



# Leica DM750 P

Student Friendly in Every Way:  
The New Generations Choice of an Innovative Educational Microscope

Living up to Life

*Leica*  
MICROSYSTEMS

# Earth Science Teaching Revitalized

The more time an instructor has to teach, the more students can learn. The Leica DM750 P polarizing microscope was specifically developed to revitalize earth science teaching and to achieve the goal of more hands-on time for Earth and Materials Science courses. With many student-friendly features and high-quality construction, the Leica DM750 P is the right tool to invigorate Petrography, Crystallography, and Materials Science learning and teach the next generation of scientists effectively and efficiently.

## **Superb Optics**

- Based on the same optical platform as Leica Microsystems' research microscope line, students enjoy outstanding optical performance and full access to virtually all accessories from the Leica Microsystems microscope product line.
- Strain-free objectives and condensers make the sample the only part effecting the polarized light.

## **EZStore™**

- Integrated vertical handle provides easy carrying and easy lifting when storing on high shelves; undercut on front of stand works in combination with the handle for safer, two-handed carrying.
- Integrated cord wrap eliminates damage to microscope components from improper cord wrapping; vertical cord insertion prevents the cord from pulling partially out of the stand while in storage or in use.
- Onboard storage of accessories to prevent loss.
- The unique shape of the microscope stand protects controls from damage when microscopes are stored side-by-side.

## **AgTreat™**

- The spread of disease from surfaces is of great concern, especially in educational environments. Leica Microsystems has integrated an additive so that all microscope touch points are treated to inhibit the growth of bacteria. This helps to prevent the spread of disease via the microscope surfaces and leads to a healthier laboratory environment.



# The Future is now

The DM750 P is designed specifically for the versatile needs of Earth and Material Science Courses.



## Simplicity

- Analyzer module to accommodate analyzer sliders for basic polarisation microscopy.
- Conoscopy analyzer/Bertrand lens module with upfront clearly labeled flip in/flip out controls to prevent dust damage and confusion of operation. Bertrand lens is easily centerable with the provided tool (stored in module).
- Conoscopy advanced analyzer/Bertrand lens module also provides a focusable Bertrand lens to fine tune the focus of the Conoscopic Image for different magnifications.
- Onboard storage locations for two nosepiece compensators and the objective centering tools to prevent loss.

