



Leica BME

Compound Microscope System

Great discoveries begin with vision.

Leica
MICROSYSTEMS

Systems. Solutions. Leica.

The Vision for the Next Generation

Superior performance. Durable construction. Exclusive features. The Leica BM E has been designed with exacting attention to each and every microscope component, to create a streamlined, high performance instrument unique in its class. The BM E is a result of the Leica Microsystems vision to design a microscope that truly meets the needs of its users and offers a flexible system of microscopy.

The vision to see images more clearly.

The BM E utilizes the new Leica **E** series optics designed by optical engineers for high contrast, sharpness and resolving power. The quality of the optical glass and design combine into a system beyond the average microscope:

- Superior quality Leica **E**₁ series all-glass, finite-corrected optics for brilliant, high-contrast imaging. Upgradeable to Leica **E**₂ series optics for even better performance!
- Anti-Fungus/mold warranty protects your microscope and investment
- Spring-loaded, high magnification objectives prevent broken sample slides
- 18mm FOV (standard) 10x eyepiece optimizes viewing field for easy, comfortable operation
- Eyepieces accept a large selection of 21 mm reticles
- Eyeguards can be used with or without glasses and block out ambient light

The vision to illuminate.

The BM E's illumination systems are designed to provide maximum image quality for a variety of applications. Features include:

- Designed to meet or exceed international safety standards
- Available with either Fluorescent or Tungsten-Halogen illumination
- Long-life illumination: Fluorescent lamp provides 10,000 hours of cool, bright light and Halogen lamp provides 2,000 hours of stable and balanced light
- Angled lamp door for Halogen illumination prevents accidental breakage
- Easy lamp change helps minimize downtime

■ **EXCLUSIVELY LEICA**

Great discoveries begin with vision.

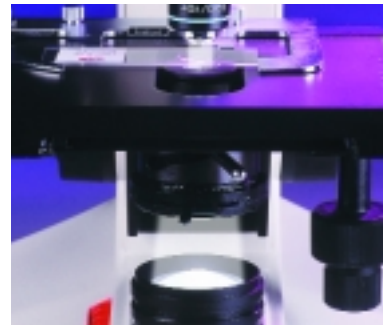


André-Marie Ampère
1775-1836

A mathematician, physicist and chemist, Ampère defined the relationship between electricity and magnetism through mathematical demonstration (Ampère's Law).



Superior quality Leica **E**₁ series optics, and upgradeable to **E**₂ series!



Available with either Fluorescent or Tungsten-Halogen illumination





LEICA BME

LEICA
180/O.17
S₁ AD-HO
10x/O.85

1308A010
180/O.17
S₁ ACHRO
40x/O.85

Leica

Leica Confidence

The Vision to Provide Comfort and Convenience.

When you're looking for a microscope that gives you the ultimate in comfort and quality at a reasonable price, take a close look at the Leica BM E Compound Microscope:

- The compact size keeps key controls within easy reach
- Low position of mechanical stage controls minimizes wrist movement
- The stylish, approachable design makes it inviting to use
- Coaxial coarse and fine focus controls for precision and ease of use
- Precision machined nosepiece for excellent parfocality and parcentration
- Compact size for ease of use, easy manipulation of specimens
- Low heat output for comfortable operation
- Blue filter is built in to prevent accidental loss on Tungsten-Halogen models
- 45° viewing angle and 360° rotatable viewing bodies make it easy to share, but prevent removal

The vision to provide all the extras

A wide range of accessories to meet your specific needs:

- ▣ Upgradeable to higher level **E₂** series Leica optics
- ▣ Choice of fixed or mechanical stages with Abbe or disc diaphragm condensers
- 35mm camera solutions for photomicrography
- Fixed or separate video accessories provide flexibility
- Hardwood or soft padded cases available for storage and transporting

▣ **EXCLUSIVELY LEICA**



Leica video accessories increase the versatility of the BM E



Available with economical photographic accessories

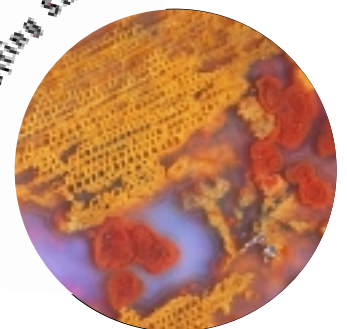
Great discoveries begin with vision.



