

## **DIGITAL BINOCULAR COMPOUND MICROSCOPE & IMAGES 2000 SOFTWARE**

**MODEL S-02000** (achromatic objectives) *See illustration on page 3*

**MODEL S-02010** (plan objectives)

### **THE MICROSCOPE**

Superior in design and in performance, the S-02000 series incorporates a wide range of features designed for university and laboratory use. Superb optical clarity and reliable mechanical engineering assure years of top performance. Choose from two grades of objective lenses: Standard achromatic lenses deliver excellent clarity and normal flatness of field; Plan achromatic for superior clarity and flatness of field. This microscope is fully functional, independent of the camera application. Supplied with powerful Motic Images 2000 version 1.3 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 4x (0.10 N.A.), 10x (0.25 N.A.), 40xR (0.65 N.A.) and 100xR oil immersion (1.25 N.A.) objectives. Choose from achromatic (S-02000) or plan lenses (S-02010). Both are parfocussed, 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 50Hz/60Hz 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. Abbe condenser has rack & pinion focusing, iris diaphragm, swing-out filter holder with clear blue, green and yellow filters supplied.

#### **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.
- Individual: Ship wt. 9.6 kgs (21 lbs), Dimensions 575x450x300mm (23x18x12 in.)
- Master carton pack 1 each: Ship wt. 9.6 kgs (21 lbs), Dimensions 575x450x300mm (23x18x12 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.

**SPECIFICATIONS – MICROSCOPE S-02000**

(NTSC, USB & RCA ports, digital and analog signals for use with computer, video, projector)

	<b>NTSC (analog signal)</b>	<b>USB (digital sig.)</b>
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**

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

**Environmental conditions**

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

**MICROSCOPE WARRANTY:**

- Lifetime limited warranty, excluding bulb and cords.

**CAMERA WARRANTY:**

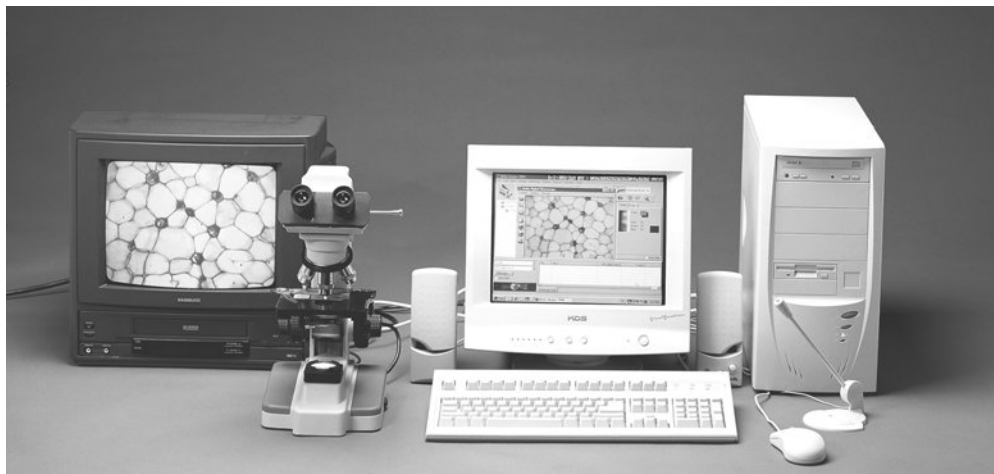
- 1-year limited warranty

**SOFTWARE WARRANTY:**

- 90-day limited warranty.



MODEL S-02000



MODEL S-02000 shown in use (Computer & TV not included)

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