

SPECIFICATII TEHNICE LOTUL NR 17 – Microscop de laborator binocular cu 3 obiective

Nr. d/o	CERINȚE TEHNICE - Specificarea tehnică deplină solicitată, Standarde de referință	DA/NU	OBSERVATII – Specificatia tehnica a produsului oferat
17	Microscop de laborator binocular cu 3 obiective		Leica DM 500
	Parametrul - specificatia		
	An productie: 2021	Da	Declaratie atasata
	Stand destinat studiilor în laboratorul clinic.	Da	Echipament de laborator : Certificat de conformitate Pag 1 Ref 1, Brosura DM 500 pag 6,10, 11 Ref 1
	Tip iluminare: LED, Koehler	Da	Sistem de iluminare tip LED, Brosura DM 500, Pag 4 Ref 3. Koehler Superior, condensorul Abbe este precentrat -prefocusat fiind eliminata necesitatea ajustarii Kohler. Este gata de lucru fara ajustari gresite. Brosura DM 500, Pag 4 Ref 3.
	Masă specimen: ceramică sau cu acoperire ceramică, pentru operare cu mâna dreaptă cu acționare coaxială pentru deplasarea pe X și Y.	Da	Masa specimen rezistenta la zgarieturi pentru operare mana dreapta (RH-Right Handle) cu acționare coaxială pentru deplasarea pe X și Y. Brosura DM 500, Pag 9, 10 Ref 4
	Fixator de probe (lamele) universal pentru un singur specimen, detașabil	Da	Fixator de probe universal pentru un singur specimen Brosura DM 500, Pag 10 Ref 5
	Manete focusare și poziționare masă specimene plasate echidistant de utilizator, amplasate în partea inferioară a microscopului.	Da	Manete focusare si pizitionare masa plasate echidistant de utilizator, plasate in partea inferioara a microscopului. Brosura DM 500, Pag 6, 8 Ref 6

Focusare fină($\leq 2 \mu\text{m}$) și grosieră	Da	Superior Sistem de autoajustare a mecanismului de focusare fina Brosura DM 500, Pag 10 Ref 7 Focusare grosiere(macroviză) Brosura DM 500 pag 8 Ref 6
Sistem optic: infinit, cu corecție de culoare	Da	Sistem optic infinit, cu corecție de culoare Brosura DM 500 , PAG 18 Ref 8
Tehnici de contrast: Brightfield, Darkfield(opțiune), Phase contrast(opțiune), Polarized light(opțiune)	Da	Tehnici de contrast: Brightfield, Darkfield(opțiune), Phase contrast(opțiune), Polarized light(opțiune) Brosura DM 500, Pag 4 Ref 9
Tub binocular: cu unghi de înclinare 30° sau ajustabil, rotire 360°, cu ajustarea distanței interpupilare în diapazonul minim 52-75 mm, tip Siedentopf;	Da	Tub binocular: cu unghi de înclinare 30° sau ajustabil, rotire 360°, cu ajustarea distanței interpupilare în diapazonul minim 52-75 mm, tip Siedentopf, binoculare in forma de V; Brosura DM 500, Pag 8,9, 10 Ref 10
Oculare: 10x/20 – 2 buc.(cel puțin unul cu focusare)	Da	Cap binocular cu oculare presetate pentru evitarea erorilor incorecte a dioptriilor, oculare 10x/20 set cu pointer Brosura DM 500, Pag 4 10 Ref 11 Draft configurator DZ 2042 Pag 1 Ref 11
Turelă rotativă: pentru ≥ 4 obiective	Da	Turela rotativa cu 4 pozitii: Draft configurator DZ 2042 Pag 1 Ref 12
Obiective Plan Achromat, din sticlă: 4x, 40x, 100x/1.25 Ulei	Da	Obiective Plan Achromat, din sticlă: 4x, 40x, 100x/1.25 Ulei Draft configurator DZ 204 Pag 1 Ref 13
Condensor tip Abbe prefocusat și precentrat, NA 0.9/1.25 ulei, codificat prin culori sau cu indicarea tipului de obiectiv, cu fantă pentru slider de contrast	Da	Condensor tip Abbe prefocusat și precentrat, NA 0.9/1.25 ulei, codificat prin culori sau cu indicarea tipului de obiectiv, cu fantă pentru slider de contrast Brosura DM 500, Pag 4,10 Ref 14
Unitatea de alimentare încorporată	Da	Unitatea de alimentare încorporată Draft configurator DZ 2042 Pag 1 Ref 15
Accesorii: Ulei de imersie – o sticlăuță, husă - 1 buc.	Da	Accesorii: Ulei de imersie – o sticlăuță, husă - 1 buc. Draft configurator DZ 2042 Pag 1 Ref 16
Cerințe de certificare: Certificat CE sau declarație de conformitate CE cu anexele corespunzătoare pentru produsele oferite, valabil, copie confirmată prin semnatura și ștampila participantului.	Da	Vezi declaratia atasata
Declarație de la Ofertant – confirmată prin semnatura și	Da	Vezi declaratia atasata

