



NATIONAL

National Optical & Scientific Instruments, Inc.
A Member of the Motic Group

MODEL 155 Monocular Compound Microscope

With highly engineered mechanics and rugged construction, Model 155 is setting a new standard in precision optics and microscope performance. This advanced high school microscope, with its full size frame and 5 watt fluorescent illumination, provides optimum image brightness and virtually no bulb heat. Crisp, clear optics and a limited lifetime warranty are just a couple of reasons why this microscope is preferred by teachers.

OPTICAL SYSTEM

- Widefield 10x eyepiece with pointer. Accepts optional #965-160 eyepiece reticle.
- 45° inclined monocular viewing head rotates 360° for easy sharing by more than one student.
- 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.

FOCUSING

- Stage moves up or down, eyepiece and body remain fixed.
- Slip clutch prevents damage from over focusing.
- Tension adjustment eliminates stage drift.
- Safety rack stop prevents damage to slides and objective lenses.

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.

WARRANTY

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



(Model 155-MS with mechanical stage)

National Model 155

Specifications	
Eyepiece	18mm, with pointer
Viewing Bodies	45° inclined monocular viewing head, rotates 360°
Nosepiece	3-hole, click stop, reverse angle, ball-bearing mounted
Objectives	DIN, achromat, 4x (0.10 N.A.), 10x (0.25 N.A.) and 40xR (0.65 N.A.)
Stage	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 (included on 155-MS).
Condenser	Built-in 0.65NA condenser lens, calibrated 5-hole disc diaphragm
Focusing	Separate coarse and fine controls with tensions adjustment and slip clutch
Illumination	5W fluorescent
Electrical	Input 110 Volts
Weight	9 lbs (4 kgs)

PACKING:

- Individual: Ship wt. 14 lbs (6.4 kgs), Dimensions 22x15x15 in. (550x375x375mm)
- Master carton pack 2 each: Ship wt. 30 lbs (13.6 kgs), Dimensions 19x15x21 in. (475x375x525mm)

Parts and 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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Products subject to changes in material and design, equal to or exceeding those described above.

ISO 9001:2000 Certified
ISO 14001:2001 Certified