



## **NATIONAL MODEL 158-LED ADVANCED BINOCULAR COMPOUND MICROSCOPE WITH CORDLESS LED ILLUMINATION**

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*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. College grade objective lenses. Cordless LED illumination system provides optimum image brightness, completely heat free. 50,000-hour rated LED life. Excellent field microscope

### **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 achromatic, parfocalled, parcentered and color-coded.
- Quad objective turret, reverse position, ball-bearing mounted for smooth, precise magnification changes.

### **ILLUMINATION**

- LED light rated up to 50,000 hours life, illumination equal to a 20 watt tungsten bulb, totally heat free.
- Rechargeable AA nickel metal hydride batteries can be recharged up to 1000 times, each 8 hour charge providing up to 50 hours operation, total of 40-50,000 hours use from each set of 3.
- Included recharger shuts off when batteries are fully charged, indicator light turns from red to green. Eliminates danger of overcharging and shortening battery life, and the need of expensive recharger stations. Microscope can be used during recharging, or recharger can remain plugged in for conventional use.
- Rheostat light intensity control.

### **FOCUSING**

- Coaxial low position coarse and fine focusing controls.
- Stage moves up or down, eyepiece and body remain fixed.
- 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, low-position coaxial x-y controls.
- 1.25 N.A. Abbe condenser with rack and Pinion focusing mount, iris diaphragm, swing-out filter holder, with built in neutral filter.

### **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 LED, batteries and recharger.

### **PARTS & ACCESSORIES**

800-001	LED replacement element
802-003	Replacement recharger
965-160	Eyepiece reticle, 10mm/100 div.



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