ștampila, în care să certifice termenul de garanție pentru echipament și accesorii nu mai mic de 36 luni din momentul instalării/darii în exploatare a bunului.		
Instalare, darea în exploatare de către participantul câștigător-obligatoriu	Da	Vezi declaratia atasata
Ghid rapid al utilizatorului (max. 4 pagini A4), in limba de stat-obligatoriu.	Da	Vezi QuickStartGuide

From Eye to Insight



Educational Compound Microscopes

A NEW GENERATION'S CHOICE OF INNOVATIVE EDUCATIONAL MICROSCOPES

Leica DM500 & DM750



MADE FOR FUTURE NOBEL PRIZE WINNERS

Science Teaching Revitalized

The more time the instructor has to teach, the more students can learn. The Leica DM500 and Leica DM750 microscopes were specifically developed to revitalize science teaching and to achieve the goal of more hands-on time for Life Science courses. With many student-friendly features and high-quality construction, the Leica DM500 and Leica DM750 invigorate 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 with full access to virtually all accessories from Leica's microscope product line.
- › NEW! 100× dry (no oil needed) objective provides very high resolution (N.A. 0.8) while eliminating the need for oil.

EZLITE™

- › LED illumination provides cool, white light with a lifetime of over 20 years average use. There is no need to change lamps during lab time, and this saves the expense of replacement lamps as well.
- › The cost-savings pays for several microscopes over their lifetimes.

SAFETSTAGE™

- › Microscope stage maintains its dimension, which eliminates the chance of injury from contact with a conventional stage rack.
- › Rounded edges are easy on the skin.

EZSTORE™

- › Integrated vertical handle provides easy carrying and 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.
- › The unique shape of the microscope stand protects controls from damage when microscopes are stored side-by-side.

EZGUIDE™

- › Student friendly slide holder helps prevent slide chipping

USB POWER CONNECTOR

- › Providing power to the Leica USB cameras is extremely easy. Simply connect the camera via the provided USB cable to the 5 V/1.5 A USB power connector on the rear of the Leica DM500 and Leica DM750 stand. This saves the cost of an external power supply for the camera plus reduces the complexity at the workstation.

AGTREAT™

- › The possible contamination with germs from surfaces is of great concern, especially in educational environments. Leica Microsystems has integrated an additive to the material of all microscope touchpoints to inhibit the growth of bacteria. This helps prevent the spread of disease via the microscope surfaces and leads to a healthier laboratory environment.



LEICA DM500 – SCIENCE TEACHING MADE EASY

The Leica DM500 is ideal for entry level Life Science courses. The microscope's stand provides "plug and play" capability. All students need to do is turn the power on, place the specimen slide on the stage, focus, and enjoy the view!



Ref 6

Ref 14



READY TO WORK

Ref 3

- › Pre-centered, pre-focused Abbe condenser eliminates the need for adjustments



EZTUBE™

- › Eyepieces integrated with the eyetubes prevents loss
- › Preset diopter adjustments eliminates the risk of incorrectly setting the diopters

Ref 11

- › Other viewing tubes are also available



SAFER ROTATION

- › Captive thumbscrew for safer rotation of the EZTube™

Ref 9



ALL IN ONE

- › Abbe Condenser with slot for phase contrast and darkfield sliders, including a 4 position phase slider, which offers brightfield and phase capabilities all in one slider



PERFECT LIGHT Ref 3

- › LED illumination designed to provide even lighting across the full field of view without adjustments

LEICA DM750 – SCIENCE TEACHING FOR A NEW GENERATION

The Leica DM750 is designed specifically for the versatile needs of advanced Life Science courses and for professional training such as medical, veterinary, and dental schools.