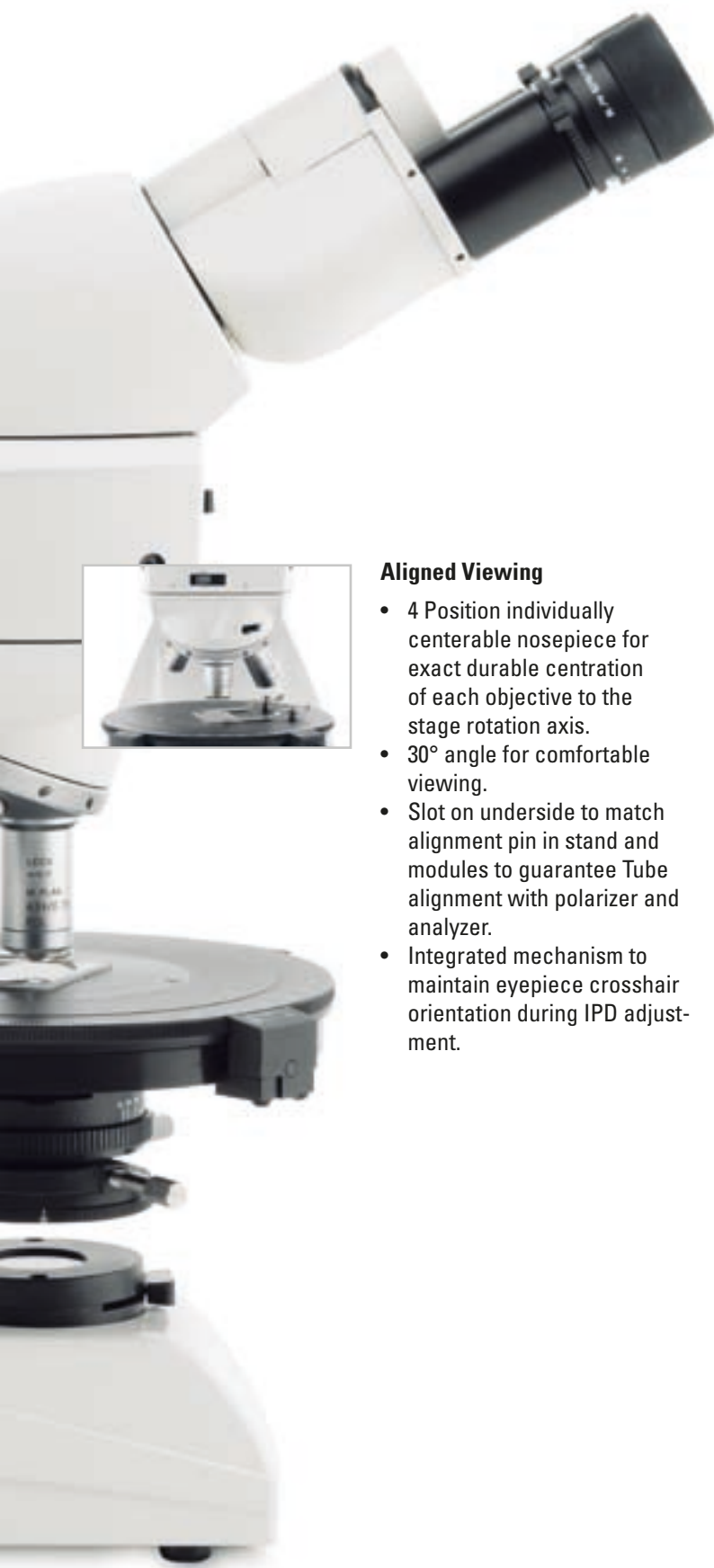


## Ready to work

- Large 178 mm diameter stage for easy specimen placement and viewing of calibrations.
- Brake for locking the stage in position.
- Object guide for precise X/Y positioning of the specimen.
- Laser engraved stage eliminates the chance for the stage calibrations to rub off over time.







### Optional Reflected Light

- Reflected light illuminator with capability for brightfield, polarized light, and Bertrand lens so all reflected and transmitted light techniques can be used with one configuration.
- Patented stage well for tall samples allow the viewing of polished materials in mounts thicker than 17 mm.



### Perfect light

- Bright 35 W halogen illumination for intense images under polarized light.
- Long life 2,000 hour lamp saving cost and time in lamp replacements
- Koehler field diaphragm for optimum illumination and contrast.
- Magnetic attachment daylight filter for viewing under natural color conditions, yet easily removable if a warmer colored illumination is preferred. Daylight filter “disappears” into field diaphragm assembly to prevent loss.



