



# NATIONAL

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

## MODEL 215 Advanced Binocular Compound Microscope

Advanced Biological Binocular microscope with precision optics. For use by students or professionals. Model 215 has a Seidentopf head for comfortable viewing, coaxial focusing, low drive mechanical stage and LED illumination with conveniently located intensity control. LED light rated up to 50,000 hours.

### OPTICAL SYSTEM

- Widefield 10x eyepiece with pointer. Accepts optional #965-160 eyepiece reticle.
- 30° 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.



### FOCUSING

- Coaxial coarse and fine focusing controls.
- Slip clutch prevents damage to focusing system.
- Tension adjustment eliminates stage drift.
- Safety rack stop prevents damage to slides and objective lenses.

### ILLUMINATION

- Cool running LED light with intensity control rated up to 50,000 hours of life.
- Rechargeable batteries can be recharged up to 1000 times
- 8 hour charge provides up to 50 hours of use
- Recharge adapter shuts off when batteries are fully charged to prevent overcharging and permits conventional light operation by plugging into an electrical outlet.

### WARRANTY

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

# National Model 215

Specifications	
Eyepieces	10x, 18mm, with pointer
Head	30° inclined binocular viewing head, rotates 360°
Nosepiece	4-hole, click stop, reverse angle, ball-bearing mounted
Objectives	DIN, achromat, 4x, 10x, 40xR and sealed 100xR
Stage	120mm x 120mm (4-3/4 in. x 4-3/4 in.) stage, mechanical stage with low-position coaxial x-y controls.
Condenser	1.25 N.A. Abbe condenser with spiral focusing mount, iris diaphragm
Focusing	Coaxial coarse and fine controls with tension adjustment and slip clutch
Illumination	LED
Electrical	3 rechargeable AA nickel metal hydrate (can be recharged up to 1000 times)

#### PACKING:

- Individual: Ship wt. 16 lbs (7.7 kgs), Dimensions 22x16x10 in. (558x406x254mm)
- Master carton pack 2 each: Ship wt. 28 lbs (12.7 kgs), Dimensions 19x19x15 in. (482x482x381mm)

Parts and Accessories	
800-001	Replacement LED bulb
801-160	Replacement fuse, 0.5A time delay
965-160	Eyepiece reticle, 10mm/100 div.



#### National Optical & Scientific Instruments, Inc.

11113 Landmark 35 Drive  
San Antonio, TX 78233 USA  
Tel: (800) 275-3716  
Fax: (210) 590-1104  
E-mail: [Info@nationaloptical.com](mailto:Info@nationaloptical.com)

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**ISO 9001:2000 Certified**  
**ISO 14001:2001 Certified**