

Electron Microscopy Sciences is proud to announce the introduction of the highest quality line of compound and stereo microscopes in the market place today. The microscopes incorporate advanced technology into a durable, cost-effective solution. All of the microscopes have:

- **A modern frame with enhanced stability for image documentation**
- **An ergonomic single hand stage/focus control to minimize fatigue**
- **A robust stainless steel/brass focus mechanism endures high use**
- **Brilliant images resolved with superb optics**
- **Versatile performance — multiple techniques available, including polarization with First Order (Full Wave/Red) Retardation Plate, phase contrast, dark field and more.**

We are convinced that our Microscopes are the best in the marketplace and at the right price.

III Inverted Microscope

A New Level of Inverted Microscopy

EMS introduces a high optical standard on a versatile frame at budget conscious levels. The long working distance condenser (55 mm) and objectives (six supplied) provide brilliant resolved images in both phase contrast and brightfield techniques. The condenser swings out to accommodate roller bottles or other large cultivation vessels.

FEATURES

- **Affordable** - EMS delivers exacting performance for routine research without consuming your budget
- **Versatile** - trinocular body for image documentation; condenser design for observation of virtually all vessel types; mechanical stage with inserts for well plates and petri dishes; three objectives each for phase contrast and brightfield
- **Durable** - an all metal frame with an all metal focusing mechanism ensures this instrument will perform well beyond the industry leading 5 Year Warranty

The microscope includes phase centering telescope and phase annulus sliders, dust cover, color filters (blue, green and frosted), spare halogen lamp and fuse.



SPECIFICATIONS

- **Optical body** - Seidentopf design inclined 30°; 55 to 75 mm interpupillary adjustment, ° rotation
- **Nosepiece** - quintuple, ball bearing
- **Eye pieces** - 10X, Focal Length 25mm, FN 20 mm.
- **Focus mechanism** - adjustable tension control to prohibit drift and adjustable up-stop to protect objective lenses; dial markings at 0.002mm increments
- **Condenser** - 1.25 N.A. 2 element Abbe with iris diaphragm and rack and pinion focusing; 55mm optical working distance, swing out or bright field working distance is 125mm or 5"
- **Kohler Illumination** - field diaphragm, 30 watt, 6 volt Halogen bulb with electronic dimmer
- **Mechanical stage** - (WxD) (in/cm) 8.25 x 8.875 / 20.95 x 22.54; Right-hand Coaxial dropdown X-Y Control Knobs; Four Inserts for: well plates (13 x 8 cm and 8 x 5 cm) petri dish (6.8 cm diam.) and slides (7.5 x 3.5 cm and 7.5 x 2.5 cm)
- **Dimensions** - (WHD) (in/cm) 7.7 x 18.4 x 13.8 / 19.5 x 46.8 x 35; Gross Weight: (lb/kg) 25/55

Objective Magnification	Numerical Aperture (mm)	Field of View w/10X E.P. (mm)	Working Distance Brightfield Plan achromatic (mm)	Working Distance Phase Plan achromatic (mm)
10X	0.25	1.80	8.1	8.1
25X	0.40	0.72	4.8	4.8
40XR	0.60	0.45	3.3	3.3

ORDERING INFORMATION

Cat. No.	Description	Qty.
CP-2A1	Inverted, Trinocular, Mechanical Stage, 6 ea. Plan Objectives: 10X, 25X, 40XR, 3 Brightfield/Phase Contrast, 5 position turret, 30W Halogen	each

Compound Microscope Accessories

Cat. No.	Description	Qty.
LB-15WH	15 Watt 6 Volt Halogen Bulb for transmitted or lower illumination	each
LB-15WHR	15 Watt 6 Volt Halogen Bulb with Reflector for reflected or upper illum.	each
LB-5WF	5W Fluorescent Bulb for transmitted or lower illumination	each
LB-20WH	20W 6 Volt Halogen Bulb for all Upright Compounds	each
LB-30WH	30W 6 Volt Halogen Bulb for Inverted Compounds	each

Cat. No.	Description	Qty.
A9-10-100	Reticle, 10mm Scale with 100 divisions	each
A9-5-100	Reticle, 5mm Scale with 100 divisions	each
A9-100SQ	Reticle, Square Grid with 1mm divisions	each
A9-400SQ	Square Grid with 0.5 mm divisions	each
A9-STM	Reticle, Stage Micrometer, 1mm scale with 100 divisions	each
OP-050	50XR Oil Plan Achromatic, N.A. 0.65	each

Camera Systems

EMS offers three types of camera systems for documenting resolved microscopic images.

Each system is fully integrated with

- software for image analysis
- optical adapters to obtain the image in the correct focal plane
- cables for connection to computers, monitors or projectors

All components are conveniently packaged under one part number for easy ordering.

Description	Upright Compound	Inverted Compound
Digital Still Camera, 15 megapixel or better resolution, with memory card, USB cable, battery charger, optical adapter for microscope and Jenco Image Software	59-C15	5A-C15
Digital Video Camera, USB 2.0, 5 Megapixel resolution for color imaging, optical adapter and measuring software.	59-5M	5A-5M
Digital Video Camera, USB 2.0, 3 Megapixel resolution for color imaging, optical adapter and measurement software	59-3M	5A-3M
Adapter for Digital Still Camera	CM-0334-B	CM-0334-V
Adapter for Digital Video Camera, C-Mount	CM-0304	CM-0306

Note: CCD cameras and cooled CCD cameras for fluorescence available upon request.

EMS also offers the complete line of Digital Microscopy Cameras by Lumenera: Infinity Digital Microscope Cameras.

Image Software

Minimum System Requirements: Microsoft Windows 98, ME, 2000, or XP. This software will not operate on Windows NT; CD-ROM Drive to install the software. An Ethernet Card for the license.dat file to identify (Software requires a License file to operate).

Jenco Image is a software tool for microscope image measurement. It captures or imports and archives database images and allows image annotation, Email links, or report generation. It can be used to measure point to point or multi-pointed lengths/distances and/or area of: lines, angles, circles, rectangles and ellipses in the captured image with calipers in metric, English or pixels. The system can also calculate a color area and percentage of color relative to the whole. The system can be calibrated to scale/magnification so the result of the measurements and virtual values will keep a 1:1 relation. All results can be saved in the computer for further research.

- Point-to-point linear measurement
- Radius and diameter on ellipse
- Area and perimeter for ellipse or rectangle
- Length of segmented lines
- Area and perimeter of irregular shapes
- Angle measurements
- Arc/Ellipse/Circle measurements including definition of center point, chord lengths, sweep angles, radii, and more

Cat. No.	Description	Qty.
JI-V1.2	Jenco Image measurement software	each