Leica DM1000
Leica DM2000
Leica DM2500
Leica DM3000

MYcroscopy – As Unique As You Are!

Microscopy tailored to you

Leica
MICROSYSTEMS

Microscopy Tailored to You!

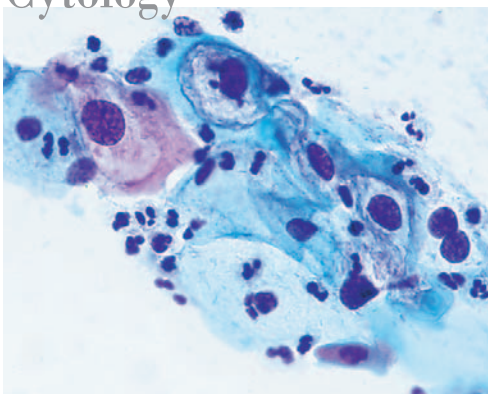
MYcroscopy: Designed to adapt to an individual user's daily routines
With the new Leica DM Microscopes, Leica Microsystems introduces a series of microscopes that represent the best in their class. Leica's product development team has turned many innovative ideas into reality to create a microscope that optimally adapts to the physique and workflow of the user. This ensures that work at the microscope will not only be efficient, but also comfortable. All Leica DM Microscopes are completely adjustable with just a few hand movements to adapt to individual ergonomic characteristics and working methods. In this way, effortless work combines with high-performance, and the user's needs are taken into account down to the smallest detail. This is what makes the new Leica DM Series one of the most ergonomic microscope lines on the market today – and your first choice if you value fatigue-free work; fast, reliable results; and excellent cost-effectiveness – the benefits of a microscope tailored to an individual user's routines.

MYcroscopy: Specifically configured for universal applications
The new Leica DM Microscopes are designed for biological, medical, and clinical laboratories and are specifically configured for individual applications.

- The Leica DM1000 satisfies all requirements for ergonomic use as well as optical brilliance, and is ideal for clinical laboratory applications.
- In addition, the Leica DM2000 features a sophisticated focus mechanism with five focus functions – either 2-gear or 3-gear focusing, with torque adjustment and adjustable stage height stop.
- The Leica DM2500 also offers powerful 100 W illumination and is particularly well-suited to the fields of pathology and biomedical research that require specialized contrast methods such as differential interference contrast (DIC).
- With its unique ergonomic concept, the intelligent automation of the Leica DM3000 supports greater efficiency and enhanced user comfort. The microscope is designed for use in clinical laboratories as well as all other biomedical routine and research applications.

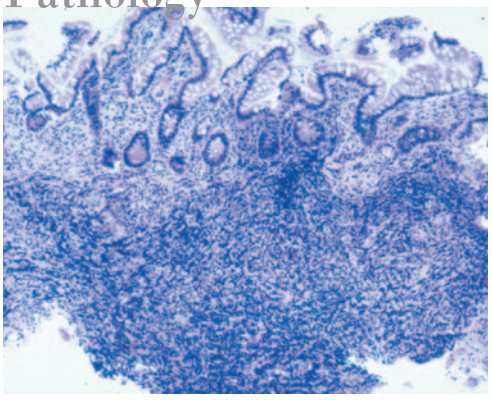
Optionally, all four versions can be equipped with fluorescence contrast. The DM Microscope Series can be uniquely tailored to the specific laboratory application.

Cytology



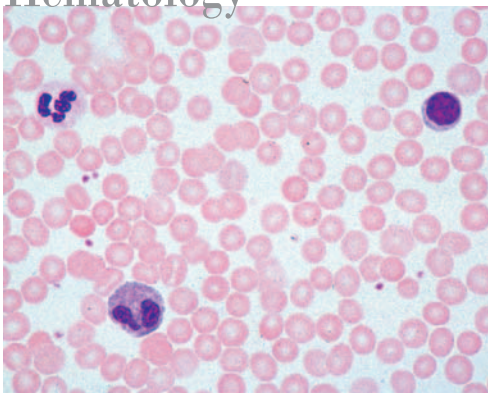
High-performance HI PLAN 10x CY SL screening objective, light intensity synchronized with HI PLAN 40x.

