurate measurements of your samples.

- Binocular head Siedentopf type, 30° inclined with built-in digital camera CMOS 1/2" chip
- 3MP - 2048x1536 pixels with USB2.0 output
- Widefield high eyepoint eyepieces N-WF10X/20mm with diopter adjustment on both eyepieces
- Reversed quadruple revolving nosepiece
- CCIS® EF-N Plan Achromatic objectives EF-N PL 4X, 10X, 40X S, 100X S-oil
- Coaxial coarse and fine focusing system with tension adjustment
- Built in low position coaxial mechanical stage (Right-hand control)
- Focusable Abbe condenser N.A. 1.25 with iris diaphragm and slot
- Quartz halogen illumination 6V/30W with intensity control
- Motic Images Plus 2.0 for PC and MAC
- Calibration slide



BA310 DIGITAL

Koehler illumination & 3.0 MP camera

The **BA310 Digital** is a professional solution for life science and medical applications demanding high optical quality. With a digital camera of 3.0 Mpixels integrated in the head, the **BA310 digital**, is a powerful digital imaging solution.

The high resolution chip and the full Koehler configuration, provides superb and high contrast images. With the **BA310 Digital**, **Motic** also supplies the **Motic Images Plus 2.0 Multi Language software**, allowing you to analyse your samples more in depth.

- Binocular head Siedentopf type, 30° inclined with built-in digital camera CMOS 1/2" chip
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- Coaxial coarse and fine focusing system with tension adjustment
- Built in low position coaxial mechanical stage (Right-hand control)
- Focusable and centrable Abbe condenser N.A. 0.90 with iris diaphragm and slot
- Koehler illumination quartz halogen 6V/30W with intensity control
- Motic Images Plus 2.0 for PC and MAC
- Calibration slide

EF-N Plan
40X/0.65
∞/0.17
EF-N Plan
10X/0.25
∞/0.17
EF-N Plan
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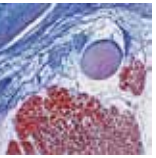


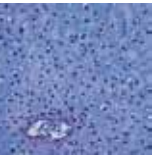
DM143 FBGG

Zoom objective & 3.0 MP camera

The zoom objective of the **DM-143-FBGG** ensures high optical quality when observing a sample at 10X magnification, then zooming continuously to close-up details at 40X ... or any point in between.

The **DM-143-FBGG** has a large working area stand which allows you to comfortably rest your arms on each side of the stand while manipulating the specimen. The 3.0 Mpixel camera with USB 2.0 output allows you to capture high resolution pictures with full details of your sample and analyze them further in the sophisticated **Motic Images Plus 2.0 software**, which is included in the package.

- Greenough zoom optical system
- Binocular head, 45° inclined with built-in digital camera CMOS 1/2" chip
- 2048x1536 pixels with USB2.0 output
- Widefield eyepiece WF10X/20mm
- 4:1 Zoom ratio, WD=80mm
- Magnification range: 1X-4X
- FBGG: Pole type stand with large working base
- Coarse focusing system with tension adjustment
- 12V/10W incident and transmitted halogen illumination with intensity control
- Motic Images Plus 2.0 for PC and MAC
- Calibration slide
- Black, white and frosted glass stage plates



DMW143 FBGG

Multi-output stereo zoom microscope

This microscope has exactly the same optical specifications as the **DM-143-FBGG**, the only difference is that the integrated camera is different; it is a **multi-output camera.**

With the **integrated multi-output camera**, the options are endless. You can connect the microscope directly to the computer by using the USB 2.0 cable and analyze it with the included **multi language Motic Images Plus 2.0 software**. But you can also connect the microscope directly to a TV monitor via the S-Video cable or have a direct connection to the projector with the RCA cable. Anything is possible! Not only you can chose between one of the three outputs, you can also use all three of them simultaneously!