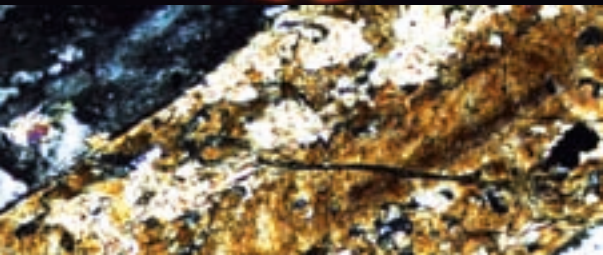
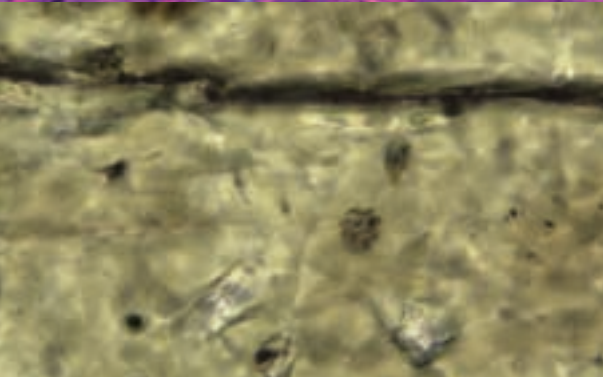
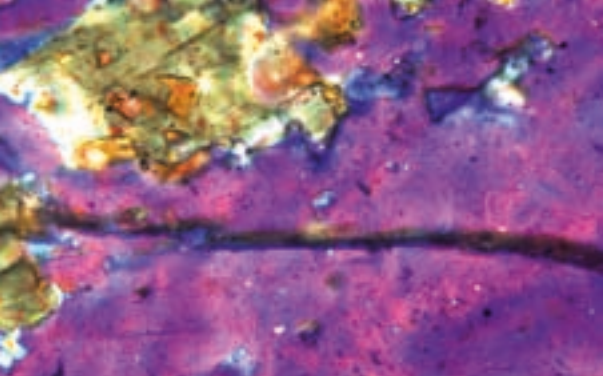
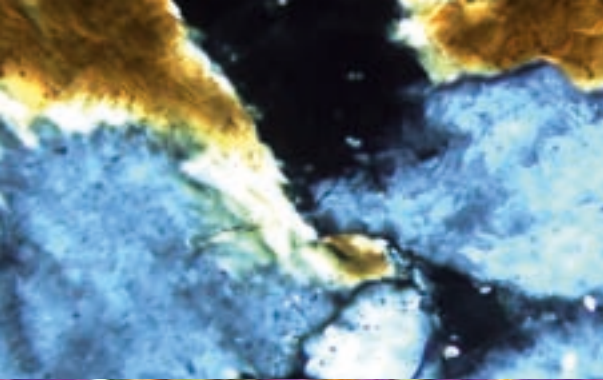
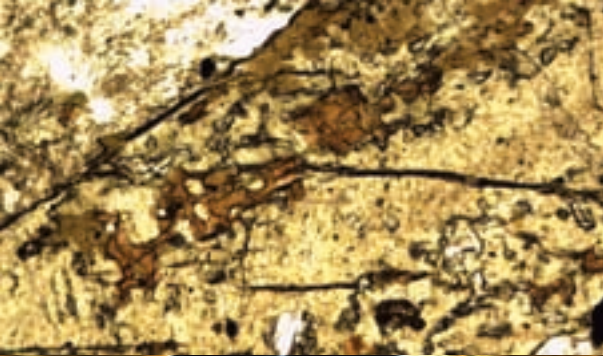
### Versatility

- Strain free standard condenser for magnifications 4x – 100x with slot for ¼ wave compensator for circular polarization technique.
- Flip Top condenser for low magnifications.
- Aperture diaphragm with marks for the correct position of typical objective magnifications for intuitive learning and operation.

### Aligned Viewing

- 4 Position individually centerable nosepiece for exact durable centration of each objective to the stage rotation axis.
- 30° angle for comfortable viewing.
- Slot on underside to match alignment pin in stand and modules to guarantee Tube alignment with polarizer and analyzer.
- Integrated mechanism to maintain eyepiece crosshair orientation during IPD adjustment.





The ability to share, capture, and archive images is becoming an important part of the microscopy laboratory. Now available: the full range of Leica Microsystems imaging solutions.

### **Leica Imaging**

- A new trinocular viewing tube and C-mount adapters provide the versatility to use stand-alone cameras which opens the door to unlimited imaging possibilities.
- A variety of Leica digital cameras with different sensors provide high resolution pictures and fast live images.
- Includes Leica Application Suite (LAS) software for easy camera control, image capture, annotation, measurement and documentation.
- Customize your own Imaging Solution using a wide selection of optional Leica Microsystems software modules.
- Store and recall: A “never-lost” module for instantly perfect results for all samples.
- The modular design of the system allows easy upgrades and service.



