



# Leica DM LS2 and DM LB2

Life Science System Microscopes  
with New Ergonomic Concept

*Leica*  
MICROSYSTEMS

# Worldwide Customer Base

## Two universal specialists

The universal system microscopes Leica DM LS2 and DM LB2 can be used for all areas of application from higher education to routine laboratory jobs. The Leica DM LB2 is also ideal for research work.

## Modular design: save costs right from the start

Thanks to the modular design you can configure your microscope to suit your specific requirements; extra components can easily be retrofitted as you need them. Our sales partners will be happy to give detailed advice on configuration.

## First-class imaging quality and high level of convenience

However challenging your task, HC infinity optics, four objective classes, with over 100 objectives, eyepiece fields of view of either 20 or 22 (even up to 25 with the Leica DM LB2) and high-point eyepieces give you the scope for success.

## Perfected imaging techniques

In transmitted light you have the choice of brightfield, darkfield, phase contrast, oblique illumination, differential interference contrast (Leica DM LB2 only) and polarization contrast; in incident light brightfield and fluorescence.

## Excellent light conditions for your specimens

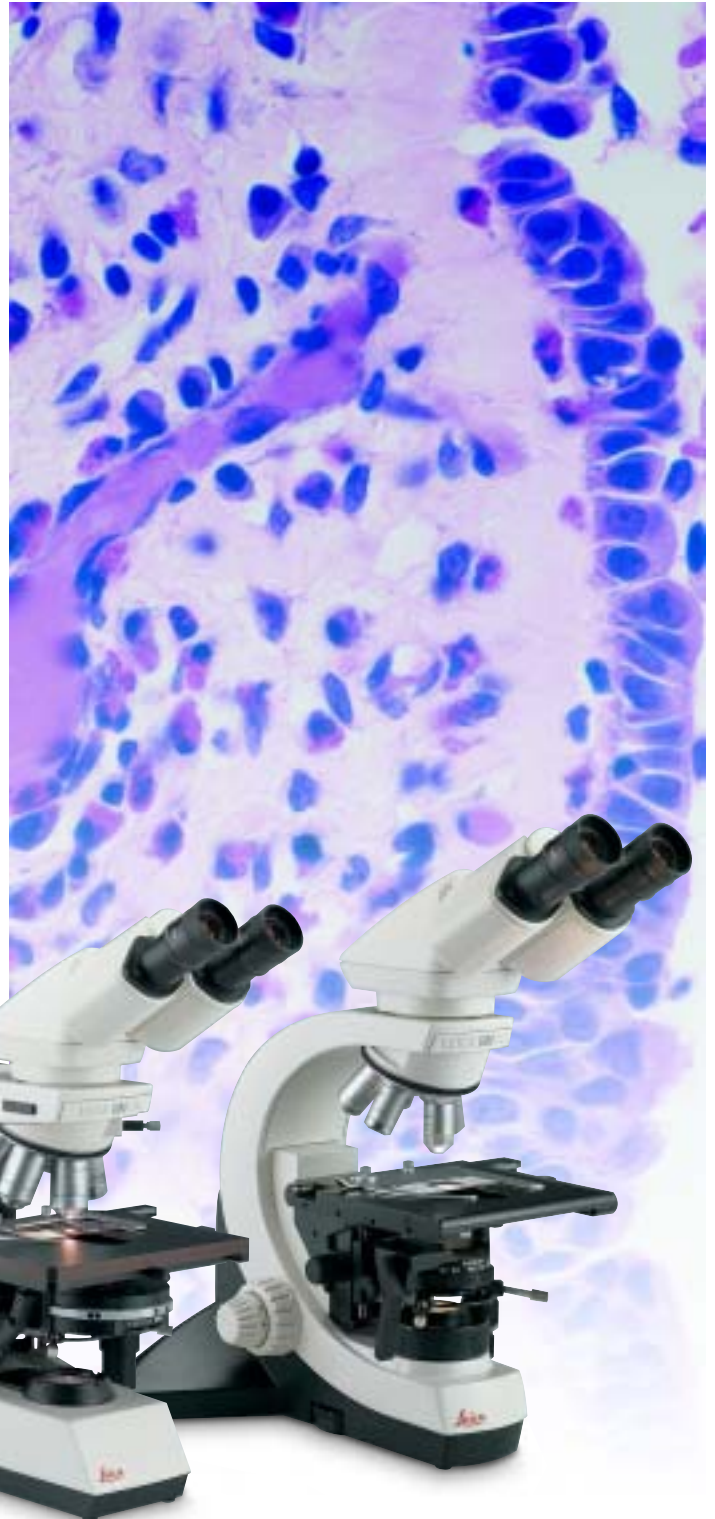
Koehler illumination and powerful 30 W halogen lamps (choice of 100 W with Leica DM LB2) enable optimum contrast and high resolution.