VERSATILE

- › Standard condenser for magnifications 4× – 100×
- › Phase turret condenser for brightfield and phase contrast
- › Flip top condenser for low magnifications
- › The Leica DM750 is available with a 4 position or 5 position nosepiece



WEAR RESISTANT

- › Special stage finish offers additional protection from friction damage

ENERGY SAVING

- › Time delay shutoff saves energy by automatically turning off the illumination after 2 hours of no use



A+ FOCUS, CONTRAST & ILLUMINATION

- › Weighted focus knobs provide inertia and extremely accurate focus capability
- › Koehler field diaphragm available as an option for optimum illumination and contrast



SHARED VIEWING MADE EASY

- › Variety of viewing tubes provides free rotation while securely fixed to the stand
- › Standard viewing tubes with eyepiece locking screws prevent loss of eyepieces



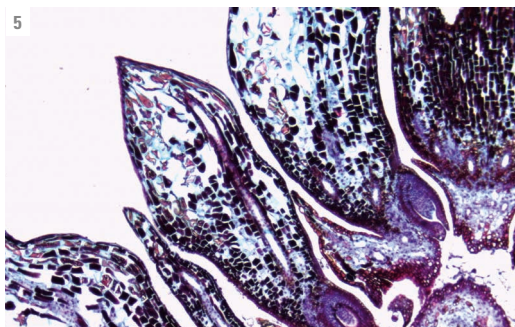
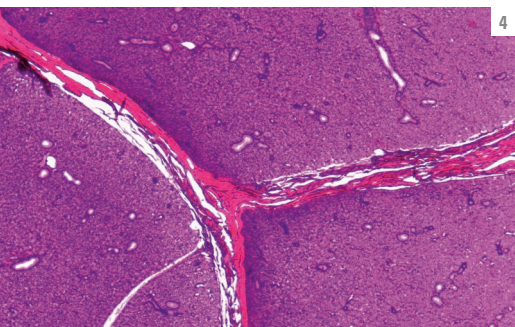
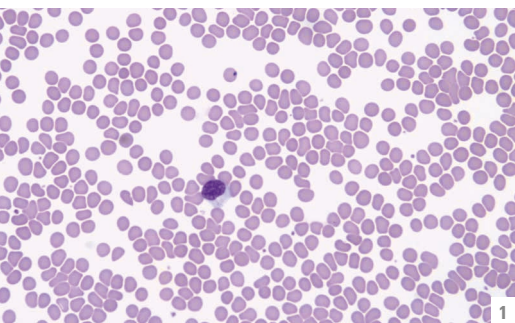
GO WIRELESS!

Ref 1

The ability to share, capture, and archive images is an important part of the microscopy laboratory. The Leica DM500 and Leica DM750 are compatible with the full range of Leica Microsystems imaging solutions, allowing you to select the camera which best suits the demands of your classroom. Keep students on topic and maximize learning time with the NEW Leica ICC50 W/ E High Definition Wireless camera module.

THE ICC50 W/ E CAMERA MODULE – INTEGRATED & MODULAR

- › In Ethernet mode, the connection to the camera is provided through your own network, allowing a maximum number of users to connect to the camera. To use this to full extent, all devices have to be on the same network as the microscope.
- › In USB mode you can connect your PC directly via USB cable to the camera, which is helpful when you aim for fastest live images e.g. of moving samples.
- › Computer users can use the Leica Imaging software to connect to the camera and work with the images. For PC use Leica Application Suite software, and use Leica Acquire for MAC.
- › Use lots of options with Leica AirLab App: It enables camera setup, annotations, measuring, image capture, and sharing to email, photo folders, or other social media connections.
- › Leica AirLab App is available free of charge for Android and iOS devices.
- › Stay flexible if there is no PC or mobile device around: Just capture images directly onto a memory card.
- › Fine-tune camera settings conveniently, capture images onto the SD card, and view the SD card gallery – all possible with the remote.
- › Project your images: Use the HDMI port for screen projections or output to HD screens.
- › You don't need any extra power cables: The camera is powered directly from the microscope stand with a USB cable.





