

Leica CME

Compound Microscope System

The Vision to Create Microscopy Solutions for Education

Few microscopes are as specifically designed to general life science laboratory studies as the CME. With high-quality components and great attention to design, the CME is where superior microscopic performance meets a competitive price.

The vision to design a quality, robust instrument

The intense laboratory work of the college lab can take its toll on precision equipment. The Leica CME, however, has been designed to withstand the demanding educational environment without compromising performance and quality. Superb Leica \mathbf{E}_2 optics and illumination more than meet the growing demands of general science applications, while instant set-up and tamper-proof design make the CME ideal for the educational setting.

Features such as the maintenance-free focus mechanism that prevent stage drift for the life of the instrument, a rear-facing nosepiece, cast aluminum stand and spring loaded, high magnification objectives contribute to a long-lasting, precision instrument.

The vision to provide high performance.

Not only is the CM E durable and easy to use – it also offers superior performance. The CM E achieves maximum image quality through Leica \boldsymbol{E}_2 optics, parfocal and paracentered objectives, and a superior illumination system which includes features like a 2,000 hour tungsten-halogen lamp (20 times longer than competitive intruments), and a wide dynamic range to meet demanding applications.

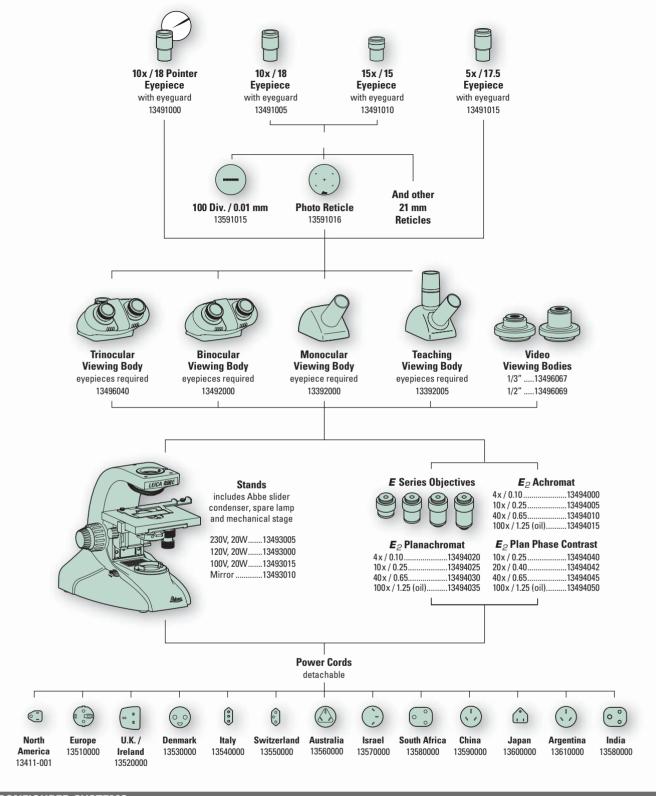
Great discoveries begin with vision.



Michael Faraday 1791–1867

Faraday was responsible for many newly-emerging intellectual edifices. His visionary experiments led to the idea that magnetism, electricity and light are structured very much alike and concluded that all matter worked in accordance with a field-force-as-wave process.





PRECONFIGURED SYSTEMS

230V Binocular Achromat System

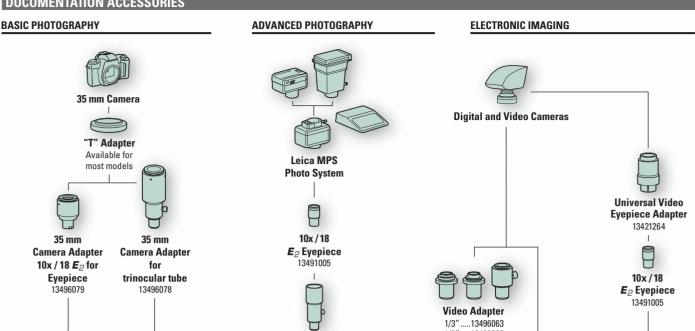
20W Illumination13495521

- 230V Critical illumination stand
- · Right hand mechanical stage
- 10x / 18 eyepiece
- 10x / 18 eyepiece with pointer
- Eyeguards
- · Binocular viewing body
- · Abbe slider condenser
- 4x, 10x, 40x and 100x oil **E**₂ Achromat objectives
- Specified power cord
- · Spare lamp

