



NATIONAL MODEL 157 ADVANCED BINOCULAR COMPOUND MICROSCOPE

See illustration on page 2.

A new standard of precision optics, highly engineered mechanics and very rugged construction, all at little more cost than a budget microscope. Objective turret (nosepiece) is in reverse position to permit easier changing and positioning of specimen slides. Preferred by teachers, the 5-watt fluorescent illumination system provides optimum image brightness, virtually no bulb heat and has a 10,000-hour rated bulb life.

OPTICAL SYSTEM

- Widefield 10x eyepieces with pointer. Accepts optional #965-160 eyepiece reticle.
- 45° inclined binocular viewing head rotates 360° for easy sharing by more than one student.
- DIN standard 4x (0.10 N.A.), 10x (0.25 N.A.), 40xR (0.65 N.A.) and 100xR (1.25 N.A.) objectives are supplied for 40x, 100x, 400x and 1000x magnification. All are achromatic, parfocalled, parcentered and color-coded.
- 4-hole objective turret, reverse position, ball-bearing mounted for smooth, precise changes in magnification.

ILLUMINATION

- Built-in 5-watt fluorescent illumination, delivers greater light and longer life than standard 20-watt tungsten bulb. Virtually no base heat. 10,000 hour rated bulb.
- Base mounted on/off switch, heavy-duty 3-wire grounded electrical system and plug.
- 0.5A time delay fuse.

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 135mm x 135mm (5-1/4 in. x 5-1/4 in.) stage, with professional quality, low profile mechanical specimen holder with low-position coaxial x-y controls.
- 1.25 N.A. Abbe condenser with spiral focusing mount, iris diaphragm, swing-out filter holder, blue filter supplied.

FRAME

- Rugged cast metal, gray enamel finish.
- Height 380mm (15 in.). Net wt. 4.6 kgs (11 lbs).

PACKING

- Molded styrofoam container with instruction brochure and vinyl dustcover.
- Individual: Ship wt. 7.5 kgs (17 lbs), Dimensions 550x375x375mm (22x15x15 in.)
- Master carton pack 2 each: Ship wt. 13.6 kgs (30 lbs), Dimensions 475x375x525mm (19x15x21 in.)

WARRANTY

- Limited lifetime warranty, excluding bulb, cord, and fuse.

PARTS & ACCESSORIES

800-138	Replacement bulb, 5-watt fluorescent, can be used in 110v and 220v versions
801-160	Replacement fuse, 0.5A time delay
911	Graduated mechanical stage, side mount adjustments
965-160	Eyepiece reticle, 10mm/100 div.



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