Students can connect to the Leica ICC50 W either through its own **internal Wi-Fi signal** using Wi-Fi mode or through the facilities' network using Ethernet mode.



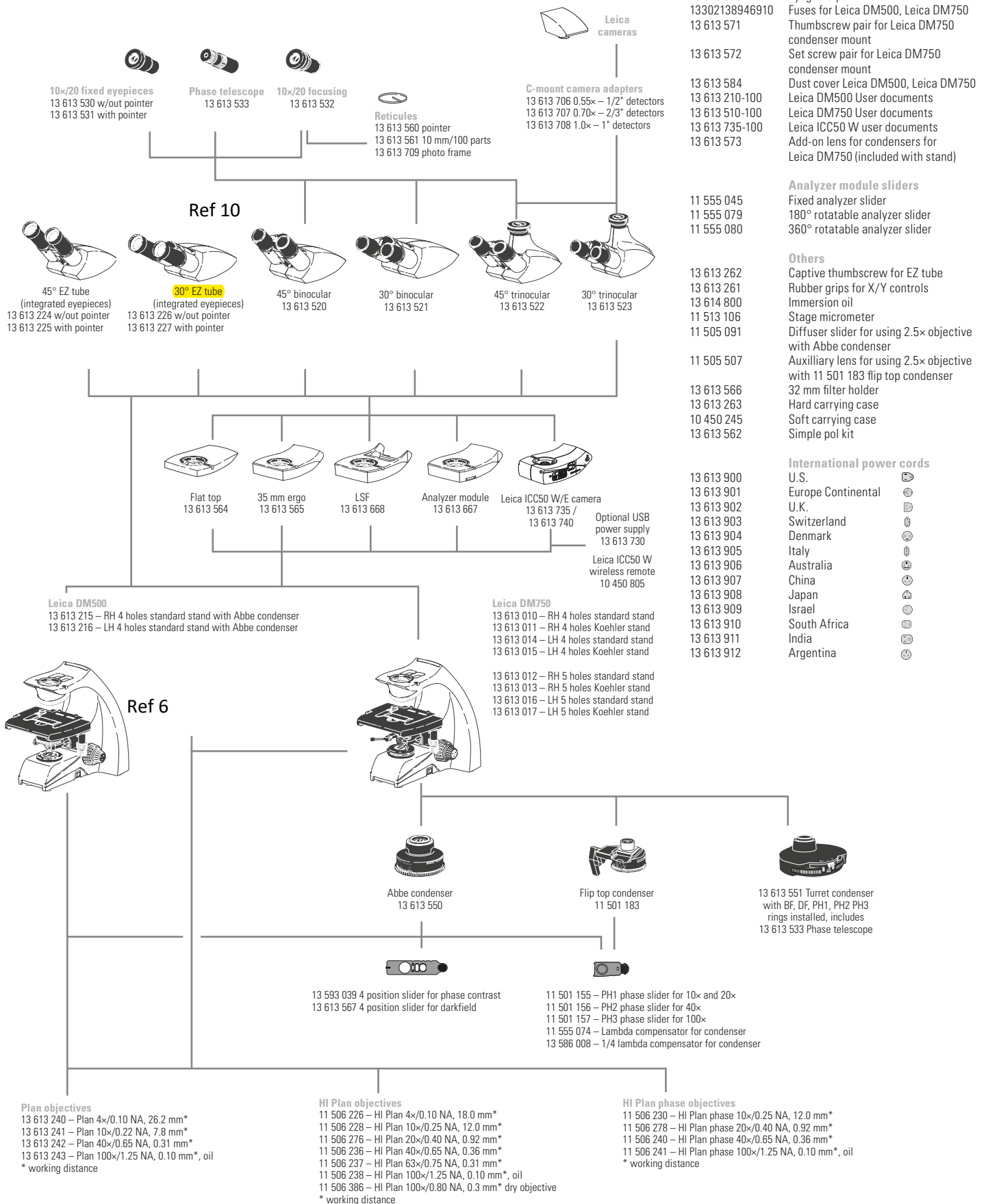
The ICC50 E **exclusively** uses your facilities' **network (WLAN or LAN)** to allow students to connect to the camera. This is an ideal solution if you don't want to add additional Wi-Fi access points to your network.