- Greenough zoom optical system
- Binocular head, 45° inclined with built-in analogue/digital camera CCD 1/3" chip
- 720x576 resolution USB2.0
- Max. 550 TV lines resolution S-Video & RCA
- Widefield eyepiece WF10X/20mm
- 4:1 Zoom ratio, WD=80mm
- Magnification range: 1X-4X
- FBGG: Pole type stand with large working base
- Coarse focusing system with tension adjustment
- 12V/10W incident and transmitted halogen illumination with intensity control
- Motic Images Plus 2.0 for PC and MAC
- USB, S-Video & RCA cables
- Calibration slide
- Black/White and frosted glass stage plates

Multi-Output

The **DMW-143-FBGG** has digital and analogue connections, allowing you to **connect your digital microscope simultaneously to:**

Computer

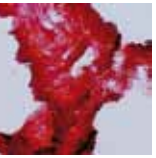
Through the **USB 2.0** cable you can connect the **DMW-143-FBGG** directly to your computer. By using the **Motic Images Plus 2.0 Software**, you can capture images, perform measurements and create videos, with just a few mouse clicks!
The Motic Images Plus 2.0 is an analysing software, which allows you to get the maximum information from the image and use all kinds of image enhancement tools to prepare your picture for reports and presentations.

Projector/Beamer

Connect the **DMW-143-FBGG** directly to your projector/beamer with the **RCA or S-video cable**, in order to share your images with a larger audience. Even when the images are enlarged by the projector, the **DMW-143-FBGG** will ensure that crisp, clear images are being displayed.

TV Monitor

Use the **S-Video or RCA output** of the **DMW-143-FBGG** to connect it directly to the TV monitor.
With a resolution of **550 TV lines,** even the finest details will be displayed.



Motic Images Plus 2.0

The essence of Motic´s Image Analysis Software

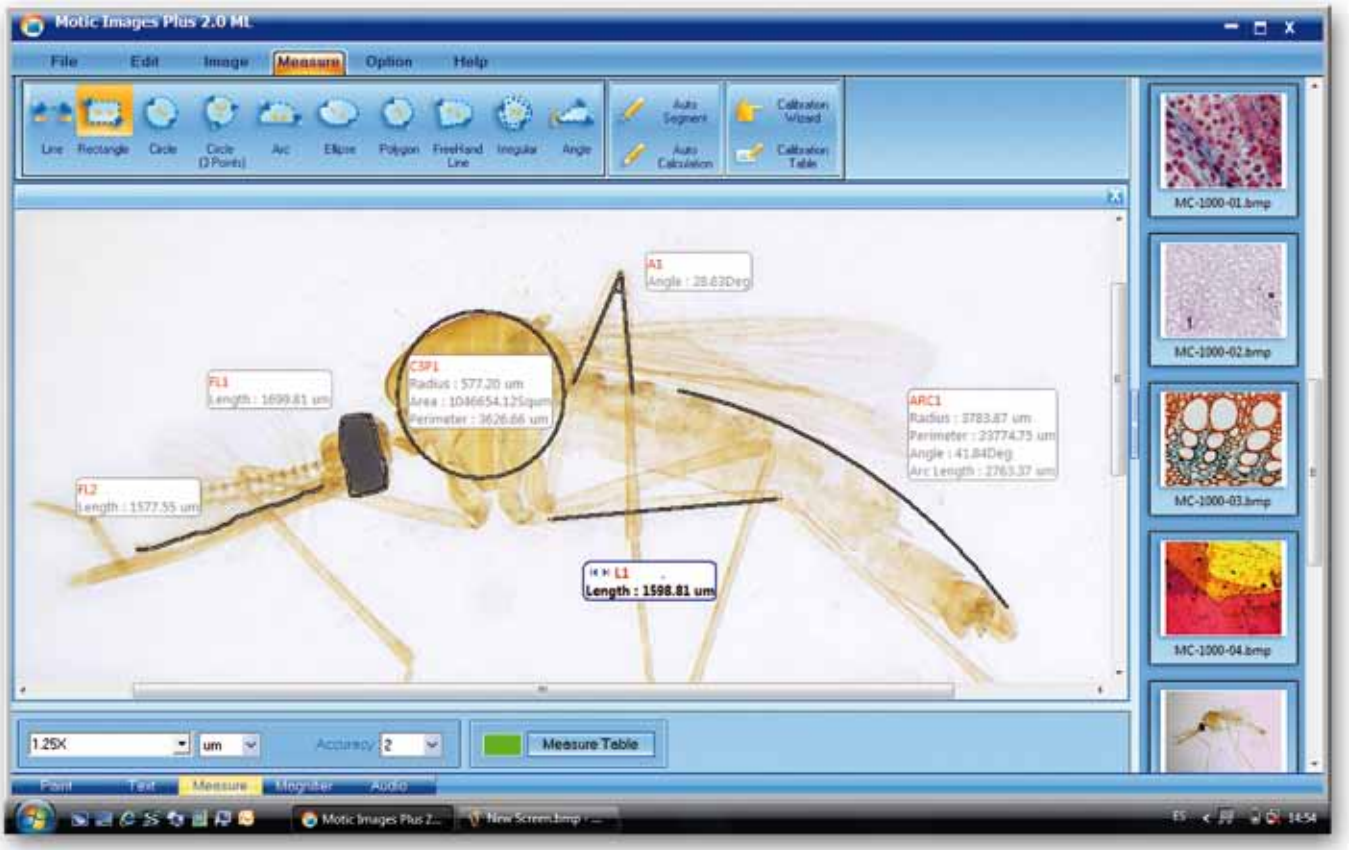
The multi language image analysis software, Motic Images Plus 2.0, is your entry ticket to the digital world of microscopy.
Many years ago this software was introduced as a “basic” software for capturing images and for storing them in a digital format. Nowadays the **Motic Images Plus 2.0** is far from “basic”. With the help of many **Motic Digital Microscope** users around the world it has become **highly sophisticated image analysis software** with the following main functions:

