



# Leica DM E

Compound Microscope System

Great discoveries begin with vision.

*Leica*

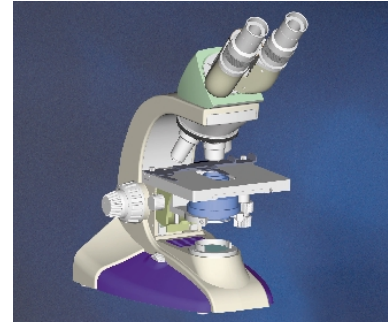
# Systems. Solutions. Leica.

## The Vision for the Next Generation

With Leica Microsystems, it's all about vision. It's about the visionary engineers who worked together with professors, scientists, and microscopists around the world to develop a more advanced, user-friendly, high performance compound microscope. And it's about creating the best possible vision for those using microscopes, so they may see, learn and discover new worlds under optimum conditions. It's the combination of these visions that are seamlessly presented in the Leica DME.

Built upon the solid design you've come to trust from a Leica microscope, the DME introduces exclusive new features that will make your microscopic investigations easier and more accurate. Features like the high efficiency, long-life illumination system, which brings brighter, more intense light to your specimens. Or the voltage sensing power supply that provides consistent voltage at your setting regardless of fluctuations. Leica's advanced ergonomics bring components like these - and many more - into one system to allow comfortable, relaxed usage and easy manipulation of specimens.

Leica Microsystems builds this 21st century microscope upon a company heritage stemming back to 1847, as the first company to put a modern microscope into mass production. Since then the company has consistently remained at the forefront of industry research and development. It's all part of Leica's visionary "system of solutions" - a philosophy that treats each customer as an individual with specific application, research, and performance demands.

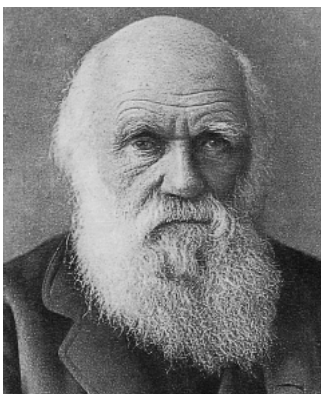


Precision engineering



Precision design

Great discoveries begin with vision.



## Charles Darwin 1809-1882

An English naturalist, Darwin developed the theory of natural selection, which suggests that the origin and diversification of species result from the gradual accumulation of individual modifications. His visionary studies led to the theory of evolution.



LEICA DME

Leica

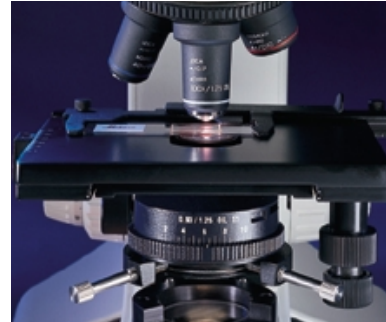
# Superior Illumination

## The vision to illuminate brightly and clearly.

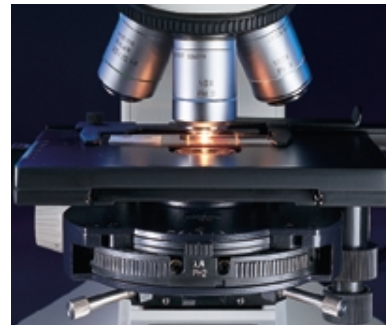
Before you can study, examine, and discover, you must be able to see clearly. The DM E's illumination system allows you to do that under optimum conditions, with a design so efficient that light intensity is much higher. More of the DM E's illumination features:

- A voltage-sensing power supply optimizes light intensity regardless of voltage fluctuations, and is designed to meet the international safety standards to facilitate usage anywhere in the world
- Illumination is easily upgradeable with interchangeable 20W and 35W lamps
- The DM E illumination efficiency allows the use of a lamp with a life 20 times longer than what is used in other microscopes, saving money and time in replacements
- An easily-removed diffuser can provide more than 400% additional light, making the DM E the brightest in its class
- The system's wide dynamic range allows for comfortable viewing for a variety of applications, including darkfield, brightfield, polarization, phase contrast and photomicrography
- An illuminated intensity control system signals users when the microscope has been left on, saving on lamp life
- An angled lamp door prevents the door from accidentally breaking
- A Koehler option is available to provide illumination for more exacting techniques like phase contrast and photomicrography

