



Leica DM1000
Leica DM2000
Leica DM2500

MYcroscopy – As Unique As You Are!
Microscopy Tailored to You

Leica
MICROSYSTEMS

Microscopy Tailored to You!

MYcroscopy: Designed to adapt to the 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 the individual user's routines.

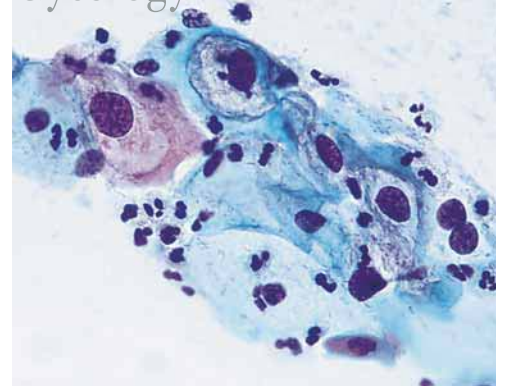
MYcroscopy: Specifically configured for universal applications

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.
- The Leica DM2000 offers a sophisticated focus mechanism with a choice of either 2-gear or 3-gear focusing, with torque adjustment and adjustable stage height stop.
- The Leica DM2500 (in addition to the above features) offers powerful 100W illumination and is particularly well-suited to the fields of pathology and biomedical research, which require contrast methods such as Differential Interference Contrast (DIC).

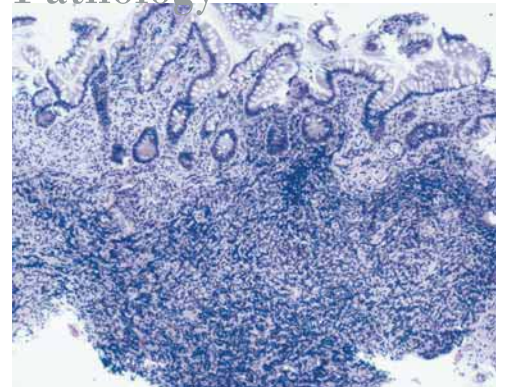
Optionally, all three versions can be equipped with fluorescence contrast. The DM Microscope Series can be uniquely tailored to the specific laboratory application.

Cytology



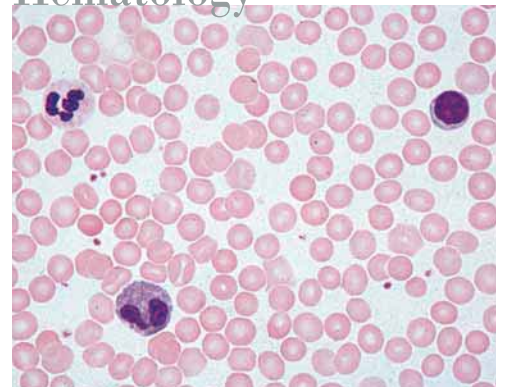
High-performance HI PLAN 10x CY SL Screening objective synchronized in light intensity with HI PLAN 40x

