



MOTIC MICROSCOPE MODEL DM-52

ELEMENTARY STUDENT MICROSCOPE WITH BUILT IN DIGITAL CAMERA

See illustration on page 3.

Designed to facilitate teaching at the elementary level using the standard microscope format most commonly used in U.S. schools, now with built-in digital camera for exciting new teaching opportunities. 45° inclined viewing head is very convenient for younger students. This model utilizes cordless LED illumination with rechargeable batteries, and recharger. Rugged metal frame, precision optical glass lenses. Student proofing features minimize loss of parts and other student abuse. Recommended for instruction through grade 8.

The Microscope

OPTICAL SYSTEM

- Widefield 10x eyepiece with revolving pointer, 45° inclined for viewing ease when seated.
- Head rotates 360°.
- Achromatic, color-coded 4x, 10x 40xR objectives mounted on precision revolving objective turret, 40x, 100x and 400x magnification.

ILLUMINATION

- LED light rated up to 100,000 hours life, illumination equal to a 20-watt tungsten bulb, totally heat free.
- Set of 3 AA rechargeable nickel metal hydride batteries allows up to 1000 recharges, for a total of 40,000 to 50,000 hours of use. Included battery charger automatically stops charging when batteries are fully charged....protects batteries from overcharging, also permits conventional light operation by plugging into regular wall outlet. No need for expensive recharger stations, plugs into inexpensive multiple outlet power strips available from any grocery or hardware store.
- Single 8-hour charge provides 40 to 50 hours of use.
- Recharger also permits light operation by plugging into standard wall outlet

FOCUSING

- Oversized focusing knobs provide mid-range focusing between normal coarse and fine focus range.
- Slip clutch prevents damage to focus mechanism.
- Rack stop protects objectives and specimen slides.

STAGE

- Rotating / Gliding Stage
- Locked-on, spring activated stage clips.

FRAME

- Rugged cast metal frame, gray enamel finish.
- Height 278 mm (11 in.). Net wt. 1.7 kgs (3.7 lbs)

PACKING

- Molded styrofoam container with instruction brochure and vinyl dustcover.
- Individual: Ship wt. 2.7 kgs (6 lbs), Dimensions 450x300x275mm (18x12x11 in.)
- Master carton pack 5 each: Ship wt. 13.6 kgs (30 lbs), Dimensions 775x275x400mm (31x11x16 in.)

WARRANTY

- 5-year limited warranty, excluding bulb & cords.

NATIONAL MODEL DM-52

Compound Biological Microscope with Built-In Digital Camera **Page 2 of 3**

PARTS & ACCESSORIES

800-101 Replacement bulb, 115v 15 watt, D.C. medium bayonet base

THE CAMERA

This model permits hook-up to computer with supplied USB cable. Easy-to-use software for capturing microscope images, labeling, measuring, storing, and e-mailing. Requires a PC with Windows 98 or above & Mac OS X.

Comes with two versions of Motic Software for use with PC or Mac computers.

1. Motic Play: Child & Elementary Version

2. Motic Educator: Student Version

	USB (digital signal)
Image device	CMOS
Effective pixels	640 x 480
Framed resolution	640 x 480 pixels
Electronic shutter	8-15 frames/sec
White balance	Auto white balance
B.L.C.	Back light compensation (auto)
Minimum illumination	5 Lux (F:1.4)
Data transfer	7.5 MB/second
Color Image	Take-up time below one second
Power supply	5v self powered from computer USB
Data format	BMP, JPG, MIG (for recording)

System Requirements

Operating System	Windows 98 or above & Mac OS X.
Computer Requirements	Intel Pentium 2, CPU 200 Mhz or above, RAM 128 MB or above, Hard disk 64 MB or above, CD-ROM drive, USB plug, sound card, speaker and microphone for video and audio recording, a modem for e-mail, video conference and video mail.
Menu on monitor	Pull-down menus for opening, storing, printing, regulator for brightness, color, gamma correction. Icons for recording, switching between large and small image, automatic and manual white balance.
Image data	Automatic reference number, date, time
Interactive adjustment	Color, brightness, contrast
Import of stored data	Possible

Environmental conditions

Operating temperature	-50°F to +150°F
Storage temperature	-50°F to +175°F
Relative humidity	40% to 95%

CAMERA WARRANTY:

- 1-year limited warranty

SOFTWARE WARRANTY:

- 90-day limited warranty.



NATIONAL MODEL DM-52

Distributed by:

the
microscope  *depot*

Sales: 888-777-8835 • Email: sales@m-depot.com

Main: 209-839-2990 • Fax: 209-839-2999

<http://www.microscope-depot.com>

Subject to changes in material and design, equal to or exceeding those described above.