120V Binocular Achromat System

20W Illumination13495511

- 120V Critical illumination stand
- Right hand mechanical stage
- 10x / 18 eyepiece
- 10x / 18 eyepiece with pointer
- Eyeguards
- · Binocular viewing body
- Abbe slider condenser
- 4x, 10x, 40x and 100x oil
- **E**₂ Achromat oil immersion objectives
- Specified power cord



ILLUMINATION / CONTRAST TECHNIQUES ACCESSORIES

SIMPLE POLARIZATION

Binocular,

Teaching or Monocular

Viewing Bodies



Polarizer / Analyzer 13596080



Lambda **Plate Compensator** 13596085

KOEHLER ILLUMINATION



Koehler Illumination Kit 13496060

DARKFIELD

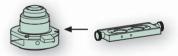
MPS Adapter

13496070

Trinocular

Viewing Body

13496040



1/2"13496065

1x13496073

Slider Condenser Slider Darkfield/BF PH 0.90 / 1.25 Oil 4x, 10x, 40x Objectives included with stand 13493030 Achromat/Planchromat 13493060

FILTERS

Video Viewing Bodies

1/3"13496067

1/2"13496069



Color Filters Koehler Critical Green .. 13596005 Green / diffused .13496006 Blue.....13596000 Blue / diffused13496001

PHASE CONTRAST



Slider Condenser PH 0.90 / 1.25 Oil included with stand 13493030

Phase Contrast Sliders

10x PH / BF.....13493045 20x PH / BF.....13493047 40x PH / BF.....13493050 100x (oil) .. .13493055 PH/BF



Phase Contrast Telescope 13194000



Phase Contrast Slider Kit

Includes one set of 4 annular phase rings and one slider 13493065



Phase Contrast Objectives E₂ Planachromat

10x / 0.25. 13494040 .13494042 20x / 0.40.. 40x / 0.65 13494045 100x / 1.25 (oil)..... ..13494050





Trinocular, Binocular,

Teaching or Monocular

Viewing Bodies

Phase Contrast Color Filters

Koehler Critical Green .. 13596005 Green / diffused .13496006 Blue.....13596000 Blue / diffused13496001

OTHER ACCESSORIES



Tungsten-Halogen Lamp 20W.....13496025



Attachable Mirror 13496050



Power Cord Wrap / Lock 13596035



Carrying / **Storage Cases** Hardwood, locking 13596016

Immersion 0il 13614800

Dustcover 13596010

Leica CME Specifications

VIEWING BODIES

- All-glass, high quality, coated optics
- 45° viewing angle, 360° rotation
- Standard Allen screw (3mm) or optional thumbscrew for locking in place
- Anti-fungus/mold warranty

Monocular

Single viewing eyetube

Monocular Teaching

- Vertical and 45° viewing angles
- 50/50 coating light split

Binocular

- Dual focusing evetubes
- 54mm to 74mm IPD range

Trinocular

- Video and photography port
- 80 / 20 coating light split

Video

• 1/2", 1/3" or 1"

E2 EYEPIECES

- · All-glass, high quality, coated optics
- Match E2 objectives with E2 eyepieces and \boldsymbol{E}_1 objectives with \boldsymbol{E}_1 eyepieces
- Widefield
- Anti-fungus/mold warranty
- 5x. 17.5mm FOV
- 10x, 18mm FOV
- 15x. 15mm FOV

