

# Motic® Microscopes

DM52

## Digital Biological Upright Microscope



## product datasheet

### Digital biological portable microscope with built-in camera & comprehensive software

The perfect microscope for education and hobbies - fully portable, battery or mains powered

- Monocular head 45° inclined
- Widefield eyepiece WF10X/18mm with built-in pointer
- Achromatic objectives 4X, 10X and 40X S (max mag 400X)
- Coarse focusing adjustment
- Floating/Rotating stage with stage clips
- Rotary disc diaphragm
- **LED rechargeable illumination** 20mA, 3.5V, 70mV with intensity control
- Main supply 220V-240V charger included (CE)
- USB 1.0 PC connection to 640x480 colour camera
- **Motic Play 1.2 Multi Language version and Motic Educator Multi Language version**
- Both have Macintosh OS 9x, 10x support

### Motic Play 1.2 software

Motic Play is imaging software designed for children using a Motic Digital Microscope. It uses pictures and sounds to help children capture and edit still images and videos. This fun-to-use program will let children capture and measure microscopic images, capture videos and enjoy many other powerful features. They can add text and icons or apply effects such as "mosaic" or "emboss" to the images. Children can rotate the pictures, paint them, turn them to greyscale and much more! The images they create can be shared by e-mail or exported for printing. Their imaginations will be the only limitation to what they create. Motic Play provides an image processing centre. Children can use it to import other images and edit them. The software includes a step-by-step picture help section that covers all of the functions. Motic Play makes the science of microscopy fun.



### Capture Digital Images and Video

- Instantly capture still images at 640 x 480 effective pixels.
- Instantly capture live video.
- Show full screen real-time live images on your computer.
- Automatic white balance.

### Precise Calibration

- Calibrate the microscope with the software to make accurate measurements.
- Calibration slide included - allows easy calibration of the microscope.
- The software captures the image and walks you through the calibration process.



### Taking Measurements

- Once the microscope is calibrated with the software, taking precise measurements is simple!
- Measurements can be made using a line, rectangle, circle, ellipse, rhombus or triangle.
- The objective lens magnification shown on the bottom of the screen ensures you are making a proper measurement.
- The actual exact measurement shows up at the bottom of the screen in the black box.



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## Digital Biological Upright Microscope - Software



### **Motic Play 1.2 continued**

#### **Play Video Files**

- Motic Play allows the user to capture and play live video.
- When the microscope is connected to the computer via the USB port, Motic Play can capture moving video directly from the microscope.
- The kid-friendly icons make creating their own science video fun!



#### **Editing Images**

- Motic Play allows children to edit their images once they capture them from the microscope.
- Images can be changed to greyscale, made into a "mosaic" or "embossed" or even painted.
- Images can be rotated and altered in many ways.
- Once images are edited they can then be saved and emailed to friends or printed out to take to school.



#### **Image Album**

- Storing all the fun images is simple with the Image Album.
- Motic Play software allows you to import and export images within the album.
- Kid-friendly icons make navigating the album fun!