



# NATIONAL

National Optical & Scientific Instruments, Inc.  
A Member of the Motic Group

## MODEL 420 Stereo Zoom Microscope

The convenience and versatility of viewing a large picture at 10x magnification, then zooming continuously all the way to close-up detail at 40x magnification. Upright, unreversed 3-dimensional image remains in focus throughout zoom range. Optional eyepieces and auxiliary objectives expand magnification range and working distances.

### OPTICAL SYSTEM

- Paired widefield 10x eyepieces, inclined 45°, diopter adjustment on both eyepieces, interpupillary adjustment from 55mm to 75mm.
- Viewing head rotates 360°.
- High resolution, achromatic, color corrected lenses are parfocaled, and parcentered.
- Continuous magnification from 10x thru 40x. Optional auxiliary lenses available.

### 420-430PHF-10

- Top light is 12v, 15w halogen, bottom light is 110v, 5w fluorescent.
- Includes 80mm frosted glass and black/white contrast plate.
- Post mount permits up or down adjustment of viewing head.
- Available with 110v or 220v.



(420-430PHF-10)

### 420-420AHF-10

- Top light is 12v, 15w halogen, bottom light is 110v, 5w fluorescent.
- Includes 80mm frosted glass and black/white contrast plate.
- Rack & pinion focusing block with fixed arm.
- Available with 110v or 220v.



(420-420AHF-10)

### 420-1105-10

- Flexible universal stand is counter balanced for maximum stability.
- Large dual focusing knobs with slip clutch and tension adjustment.
- Post mount permits up or down adjustment of viewing head.



(420-1105-10)

### 420-1107-10

- Large workspace ideal for photographic or video applications.
- 82mm reversible black/white contrast plate.
- Post mount permits up or down adjustment of viewing head.



(420-1107-10)

### WARRANTY

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

# National Model 420

Specifications	
Eyepiece	10x, 23mm
Head	45° inclined binocular head, rotates 360°(420 models) 45° inclined trinocular head, rotates 360° (425T models)
Stand Options	430PHF- post mount, dual illumination 420AHF- fixed arm, dual illumination 1105- universal boom, counter balanced 1107- platform (240mm x 280mm)
Objectives	Zoom, 1X to 4X
Working Distance	79mm
Max. Specimen Height	420-430PH-10, 93mm 420-420AHF, 45mm 420-1105-10, 437mm 420-1107-10, 97mm

Parts and Accessories	
499-420AHF	Stand w/focusing block, fixed arm, dual illumination
499-430PHF	Stand with focusing block, post mount, dual illumination
499-1105	Universal boom stand, without focusing block, no illumination
499-1107	Platform stand, without focusing block, 240mm x 280mm, no illumination



## National Optical & Scientific Instruments, Inc.

11113 Landmark 35 Drive  
San Antonio, TX 78233 USA  
Tel: (800) 275-3716  
Fax: (210) 590-1104  
E-mail: [Info@nationaloptical.com](mailto:Info@nationaloptical.com)

Authorized Distributor

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

ISO 9001:2000 Certified  
ISO 14001:2001 Certified