James Clerk Maxwell
1831-1879

Maxwell's experiments demonstrated that light and electricity are closely related. He showed that there were all kinds of electromagnetic waves, operating at different frequencies, beyond perception of the human eye.

Mold Fritting Structure

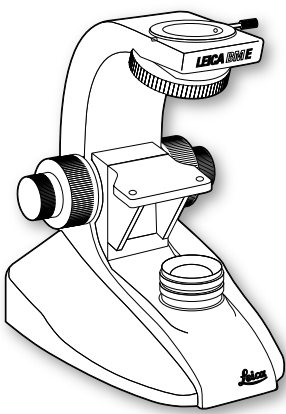
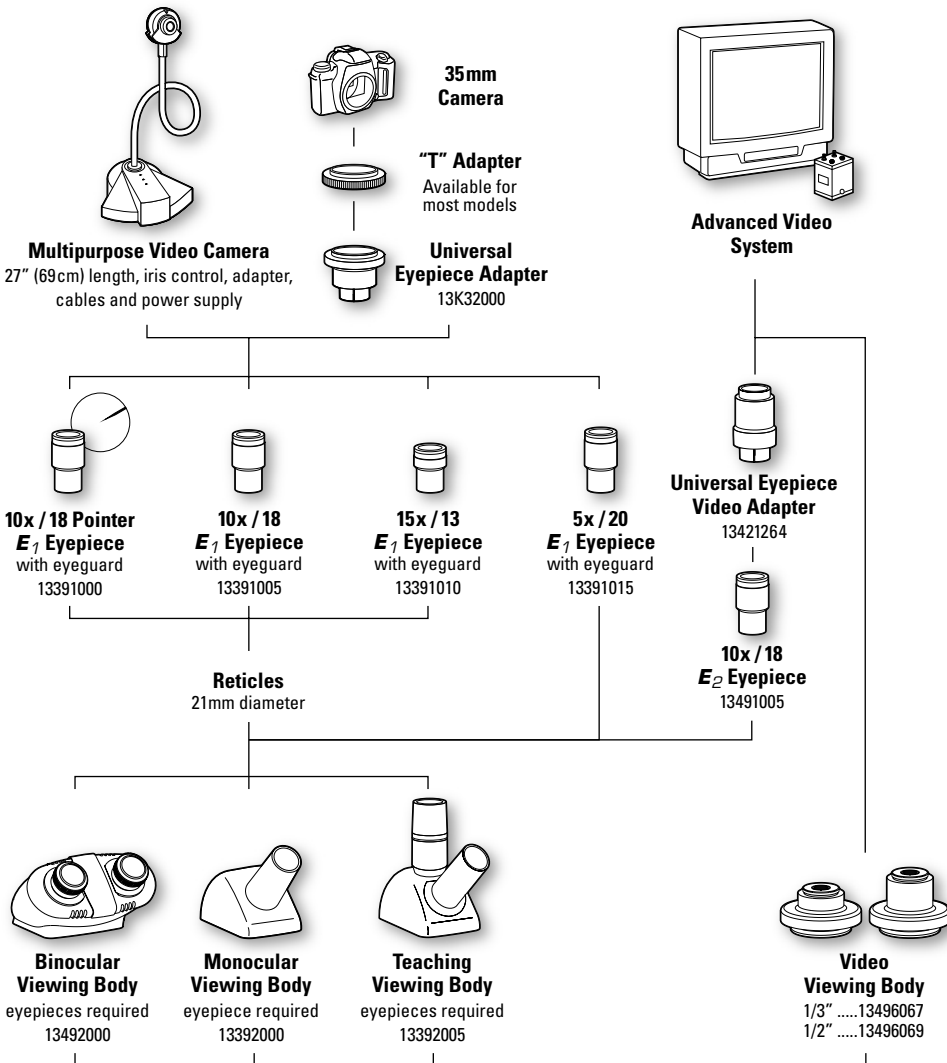


