



NATIONAL MODEL 161/161-ASC/161-P DUAL HEAD COMPOUND OIL IMMERSION MICROSCOPE

See illustration on page 2.

Superior in design and in performance, the 160 series incorporates a wide range of features designed for university and laboratory use. Superb optical clarity and reliable mechanical engineering assure years of top performance. Choose from four grades of objective lenses: Standard achromatic lenses deliver excellent clarity and normal flatness of field; ASC high contrast deliver extra image contrast; Semi-plan for extra flatness of field; Plan achromatic for superior clarity and flatness of field.

OPTICAL SYSTEM

- Widefield 10x /18mm eyepiece, pointer standard in one eyepiece. Accepts optional #965-160 eyepiece reticle.
- Dual viewing head with 30° inclined eyepiece, and vertical eyepiece with diopter, rotates 360° for easy sharing by more than one student. Permits dual viewing, or mounting of optional video adaptor on vertical tube.
- DIN standard 4x (0.10 N.A.), 10x (0.25 N.A.), 40xR (0.65 N.A.) and 100xR oil immersion (1.25 N.A.) objectives. Choose from achromatic, super high contrast, or plan. All are parfocussed, parcentered and color-coded.
- Quad objective turret is ball-bearing mounted for smooth, precise positioning of objectives, features textured rubber knurling for easy grip. Mounted in reverse position to facilitate ease in changing slides.

ILLUMINATION

- 12v 20 watt halogen with variable rheostat control.
- Illuminated on/off switch, 3-wire grounded cord and plug.
- 0.5A time delay fuse.

FOCUSING

- Coaxial coarse and fine focusing controls, coarse has tension adjustment, fine is graduated.

STAGE

- Large 140mm x 135mm (5-1.2 in. x 5-1/4 in.) stage; built-in, low profile, ball-bearing mounted mechanical specimen holder with low-position coaxial controls, 70mm (x) by 50mm (y) movement with graduations of 0.1mm.
- 1.25 N.A. Abbe condenser has rack & pinion focusing, iris diaphragm, swing-out filter holder with clear blue, green and yellow filters supplied.

FRAME

- Rugged cast aluminum, gray enamel finish.
- Base dimensions: 185mm x 235mm (7-1/4 in. x 9-1/4 in.)
- Height : Inclined eyepiece, 380mm (15 in.). Net wt. 6.5 kgs (14.2 lbs).
Vertical eyepiece, 455mm (18 in.).

PACKING

- Head and frame in separate molded styrofoam container with instruction brochure and vinyl dustcover.
- Individual: Ship wt. 7.8 kgs (18 lbs), Dimensions 550x325x325mm (22x13x13 in.)
- Master carton pack 1 each: Ship wt. 7.8 kgs (18 lbs), Dimensions 550x325x325mm (22x13x13 in.)

WARRANTY

- Lifetime limited warranty, excluding bulb, cord, and fuse.

PARTS & ACCESSORIES

800-160	Replacement bulb, 12v 20 watt halogen bi-pin
801-160	Replacement fuse, 0.5A time delay
930-161V	Video C-mount adaptor with 0.5x lens (fits Model 161 only)
965-160	Eyepiece reticle, 10mm/100 div.



Model 161 w/optional #930-161V
Video C-mount adaptor (camera
not included).

NATIONAL MODEL 161

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the **microscope** *depot*
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