



## NATIONAL MODELS 456, 457, & 458 STEREO MICROSCOPE – INCLINED HEAD – DUAL MAGNIFICATION

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*See illustration on page 3.*

All the quality features and versatility of larger stereo models, in a compact size only 12" tall. Ideal size for elementary and middle school, rugged enough for high school. Upright, unreversed image is designed for viewing 3-dimensional objects, dissecting. Choose low magnification for a wide field of view, then high magnification for close-up detail.

### OPTICAL SYSTEM

- Paired widefield eyepieces with diopter adjustment on left side. Interpupillary adjustment from 55mm to 75mm. Reticle holder/retainer accepts eyepiece reticle with 23mm O.D..
- Paired objectives are parfocalled, parcentered, achromatic.
- Magnification changed by rotating objective turret 90 degrees.
- Working distance: 75mm. Maximum specimen height: 35mm.
- Head rotates 360 degrees to permit reverse head position viewing.

### ILLUMINATION

- High intensity 12v 10 watt incidental and transmitted illumination is built-in.
- Separate base mounted switches control power on/off, top and bottom lights, permit use of top light only, bottom light only, top and bottom lights together.

### FOCUSING

- Rack and pinion focusing has slip clutch to protect mechanism against over-turning, and special tension adjustment.

### STAGE

- Supplied with two 80mm stage plates, one frosted glass plate and one plastic black/white reversible contrast plate.
- Two locked-on stage clips.

### FRAME

- Rugged cast metal frame, grey enamel finish.
- Height: 310mm (12-1/4 in.) extends to 345mm (13-5/8) for larger objects.
- Base width: 115mm (4-1/2 in.), Base depth: 197mm (7-3/4 in.)
- Net wt. 2.5 kgs (5.5 lbs)

### PACKING

- Molded styrofoam container with instruction brochure, vinyl dustcover and rubber eyeshields.
- Individual: Ship wt. 4.1 kgs (9 lbs), Dimensions 400x425x275mm (16x17x11 in.)
- Master carton pack 4 each: Ship wt. 14.5 kgs (32 lbs), Dimensions 600x350x400mm (24x14x16 in.)

### WARRANTY

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

NOTE: To order with 220v electrical system, add –220V to end of model number.

*Continued on page 2*

**Specification Chart**

Model Number	Objective	Eyepiece				Working Distance	Maximum Specimen Height
		WF10X (supplied)		WF15X (optional)			
		Total Magnification	Field Size	Total Magnification	Field Size		
456	1X	10X	20mm	15X	15mm	75mm	35mm
	3X	30X	6.6mm	45X	5mm		
457	2x	20X	10mm	30X	6.5mm	75mm	35mm
	4x	40X	5mm	60X	3.2mm		
458	1x	10X	20mm	15X	15mm	75mm	35mm
	2x	20x	10mm	30X	6.5mm		

**PARTS & ACCESSORIES:**

- 600-400 Eyepiece shields, rubber, pair
- 605-400 WF5x eyepieces, paired (note: permit only 60mm-84mm I.P.D.)
- 610-400 WF10x eyepieces, paired
- 615-400 WF15x eyepieces, paired
- 620-400 WF20x eyepieces, paired
- 800-400 Replacement bulb, 12v 10 watt, tubular
- 801-050 Replacement fuse for 220v version, 0.5 amp
- 801-100 Replacement fuse for 110v version, 1.0 amp
- 940-410 Frosted glass stage plate, 80mm
- 941-410 Black/white reversible plastic stage plate, 80mm
- 951 Vinyl dustcover, 16" tall x 13"
- 965-400-05 Eyepiece reticle, 5mm/100 div., 23mm O.D.
- 965-400-10 Eyepiece reticle, 10mm/100 div., 23mm O.D.
- 970-400 Stage clip for stereo microscope, 75mm from post, each

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NATIONAL MODEL 457TBL-10