■ **EXCLUSIVELY LEICA**

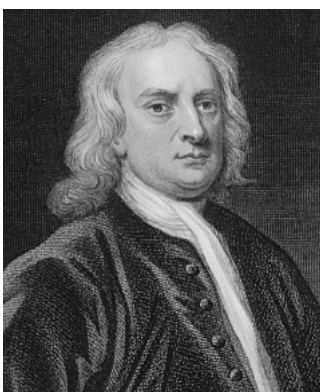


Critical or Koehler illumination



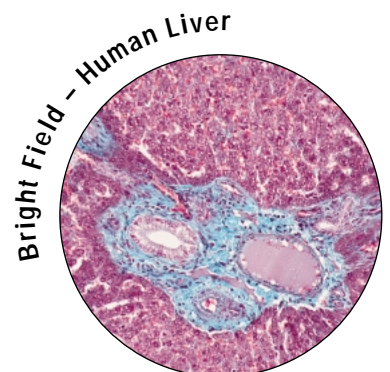
Phase Contrast

Great discoveries begin with vision.



**Sir Isaac Newton**  
1642-1727

Considered by many the greatest scientist of all time, Newton made great progress in the study of light, discovering that white light is composed of every color in the spectrum.





LEICA DME

LEICA  
125 OIL

LEICA  
ACHRO  
4x/0.10

LEICA  
-/0.17  
ACHRO  
10x/0.22

0.90 / 1.25 OIL ST  
2 4 6 8 10

# Maximum Image Quality

## The vision to incorporate superior optics.

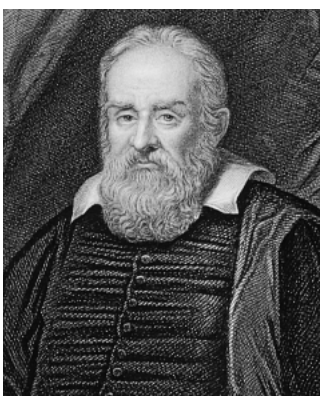
The closer you look at the DM E, the clearer you'll see the high-performance optical system that's unique to Leica. Most predominant is the infinity-corrected optic system, a system Leica pioneered. Infinity optics provide brilliant, high contrast imaging quality, complete optical compatibility with higher-performance Leica microscopes, and the option to add accessories without affecting the microscope's magnification.

The microscope's binocular and trinocular viewing bodies feature a Seidentopf design, which allows adjustment for interpupillary distances without refocusing. Standard C Achromatic objectives provide high quality in contrast, color and flatness at an economical price. The DM E's optical features also include:

- A combination of the precision-machined objectives and nosepiece, providing unmatched parfocality and parcentration from objective to objective
- Standard widefield 10x eyepiece for the most comfortable field of view
- Eyepieces accommodate 21mm reticles for a variety of measuring and counting applications
- 10x eyepiece is available with folding rubber eyeguards and pointer; 15x eyepiece also available
- 4x, 10x, 40x and 100x objective magnifications are standard
- Higher performance optics are also available
- Standard pre-centered condenser eliminates improper microscope set-up
- 1.25 na condenser aperture allows for oil-immersion applications

■ **EXCLUSIVELY LEICA**

## Great discoveries begin with vision.

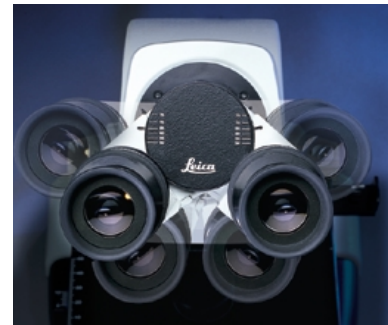


**Galileo Galilei**  
1564-1642

A mathematician, scientist and astronomer, Galileo's vision led him to adapt a telescope to view small objects. He is credited with inventing the first microscope.