Pathology

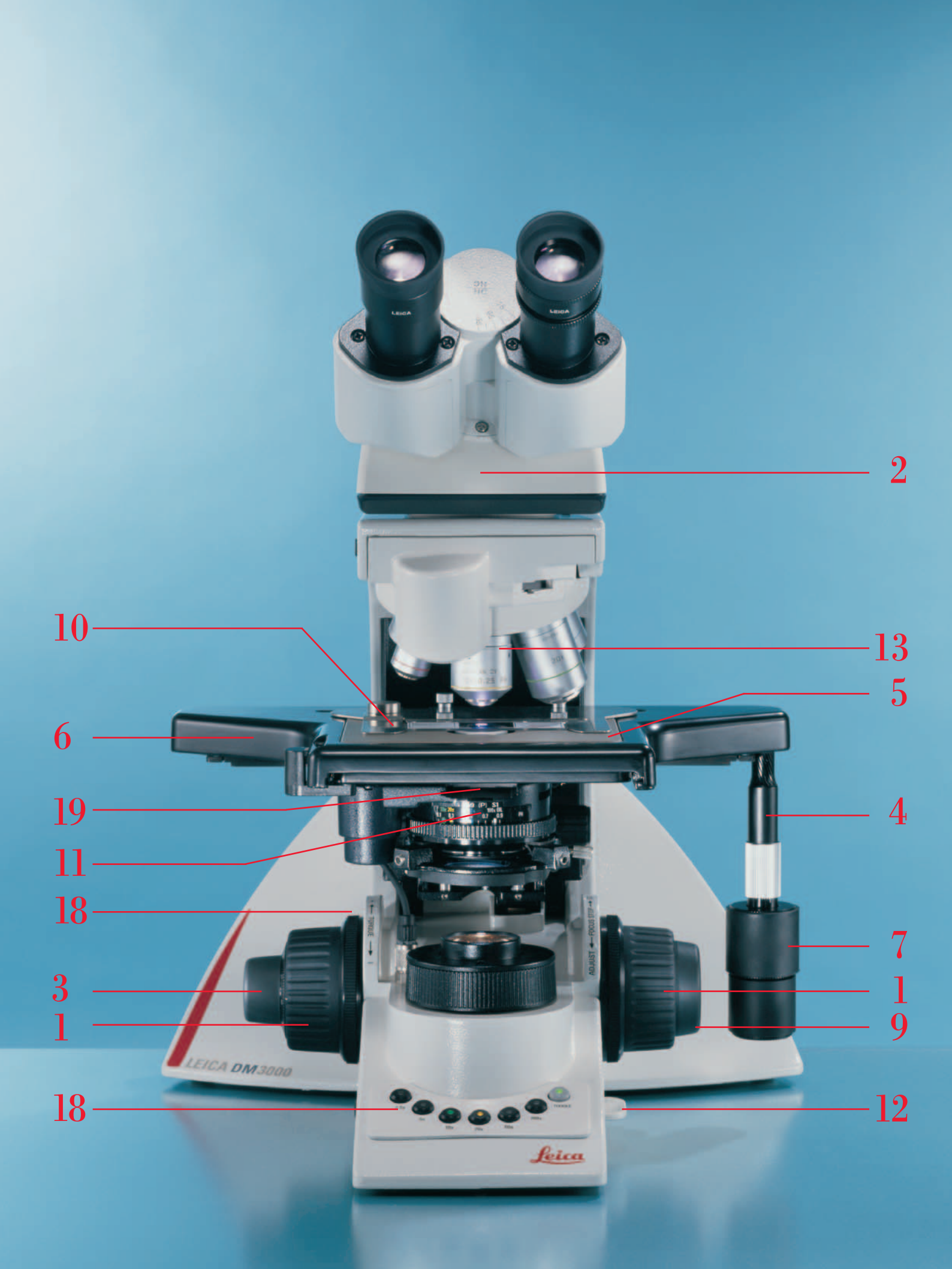


Ultra-hard ceramic surface of the stage ensures long life even under demanding treatment. The 1.25x objective provides a clear overview.

Hematology



Easy, single-hand operation (for x/y/z) when simultaneous counting or note-taking is required.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LEICA DM3000
Leica

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Effortless Microscopy is a Question of Comfort

With the new Leica DM Microscope Series, Leica Microsystems has achieved its goal of making routine work at the microscope as comfortable and effortless as possible. Only a few hand movements are required to adjust the microscope to the user's seated height, head posture, arm length, and hand size. This provides reliable protection from muscular tension, poor posture, and long-term detrimental health effects. Microscopy has never been more comfortable and pleasant.

