National Optical & Scientific Instruments, Inc.

A Member of the Motic Group

MODEL 131,131-CLED

Inclined Monocular Microscope with LED Illumination

The microscope model that sets the standard for high school instruction, now with cool, long life LED illumination. Includes all the most commonly specified features. Rugged metal construction, locked-on parts. Superior DIN optical system and precision mechanical components assure parfocalled and parcentered optical alignment for sharp, unsurpassed viewing. Recommended for instruction through grade 12.

OPTICAL SYSTEM

- Widefield 10x eyepiece with revolving 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, ball-bearing mounted for smooth, precise changes in magnification.

FOCUSING

- Low position coarse and fine focusing controls.
- Slip clutch prevents damage from over focusing.
- Tension adjustment eliminates stage drift.
- Safety rack stop prevents damage to slides and objective lenses.

ILLUMINATION

- Cool running LED light rated up to 50,000 hours of use.
- Base mounted on/off switch, heavy-duty 3-wire cord.
- Convenient "grabber" clip on plug lets you wrap the cord around microscope and secure in place by pushing cord into clip for easy storage. No bulky cord hanger needed.

WARRANTY

 Limited lifetime warranty, excluding LED, fuse, cord and mechanical stage.

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Specifications	
Eyepiece	10x, 18mm with pointer
Head	45° inclined monocular viewing head, rotates 360°
Nosepiece	3-hole, click stop, ball-bearing mounted
Objectives	DIN, achromat, 4x (0.10 N.A.), 10x (0.25 N.A.) and 40xR (0.65 N.A.)
Stage	110mm x 120mm (4-3/8 in. x 4-3/4 in.) stage, with locked-on spring mounted stage clips, drilled and tapped to accept optional mechanical stage.
Condenser	Built-in 0.65 N.A. condenser lens, calibrated 5-hole disc diaphragm
Focusing	Separate coarse and fine controls with tension adjustment and slip clutch
Illumination	LED
Electrical	Input 110 Volts
Height/ Weight	14 1/8 in. (360mm)/ 6.8 lbs (3.1 kgs)

PACKING:

- Individual: Ship wt. 10 lbs (4.5 kgs), Dimensions 22x13x13 in. (550x325x325mm)
- Master carton pack 5 each: Ship wt. 43 lbs (19.5 kgs), Dimensions 35x12x18 in. (875x300x450mm)

Parts and Accessories	
Replacement LED bulb	
910	Graduated mechanical stage
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

Authorized Distributor		

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

ISO 9001:2000 Certified ISO 14001:2001 Certified