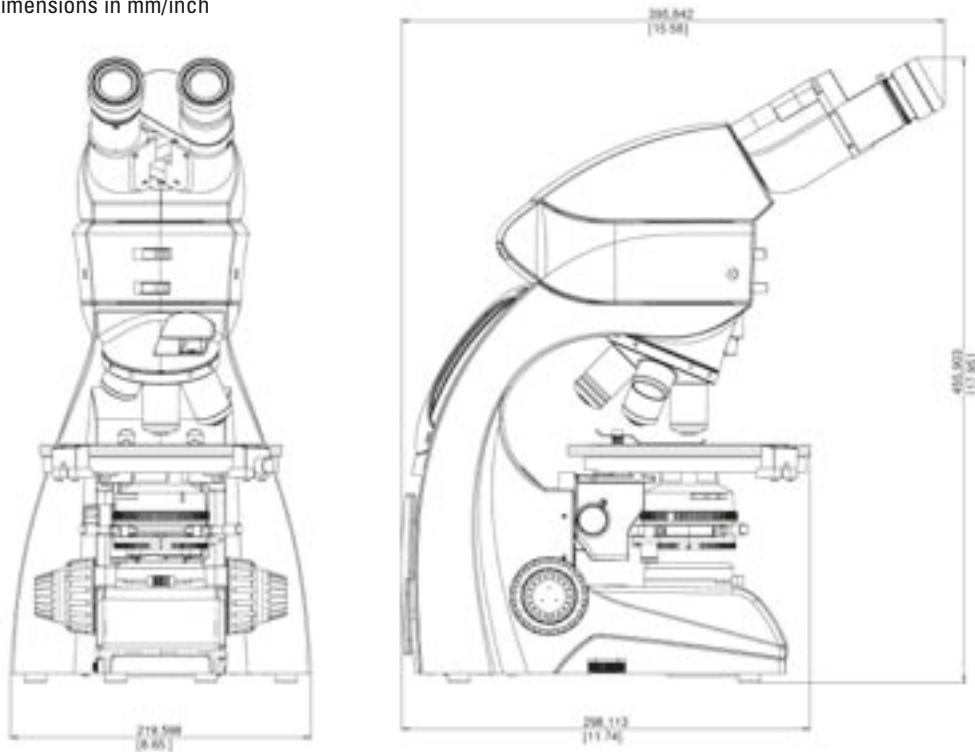


# A New Approach to Imaging



# Dimensions Leica DM750 P

Dimensions in mm/inch

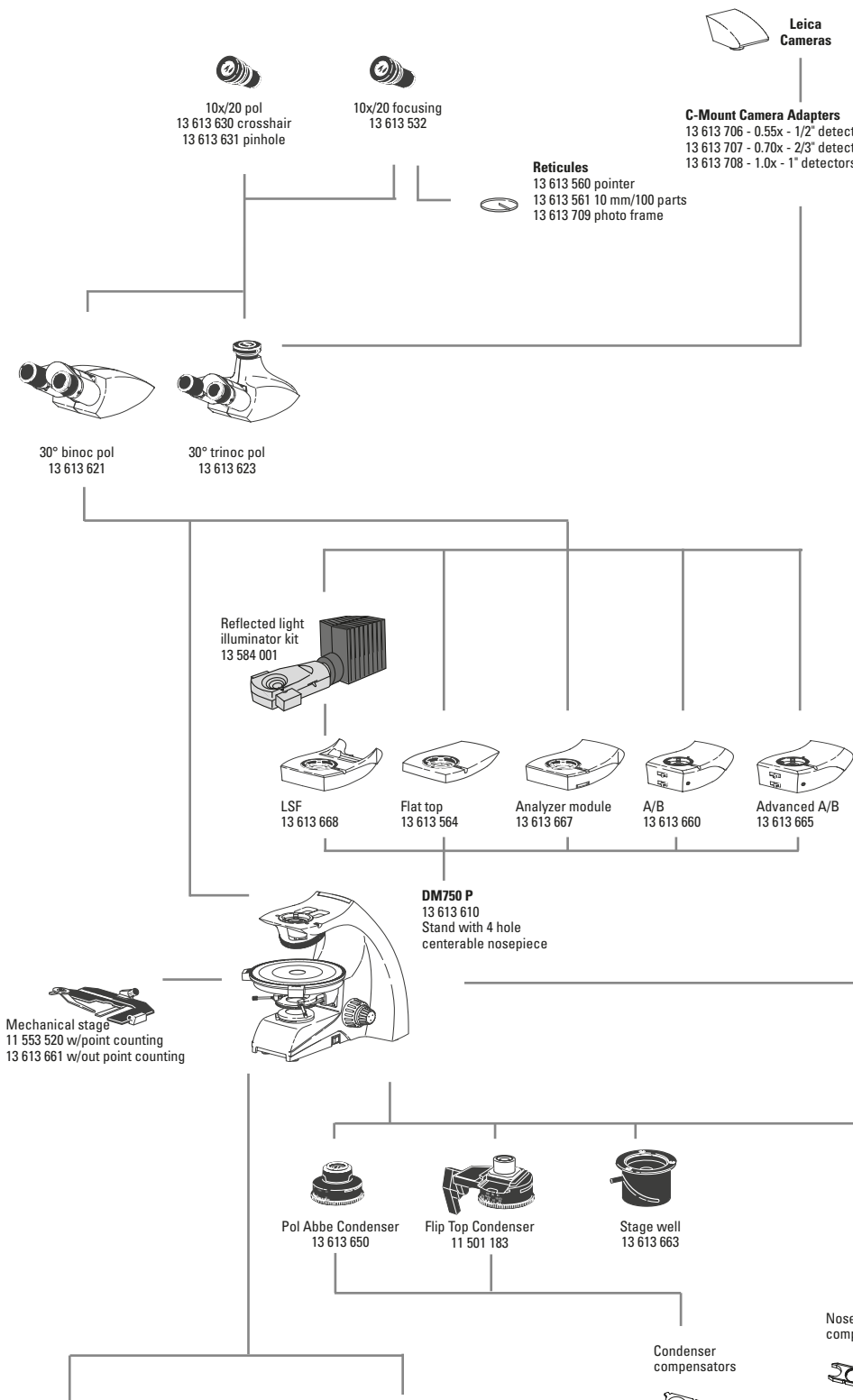


## Preconfigured Outfits Leica DM750 P

OUTFIT ORDERING NUMBER	13613600	13613601
<b>STAND</b>	DM750 P	DM750 P
13 613 610 DM750 P Stand Koehler, 4 position centerable nosepiece	X	X
<b>TUBES</b>		
13 613 621 30° Binocular Pol Tube	X	X
<b>EYEPIECES</b>		
13 613 532 10x/20 focusing eyepiece with eyeguard	X	X
13 613 630 10x/20 focusing eyepiece with eyeguard, Crosshair reticule, and key for orientation	X	X
<b>POL MODULES</b>		
13 613 660 Analyzer/Bertrand Lens Module	X	X
<b>COMPENSATORS</b>		
13 586 006 Lambda Compensator full wave plate	X	X
<b>CONDENSERS</b>		
13 613 650 Pol Abbe Condenser 0.85	X	X
<b>POL OBJECTIVES</b>		
11 556 060 HI Plan Pol 4x/0.10 NA, 18.0 mm W.D.	X	X
11 556 061 HI Plan Pol 10x/0.25 NA, 12.0 mm W.D.	X	X
