

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 Compound Microscopes

FEATURES

- **Optical body** - Seidentopf design inclined 30°; 55-75 mm interpupillary distance
- **Eye pieces** - WF 10X High Eyepoint to 21mm, Field Number 22 mm
- **Objectives** - 4X, 10X, 40XR and 100XR (oil) strain-free Infinity Planachromat
- **Turret** - 4 position ball bearing, reversed for unrestricted access
- **Mechanical stage** - 360° Rotating, 5.3"/13.5cm diameter with specimen holder
- **Focusing** - 0.001mm markings, adjustable tension control & focus stop prohibits drift, protects specimen and objectives
- **Condenser** - 1.25 N.A. 2 element Abbe with iris diaphragm, slot for phase slider, color coding corresponds to objectives
- **Kohler Illumination** - field diaphragm, choose from 30W or Halogen, accepts fluorescence module
- **Dimensions** - (WHD) (in/cm) 7.7 x 16.5 x 11.0 / 19.5 x 41.8 x 28.0 Gross Weight (lb/kg) 28/12.7



The BK Series (replaces JC, PL, CK, Z7, and ZM Series) Upright Compound microscopes are designed to perform in a demanding research environment and incorporates advanced technology into a durable, cost effective solution for your microscope needs.

Microscope Includes: dust cover, immersion oil, blue filter & spare halogen lamp fuse.

SPECIFICATIONS

Objective Magnification	Numerical Aperture (mm)	Field of View w/10X E.P. (mm)	Working Distance Brightfield Plan achromatic (mm)	Working Distance Phase Contrast Plan achromatic (mm)
4X	0.13	5.5	12.31	NA
10X	0.3	2.2	4	4
20X	0.45	1.1	1.24	1.24
40X R	0.7	0.55	0.29	0.29
50X R (oil)	0.9	0.44	0.12	NA
60X R	0.8	0.37	0.04	0.04
100X R (oil)	1.25	0.22	0.09	0.09
Binoc/ Trinoc/ Polarized			BK-211 / BK-311 BK-2PL / BK-3PL	BK-221 / BK-321

ORDERING INFORMATION

Cat. No.	Description	Qty.
BK-211 (rep. JC-211)	Binocular, Plan achromatic	each
BK-311 (rep. JC-311)	Trinocular, Plan achromatic	each
BK-221 (rep. JC-221)	Binocular, Plan achromatic, Phase contrast	each
BK-321 (rep. JC-321)	Trinocular, Plan achromatic, Phase contrast	each
BK-2PL (rep. JC-2PL)	Binocular, Plan achromatic, Polarized	each
BK-3PL (rep. JC-3PL)	Trinocular, Plan achromatic, Polarized	each

III 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

III 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.

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

III 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