## Fully adaptable to your needs

The specimen stages are suitable for both right- or left-handed operation. The Leica DM LS2 features two-step focusing (fine-coarse); on request, the Leica DM LB2 comes with 3-gear focusing (fine-medium-coarse) for no extra charge.

## You need more equipment later? No problem!

As always with Leica Microsystems, there is a wide range of accessories for the Leica DM LS2 and DM LB2 system microscopes.



# Impressive Basic Configuration

## The basic stands - with Leica patent.

Both microscopes offer excellent stability for high-precision results. Vibrations are practically eliminated by the 3-point support, and the patented thermal compensation keeps focus drift to a minimum even after long periods of use.

## Illumination

- 12 V 30 W lamp with built-in power supply in the Leica DM LS2
- Three options for the DM LB2: 12 V 30 W non-stabilized/stabilized, or 12 V 100 W (stabilized)
- An essential requirement for perfect photomicrography and all TV techniques is stabilization to suppress spontaneous fluctuations in brightness.
- The field diaphragm (Koehler illumination) is integrated into the base of the stand; the base of the Leica DM LB2 also contains light adjustment and optional 3-position TL filter magazine.



Nosepiece with DIC prism slide

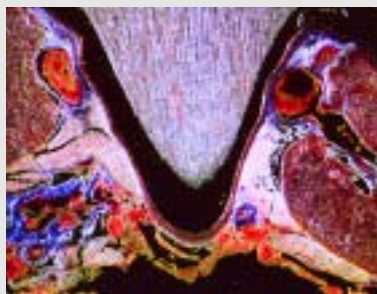
## Objective nosepiece

- Quintuple objective nosepiece on the Leica DM LS2
- Leica DM LB2: The sextuple objective nosepiece with M25 thread integrates a slot for the IC prism slide

Dimensions	Leica DM LS2	Leica DM LB2
Base, front-to-back:	267 mm	390 mm
Base, front-to-back including eyepieces:	395 mm	580 mm
Width:	290 mm	375 mm
Height:	430 mm	425 mm
Weight (TL, binocular tube)	approx. 9 kg	approx. 12 kg



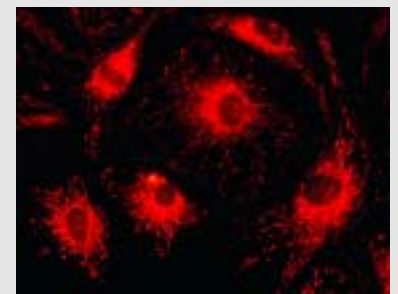
Incident light fluorescence device



Kidney, rat  
Transmitted light darkfield



Tradescantia  
Differential interference contrast



Mitochondria  
Fluorescence

# Individually Upgradable

## Stages

The stage brackets are integrated in the stand. They have a condenser holder and add-on x/y stage (110° rotation facility with the Leica DM LB2), choice of right- or left-handed operation, the highly wear-resistant ceramic finish of the Leica DM LB2 is also available for the Leica DM LS2 on request. For special applications we also offer the microscopes Leica DM LFS (fixed stage, focusing through objective nosepiece), Leica DM LP (polarization microscope with 360° stage rotation) and Leica DM LM (industrial microscope for samples up to 100 mm in size).

## Condensers

Except for special darkfield condensers, all condensers contain an iris aperture diaphragm for setting the illumination aperture. They are either fitted with slits for light ring slides (darkfield/phase contrast) or a multi-position light ring disk. Please ask for our full system brochure for more detailed information.

## Light filtering on the Leica DM LB2

A 3-position filter magazine module, a dual filter holder, a filter adapter (between the lamphousing 100 W and the stand) or individual filters are additionally available for transmitted light techniques.

## Tubes

There are 10 binocular and trinocular tubes to choose from, including three ergonomically designed tubes. The range of phototubes includes modules with two exits for combined TV/photo applications.

