



NATIONAL MODELS 409, 410 & 411 STEREO MICROSCOPE – INCLINED HEAD – DUAL MAGNIFICATION

See illustration on page 3.

Precise optical alignment assures a three-dimensional, upright, unreversed image that is unsurpassed for everything from dissecting work to examining circuit boards. This model is a real workhorse for education or industry.

OPTICAL SYSTEM

- Paired widefield eyepieces are 45° inclined, with diopter adjustment. Interpupillary adjustment from 55mm to 75mm. Accepts optional #965-400-05 or #965-400-10 eyepiece reticle.
- Viewing head rotates 360°, locks in place by tightening set screw.
- Paired objectives are parfocalled, parcentered, and achromatic.
- Magnification changed by rotating objective turret 90° to positive click stops.

ILLUMINATION

- High intensity, 12v 10-watt incidental (top) light and 110v 15 watt transmitted (bottom) light.
- 4-position switch: top only, bottom only, top/bottom, off.

FOCUSING

- Rack and pinion focusing with slip clutch and tension adjustment.

STAGE

- 80mm reversible black/white plastic contrast plate and 80mm frosted glass stage plate.
- Blue filter for transmitted light.
- Locked-on stage clips.

FRAME

- Rugged, cast metal frame, gray enamel finish.
- Height: 340mm (13-3/8 in.) extends to 370mm (14-9/16 in.) for larger objects.
- Base width: 153mm (6 in.), Base depth: 218mm (8-9/16in.)
- Net wt. 4.1 kgs (9 lbs)

PACKING

- Molded styrofoam container with instruction brochure, eyeshields and vinyl dustcover.
- Individual: Ship wt. 5.9 kgs (13 lbs), Dimensions 550x325x325mm (22x13x13 in.)
- Master carton pack 4 each: Ship wt. 20.9 kgs (46 lbs), Dimensions 800x425x325mm (32x17x13 in.)

WARRANTY

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

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Specification Chart

Model	Objective	Eyepiece								Working Distance	Maximum Specimen Height
		WF5X (optional)		WF10X (supplied)		WF15X (optional)		WF20X (optional)			
		Total Mag.	Field Size	Total Mag.	Field Size	Total Mag.	Field Size	Total Mag.	Field Size		
409	1X	5X	22mm	10X	20mm	15X	13mm	20X	10mm	94mm	31mm
	2X	10X	11mm	20X	10mm	30X	6.5mm	40X	5mm		
410	1X	5X	22mm	10X	20mm	15X	13mm	20X	10mm	94mm	31mm
	3X	15X	7.3mm	30X	6.7mm	45X	4.3mm	60X	3.3mm		
411	2X	10X	11mm	20X	10mm	30X	6.5mm	40X	5mm	94mm	31mm
	4X	20X	5.5mm	40X	5mm	60X	3.2mm	80X	2.5mm		

PARTS & ACCESSORIES:

- 498-409-10 Stereo body only, 1x-2x, w/WF10x eyepieces, no focusing block
- 498-410-10 Stereo body only, 1x-3x, w/WF10x eyepieces, no focusing block
- 498-411-10 Stereo body only, 2x-4x, w/WF10x eyepieces, no focusing block
- 499-000 Focusing block (fits 25mm mounting post)
- 499-410 Stand w/focusing block, fixed arm, dual illumination
110v: top #800-411 12v 10 watt tungsten, bottom #800-101 115v 15 watt tungsten
220v: top #800-411 12v 10 watt tungsten, bottom #800-411 12v 10 watt tungsten
- 499-1105 Universal boom stand, without focusing block, no illumination
- 499-1107 Platform stand, without focusing block, no illumination
- 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
- 800-101 Replacement bulb, 115v 15 watt, D.C. med. bayonet base
- 800-411 Replacement bulb, 12v 10 watt, D.C. med. bayonet base
- 801-050 Replacement fuse for 220v version, 0.5 amp
- 801-100 Replacement fuse for 110v version, 1.0 amp
- 923-409 Blue filter, frosted, 35.6mm O.D.
- 931-409 Ring light adapter ring, 54.5mm O.D.
- 940-410 Frosted glass stage plate, 80mm
- 941-410 Black/white reversible plastic stage plate, 80mm
- 942 Darkfield kit
- 943 Specimen holder (tweezer) (fits in place of stage clip on all stereo models)
- 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.
- 970-400 Stage clip for stereo microscope, 75mm from post, each



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