Leica BM E SYSTEM DIAGRAM

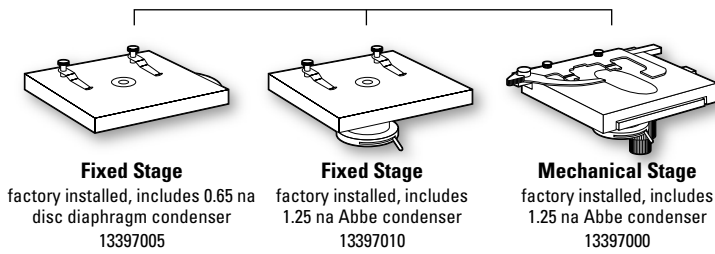
MULTIPURPOSE VIDEO

BASIC PHOTOGRAPHY

ADVANCED VIDEO



- E Series Objectives**
- 4x / 0.1013394000
 - 10x / 0.2213394005
 - 40x / 0.6513394010
 - 100x / 1.25 (oil)13394015
- E₁ Achromat**
- E₂ Planachromat**
- 4x / 0.1013494020
 - 10x / 0.2513494025
 - 40x / 0.6513494030
 - 100x / 1.25 (oil)13494035
- E₂ Achromat**
- 4x / 0.1013494000
 - 10x / 0.2513494005
 - 40x / 0.6513494010
 - 100x / 1.25 (oil)13494015



PRECONFIGURED SYSTEMS

COMPONENTS	SYSTEMS					
230V						
120V						
Mirror						
Monocular						
Binocular						
Fluorescent						
Tungsten Halogen						
E ₁ , 4x, 10x, 40x						
E ₁ , 100x (oil)						
Abbe Condenser						
Disc Diaphragm						
Standard Stage						
Mechanical Stage						
	13395M01	13395F12	13395F11	13395H12	13395H11	13395F22
						13395F21
						13395H21
						13395H22

ACCESSORIES

- Attachable Mirror**
13396050
- Replacement Lamps**
Halogen13396030
Flourescent....13396025
- Immersion Oil**
13614800
- Dustcover**
13596010
- Carrying / Storage Cases**
Hardwood, Locking.....13596015
Soft13486000

STANDS *

COMPONENTS	STANDS			
230V				
120V				
Mirror **				
Tungsten Halogen				
Fluorescent				
	13393040	13393000	13393010	13393005
				13393015

* Specify stage and condenser type to be factory installed

** Includes 13397005 standard stage with disc diaphragm condenser

POWER CORDS

- North America**
13411390
- Europe**
13513900
- U.K. / Ireland**
13523900
- Denmark**
13533900
- Italy**
13543900
- Switzerland**
13553900
- Australia**
13563900
- Israel**
13573900
- India / South Africa**
13583900
- China**
13593900
- Japan**
13603900
- Argentina**
13613900

Leica BM E Specifications

VIEWING BODIES

- All-glass, high quality, coated optics
 - 45° viewing angle, 360° rotation
 - Standard Allen screw (1.5mm) and thumbscrew combination for easy rotation of body
 - Anti-fungus / mold warranty
- Monocular**
- Single viewing eyetube
- Monocular Teaching**
- Vertical and 45° viewing angles
 - 50/50 coating light split
- Binocular**
- Dual focusing eyetubes
 - 54mm to 74mm IPD range, sliding
- Video**
- 1/2" or 1/3"

E₁ EYEPIECES

- All-glass, high quality, coated optics
 - Upgradeable to E₂ optics
 - Match E₂ objectives with E₂ eyepieces and E₁ objectives with E₁ eyepieces
 - Anti-fungus / mold warranty
 - 5x, 20mm FOV
 - 10x, 18mm FOV
 - 15x, 13mm FOV
- Rubber Eyeguards**
- Included with all eyepieces
 - 34.2mm (1.35") diameter, 10mm (0.4") height
 - Fold over eyepiece
- Reticules**
- Accepts 21mm diameter discs
 - Use in 10x eyepiece without pointer and 15x