Upgradeable to higher level optics



Adjustable for different users



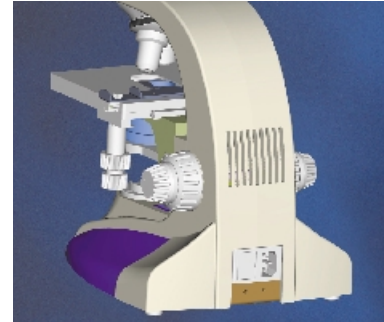


# Designed for Durability

## The vision to construct durable components.

From top to bottom, the DM E is built to last. It's also built for high performance, with the best quality materials going into every component. These materials are found in features like all glass optics, for sharp, high-contrast images; brass core focus controls, to provide comfortable feel and response; and a cast aluminum stand which minimizes vibrations for durability and fatigue-free, stable operation. Some of the DM E's other unique design elements include:

- The ball bearing and spring-lock design provides self-adjusting tension that prevents stage drift for the life of the microscope
- Tamper-proof objectives resist vandalizing and replacement costs
  - A rear-facing nosepiece that allows easy access to the sample and prevents colliding with objectives
  - A factory-set focus stop that prevents slide breakage
  - A built-in blue filter to prevent filter loss
  - Spring-loaded high-magnification objectives that prevent breaking sample slides
  - 360° rotatable viewing bodies with constant focus that easily facilitate instrument sharing and storage
  - A multi-function cord wrap that provides a convenient area to store the electrical cord, and locks cord into place to avoid misplacement



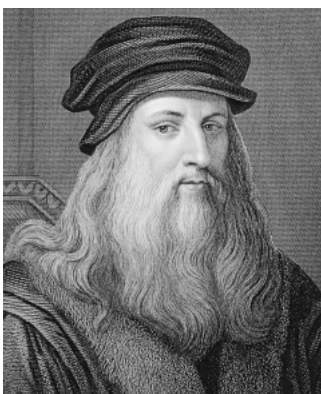
Engineered for durability



Cord wrap

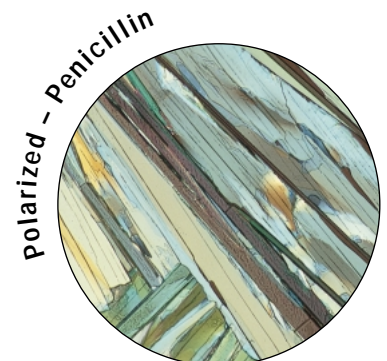
■ **EXCLUSIVELY LEICA**

Great discoveries begin with vision.

