



NATIONAL MODELS 430 & 431 STEREO MICROSCOPE SERIES

See illustration on page 3.

Combines the precise optical performance of our most popular stereo model with a newly enhanced illumination system. Specially designed incidental lamp can be directed precisely where needed, includes intensity control. Transmitted illumination is fluorescent for optimum light and very cool temperature to prolong life of live material.

OPTICAL SYSTEM

- Paired widefield 10x eyepieces, 45° inclined, diopter adjustment, interpupillary adjustment from 55mm to 75mm.
- Eyepieces equipped with reticle holder/retainer to accept reticle with 23mm O.D.
- Viewing head rotates 360°, adjusts up or down on post mount to accommodate difference size specimen.
- Paired objectives are parfocaled, parcentered and achromatic.
- Magnification changed by rotating objective turret 90° to positive click stops.

ILLUMINATION

- Top light (incidental) is 12v 15-watt halogen, bi-pin with adjustable beam and variable intensity control.
- Bottom light (transmitted) is 120v 5 watt fluorescent.
- 4-position light control: top only/bottom only/top & bottom/off.

FOCUSING

- Heavy-duty rack & pinion focusing with slip clutch and tension adjustment.

STAGE

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

FRAME

- Professional, all-metal frame.
- Heavy-duty post mount with locking collar, permits up or down adjustment of viewing head to accommodate different sized objects on stage.
- Base width: 171mm (6-3/4 in.), Base depth: 242mm (9-1/2 in.)
- Height: 325mm (13 in.).

PACKING

- Molded styrofoam container with instruction brochure, vinyl dustcover & rubber eyeshields.
- Individual: Ship wt. 7.3 kgs (16 lbs), Dimensions 550x375x375mm (22x15x15 in.)
- Master carton pack 2 each: Ship wt. 13.6 kgs (30 lbs), Dimensions 475x375x475mm (19x15x19 in.)

WARRANTY

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

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Subject to changes in material and design, equal to or exceeding those described above.

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		
430	1X	5X	22mm	10X	20mm	15X	13mm	20X	10mm	94mm	72mm
	3X	15X	7.3mm	30X	6.7mm	45X	4.3mm	60X	3.3mm		
431	2X	10X	11mm	20X	10mm	30X	6.5mm	40X	5mm	94mm	72mm
	4X	20X	5.5mm	40X	5mm	60X	3.2mm	80X	2.5mm		

PARTS & ACCESSORIES

- 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)
- 499-430PHF Stand w/focusing block, post mount, dual illumination, top #800-422 12v 15 watt halogen, bi-pin, bottom #800-138 5 watt fluorescent
- 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
- 800-422 Replacement bulb for top light, 12v 15 watt halogen, bi-pin
- 800-138 Replacement bulb for bottom light, 110v 5 watt fluorescent
- 801-100 Replacement fuse for 110v version, 1.0 amp
- 801-160 Replacement fuse for 220v version, 0.5 amp time delay
- 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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Sales: 888-777-8835 • Email: sales@m-depot.com
Main: 209-839-2990 • Fax: 888-872-4300
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NATIONAL MODEL 430-430PHF-10