11 556 065 HI Plan Pol 40x/0.65 NA, 0.36 mm W.D.	X	
11 556 066 HI Plan Pol 63x/0.75 NA, 0.31 mm W.D.		X
<b>POWER CORD</b> NOT INCLUDED: Must be ordered separately		



# System diagram Leica DM750 P



- HI Plan Pol FOV 20**  
 11 556 060 - HI Plan Pol 4x/0.10 NA, 18.0 mm\*  
 11 556 061 - HI Plan Pol 10x/0.25 NA, 12.0 mm\*  
 11 556 065 - HI Plan Pol 40x/0.65 NA, 0.36 mm\*  
 11 556 066 - HI Plan Pol 63x/0.75 NA, 0.31 mm\*  
 11 556 511 - HI Plan Pol DS 10x/0.25 NA, 12.0 mm\*  
 11 556 512 - HI Plan Pol DS 40x/0.65 NA, 0.36 mm\*  
 \* working distance

- N Plan Pol FOV 22 for Reflected Light**  
 11 556 036 - N Plan Pol 2.5x/0.07 NA, 11.2 mm\*  
 11 556 075 - N Plan Pol 5x/0.12 NA, 14 mm\*  
 11 556 070 - N Plan Pol 10x/0.25 NA, 17.6 mm\*  
 11 556 072 - N Plan Pol 20x/0.40 NA, 1.15 mm\*  
 11 556 073 - N Plan Pol 50x/0.75 NA, 0.50 mm\*  
 11 556 053 - N Plan Pol 100x/1.25 NA, 0.12 mm\*, Oil  
 \* working distance