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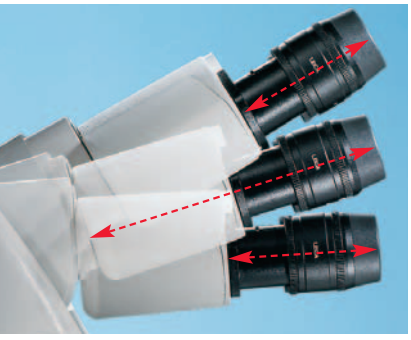

1. Height-adjustable Focus Knobs

A technological first in microscopy!
No two hands are alike and the Leica DM Series makes sure that every hand can rest on the focus knobs in a completely relaxed manner. The height of the focus knobs can be adjusted quite easily to precisely fit an individual user's hand. This prevents hand, arm, and shoulder tension and ensures a comfortable and fatigue-free grip – without the need for additional arm supports.

2. Adjustable Tubes

Relaxed head posture
The arrangement of the tubes is very important to promote good posture while sitting at the microscope. The Leica DM Series offers a wide range of products for individual tube settings. Choose from a new tube with an ergonomic viewing angle of 15° or adjustable Variotubes for a relaxed head position while viewing. This prevents neck and back muscle strain, and shoulder and lower neck muscles remain free from tension, even over lengthy work periods. The optional ErgoLift even allows the viewing height and angle of the stand as a whole to be adjusted as required.

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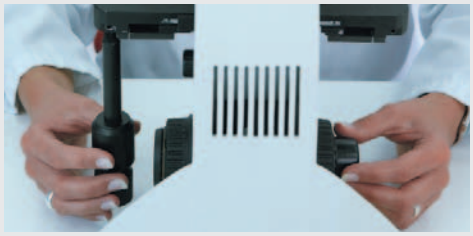
3. True Symmetrical Operation

Comfortable shoulder posture prevents strain
The stage drive and focus knob are arranged at the same height on the microscope to form a straight line. Also, the focus knob and stage drive are an equal distance from the user. Because of this symmetrical arrangement, both hands are positioned in a straight line during work and the shoulders automatically assume a right-angle position to the axis of the body. The user sits at the microscope in a straight and relaxed posture, and no longer needs to contort his or her shoulders and spinal column into an awkward, turned position.



4. Fast Changeover from Right- to Left-hand Operation

One-of-a-kind in microscopy!
You can set up the Leica DM Microscopes for either right-handed or left-handed operation as the default. Especially when alternating users on one microscope, this feature is greatly beneficial.

5. Unique Ultra-hard Surface

Designed to last a lifetime
The stage's surface is made of a new ceramic material that is harder than ever before. This makes the stage resistant to scratches and chemicals, and completely durable for even the toughest usage for years on end. The light beige color of the ceramic material provides the ideal background on which to identify specimens by their outline and coloring before they are placed under the objective.

6. New Design

More work space
The new ergonomic stage features well rounded edges and corners. The entire microscope is compactly designed, with no protruding parts. Another advantage of the compact design is the additional work space that is gained around the microscope.

7. Ergonomic Control Knobs

Comfort is at hand
As an alternative to the standard knobs, special rubberized knobs are available for the focus drive. These ErgoKnobs provide a comfortable, secure grip. For the knobs of the x-y drive, replaceable sleeves made of soft, yet firm rubber are recommended. The sleeves are included with the stage drive and are simply pulled over the knobs to provide the feeling of sensitive control.

8. Comfortable ErgoLift

Variable height adjustment
To adjust the height of the entire microscope in a simple and stable manner, the DM1000, DM2000, DM2500 and DM3000 can be equipped with the ErgoLift – a special adjustable plate that adjusts the microscope to the seated height of each user with just a few hand movements.

