

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 Fluorescence Illumination for Live Cells

FEATURES

- Obtain sharp images through the bottom of a culture vessel because of the superior long working distance phase contrast objectives
- Examine large roller bottles or flasks with a swing out condenser — 7" (180mm) bright field working distance or 2" (55 mm) phase contrast working distance
- Custom filter sets available

The EMS Epi-fluorescence Inverted Microscope allows you to quickly locate fluorescent tagged items and save room in your budget. The BC Series Epi Inverted uses a single band filter cube and six objectives to deliver a brightly resolved image for identifying proteins and other specimens within a cell.

KEY SPECIFICATIONS

Optical Body: Seidentopf design inclined 30° with 55 to 75 mm interpupillary adjustment, 360° rotation

Nosepiece: Quintuple ball bearing reversed

Eye Pieces: 10X; Focal Length 25mm, FN 20 mm.

Focus Mechanism has 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

Kohler Illumination, field diaphragm, 30 watt, 6 volt Halogen bulb with electronic dimmer

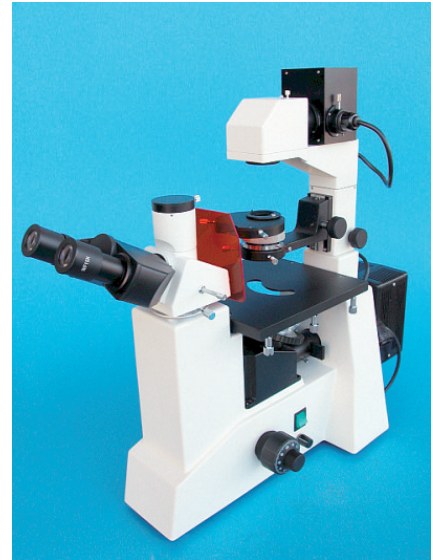
Mercury Lamp and Electronic Power Supply with elapsed time counter, Type: HBO 100W/2

Fixed stage: (WxHxD) (in/cm) 8.25 x 0.59 x 8.875 / 20.95 x 1.5 x 22.54

Optional Attachable Mechanical Stage: Right-hand Coaxial dropdown X-Y Control Knobs

Dimensions: Trinocular: (WHD) 9 x 22.5 x 21.5 (16 on BC-2A1) / 22.86 x 57.15 x 54.61 (in/cm)

Gross Weight: 60/27.27 (lb/kg)



SPECIFICATIONS

Objective Magnification	Numerical Aperture (mm)	Field of View w/ 10X E.P. (mm)	Working Distance Bright Field Plan Achromatic (mm)	Working Distance Phase Plan Achromatic (mm)
10X	0.25	1.8	8.1	---
25X	0.40	0.72	4.8	---
40XR	0.60	0.45	3.3	---
10X	0.25	1.8	---	8.1
25X	0.40	0.72	---	4.8
40XR	0.60	0.45	---	3.3

Excitor Type	Peak Wavelength	Filter Type	Excitation Filter	Dichroic Mirror	Emission Filter
UV	---	DANSA	IF 330-400	---	425 W
VIOLET	---	SITS Primuline	IF 395-415	---	455 W
BLUE	445	FITC	IF 420-485	DM 510	520 W
GREEN	546	TRITC	IF 535-550	DM 580	580 W

ORDERING INFORMATION

Cat. No.	Description	Qty.
BC-2A1	Inverted with option for fluorescence, Trinocular, Mechanical Stage, 6 ea. Plan Objectives: 10X, 25X, 40XR, 3 Brightfield/Fluor and 3 Phase Contrast, 30W Halogen	each
BC-EPI	Fluorescent Attachment Kit for Inverted Microscope	each
BC-364	Inverted Epi-fluorescence, Trinocular, Mechanical Stage, 6 ea. Plan Objectives: 10X, 25X, 40XR, 3 Brightfield/Fluor and 3 Phase Contrast, 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.
Jl-V1.2	Jenco Image measurement software	each