



NATIONAL MODEL DC2-155 COMPOUND BIOLOGICAL MICROSCOPE WITH BUILT-IN DIGITAL CAMERA

See illustration on page 4.

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>

THE MICROSCOPE

A new standard of precision optics, highly engineered mechanics and very rugged construction, the DC2-155 is fully functional as a microscope, independent of the camera function. Incorporating the top-rated features of our popular Model 155, now with built-in digital camera for exciting new teaching opportunities.

OPTICAL SYSTEM

- Widefield 10x eyepiece with pointer. Accepts optional #965-160 eyepiece reticle.
- 45° inclined monocular viewing head.
- DIN standard 4x (0.10 N.A.), 10x (0.25 N.A.) and 40xR (0.65 N.A.) objectives are supplied for 40x, 100x and 400x magnification. All are achromatic, parfocalled, parcentered and color-coded.
- 3-hole objective turret, reverse position, ball-bearing mounted for smooth, precise changes in magnification.

ILLUMINATION

- Built-in 12v 20 watt halogen with rheostat intensity control.
- Base mounted on/off switch, heavy-duty 3-wire grounded electrical system and plug.

FOCUSING

- Separate low position coarse and fine focusing controls.
- Stage moves up or down, eyepiece and body remain fixed.
- Slip clutch prevents damage to focusing system.
- Tension adjustment eliminates stage drift.
- Safety rack stop prevents damage to slides and objective lenses.

STAGE

- Large 120mm x 125mm (4-3/4 in. x 5 in.) stage, with locked-on spring mounted stage clips, drilled and tapped to accept optional mechanical stage
- Built-in 0.65NA condenser lens.
- Calibrated 5-hole disc diaphragm.

FRAME

- Rugged cast metal, gray enamel finish.
- Height 360mm (14 in.). Net wt. 4.2 kgs (9.3 lbs).

PACKING

- Molded styrofoam container with instruction brochure and vinyl dustcover.
- Individual: Ship wt. 6.8 kgs (15 lbs), Dimensions 550x375x375mm (22x15x15 in.)
- Master carton pack 2 each: Ship wt. 14.1 kgs (31 lbs), Dimensions 550x400x500mm (22x16x20 in.)

WARRANTY

- Limited lifetime warranty, excluding bulb and cords.

Continued on page 2

MICROSCOPE PARTS & ACCESSORIES

610-160	WF10X Eyepiece
610-160R	WF10X eyepiece w/reticle, 10mm/100div.
800-160	Replacement bulb, 12v 20 watt halogen bi-pin
911	Graduated mechanical stage, side mount adjustments
965-160	Eyepiece reticle, 10mm/100 div
975-002	Carrying case, anodized aluminum, fabric lining, accessory pockets, Velcro straps, & keyed lock

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.

SPECIFICATIONS – NATIONAL DIGITAL MICROSCOPE #DC2-155
 (USB port, digital signal for use with computer only)

	USB (digital signal)
Image device	1/4 in. interline CCD
Effective pixels	659 x 494
Framed resolution	640 x 480 pixels
Electronic shutter	8-15 frames/sec
Sync System	N/A
Audio output	Transmission across Image 2000 direct into memory of PC
S/N Ratio	N/A
Gamma Characteristic	N/A
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
Color depth	24 bit (16.7 million colors)
Electronic shutter	--
Power supply	5v self powered from computer USB
Consumption	250mA
Data format	BMP, JPG, MIG (for recording)

Continued on page 3

System Requirements

Operating System	Windows 98 or above. (Access website www.motic.com for free download of Apple driver for Mac operation).
Computer Requirements	Intel Pentium, CPU 200 Mhz or above, RAM 128 MB or above, Hard disk 200 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. NOTE: If you are using Windows XP, your computer must have a minimum of 256 MB of RAM for Motic Images 1.3 to operate properly.
Immediate Printout	On printer
Position and size of image on monitor	Freely definable
Menu on monitor	Pull-down menus for opening, storing, printing, print preview, regulator for brightness, color, gamma correction. Icons for recording, image interpolation, switching between large and small image, image quality, 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.

Distributed by:



Sales: 888-777-8835 • Email: sales@m-depot.com
 Main: 209-839-2990 • Fax: 888-872-4300 or 209-839-2999
<http://www.microscope-depot.com>



NATIONAL MODEL #DC2-155



MODEL #DC2-155 shown in use (computer not included)

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