
DIGITAL BINOCULAR COMPOUND MICROSCOPE WITH PHASE CONTRAST OBJECTIVES AND IMAGES 2000 SOFTWARE

MODEL S-02020 See illustration on page 3.

THE MICROSCOPE

Superior in design and in performance, the S-02020 incorporates a wide range of features designed for university and laboratory use. DIN standard Plan Phase objectives offer superb optical clarity and reliable mechanical engineering assure years of top performance. This microscope is fully functional, independent of the camera application. Supplied with powerful Motic Images 2000 software.

OPTICAL SYSTEM

- Widefield 10x /18mm eyepiece, pointer standard in one eyepiece. Accepts optional S-05200 eyepiece reticle.
- 30° inclined binocular eyepieces with dual diopters and interpupillary adjustment 54mm to 76mm. 3-position sliding rod directs light 100% to binocular eyepieces, or 100% to camera, or 70% to camera and 30% to binocular eyepieces.
- DIN standard PLAN PHASE 10x (0.25 N.A.), 20x (0.40 N.A.), 40xR (0.65 N.A.) and 100xR oil immersion (1.25 N.A.) objectives, parfocalled, parcentered and color-coded.
- Quad objective turret is ball bearing mounted for smooth, precise positioning of objectives, features textured rubber knurling for easy grip. Mounted in reverse position to facilitate ease in changing slides.

ILLUMINATION

- 12v 20-watt halogen with variable rheostat control.
- 12VDC power converter operates on 100v-240v 50H/60H current, without need of additional transformer.
- Illuminated on/off switch, 3-wire grounded cord and plug.

FOCUSING

- Coaxial coarse and fine focusing controls, coarse has tension adjustment, fine is graduated.

STAGE

- Large 140mm x 135mm (5-1.2 in. x 5-1/4 in.) stage; built-in, low profile, ball bearing mounted mechanical specimen holder with low-position coaxial controls, 70mm (x) by 50mm (y) movement with graduations of 0.1mm.
- 1.25 N.A. phase turret condenser mounted in rack & pinion focusing mount, iris diaphragm, swing-out filter holder with clear blue, green and yellow filters supplied. Includes one brightfield observation position. Centering telescope included.

FRAME

- Rugged cast aluminum, gray enamel finish.
- Base dimensions: 185mm x 235mm (7-1/4 in. x 9-1/4 in.)
- Height: 405mm (16 in.)
- Net wt. 6.3 kgs (13.9 lbs).

PACKING

- Molded styrofoam container with instruction brochure and vinyl dustcover.
- Phase turret condenser, objectives, centering telescope, and filters packed in separate metal storage box
- Individual: Ship wt. 13.60 kgs (30 lbs), Dimensions 584x482x406mm (23x19x16 in.)
- Master carton pack 1 each: Ship wt. 13.60 kgs (30 lbs), Dimensions 584x482x406mm (23x19x16 in.)

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MICROSCOPE PARTS & ACCESSORIES

- S-05502 WF10X Eyepiece
- S-05501 WF10X eyepiece w/reticle, 10mm/100div.
- S-05707 Replacement bulb, 12v 20 watt halogen bi-pin
- S-05200 Eyepiece reticle, 10mm/100 div 800-160 Replacement bulb, 12v 20 watt halogen bi-pin

THE CAMERA

This model permits separate or simultaneous hook-up to computer and video monitor, or to projector, with supplied USB, S and RCA cables. Easy-to-use, Motic Images 2000 software for capturing, labeling, measuring, and storing images, plus a host of other exciting options. Requires a PC with Windows XP or above. OSX

SPECIFICATIONS – MICROSCOPE S-02020
 (NTSC, USB & RCA ports, digital and analog signals for use with computer, video, projector)

	NTSC (analog signal)	USB (digital sig.)
Image device	1/3 in. interline CCD	1/3 in. interline CCD
Effective pixels	(H) 768 x (V) 494	(H) 712 x (V) 582
Framed resolution	480 TV lines	320 x 240 pixels
White balance	Auto white balance	Same
Power supply	12v +/- 10% DC	Self powered

System Requirements

Operating System	Windows XP or above. OSX
Computer Requirements	1 Ghz processor, Video card: 128 MB, RAM 512 MB or above.
Menu on monitor	Pull-down menus for opening, storing, printing, print preview, regulator for brightness, color, and gamma correction. Icons for recording, image interpolation, switching between large and small image, image quality, automatic and manual white balance.
Image data	Automatic reference number, date, time
Interactive adjustment	Color, brightness, contrast
Import of stored data	Possible

Environmental conditions

Operating temperature	-50°F to +120°F	Same
Storage temperature	-70°F to +140°F	
Relative humidity	40% to 95%	

MICROSCOPE WARRANTY:

- Lifetime limited warranty, excluding bulb and cords.

CAMERA WARRANTY:

- 1-year limited warranty

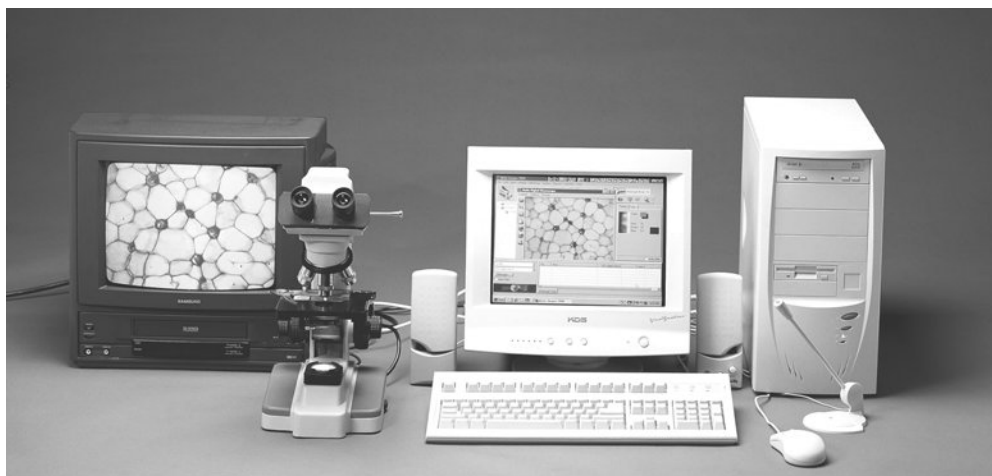
SOFTWARE WARRANTY:

- 90-day limited warranty.



MODEL S-02020

(Note: Illustrated with standard condenser, but S-02020 is supplied with phase condenser lenses and centering mechanism as shown in upper right corner.)



MODEL S-02020 shown in use (Computer & TV not included)

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