- 1: Human Blood
- 2: Convallaria – Lily of the Valley
- 3: Giant Chromosomes
- 4: Parotid Gland
- 5: Pine
- 6: Taste Buds

Leica DM750 with Leica ICC50 W digital microscope camera

SYSTEM DIAGRAM



PRECONFIGURED OUTFITS

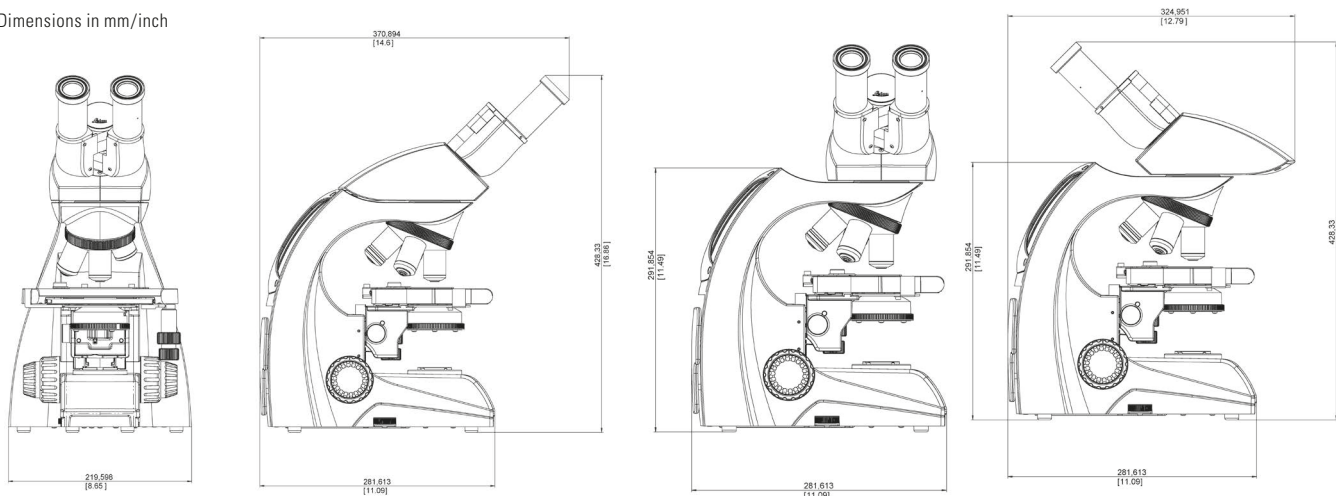
OUTFIT ORDERING NUMBER	13 613 207	13 613 208	13 613 403	13 613 406	13 613 001	13 613 004	13 613 002	13 613 005
	DM500	DM500	DM750	DM750	DM750	DM750	DM750	DM750
STANDS	Ref 4							
13 613 215 DM500 RH Stand with Abbe condenser	X	X						
13 613 010 DM750 RH Stand			X	X	X	X		
13 613 011 DM750 RH Stand Koehler							X	X
TUBES								
13 613 224 45° EZ tube	X		X					
13 613 225 45° EZ tube with pointer		X		X				
13 613 520 45° binocular tube					X	X	X	X
EYEPIECES								
13 613 530 10×/20 eyepiece w/eyeguard					X		X	
13 613 531 10×/20 pointer eyepiece w/eyeguard						X		X
13 613 532 10×/20 focusing eyepiece w/eyeguard					X	X	X	X
CONDENSERS								
13 613 550 Abbe condenser 0.9 Dry/1.25 oil			X	X	X	X	X	X
OBJECTIVES								
13 613 240 Plan 4×/0.10 NA, 26.2 mm W.D.	X	X	X	X				
13 613 241 Plan 10×/0.22 NA, 7.8 mm W.D.	X	X	X	X				
13 613 242 Plan 40×/0.65 NA, 0.31 mm W.D.	X	X	X	X				
13 613 243 Plan 100×/1.25 NA, 0.10 mm W.D., oil	X	X	X	X				
11 506 226 HI Plan 4×/0.10 NA, 18.0 mm W.D.					X	X	X	X
11 506 228 HI Plan 10×/0.25 NA, 12.0 mm W.D.					X	X	X	X
11 506 236 HI Plan 40×/0.65 NA, 0.36 mm W.D.					X	X	X	X
11 506 238 HI Plan 100×/1.25 NA, 0.10 mm W.D., oil					X	X	X	X
13 614 800 Immersion oil	X	X	X	X	X	X	X	X

