



Leica DM LS

System microscope for University,
Medical practice and Routine

Leica DMLS

The Leica DMLS is a modern microscope for university teaching and laboratory applications. Its special design offers unusually high stability and an optimal layout of all controls.

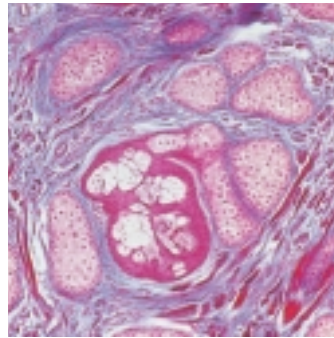
Other convincing features:

- Modular design – individual choice of configuration to suit different tasks and requirements
- Versatile application potential from university to medical practices or laboratories
- Built-in power supply for 12V/30W halogen lamp
- Right- or left-hand operation of specimen stage
- HC infinity optics, choice of 4 objective classes of over 100 objectives, either 20 or 22 mm eyepiece field of view; high-point eyepieces
- Ergonomy tubes *)
- Wide range of accessories

Our separate DML system brochure gives more detailed information on all available components.

Choose your own configuration to suit your application requirements easily and quickly using a PC and the "Configurator" software, assisted by our worldwide network of sales representatives (see back page of this brochure).

*) optional



Kidney; brightfield



Leica Design by Ernest Igl

Contrasting techniques

Brightfield (BF)
Darkfield (DF)
Phase contrast (PH)
Oblique illumination (OI)
Polarisation contrast (P)
Fluorescence (FL)

Basic stands

Vibration-damping design with 3-point support. You can rest your hands comfortably on the desk with the main controls still at your fingertips (specimen movement, focusing, adjustment of transmitted light lamp and field diaphragm), making workflow faster and more ergonomic.

Focusing is done with the proven 2-gear focus system (coarse-fine).

The 12V 30W halogen transmitted light illumination is built-in. The lamp is quickly and easily changed without tools and needs no adjustment.

The operating status (on/off) is clearly recognisable with the illuminated mains switch.

The field diaphragm required for Koehler illumination is permanently integrated in the base of the stand.

Bilateral controls for centring and adjusting the height of the condenser holder allow the condenser to be easily removed for cleaning, etc. without losing the centration setting.

There is also an accessory unit for incident light fluorescence.

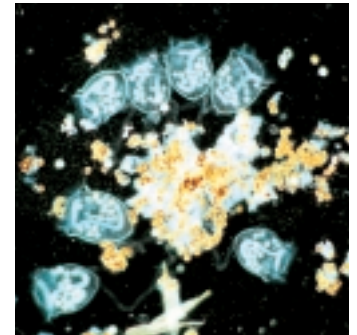
The quintuple objective nosepiece (M25 x 0.75) points towards the back of the microscope for easier access to and change of specimens and objectives.

Specimen stages

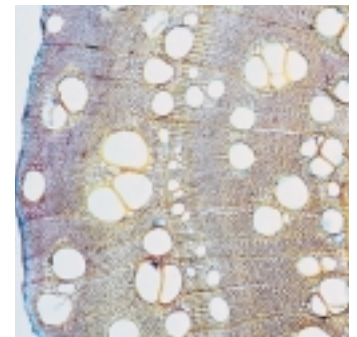
The x/y stage (you have a choice of left- or right-hand operation or the 45° heating stage) is permanently assembled to the stage bracket.

We also offer special microscopes from the DML range for specific applications:

- DMLB system microscope for life sciences
- DMLFS for use with a fixed stage, focusing via objective nosepiece
- DMLSP and DMLP Pol microscopes with 360° stage rotation
- DMLM for examining industrial materials up to a size of 100 mm



Drops of water; darkfield



Plant stalk; brightfield



Objective nosepiece pointing to the back, x/y stage with right-hand operation UCL condenser



Configuration for transmitted light/fluorescence and transmitted light

Condensers

We offer the following alternatives (see also system brochure):

CL/PH 0.90/1.25 OIL standard condenser: No switching of front lens for 4x-100x objectives, i.e. easier operation. With slot for DF/PH light ring slide (darkfield/phase contrast) and diffusing screen for use with 2.5x objective.

UCL 0.90/1.25 OIL standard universal condenser: Upgradable like the CL/PH, but with 5-position rotating disc for light rings (DF/PH) and adapter lens for 2.5x objective.

Both standard condensers are also available in the strain-free versions CLP/PH and UCLP for additional polarisation contrast (not for oil immersion).

Achr. aplan. condenser A 0.9 (P): Condenser top 0.9 can be swung out for 1.6x-5x objectives. Slot for DF/PH light ring slide.

Tubes

There are 9 different binocular and trinocular tubes altogether. These include 2 ergonomity tubes with viewing angles variable between 0-35°, a great advantage for long sessions of microscopy or when people of different heights use the same microscope.

Objectives and eyepieces

The new HC optics are Leica's 4th generation of infinity optics. There are four series to choose from:

- C PLAN standard achromats
- N PLAN planachromats
- PL FLUOTAR® semiapochromats
- PL APO planapochromats

All the eyepieces are designed for use with or without eyeglasses and available with fields of view 20, 22 and 25 for the standard 10x magnification. Other eyepiece magnifications: 12.5x, 16x and 25x.