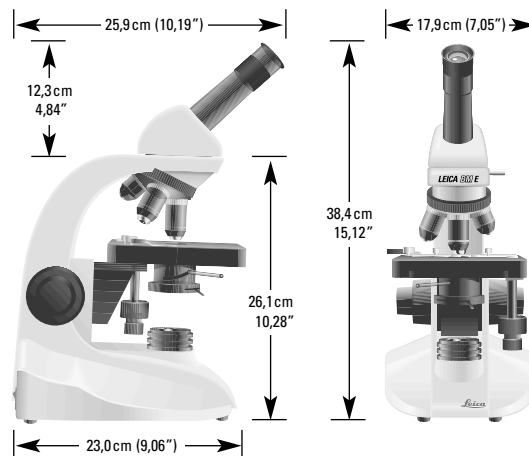
OBJECTIVES

- All-glass, high quality, coated optics
- Upgradeable to E₂ optics
- Match E₂ objectives with E₂ eyepieces and E₁ objectives with E₁ eyepieces
- Finite corrected, 160mm tube length
- Anti-fungus / mold warranty
- Thread size AMO 0.800 x 36
- DIN color coded and marked

	Magnification	Numeric Aperture	Working Distance	Cover Glass
E ₁ Achromat	4x	0.10	26.2mm	-
	10x	0.25	7.8mm	0.17
	40x	0.65	0.31mm	0.17
	100x oil	1.25	0.10mm	0.17
E ₂ Achromat	4x	0.10	24.43mm	-
	10x	0.25	4.46mm	0.17
	40x	0.65	0.45mm	0.17
	100x oil	1.25	0.14mm	0.17
E ₂ Planachromat**	4x	0.10	26.2mm	-
	10x	0.25	7.8mm	0.17
	40x	0.65	0.31mm	0.17
	100x oil	1.25	0.10mm	0.17

DIMENSIONS AND WEIGHT (with fluorescent, monocular model)

- Cast aluminum
- Dimensions**
- 38.4cm (h) x 17.9cm (w) x 23.0cm (d)
 - 15.12" (h) x 7.05" (w) x 9.06" (d)
- Shipping Dimensions**
- 33.8cm (h) x 52.1cm (w) x 45.7cm (d)
 - 13.30" (h) x 20.50" (w) x 18.00" (d)
- Weight**
- 3.74kg, 8.24lbs.
- Shipping Weight**
- 8.8kg, 13.75lbs.



ADDITIONAL

- Construction**
- Cast aluminum
- Nose Piece**
- Quadruple rear facing with positive stops
 - Rubber grip on turret
- Illumination**
- Critical or mirror
 - Tungsten-halogen lamp: 2,000 hours life, 12W
 - Fluorescent lamp: 10,000 hours life, 7W
- Electrical**
- Designed to meet international safety standards
- | | | |
|-------------------------|-------------------|----------|
| Tungsten-Halogen | • 120VAC ±10% | 50/60 Hz |
| | • 220-240VAC ±10% | 50/60 Hz |
| Fluorescent | • 120VAC ±10% | 60 Hz |
| | • 220-240VAC ±10% | 50/60 Hz |
- Stages**
- Fixed**
- Size: 13.0 cm (X) x 12.4 cm (Y)
 - 5.12" (X) x 4.88" (Y)
- Mechanical**
- Right handed
 - Size: 13.5 cm (X) x 13.5 cm (Y)
 - 5.12" (X) x 5.12" (Y)
 - Control shaft length 8.2 cm, 3.23"
 - Travel: 7.8 cm (X) x 3.6 cm (Y)
 - 3.07" (X) x 1.42" (Y)
 - Front loading specimen holder for one standard slide
- Sub Stage Assemblies**
- Cam and follower with ball bearings
- Condensers**
- Disc diaphragm 0.65 na
 - Standard condenser 0.90 / 1.25 oil
 - Minimum aperture: 1.3 ± 1mm
 - Maximum aperture: 29mm
- Focusing Mechanism**
- Coaxial coarse and fine focus knobs with markings on fine focus knobs for each side
 - 100 divisions of 4 microns each
 - One full fine focus turn equals 400 microns
 - One full coarse focus turn equals 4mm
- Contrast Technique**
- Brightfield
- Miscellaneous**
- Dust cover, multilingual instruction manual and immersion oil included with each complete model

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