- Condenser compensators**  
 11 555 074 Lambda  
 13 586 008 1/4 Lambda
- Nosepiece compensators**  
 13 586 006 Lambda  
 13 586 007 1/4 Lambda  
 11 553 188 Quartz wedge  
 11 553 180 Tilting Compensator B Compensator  
 11 553 182 Tilting Compensator K Compensator  
 11 553 185 Brace-Koehler Compensator

- Analyzer Module Sliders**  
 11 555 045 Fixed Analyzer Slider  
 11 555 079 180° Rotatable Analyzer Slider  
 11 555 080 360° Rotatable Analyzer Slider
- Reflected Light**  
 13 584 001 Reflected Light Illuminator Kit (Req.13613668 for use on DM500, DM750, DM750 P stands) consists of:  
 11 505 122 - LSF Reflected Light Illuminator  
 11 501 179 - Power Supply  
 11 504 030 - Lamphouse Adapter  
 11 504 080 - Lamphouse  
 11 500 974 - 100Watt Halogen Lamp  
 11 513 858 - Brightfield Cube  
 11 513 835 - Pol/Analyzer Cube  
 11 514 755 - Daylight Blue Filter - 50 mm in mount  
 Power cord must be ordered separately
- Additional cubes for Reflected Light**  
 11 101 582 Pol only Cube  
 13 583 890 Bertrand Lens Cube
- Replacements**  
 13 613 563 Eyeguard Pair  
 13 RFAG30002 Fuse for DM750 P  
 13 586 000 Blue Filter for DM750 P  
 13 596 030 35 Watt Halogen Lamp for DM750 P  
 11 500 974 100 Watt Halogen Lamp for Reflected Light Kit  
 13 613 662 Objective Centering Tools  
 13 613 671 Thumbscrew pair DM750 P condenser mount  
 13 583 041 Object clamps for DM750 P  
 13 613 610-100 DM750 P User Documents  
 13 586 062 Add-on lens for condensers (included with stand)  
 13 613 669 Dust cover for DM750 P
- Others**  
 11 513 106 Stage Micrometer  
 11 505 091 Diffuser Slider for using 2.5x objective with Abbe Condensers  
 11 505 507 Auxilliary lens for using 2.5x objective with 11501183 Flip top Condenser
- International power cords**
- |                               |  |
|-------------------------------|--|
| 13 613 900 U.S.               |  |
| 13 613 901 Europe Continental |  |
| 13 613 902 U.K.               |  |
| 13 613 903 Switzerland        |  |
| 13 613 904 Denmark            |  |
| 13 613 905 Italy              |  |
| 13 613 906 Australia          |  |
| 13 613 907 China              |  |
| 13 613 908 Japan              |  |
| 13 613 909 Israel             |  |
| 13 613 910 South Africa       |  |
| 13 613 911 India              |  |
| 13 613 912 Argentina          |  |

# Leica DM750 P Specifications

## Separate Eyepieces

High eyepoint

10x/20 (20 mm Field of View)

Crosshair eyepiece with 45° marks, scale, and orientation feature

Available fixed or focusing

Focusing eyepieces with reticule holder for 21 mm reticule

Foldable eyeguards

30mm mounting diameter

## Viewing Tubes for separate eyepieces

30° Pol binocular & trinocular tube with slot for alignment, 90° and 45° orientation feature on right eyetube for crosshair eyepiece

Maximum field of view 20 mm

Leica tube dovetail standard

Eyepiece locking screw on left eyetube

Interpupillary distance range 52 mm – 75 mm

## Stand

Stand shape protects controls

Stand construction – die-cast aluminium

External fuses

Knurled nosepieces

4 position centerable nosepieces

ISO Compensator position above nosepieces

Pin-in stand for alignment of pol viewing tubes

## EZStore™

Vertical handle

Undercut in front of stand

Cord wrap

Vertical cord attachment to stand

Storage positions in A/B Modules for 2 compensators and objective centering tools

Magnetic attachment for objective centering tool storage

Detent attachment for compensator storage

## Objectives

Infinity Platform

HI Plan Pol for FOV 20

Objective labeling laser engraved

M25 nosepiece thread

## EZGuide™

Point counting and non point counting mechanical stages (stage travel 30 mm x 40 mm)

## Stage

Large 178 mm circular diameter stage surface

Hard anodized stage surface

Brake for securing rotation location

Laser engraved stage calibration in 1 degree increments

Verniers on two sides to 0.1 degree

## Condenser

Centerable and focusable condenser mount

Slot in condenser for contrast sliders (Darkfield, Compensator)

Magnification labels on condenser

Standard Leica condenser mount for condensers (Abbe, Turret, Flip top, etc.)