CL/PH, UCL and achr. apl. 0.9 (P) condensers



Variable viewing angle, ergotube



Leica high performance objectives C PLAN, N PLAN, PL FLUOTAR und PL APO

Dimensions of the Leica DM LS

Base of stand, front-to-back	267 mm
Base of stand plus eyepieces, front-to-back	395 mm
Width	290 mm
Height	430 mm

Weight

Transmitted light configuration, binocular tube	ca. 9 kg
---	----------

Accessory systems

Fluorescence illuminator LSF with over 15 filter systems (combination of reflector, excitation and barrier filters).

Ergomodule: Use of one or more spacers to raise the tube (by 30 mm each) to a more comfortable position.

Magnification changer with factors 1x, 1.5x and 2x (in nosepiece turret) for stepwise alteration of the total magnification.

Tracing device: Specimen structures can be traced on a piece of paper situated next to the microscope and reflected into the microscope image.

Discussion units for 2, 3 and 5 people for simultaneous viewing of the specimen with an illuminated pointer

Slide overlay device: Transparencies with scales, logos or comparison images, etc. can be optically overlaid on the microscope image.

Macro device: (MACRODUAL ZOOM): An object situated next to the microscope (table, picture, macro specimen) can be observed or photographed instead of or together with the ordinary specimen.

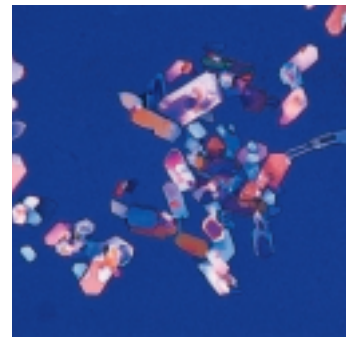
TV microscopy: with adapter systems 0.32x, 0.5x, 0.63x, 1x or zoom.

Photomicrography: Easy adaption of SLR camera, semiautomatic or fully automatic photomicro systems for 35 mm and large format (see special brochures).

Object marker: Screwed into the nosepiece instead of an objective. Circles of different diameters can be engraved in the coverglass with a rotatable diamond tip.

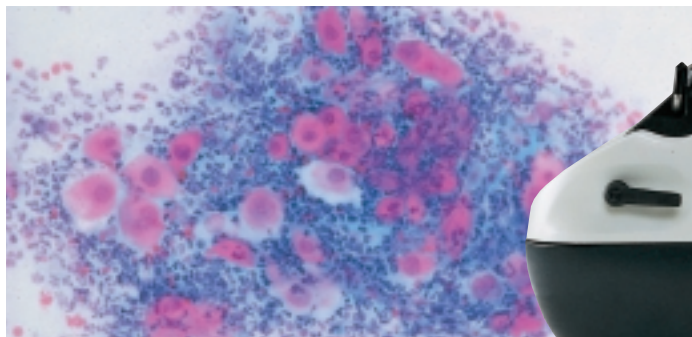


Fluorescence illuminator



Honey; polarised light

Cell smear; brightfield



Leica Microsystems – the brand for outstanding products

Leica Microsystems Mission is to be the world's first-choice provider of innovative solutions to our customer's 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

Australia:	North Ryde/NSW	Tel. +61 2 9886 3000	Fax +61 2 9888 7526
Austria:	Vienna	Tel. +43 1 495 44 160	Fax +43 1 495 44 1630
Canada:	Willowdale/Ontario	Tel. +1 416 497 2860	Fax +1 416 497 8516
Denmark:	Herlev	Tel. +45 4454 0101	Fax +45 4454 0111
Finland:	Espoo	Tel. +358 9 6153 555	Fax +358 9 5022 398
France:	Rueil-Malmaison Cedex	Tel. +33 1 473 285 85	Fax +33 1 473 285 98
Germany:	Bensheim	Tel. +49 6251 136 0	Fax +49 6251 136 155
Italy:	Milan	Tel. +39 0257 40 1955	Fax +39 0257 40 3273
Japan:	Tokyo	Tel. +81 3 3292 9833	Fax +81 3 3292 9777
Korea:	Seoul	Tel. +82 25 146 543	Fax +82 25 146 548
Netherlands:	Rijswijk	Tel. +31 70 3198999	Fax +31 70 3905659
Norway:	Oslo	Tel. +47 2279 0400	Fax +47 2279 0429
Portugal:	Lisbon	Tel. +351 1 381 47 60	Fax +351 1 387 46 68
Republic of China:	Hong Kong	Tel. +852 2 564 6699	Fax +852 2 564 4163
Singapore:		Tel. +65 779 7823	Fax +65 773 0628
Spain:	Barcelona	Tel. +34 93 494 9530	Fax +34 93 494 9532
Sweden:	Sollentuna	Tel. +46 8 6254 545	Fax +46 8 6254 510
Switzerland:	Glattbrugg	Tel. +41 1 809 3333	Fax +41 1 810 7937
United Kingdom:	Milton Keynes	Tel. +44 1908 246246	Fax +44 1908 609992
USA:	Deerfield/Illinois	Tel. +1 847 405 0123	Fax +1 847 405 0147

and representatives of Leica
in more than 100 countries.

Microscopes

Compound
Stereo
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
Refractometers

Microtomes

Sliding & Rotary
Cryostats
Ultramicrotomes
EM Sample Preparation



Leica Microsystems Wetzlar GmbH
Ernst-Leitz-Straße
D-35578 Wetzlar (Germany)

Tel. +49 (0)6441-290
Fax +49 (0)6441-292599
<http://www.leica.com>