Capture	**Automated counting**
Auto Capture	**Creating reports**
Video recording	**Image comparison**
Measurements	**Amalgamation**

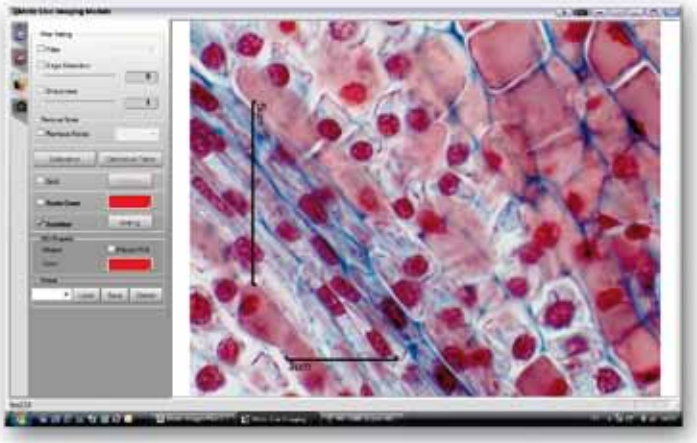
At the present time we are still in close contact with many users of our software. Approximately each 6 months a new up-date of the **Motic Images Plus 2.0,** can be downloaded on our website. Once you have purchased a digital microscope you can get **unlimited FREE up-dates.**

Besides the software itself, we also put a lot of effort into making the digital microscopes compatible with different types of Operating systems, and of course the new releases of each Operating System. At present our digital microscopes are able to work with Windows (XP, Vista and 7), MAC and LINUX.

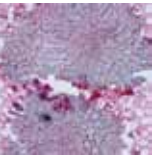
In case you would like to use a different Image analysis program with the digital microscope cameras, you can run most cameras by using the TWAIN driver or the DirectShow device.



Motic Images Plus 2.0 ML - *Measures*



Motic Images Plus 2.0 ML - *MI Device*



Motic Images Advanced 3.2

Advanced Image Analysis Software

This software contains all the functions of the **Motic Images Plus 2.0 software,** plus much more.
It consists of three different modules; **segmentation, multi-focus and assembly.**