## Focus

Low position focus controls

Self adjusting focus mechanism

300 microns per fine focus rotation

Calibrated in 3 micron increments

Weighted focus knobs

## EZLite™

Available with adjustable Koehler field diaphragm as standard

35 Watt Halogen lamp, 2000 hour lamp life

Continuous intensity adjustment

Illumination enough for viewing at lowest intensity

## Imaging

Trinocular tubes available (50%/50% light split)

C-mount adapters with standard Leica mount

## Intermediate Modules

15mm Flat top module

Module for LSF Reflected Light Illuminator

## Analyzer/Bertrand Lens Modules

Analyzer module with pin for viewing tube alignment

Basic A/B module with pin for viewing tube alignment

Advanced A/B Module with focusing Bertrand Lens and pin for viewing tube alignment

## AgTreat™

Anti Microbial Treatment

## Reflected Light

Basic illuminator

Advanced illuminator with aperture and field diaphragms

Selection of cubes for Brightfield, Polarized Light, Bertrand Lens

Selection of fluorescence cubes with a variety of specifications

## Certifications

cULus, CE, RoHS

## Shipping

Dimensions: 40 cm x 37 cm x 39 cm

Weight: 9 kg

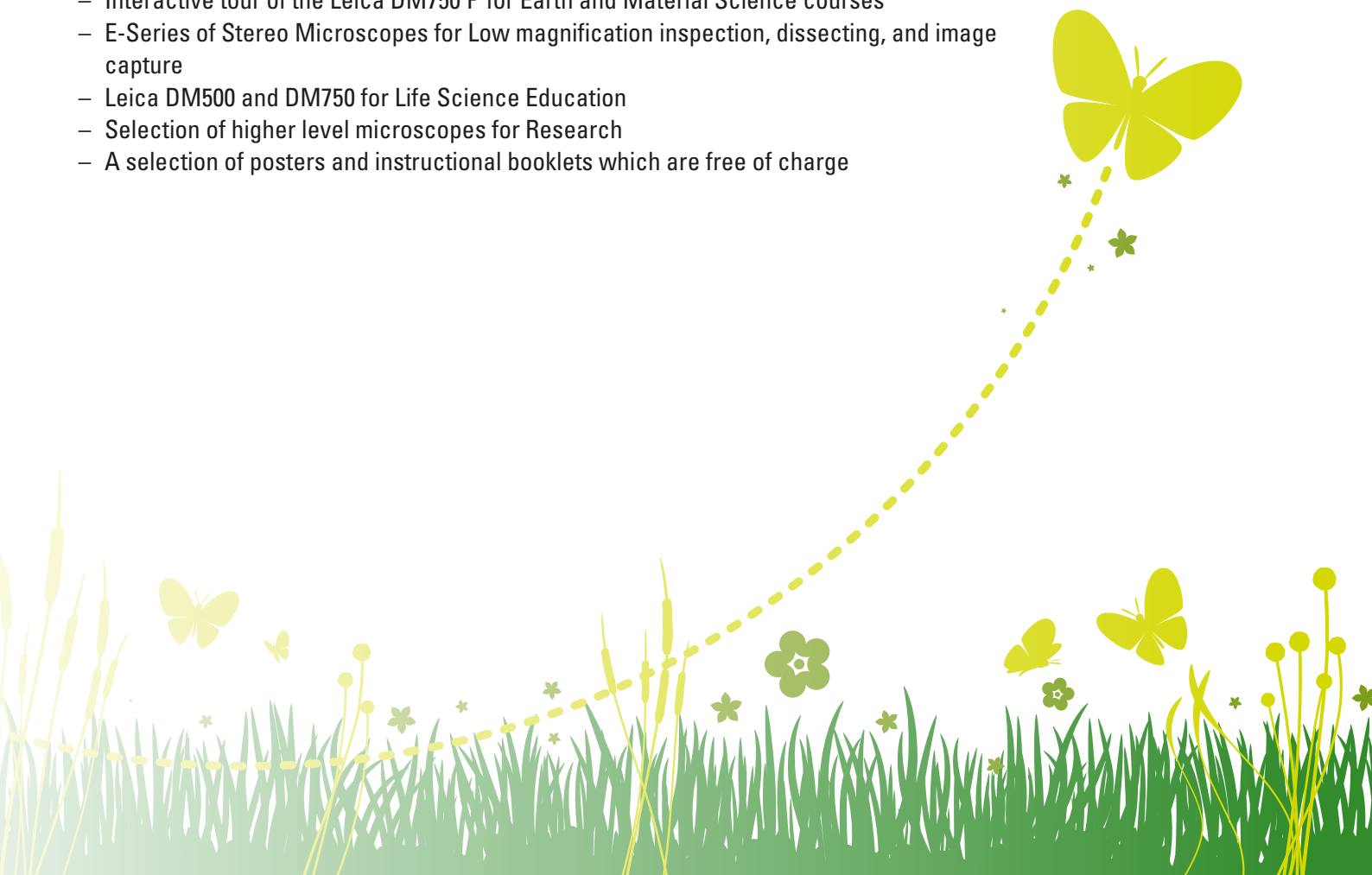
# Clean and Green

We actively implement ways to make our environment cleaner and safer for this generation and the next:

- All packaging is completely recyclable.
- No Lead content in any of the glass components.
- Constantly optimizing our logistics chain to keep the CO<sub>2</sub> footprint as low as possible.
- AgTreat™ helps to prevent the spread of disease via the microscope surfaces and leads to a healthier laboratory environment.
- All products have been tested by independent safety laboratories and carry the cULus and CE mark to indicate their design for safety.
- All products are RoHs compliant, which means all electrical components meet any restrictions on the use of hazardous substance

**See more at [www.leica-microsystems.com/education](http://www.leica-microsystems.com/education)**

- Interactive tour of the Leica DM750 P for Earth and Material Science courses
- E-Series of Stereo Microscopes for Low magnification inspection, dissecting, and image capture
- Leica DM500 and DM750 for Life Science Education
- Selection of higher level microscopes for Research
- A selection of posters and instructional booklets which are free of charge





# “With the user, for the user”

## Leica Microsystems

Leica Microsystems operates globally in four divisions, where we rank with the market leaders.