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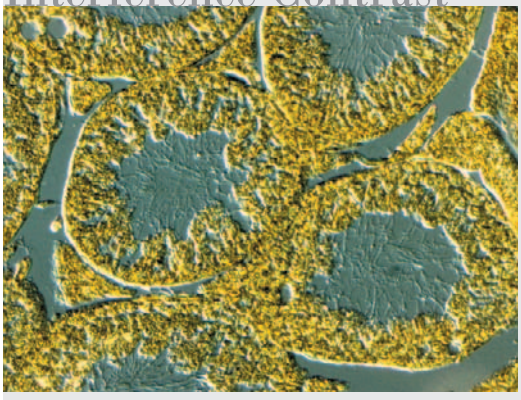
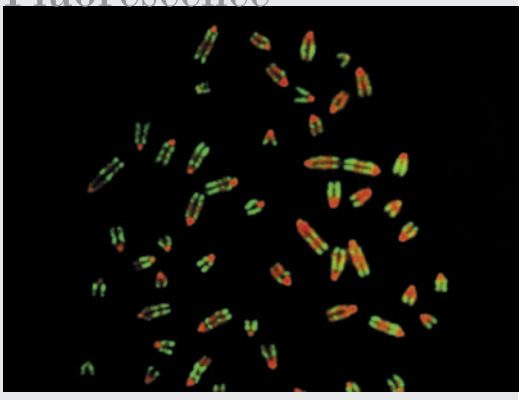
Differential Interference Contrast



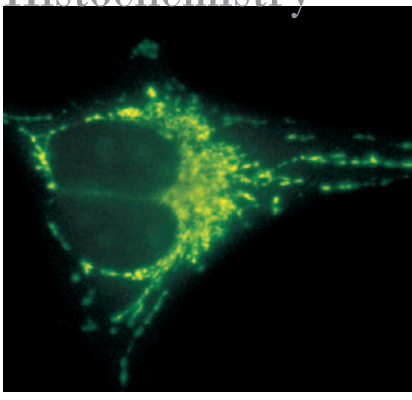
Optical contrast methods like Darkfield, Polarization, Phase or DIC provide brilliant images.

Fluorescence



High intensity fluorescence with zero pixel shift for all kinds of probes and labels. 5 positions are available.

Histochemistry



Best contrast for auto-immune reactions. The brightness can be reduced with the integrated N4 filter.

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Elegant Design for Efficient, High-quality Work

More performance, higher throughput, and better workflow: Three important benefits, one performance requirement. Today's laboratories have to work at maximum efficiency. This requires instruments with well-engineered functions down to the smallest hand movements, which allow users to work quickly and smoothly. The new Leica DM Series is thoughtfully and elegantly designed to provide these benefits.

9. Simultaneous Focus and Stage Control

One hand at the microscope will suffice
The focus and stage can be adjusted with just one hand. This allows faster, better flowing procedures. While one hand (left or right) moves and focuses the specimen, the other hand is free to take notes or operate counters, for example.

10. New Slide Holders

More ergonomic and efficient work
Leica's new slide holders help to make microscope work easier. The slide holders are constructed so that specimens can be changed with one hand – and just one hand movement. The specimen is inserted into the holder and removed from it using just two fingers. This ensures a fast, fluid workflow.

11. Premiere: Color-coded Diaphragm Settings

Faster identification and adjustment
The scale of the aperture diaphragm on the condenser features color-coded markings. The markings correspond to the standardized color codes of the objectives. This allows the user to identify, at a glance, the diaphragm that is the best match for the currently selected objective, and to configure the settings quickly and correctly.

12. Easy Lamp Replacement

Fast maintenance
The lamps can be replaced easily and in very little time. Just remove the small plug socket from the side of the microscope, replace the lamp, and reinsert the socket into the microscope – and you're done. The microscope does not need to be moved out of position to replace the lamp.

Everything the Eye Desires: Optical Brilliance

Leica microscopes are well-known for excellent optics. Users can expect both excellent image quality from the Leica DM Series and exceptional viewing comfort. The DM Microscopes allow optical settings to be configured quickly and reliably, which prevents eyestrain, while ensuring fatigue-free microscopy.

13. The New Optics

Brightness, brilliance, contrast
The Leica DM Series features spectacular optical quality – every time you look through the microscope. Beautiful brilliance and razor-sharp contrast await the viewer. Leica Microsystems' high-quality optics allow even the finest structures to come into clear view, which makes identification easy. Leica has developed the new HI PLAN Planachromat objective series, which offer improved flattening and color correction. The HI PLAN 10x objective is particularly well-suited to clinical applications such as cytology, and has a large working distance of 12 mm, which allows specimens to be marked at 10x magnification.

14. Brightness-matched Objectives

No need to adjust light intensity
Leica's new HI PLAN SL (Synchronized Light) objective series with 4x, 10x and 40x magnification is particularly easy on the eyes. These objectives are matched to each other so that the bright-ness always remains constant for the user, regardless of the magnification selected. This eliminates the need to use the brightness adjustment continuously and prevents rapid eye fatigue due to large fluctuations in light intensity. The preferred color impression remains the same.