POWER CORD NOT INCLUDED: Must be ordered separately

DIMENSIONS LEICA DM500 / DM750

Dimensions in mm/inch

Ref 10



SPECIFICATIONS LEICA DM500 / DM750

	DM500	DM750		DM500	DM750
SEPARATE EYEPIECES			SAFETSTAGE™		
High eyepoint	X	X	Stage surface 185 mm (150 mm front) wide × 140 mm deep	X	X
10×/20 (20 mm field of view)	X	X	Rounded stage edges	X	X
Available with or without pointer	X	X	Non extending rack	X	X
Available fixed or focusing	X	X	Verniers for X/Y coordinates	Ref 4	X
Focusing eyepieces with reticule holder for 24.5 mm reticle	X	X	Wear resistant stage surface	X	X
Foldable eyeguards	X	X			
30 mm mounting diameter	X	X			
EZTUBE™			CONDENSER		
Preset diopters for corrected vision	X	X	Prefocused and precentered Abbe condenser	Ref 14	X
45 degree viewing angle	X	X	Centerable and focusable condenser mount		X
10×/20 (20 mm field of view)	X	X	Slot in Abbe condenser for contrast sliders	X	X
Attaches to stand with set screw	X	X	(phase, darkfield, compensator)	Ref 14	
Captive thumbscrew available for safer rotation	X	X	Magnification labels on condenser	X	X
Eyepieces are integrated with tube	X	X	Standard Leica condenser mount for condensers		X
Available with pointer and without pointer	X	X	(Abbe, turret, flip top, etc.)		
Interpupillary distance range 52 mm – 75 mm	X	X			
OTHER VIEWING TUBES FOR SEPARATE EYEPIECES			FOCUS		
45 degree, 30 degree, trinocular	Ref 10	X	Low position focus controls	X	X
Maximum field of view 20 mm	X	X	Self adjusting focus mechanism	X	X
Rotatable dovetail	X	X	300 microns per fine focus rotation	X	X
Leica tube dovetail standard	X	X	Calibrated in 3 micron increments	X	X
Eyepiece locking screw	X	X	Weighted focus knobs		X
Interpupillary distance range 52 mm – 75 mm	Ref 10	X			
STAND			EZLITE™		
Stand shape protects controls	X	X	Preset field aperture only	X	
Stand construction – die-cast aluminium	X	X	Available with or without adjustable Koehler field diaphragm		X
External fuses	X	X	LED Illumination – 6 000 K temp, 25 000 h life at full intensity	X	X
Knurled nosepiece	X	X	Continuous intensity adjustment	X	X
4 position nosepiece only	X		Illumination sufficient for viewing at lowest intensity	X	X
4 or 5 position nosepiece available		X	Simple polarizing kit available	X	X
Drop in holder for 32 mm mounted or unmounted filters	X	X	2 hour Auto Off (can be disabled or enabled)		X
5 V/1.5 A USB power supply to power camera	X	X	Auto Off default: 4 hole stands enabled, 5 hole stands disabled		X
EZSTORE™			IMAGING		
Vertical handle	X	X	Trinocular tubes available (50 %/50 % light split)	X	X
Undercut in front of stand	X	X	C-mount adapters with standard Leica mount	X	X
Cord wrap	X	X	Leica ICC50 W intermediate camera module (50 %/50 % light split)	X	X
Vertical cord attachment to stand	X	X			
OBJECTIVES			INTERMEDIATE MODULES		
Infinity optics platform	Ref 8	X	35 mm intermediate ergo module available	X	X
100× dry objective with N.A. 0.8 (no correction collar)	X	X	15 mm flat top module	X	X
Objective labeling laser engraved (HI Plans)	X	X	Module for LSF reflected light illuminator	X	X
M25 nosepiece thread	X	X	Analyzer module	X	X
EZGUIDE™			AGTREAT™		
One-handed slide loading	X	X	Anti microbial treatment	X	X
26 mm × 76 mm stage travel	X	X			
			CERTIFICATIONS		
			cULus, CE, RoHS	Ref 1	X
			Main optical components meet ISO 9022-11 for Mould Growth	X	X
			SHIPPING		
			Dimensions: 40 cm × 37 cm × 39 cm (H×D×W)	X	X
			Weight: 9 kg	X	X