Pathology

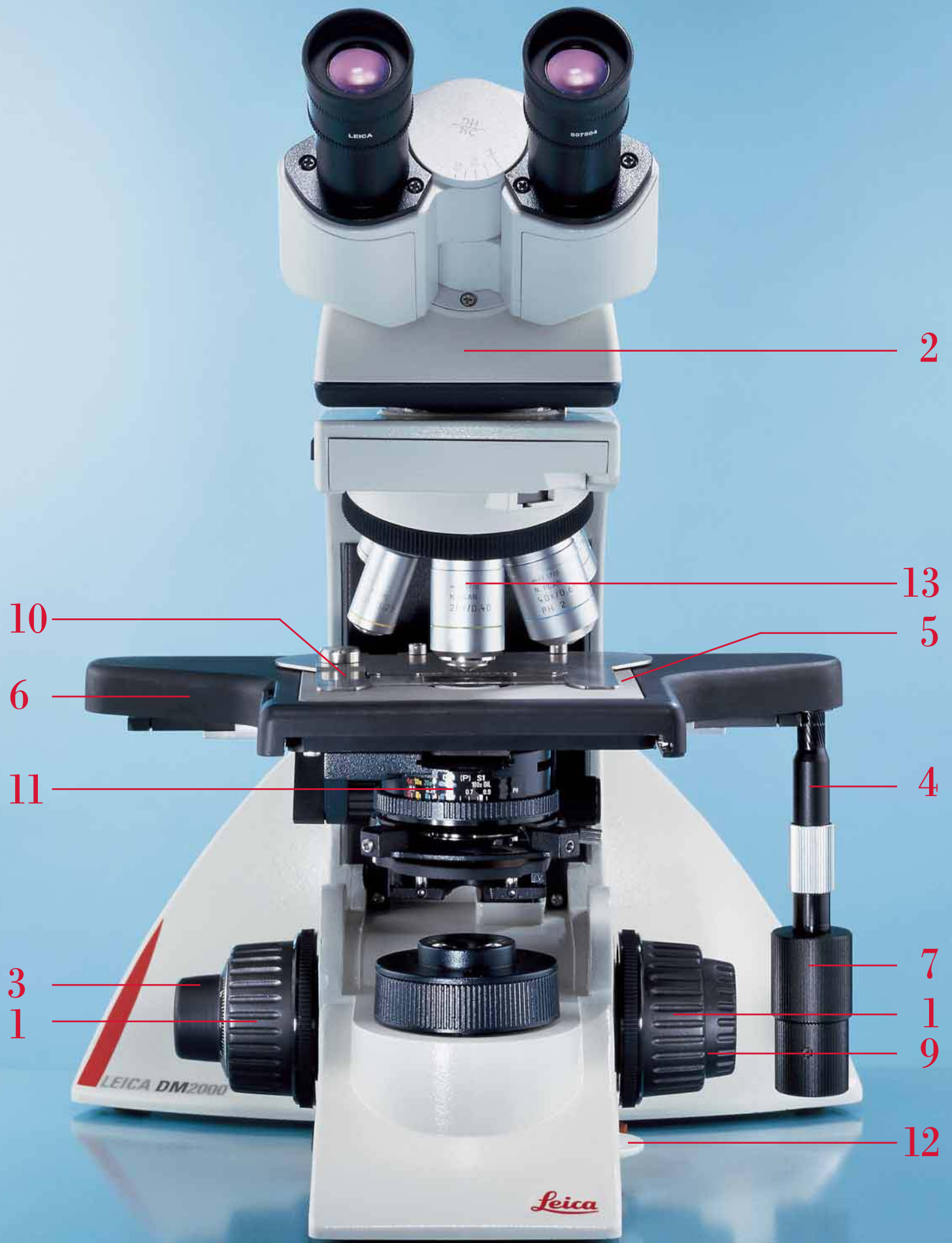


Ultra-hard ceramic stage surface ensures long product life even under hard treatment. The 1.25x objective provides a clear overview.

Hematology



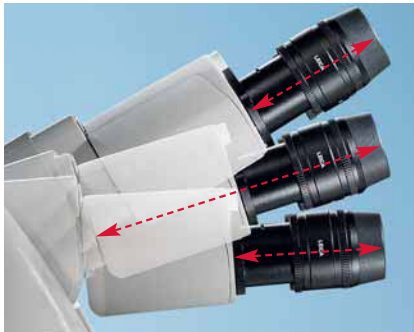
Easy single-hand operation (for x/y/z) when simultaneous counting or note-taking is required



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Effortless Microscopy is a Question of Comfort

With the new Leica DM Microscope Series, Leica Microsystems has reached 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.

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 the 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

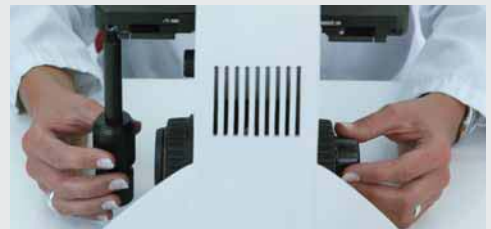
Relaxed head posture

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 of 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.

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 a 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, the 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 and DM2500 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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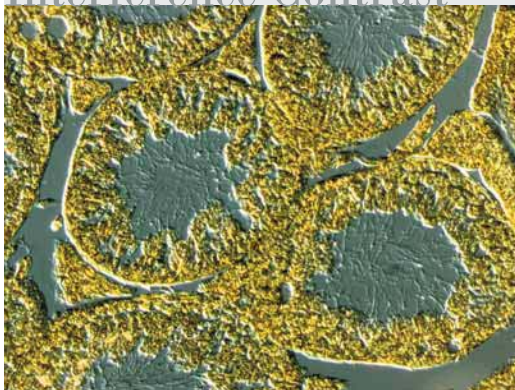
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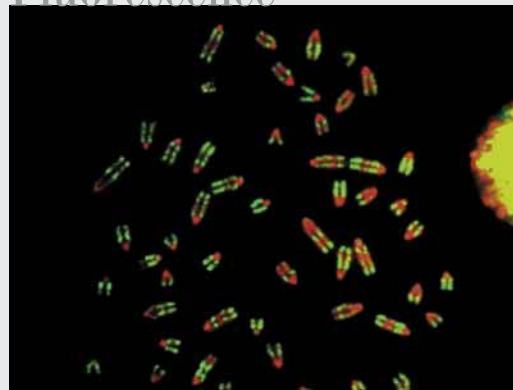


Differential Interference Contrast



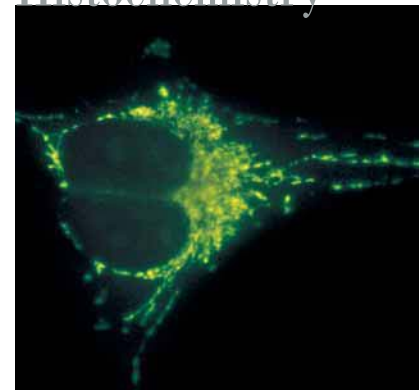
Not only for research, optical contrast methods like Dark-field, Polarization, Phase or DIC provide brilliant images.