Segmentation

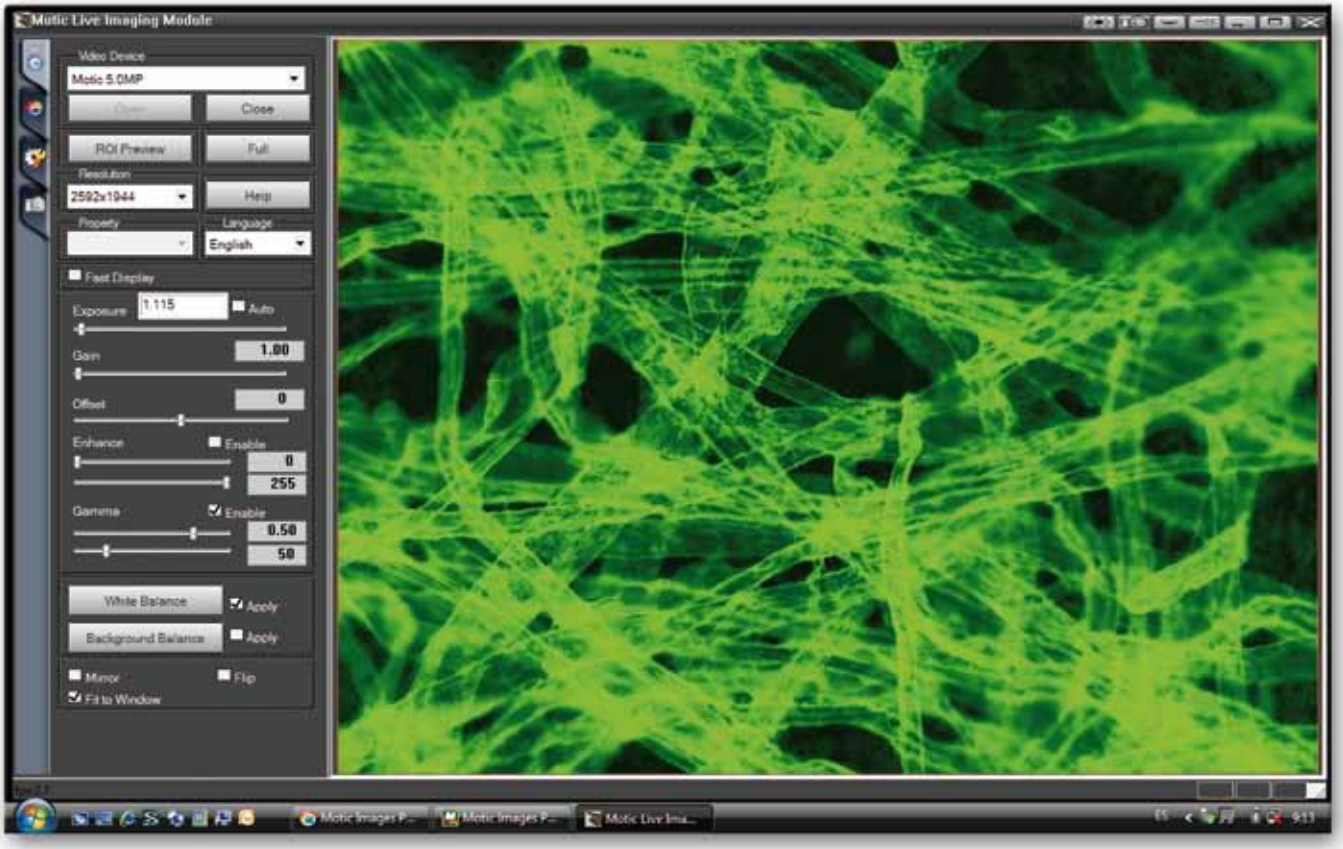
The superior counting module allows you to **perform manual segmentations by using a histogram (colour), grey scale or by selecting the size.** You can create in one sample different groups, which will be highlighted in different colours.
After the segmentation has been performed, you will have information about the area in square µm, perimeter, width, height and much more details.
The results of the segmentation can be exported in an excel file for further analysis.

Assembly

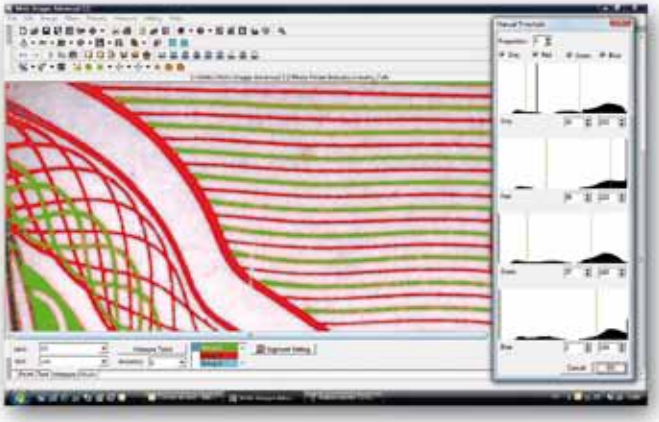
This module can be used for **creating a single overview image out of multiple separate images.** The software recognizes any overlapping and corrects this automatically. This software is specially designed for users who wish to have an overview of the complete sample, while working at a higher magnification.