15. New HI PLAN CY Objective

Special objective
Leica's special Planachromat HI PLAN CY 10x/0.25 objective features excellent field flattening and color correction, while offering a long working distance of 12 mm for clinical applications. Also available in the SL version.

16. Overview Objective

1.25x objective – for the first glance
Especially for clinical microscopy, Leica offers a screening objective with 1.25x magnification. Specimens can be surveyed and recorded quickly and easily.

17. The New Fluorescence Axis

Five filter block positions provide greater flexibility
Leica's stable, high-quality fluorescence axis features five filter block positions. The user can rapidly switch back and forth between them. Leica's extensive range of filters can be used on a wide variety of fluorochromes. Leica's filter blocks feature "Zero Pixel Shift", which ensures that there is no image shifting when changing filter blocks and so allows images to be correctly superimposed.

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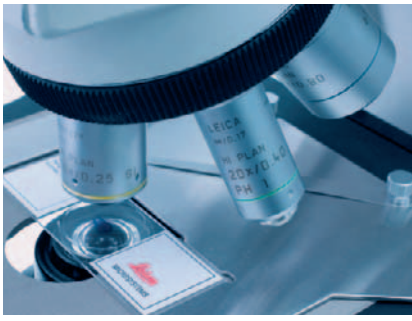

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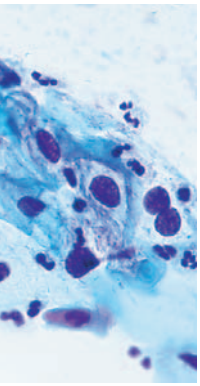

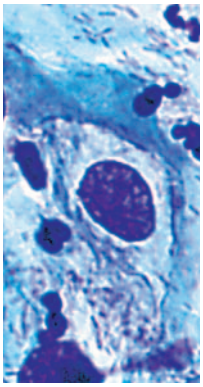

Intelligent and Innovative: The New, Automated Leica DM3000

Even faster, more comfortable, and more efficient: the new Leica DM3000 combines operating convenience and ergonomic design. The automated version optimizes work processes while retaining its proven adaptation to a user's physical requirements. With its unique toggle mode and automatic condenser, the Leica DM3000 provides even greater speed and precision while maintaining reliability in all biomedical routine and research applications.

18. Change Objectives at the Touch of a Button

Eyes remain focused and hands remain in place

The motorized objective turret permits magnifications to be changed in only half a second. The turret is controlled by two buttons conveniently located behind the focus knobs. The additional toggle mode is a unique feature of the new DM3000: any two of the six objectives can be assigned to it. The remaining four objectives remain available at the touch of a button whenever a different magnification is required. Six buttons on the base of the microscope are assigned to the six objectives. An optional footpedal is also available for the microscope, which frees up the user's hands for other activities such as note-taking.

19. Automated Condenser Head

More ergonomic and efficient work

The motorized condenser head automatically swings out when using objectives with less than 10x magnification. It swings back into position when a higher magnification is selected. The microscope knows the optimal condenser position for every objective. Should special applications make it necessary, the user can also adjust the position of the condenser individually by assigning the condenser position to the control buttons on the sides, behind the focus knobs. The motorization accelerates work processes and one more manual action thus becomes superfluous.

20. Automatic Light Intensity Adjustment

Optimal light at any magnification

The microscope automatically adjusts light intensity to suit the given magnification whenever the objective is changed. The last-used light values are stored for each objective. The brightness which avoids remains constant for the user, which avoids sharp changes in light intensity for extended work sessions without eyestrain.

Easy Image Archiving

Leica Image Organizer software, with an integrated database, is an easy-to-use tool for image archiving, particularly for clinical applications, and is also ideal for any field in which simple image storage and search options are required.

Save and Retrieve Data with Just One Click

With the Leica Image Organizer, a user can save information about a image including microscope setting, camera setting, specimen, and patient. All of the data is linked to the image and can then be retrieved at the touch of a button.

Easy Storage and Search Options

Using the Leica Image Organizer, images can be saved under multiple categories. A sophisticated search function supports the use of various criteria to quickly find images and data.

Overview or Detailed Image Viewing

The Leica Image Organizer displays images either in an overview format in the gallery or as single exposures with the magnification function. This way, the user can quickly and reliably find the desired images in the gallery. The magnification function then reveals the finest image details in razor-sharp clarity.