### • Life Science Division

The Leica Microsystems Life Science Division supports the imaging needs of the scientific community with advanced innovation and technical expertise for the visualization, measurement, and analysis of microstructures. Our strong focus on understanding scientific applications puts Leica Microsystems' customers at the leading edge of science.

### • Industry Division

The Leica Microsystems Industry Division's focus is to support customers' pursuit of the highest quality end result. Leica Microsystems provide the best and most innovative imaging systems to see, measure, and analyze the microstructures in routine and research industrial applications, materials science, quality control, forensic science investigation, and educational applications.

### • Biosystems Division

The Leica Microsystems Biosystems Division brings histopathology labs and researchers the highest-quality, most comprehensive product range. From patient to pathologist, the range includes the ideal product for each histology step and high-productivity workflow solutions for the entire lab. With complete histology systems featuring innovative automation and Novocastra™ reagents, Leica Microsystems creates better patient care through rapid turnaround, diagnostic confidence, and close customer collaboration.

### • Surgical Division

The Leica Microsystems Surgical Division's focus is to partner with and support surgeons and their care of patients with the highest-quality, most innovative surgical microscope technology today and into the future.

The statement by Ernst Leitz in 1907, “with the user, for the user,” describes the fruitful collaboration with end users and driving force of innovation at Leica Microsystems. We have developed five brand values to live up to this tradition: Pioneering, High-end Quality, Team Spirit, Dedication to Science, and Continuous Improvement. For us, living up to these values means: **Living up to Life.**

### Active worldwide

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### and representatives in more than 100 countries

In accordance with the ISO 9001 certificate, Leica Microsystems (Switzerland) Ltd, Industry Division, has at its disposal a management system that meets the requirements of the international standard for quality management. In addition, production meets the requirements of the international standard ISO 14001 for environmental management.