Multi Focus

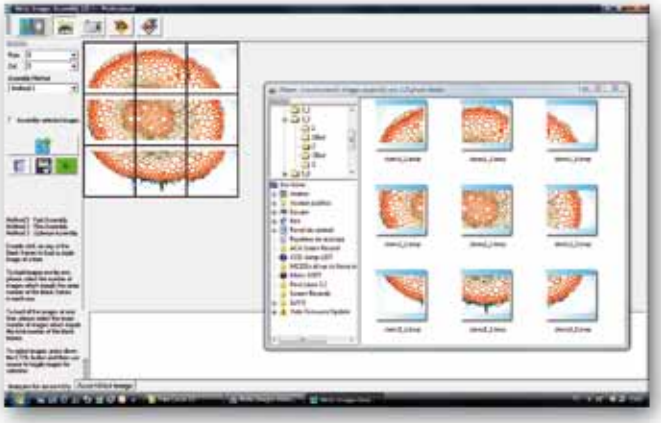
The multi-focus module can be used to **capture up to 100 images taken at different focusing levels.** The software will automatically recognize the parts that are in focus in each image and assemble them into a new file. **The result is a single image that is in focus.**



Motic Images Advanced 3.2 - *Live Imaging Module*



Motic Images Advanced 3.2 - *Counting Module*



Motic Images Advanced 3.2 - *Assembly*

Motic Trace

Match or no match?

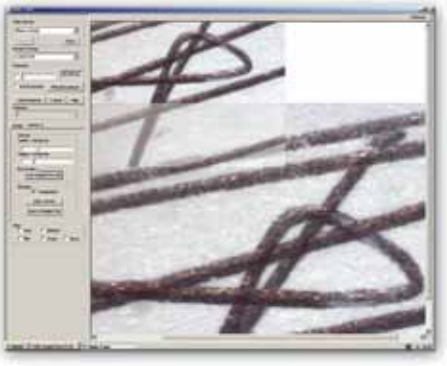
Motic Trace is the software that everyone has been waiting for. There is no need to buy an expensive **comparison microscope** anymore!

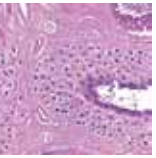
Simply connect two or more Moticams or Motic digital microscopes to your computer and get an immediate live comparison through the Motic Trace software.

Not only will you be able to **compare images side by side,** but you will also be able to **overlay, resize and rotate** them independently. Match two fingerprints, authenticate handwriting or determine whether two pieces of fabric belong to the same manufacturer, with the ease of just a few mouse clicks.

Motic Trace works together with Motic Images Plus 2.0 and therefore provides a comprehensive platform for further evaluation of the compared images. **Create your reports with accurate measurements and editing tools.**

All you need is two **Moticam** or two **Motic digital microscopes,** and you can teach forensics.





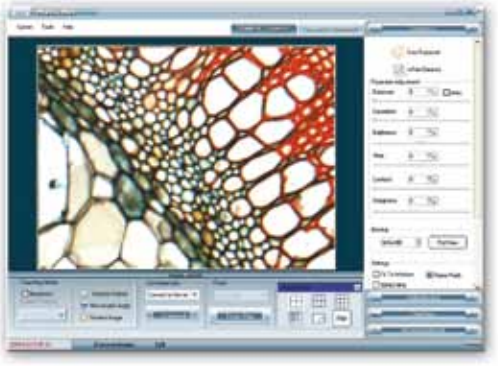
MoticNet

Get your microscopes connected

The network software **MoticNet** is compatible with all **Motic Digital Microscopes. MoticNet offers the teacher a live overview for each student Digital microscope system**. This overview can be extended up to a maximum of 48 individual digital microscope systems, in order to manage even larger classes by a single teacher.

With the **MoticNet** the teacher can have a **complete overview of each students station**, and also control and manipulate the quality of their microscope. This can all be done from the teacher's computer. No need to walk around anymore, having to pass by each individual student to check their progress. Through a simple mouse click the teacher can broadcast the demonstration. Additionally, **the work at one student's station can also be shared with the entire classroom**. Besides broadcasting a screen with the connected stations, it is also possible to send messages from the teacher's computer to the student in question and vice versa.

MoticNet can even be useful outside teaching digital microscopy. Having each computer station connected and linked to the central control station of the teacher, **MoticNet** also allows third party programs such as Mathematics and Language software, to be launched and used. Allowing full remote keyboard and mouse control, any Windows based program can be initiated, **controlled and manipulated by the teacher.**



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We hope that we have given you a good impression of all available digital microscopes and the software that we have to offer. This catalogue contains limited technical specifications on the cameras; therefore we suggest consulting our general catalogue Moticam Cameras for further details.

As a part of Motic´s philosophy, we would like to keep in touch with you, whether you are going to purchase or have already purchased your digital microscope. We are very interested in your opinion, your comments and your suggestions on how we can improve our products. Together we can make it happen!

Your Motic Team

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