

Motic® Microscopes

DigiScope 150 & 300 Portable Digital Microscopes

product datasheet



Digital portable microscopes with built-in camera & comprehensive software

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

- Digital-Microscope developed for high-tech savvy young scientists
- Introduces children to the world of microscopy by allowing them a glimpse through this latest Motic technology
- The DigiScope can be used with the camera attached or separate
- Includes intuitive software allowing the young user to save, send, modify and share images
- Captured images can be analysed and measured
- Powerful LED light operates up to 50 hours on 3 AA alkaline batteries (not included) and has a life span of up to 100,000 hours

Specifications

Size	128 x 112 x 188 mm [DS-150] 128 x 112 x 176 mm [DS-300]
Eye Point	11.3mm [DS-150]; 6.5mm [DS-300]
Field of View	Largest diameter: 6.0mm [DS-150] 4.5mm [DS-300]
Magnification	10X - 50X, freely selectable [DS-150] 20X - 100X, freely selectable [DS-300]
Illumination	LED [for upper and lower light]
Power supply	3 x AA [1.5V] batteries [not included]
Working distance	22mm - 42mm
Focusing range	30mm
Magnification on 14" screen	freely selectable: 42X - 210X [DS-150] and 70X - 350X [DS-300]
Image device	1/3" Interline CMOS
Still image resolution	[H] 640 x [V] 480
Total resolution	330K pixels
Frame rate	10-30 frames / second
Audio output	Transmission across Motic Play direct into memory of the P C
Video output	Transmission across Motic Play direct into memory of the P C
White balance	Auto white balance
B.L.C	Auto
Minimum illumination	10 Lux
Data transfer	7.5MB / second
Color image	Take-up time below one second
Color depth	24 bit [16.7 million colours]
Power voltage	Self powered from computer US
Operating system	Windows® 98/2000/ME/XP; Mac OS 9.x
Data format	bmp, jpg; for still image storing avi and mov for recording
Immediate printout	on printer
Image data	Automatic reference number, date and time.
Interactive adjustment	Color, brightness and contrast.
Import of stored data	Possible
Print preview	Yes
Environment conditions:	Operating temperature - 10° C to +50° C Storage temperature -20° C to +60° C

DigiScope DS150 (not available in UK)

- Magnification range 10-50X

DigiScope DS300

- Magnification range 20-100X



DigiScope with camera removed



DigiScope with magnification changer (with camera removed)

Motic[®] Microscopes

DigiScope 150 & 300 Portable Digital Microscopes Software

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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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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!