



NATIONAL MODEL 460TBL-10 STEREO ZOOM MICROSCOPE

See illustration on page 3.

An exceptional stereo zoom microscope at an exceptionally low price. Permits students to view the wide picture at 10x magnification, the zoom all the way to 30x for an exciting close-up view. By simply turning the objective turret, magnification can be changed from 10x to 30x, and every point in between. Achromatic optical system provides sharp, parfocalled image throughout the zoom range, without having to refocus.

OPTICAL SYSTEM

- Paired widefield 10x eyepieces are 45° inclined, with left diopter adjustment, interpupillary adjustment from 55mm to 75mm. Accepts 23mm eyepiece reticle.
- Viewing head rotates 360°.
- Achromatic, color corrected lenses.
- Continuous magnification from 10x thru 30x.

ILLUMINATION

- Top light is 12v 10 watt halogen with reflector with directional lever which puts the light where you need it.
- Bottom light is 110v 5 watt fluorescent for cool operation, greater light efficiency.
- Base mounted light controls permit choice of top only, bottom only, or dual illumination.
- Heavy-duty 3-wire grounded cord and plug.

FOCUSING

- Large dual focusing knobs with slip clutch to prevent damage to mechanism.
- Heavy-duty rack and pinion focusing.
- Tension adjustment eliminates focus "drift".

STAGE

- One 80mm black plastic contrast plate.
- One 80mm translucent white stage plate.
- Locked-on stage clips

FRAME

- Professional, all-metal frame, gray enamel finish.
- Heavy-duty fixed arm with ergonomic design.
- Height: 317mm (12-1/2 in.).
- Base width: 215mm (8-1/2 in.), Base depth: 220mm (8-3/4 in.)
- Net wt. 4 kgs (9 lbs)

PACKING

- Molded styrofoam container with rubber eyeshields, vinyl dustcover and instruction manual.
- Individual: Ship wt. 5.9 kgs (13 lbs), Dimensions 400x425x275mm (16x17x11 in.)
- Master carton pack 2 each: Ship wt. 10.9 kgs (24 lbs), Dimensions 550x350x375mm (22x14x15 in.)

WARRANTY

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

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MODEL 460 OPTICAL SPECIFICATIONS

Zoom Objective Position	Eyepiece				Working Distance	Maximum Specimen Height
	WF10X Field No. 20 (supplied) (accepts reticle 23mm O.D.)		WF15X Field No. 13 (optional)			
	Total Magnification	Field Size	Total Magnification	Field Size		
1X	10X	20mm	15X	13mm	70mm	36mm
1.5X	15X	13.3mm	22.5X	8.7mm		
2X	20X	10mm	30X	6.5mm		
2.5X	25X	8mm	37.5X	5.2mm		
3X	30X	6.7mm	45X	4.3mm		

PARTS & ACCESSORIES

- 600-400 Eyepiece shields, rubber, pair
- 605-400 WF5x/23 eyepieces, paired (note: permit only 60mm-84mm I.P.D.)
- 610-400 WF10x/20 eyepieces, paired
- 610-400EA WF10x eyepiece, each (accepts 23mm reticle)
- 610-400R-05 WF10x eyepiece w/reticle, 5mm/100 div., each
- 610-400R-10 WF10x eyepiece w/reticle, 10mm/100 div., each
- 615-400 WF15x/13 eyepieces, paired
- 620-400 WF20x/10.4 eyepieces, paired
- 800-138 Replacement bulb (bottom), 110v 5 watt fluorescent
- 800-424 Replacement bulb (top), 12v 10 watt halogen w/reflector
- 801-050 Replacement fuse for 220v version, 0.5 amp
- 940-410 Frosted glass stage plate, 80mm
- 941-410 Black/white reversible plastic stage plate, 80mm
- 952 Vinyl dustcover, 18" tall x16"
- 965-400-05 Eyepiece reticle, 5mm/100 div., 23mm O.D.
- 965-400-10 Eyepiece reticle, 10mm/100 div., 23mm O.D.



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Sales: 888-777-8835 • Email: sales@m-depot.com

Main: 209-839-2990 • Fax: 888-872-4300

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