New Imaging Module

Special imaging module, which can be placed between the stand and any of the tube from Leica range, provides flexible and upgradeable solution for adaptation of the cameras. It offers the advantage of integrated and centrable C-mount as well as the 100%:0% beam splitting possibilities.

Specifications

* New unique features

			DM1000	DM2000	DM2500	DM3000
Stand	**Power supply**	Built-in power supply 30 W stabilized / 90–250 V automatic switching	x	x		x
		Built-in power supply 100 W stabilized /90–250 V automatic switching			x	
	Koehler	Variable Koehler illumination	x	x	x	x
		Prefixed Koehler (option)	x			
	Tubes	Ergotube 15° viewing angle FOV 22*	x	x	x	x
		Standard tube 30° viewing angle FOV 22	x	x	x	x
		Ergo tilting tube FOV 25 (long)	x	x	x	x
		Ergo tilting tube FOV 22 (short)	x	x	x	x
		Advanced ergo tilting tube FOV 22	x	x	x	x
	Phototubes	Trinocular ergo tilting tube 50/50 FOV 22	x	x	x	x
		Trinocular ergo tilting tube 100/100 FOV 25	x	x	x	x
		Trinocular ergo tilting tube 50/50 FOV 25	x	x	x	x
		BDT25 0/50/100 dual port option FOV 25	x	x	x	x
		EDT22 50/50 FOV 22	x	x	x	x
	Imaging Module	Imaging Module 100%:0%	x	x	x	x
	Ergomodules	30 mm	x	x	x	x
		60 mm	x	x	x	x
Operation	**Focus**	Height adjustable focus knobs*	x	x	x	x
		2 gear focusing: coarse, fine, focus-stop	x			
		5 focus functions: 2- or 3-gear focusing, focus-stop, adjustable torque*		x	x	x
	Objective turret	5-fold	x			
		6-fold		x	x	
		7-fold		x	x	
		Automatic 6-position objective turret with additional toggle mode*				x
	Objective	Brightness synchronized objective series 4x, 10x, 40x*	x	x	x	x
	Light intensity adjustment	Automatic light intensity adaptation for varying magnifications				x
	Stage	Ceramic-coated (ultra hard ceramic)*	x	x	x	x
		Left/right (exchangeable by user)	x	x	x	x
		Rackless	x	x	x	x
		Telescopic drive	x	x	x	x
		Adjustable torque	x	x	x	x
		Rotatable / stage for two slides (option)	x	x	x	x
TL-axis	**Illumination**	12 V/30 W halogen lamp easy bulb-exchange (with special drawer)*	x	x		x
		12 V/100 W halogen lamp with lamp house			x	
	Filtering	Flip-out blue filter	x	x	x	x
		Filter holder for 2 filters	x	x	x	x
		Filter magazine for 3 filters	x	x		x
		Built-in filter magazine for 3 filters			x	
	Condenser	– Standard condenser CL/PH color coding* (2.5x–100x)	x	x	x	x
		– Achr. Apl. Flip top condenser color coding* (1.25x–100x)	x	x	x	x
		– Automated Achr. Apl. Flip top condenser with color coding (1.25x–100x)*				x
		– Universal condenser UCL BF/Phase/DF	x	x	x	x
		– Universal condenser UCA BF/Phase/DF/DIC		x	x	x
	Contrast Methods	BF	x	x	x	x
		DF, PH, POL	x	x	x	x
		DIC		x	x	x
Fluo-axis	**Illumination**	50 W Hg	x	x	x	x
		75 W Xe	x	x	x	x
		100 W Hg	x	x	x	x
		12 V/100 W halogen lamp	x	x	x	x
	Filter cube changer	Slider with 3 positions for filter cubes	x			
		5-position filter cube turret		x	x	x

Leica Design by Christophe Apothéloz

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.

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.

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

Microscopy Systems

Our expertise in microscopy is the basis for all our solutions for visualization, measurement and analysis of microstructures in life sciences and industry. With confocal laser technology and image analysis systems, we provide three-dimensional viewing facilities and offer new solutions for cytogenetics, pathology and materials sciences.

Specimen Preparation

We provide comprehensive systems and services for clinical histo- and cytopathology applications, biomedical research and industrial quality assurance. Our product range includes instruments, systems and consumables for tissue infiltration and embedding, microtomes and cryostats as well as automated stainers and coverslippers.

Medical Equipment

Innovative technologies in our surgical microscopes offer new therapeutic approaches in microsurgery.

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.

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