



NATIONAL MODELS 409, 410 & 411-1105 STEREO MICROSCOPE – INCLINED HEAD – DUAL MAGNIFICATION W/UNIVERSAL BOOM STAND

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. Universal stand features heavy construction and counterbalanced arm for maximum stability. With an adjustable mounting post, it provides extreme flexibility in positioning.

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

- No built-in illumination is included with this model.

FOCUSING

- Rack and pinion focusing with slip clutch to prevent damage to mechanism.
- Tension adjustment eliminates focus “drift”.

STAND

- Professional, all-metal stand.
- Heavy-duty post mount with locking support collar, permits up or down adjustment of viewing head to accommodate different sized objects.
- Total stand height: 386mm (15.4 in.). Net weight: 18.1 kgs (40 lbs).
- Base diameter: 200mm (8 in.). Base height: 55mm (2.2 in.)
- Vertical post length: 331mm (13.2 in.). (O.D. 25mm)

OTHER DIMENSIONS & SPECIFICATIONS

- Distance between main vertical post and center of field of view, when horizontal bar is adjusted to minimum or maximum extension: Minimum = 255mm, Maximum = 455mm
- Distance from bottom edge of objective lens and work surface when horizontal bar is adjusted to minimum or maximum height:
 - With pivot arm up: Minimum = 170mm (6.8 in.), Maximum = 515mm (20.6 in.)
 - With pivot arm down: Minimum = 58mm (2.3 in.), Maximum = 260mm (10.4 in.)

PACKING

- Head, focusing block and universal stand are in separate molded styrofoam containers with vinyl dustcover, eyeshields and instruction manual.
- Master carton pack 1 each:
 - Head & focusing block: Ship wt. 4.1 kgs (9 lbs), Dimensions 400x425x275mm (16x17x11 in.)
 - Universal boom stand: Ship wt. 19.1 kgs (42 lbs), Dimensions 500x325x300mm(20x13x12 in.)

WARRANTY

- Limited lifetime warranty.

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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	417mm
	2X	10X	11mm	20X	10mm	30X	6.5mm	40X	5mm		
410	1X	5X	22mm	10X	20mm	15X	13mm	20X	10mm	94mm	417mm
	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	417mm
	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
- 931-409 Ring light adapter ring, 54.5mm O.D.
- 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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