## Objectives and eyepieces

4 objective series with HC infinity optics:

- C PLAN planachromats
- N PLAN planachromats
- HC PL FLUOTAR® semiapochromats
- PLAN APO, PL APO planapochromats

All eyepieces are designed for viewing with and without eyeglasses and available for 20, 22 and, for the Leica DM LB2, 25 field of view for the standard 10x magnification. Other eyepieces: 12.5x, 16x and 25x.



Rotatable stage



Leica ICC A video camera



Leica DM LS2 with DC300 digital camera

# Our New Ergonomy Concept

**Wherever you look, you will see the ultimate in user convenience.** All key microscope controls are at your fingertips, enabling you to keep your hands in a natural and relaxed position. The objective nosepiece points towards the stand, giving you plenty of space for changing specimens as well as objectives.

## **New knobs and levers for optimum handling**

We have extended the condenser lever to make the condenser top even easier to switch. There are thicker and longer knobs for the coaxial drive, too – with rubber knobs for the focus knob.

## **Hours of fatigue-free work**

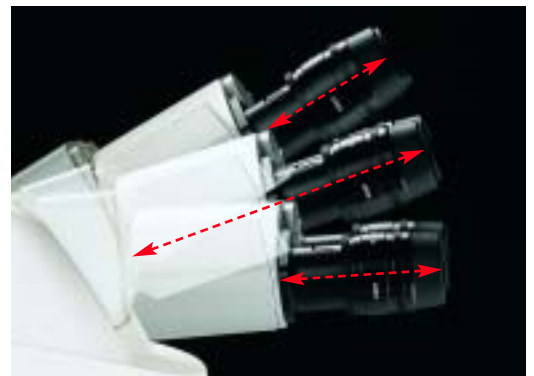
Ergonomy tubes with adjustable viewing angle from 0–35° and the completely new Advanced Ergotube AET22 with additional eyepiece extension guarantee strain-free microscopy. There's no need for you to adjust to the microscope – it adjusts perfectly to you!

## **Other accessory systems for upgrading**

- Magnification changer: 1x, 1.5x, 2x (in turret plate)
- Fluorescence device with over 25 filter systems, Leica DM LB2 Illuminator LRF with centerable aperture and field diaphragm, light stop and BG38 filter
- Light sources: either Hg 50/Hg 100, Xe 75 or Halogen 12 V/100 W
- Analog and digital camera systems for top-precision documentation with extensive software
- Discussion unit with illuminated pointer for up to 10 viewers
- Drawing device for tracing specimen structures on an image of drawing paper
- Slide overlay device for overlaying the specimen image with a transparency
- MACRODUALZOOM macro device allowing an object (e.g. macro object) to be observed and photographed together with or instead of the specimen
- Ergomodule for raising the tube position (30 mm)
- Specimen marker for permanent labelling of your samples

Further information can be found in our special brochures which we will gladly send you free of charge on request.

- Fully adaptable ergotube
- Sensitive stage movement
- Fast condenser top switching



Advanced ergotube with AET22 eyepiece extension



Reinforced knobs for coaxial drive



Extended condenser lever

# 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, developed from five brand names, all with a long tradition: Wild, Leitz, Reichert, Jung and Cambridge Instruments. Yet Leica symbolizes innovation as well as tradition.

The companies of the Leica Microsystems Group operate internationally in five business segments, where we rank with the market leaders.

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

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and representatives of Leica Microsystems  
in more than 100 countries.

### ● Microscopy

Our expertise in microscopy is the basis for all our solutions for visualization, measurement and analysis of microstructures in life sciences and industry.

### ● Specimen Preparation

We specialize in supplying complete solutions for histology and cytopathology.

### ● Imaging Systems


With confocal laser technology and image analysis systems, we provide three-dimensional viewing facilities and offer new solutions for cytogenetics, pathology and materials sciences.

### ● Medical Equipment

Innovative technologies in our surgical microscopes offer new therapeutic approaches in microsurgery. With automated instruments for ophthalmology, we enable new diagnostic methods to be applied.

### ● Semiconductor Equipment

Our automated, leading-edge measurement and inspection systems and our E-beam lithography systems make us the first choice supplier for semiconductor manufacturers all over the world.

 [www.light-microscopy.com](mailto:www.light-microscopy.com)

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