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 and 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.

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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 quicker, better flowing procedures. While one hand (left or right) moves and focuses the specimen, the other hand is free to take notes or operate counting mechanisms, for example.

11. Premiere: Color-coded Diaphragm Settings

Quicker 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.

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10. New Slide Holder

More ergonomic and efficient work

Leica's new slide holder helps 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.

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.

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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 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 longer need to adjust light intensity

Leica's new HI PLAN SL objective series with 4x, 10x and 40x magnification is particularly easy on the eyes. These objectives are matched to each other so that the brightness 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 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 (Synchronized Light) version.

16. Overview Objective

1.25x objective – for the first glance

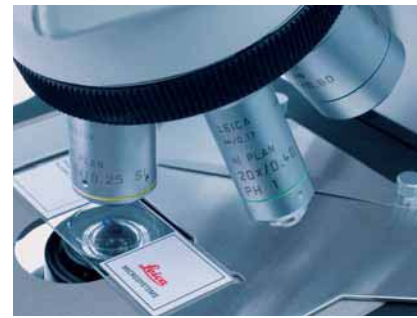
Especially for clinical microscopy, Leica offers a screening objective with 1.25x magnification. Specimens can be surveyed and recorded quickly and easily.

17. The New Fluorescence Axis

Five filter block positions provide greater flexibility

Leica's stable, high-quality fluorescence axis features five filter block positions, and the user can rapidly switch back and forth between them. Leica's extensive range of filters can be used on 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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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 Leica Image Organizer, the user can save information about the 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.

Overview or Detailed Image Viewing

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.

Easy Storage and Search Options

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



Specifications

			DM1000	DM2000	DM2500	
* New unique features						
Stand	Power supply	Built in power supply 30 W stabilized / 90–250 V automatic adaption	x	x		
		Built in power supply 100 W stabilized / 90–250 V automatic adaption			x	
	Koehler	Variable Koehler illumination	x	x	x	
		Pre-fixed Koehler (option)	x			
	Tubes	Ergotube 15° viewing angle FOV22*	x	x	x	
		Standard tube 30° viewing angle FOV22	x	x	x	
		Ergo tilting tube FOV 25 (long)	x	x	x	
		Ergo tilting tube FOV 22 (short)	x	x	x	
	Phototubes	Advanced ergo tilting tube FOV 22	x	x	x	
		Trinocular ergo tilting tube 50/50 FOV22	x	x	x	
		Trinocular 100/100 FOV 25	x	x	x	
		Trinocular 50/50 FOV 25	x	x	x	
Ergomodules	BDT25 0/50/100 dual port option FOV25	x	x	x		
	EDT22 50/50 FOV22	x	x	x		
	30 mm	x	x	x		
Operation	Focus	60 mm	x	x	x	
		Height adjustable focus knobs*	x	x	x	
	Objective nosepiece	2 gear focusing: coarse, fine, focus stop	x			
		5 focus functions: 2- or 3-gear focusing, focus-stop, adjustable torque*		x	x	
		5-fold	x			
	Objective	6-fold		x	x	
		7-fold		x	x	
	Stage	Brightness synchronized objective series 4x, 10x, 40x*	x	x	x	
	TL-axis	Illumination	Ceramic-coated (ultra-hard ceramic)*	x	x	x
			Left/right (exchangeable by user)*	x	x	x
Filtering		Rackless	x	x	x	
		Telescopic drive	x	x	x	
		Adjustable torque	x	x	x	
		Rotatable / stage for two slides (option)	x	x	x	
Condenser	12 V/30 W halogen lamp easy bulb exchange (with special drawer)	x	x			
	12 V/100 W halogen lamp with lamp houses			x		
Fluo-axis	Filtering	Flip-out blue filter	x	x	x	
		Filter holder for 2 filters	x	x	x	
		Filter magazine for 3 filters	x	x		
		Built-in filter magazine for 3 filters			x	
	Contrast methods	Standard condenser CL/PH color-coded*	x	x	x	
Achr. Apl. Flip top condenser color-coded*		x	x	x		
Fluo-axis	Illumination	Universal condenser UCL BF/Phase/DF	x	x	x	
		Universal condenser UCA BF/Phase/DF/DIC		x	x	
		50 W Hg	x	x	x	
		75 W Xe	x	x	x	
	Filter cube changer	100 W Hg	x	x	x	
12 V/100 W halogen lamp		x	x	x		
Fluo-axis	Filter cube changer	Slider with 3 positions for filter cubes	x			
		5-position filter cube turret		x	x	