



NATIONAL

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

MODEL DC3-420TH STEREO ZOOM MICROSCOPE DC5-420TH WITH BUILT-IN CAMERA

The convenience and versatility of viewing 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. Superb optical clarity and reliable mechanical engineering assure years of top performance. Built in high-resolution digital or analog/digital camera options. Supplied with Motic Images 2.0ML software, which allows the user to view, capture, label, manipulate, and measure images. This microscope is fully functional, independent of camera application.

OPTICAL SYSTEM

- Paired widefield 10x eyepieces inclined at 45° with diopter adjustment, and interpupillary adjustment from 55mm to 75mm.
- Achromatic, color corrected lenses.
- Continuous magnification from 10x thru 40x. (Optional auxillary lenses available).

ILLUMINATION

- Top light (incidental) is 12v, 15w halogen, bi-pin with directional beam and rheostat control.
- Blue filter for transmitted light.
- Bottom light (transmitted) is 12v 10 watt halogen, bi-pin.
- 4-position light control: top only/bottom only/top & bottom/off.
- 12v DC power converter operates on 100v-240v 50Hz/60Hz current, without need of additional transformer.

BASE

- Tension adjustment eliminates focus "drift".
- Rack & pinion focusing with slip clutch and tension adjustment.
- Heavy-duty post mount with locking collar, permits up or down adjustment of viewing head to accommodate different sized objects on stage.
- Includes two 80mm stage plates: frosted glass and reversible black/white plastic contrast plate.
- Two locked-on stage clips.

WARRANTY

- Lifetime limited warranty, excluding bulbs and cord.
Camera 1 year limited warranty.



National Model DC3-420TH, DC5-420TH

Specifications	
Eyepiece	10x
Head	45° inclined head
Stage	80mm, frosted glass, reversible black & white
Objectives	1x-4x
Maximum Specimen Height	93mm
Working Distance	79mm
Top Illumination	12v, 15 watt halogen
Bottom Illumination	12v, 10 watt halogen
Height/ Weight	13 in. (330mm)/ 11.2 lbs. (5.1 kgs)

PACKING:

- Individual: Ship wt. 18 lbs. (8.2 kgs), Dimensions 18x17x11 in. (450x425x275mm)
- Master carton pack 1 each: Ship wt. 18 lbs. (8.2 kgs), Dimensions 18x17x11 in. (450x425x275mm)

Digital Camera	This model permits hook-up to computer with supplied USB cable. Easy-to-use software for capturing microscope images, labeling, measuring and storing. Requires a PC with Windows XP or above. OSX		
Model	DC3-420TH		DC5-420TH
Image device	CCD (analog)	CCD (digital)	CMOS (digital)
Live imaging	550 TV lines	720 x 480	1600 x 1200
Framed resolution		720 x 480 pixels	1600 x 1200 pixels
White balance	Push button	Push button	Software white balance
Power supply	External power supply	External power supply	USB powered



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

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