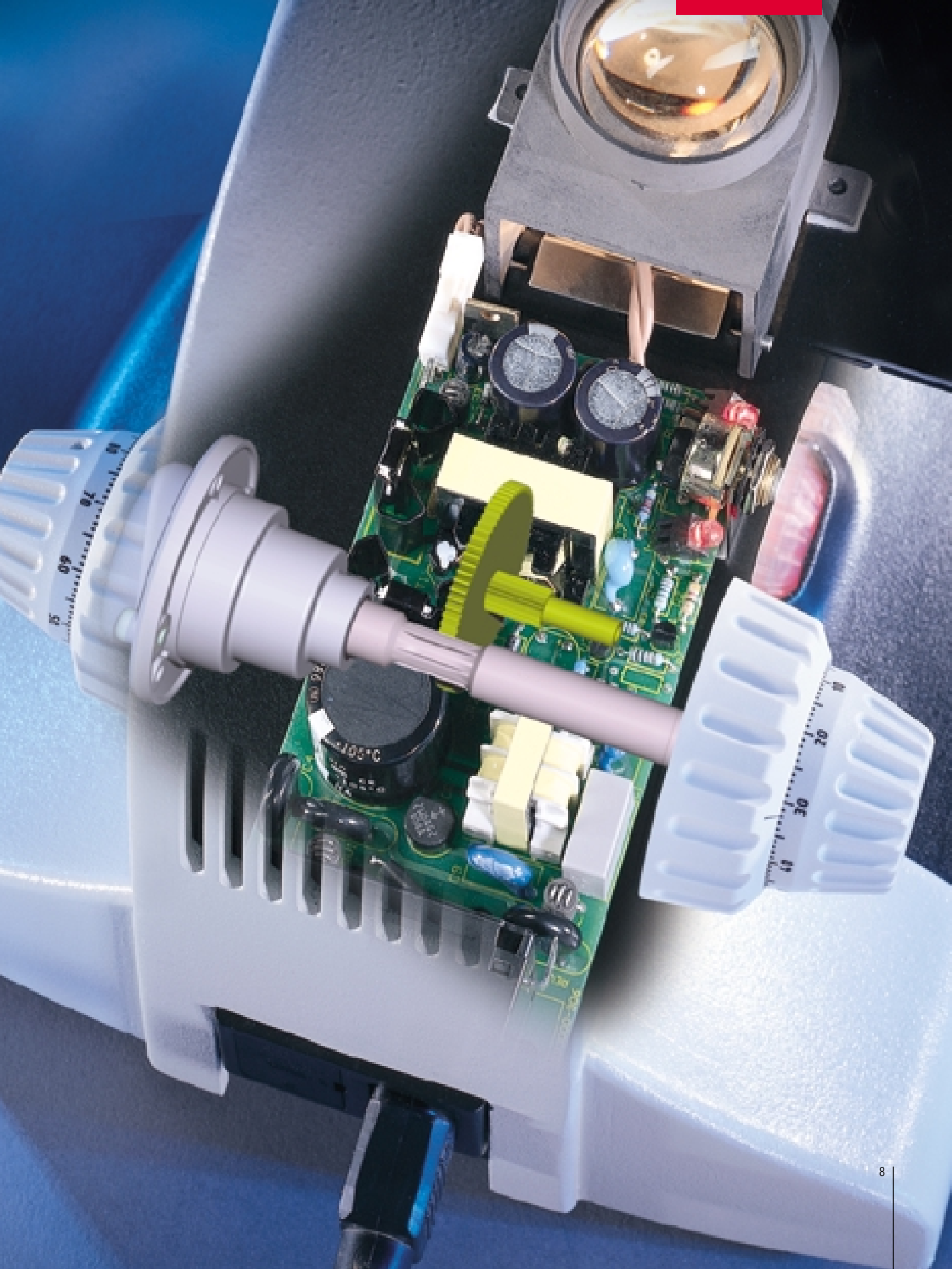


**Leonardo da Vinci**  
1452-1519

A world renowned artist and scientist, da Vinci's visionary observations and sketches pioneered the study of human anatomy, paving the way for future discoveries in the medical field.







# Comfortable Operation

## The vision to provide comfort and convenience.

A microscope is only as good as the user's ability to comfortably control it. To simplify usage, Leica has developed an advanced ergonomic design that includes features like easy-to-reach controls and a compact size. The DME also allows easy manipulation of specimens and cuts down on required desk and storage space. The focusing and stage systems offer the ultimate in ease of use and long-life performance. The DM Series focus system highlights the DME, with its no maintenance design. Other features include:

- Durable, solid brass core focus knobs create inertia for fatigue-free focusing
- Rotatable achromat objective sleeves so the magnification will always face forward
- 45° viewing angle for ergonomic comfort
- Rotatable viewing bodies give flexible alignment of viewing position and save space on storage
- Fine and coarse focus drives and stage drive are set low so arms and hands can rest comfortably to minimize necessary wrist movement
- Left- or right-handed mechanical stages
- Polymer handrests are not as cool as the surrounding metal for arm and hand comfort; dark color throughout hides scratches and dirt
- A calibrated stage provides easy recording of coordinates
- Removable stage fingers accommodate different size slides

## The vision to include all the extras.

The DM E's additional features contribute to a whole system of microscopy offered only by Leica. The fundamental design provides versatility and convenience with components for different applications, which make the DM E completely upgradeable and compatible with a wide range of Leica DM accessories. The microscope's stylish, approachable design is inviting and aesthetically pleasing.

Other features that complement the DM E include:

- Polarization, darkfield and phase contrast accessories
- Video and photomicrography accessories for documentation and classroom viewing
- Multi-viewing accessories for shared viewing and higher education teaching

■ EXCLUSIVELY LEICA



Ergonomically designed



Multi viewing systems



Leica video solutions

# Leica Microsystems – the brand for outstanding products

Leica Microsystems' mission is to be the world's first-choice provider of innovative solutions to our customers' needs for vision, measurement, lithography and analysis of microstructures.

Leica, the leading brand for microscopes and scientific instruments, has grown from five brand names with a long tradition: Wild, Leitz, Reichert, Jung and Cambridge Instruments. Leica symbolizes both tradition and innovation.

## Leica Microsystems – an international company with a strong network of customer services

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and representatives of Leica in more than 100 countries.

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Surgical  
Laser Scanning  
Photomicrography  
Video Microscopy  
Measuring Microscopes

## Advanced Systems

Image Analysis  
Spectral Photometry  
Automated Inspection Stations  
Measurement Systems  
Electron Beam Lithography

## Laboratory equipment

Tissue Processors  
Embedding Systems  
Routine- & Immunostaining  
Coverslippers  
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## Microtomes

Sliding, Rotary & Disc  
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