Rubber

Included with all eyepieces

Eyeguards

34.2mm (1.35") diameter, 10mm (0.4") height

Fold over eyepiece

Reticules

Accepts 21 mm diameter discs

Use in 10x eyepiece without pointer and 15x

E₂ OBJECTIVES

- · All-glass, high quality, coated optics
- Match **E**₂ objectives with **E**₂ eyepieces and \boldsymbol{E}_1 objectives with \boldsymbol{E}_1 eyepieces
- Finite corrected, 160 mm tube length
- Anti-fungus / mold warranty
- Thread size AMO 0.800 x 36
- DIN color coded and marked

	Magnification	Aperture	Distance	Glass	
E ₂ Achromat	4x	0.10	24.43 mm	-	
_	10 x	0.25	4.46 mm	0.17	
	40 x	0.65	0.45 mm	0.17	
	100 x oil	1.25	0.14 mm	0.17	
E ₂ Planachromat	4x	0.10	8.5 mm	_	
_	10 x	0.25	1.4 mm	0.17	
	40 x	0.65	0.37 mm	0.17	
	100x oil	1.25	0.11 mm	0.17	
E ₂ Achromat	10 x	0.25	1.4 mm	_	
Phase Contrast	20 x	0.40	0.56 mm	0.17	
	40 x	0.65	0.37 mm	0.17	
	100x oil	1.25	0.11 mm	0.17	
_	10 x 20 x 40 x	0.25 0.40 0.65	1.4 mm 0.56 mm 0.37 mm	- 0.17 0.17	

DIMENSIONS AND WEIGHT (with binocular viewing body)

Dimensions

38.10cm (h) x 21.8cm (w) x 26.7cm (d)

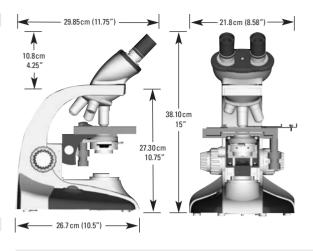
15" (h) x 8.58" (w) x 10.5" (d)

Shipping

44.45 cm (h) x 59.06 cm (w) x 35.56 cm (d)

Dimensions 17.5" (h) x 23.25" (w) x 14" (d)

Weight • 6.44kg, 14.2lbs. Shipping Weight • 9.12kg, 20.1lbs.



ADDITIONAL

Construction

Cast aluminum

Nose Piece

- Quadruple rear facing with positive stops
- Rubber grip on turret

Illumination

- Critical (standard) or optional Koehler
- Fixed or removeable mirror attachment
- Tungsten-Halogen lamp: 20W, 6V, 2,000 hours life

Electrical

Designed to meet international safety standards 60 Hz

120VAC ±10%

220-240VAC ±10% 50 Hz

Mechanical, right handed Stages

Size: 15 cm (X) x 13.6 cm (Y) / 5.905" (X) x 5.342" (Y)

Control shaft length 6.1 cm, 2.4"

Travel: $7.6 \text{ cm}(X) \times 4 \text{ cm}(Y) / 3''(X) \times 1.58''(Y)$

Front loading specimen holder for one standard slide

Sub Stage

Rack and pinion with ball bearings

Condensers

- Standard slider condenser (standard) 0.90 / 1.25 oil
- Minimum aperture: 1.3 ± 0.2 mm
- Maximum aperture: 27 mm
- Accepts phase contrast and darkfield sliders

Filters

- Critical illumination: blue or green diffused
- Koehler illumination: blue or green undiffused

Focusing Mechanism

- Maintenance free for consistent tension
- Coaxial coarse and fine focus knobs with markings on fine focus knobs for each side
- 100 divisions of 3 microns each
- One full fine focus turn equals 300 microns
- One full coarse focus turn equals 2.8 mm

Contrast **Techniques** Miscellaneous Brightfield (standard), darkfield, polarization and phase contrast with accessories

Dust cover, multilingual instruction manual and immersion oil included with each complete model