CLEAN AND GREEN



WE ACTIVELY IMPLEMENT WAYS TO MAKE OUR ENVIRONMENT
CLEANER AND SAFER FOR THIS GENERATION AND THE NEXT

SEE MORE AT WWW.LEICA-MICROSYSTEMS.COM/EDUCATION

- › All packaging is completely recyclable
- › No lead content in any of the glass components
- › LED illumination consumes approximately 80 % less energy than standard halogen illumination
- › The time delay shut-off feature found on the Leica DM750 ensures no energy is wasted
- › Constantly optimizing our logistics chain keeps the CO₂ footprint as low as possible
- › AgTreat™ helps prevent the spread of disease via 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 restrictions on the use of hazardous substances
- › Interactive tour of the Leica DM500 and Leica DM750
- › Leica E-Series stereomicroscopes for low magnification inspection, dissecting, and image capture
- › Leica DM750 P Polarizing Microscope for Earth and Materials Science education
- › Leica DM750 M Microscope for Metallography
- › Selection of higher level microscopes for research
- › A selection of instructional booklets, which are free of charge

Ref 1



DRAFT

QUOTATION DZ2042

Date 5 / Jul / 2021
Sales Person Medist Grup SRL

Item	Description	Qty	Total EUR
	Leica DM500 Features & Benefits: Ref 11 - Optional EZTube™ with preset diopter avoids incorrect adjustments - EZStore™ design with Handle and cord wrap allows easy carrying, easy lifting, and protection against microscope component damage - Pre-focused and pre-centered condenser eliminates the chance the students will make improper settings. - Leica EZLite™ LED illumination saves the cost of replacement lamps and provides a cool white light for over 20 years of average use		
	Stand Ref 12		
100	DM500 Rt.Hnd.Stage Std Stand w/condense DM 500 Right Hand Stage Standard Stand with 4 position nosepiece, Universal Power Supply plus USB Power with integrated connector, mechanical stage with non extending rack and slide holder, Pre-Centered and Pre-Focused Abbe condenser with slot for Phase and Darkfield Sliders and labels for matching objective magnifications, LED illumination, built in handle and cord wrap, Dust cover, User Manual - Note: appropriate Power Cord must be ordered separately No : 13613215 Ref 15	1	
	Tube		
200	30 degree Binocular Tube 30 degree Binocular Tube No : 13613521	1	
	Eyepieces		
300	10X/20 eyepiece w/eyeguard 10X/20 eyepiece w/eyeguard No : 13613530 Ref 11	1	
400	10X/20 Pointer eyepiece w/eyeguard 10X/20 Pointer eyepiece w/eyeguard	1	



No : 13613531

Objectives

500	Obj. HI PLAN 4x/0.10 Objective HI PLAN 4x/0.10 Free working distance: 18.0 mm For use with and without Cover Glass No : 11506226	Ref 13	1
600	Obj. HI PLAN 40x/0.65 Objective HI PLAN 40x/0.65 Free working distance: 0.36 mm For use with a 0.17 mm Cover Glass (DIN/ISO) No : 11506236		1
700	Obj. HI PLAN 100x/1.25 OIL Objective HI PLAN 100x/1.25 OIL Free working distance: 0.10 mm For use with a 0.17 mm Cover Glass (DIN/ISO) Not suitable for Incident Light, except Fluorescence No : 11506238		1

Accessories

800	Immersion oil, 7,4 ml No : 13614800	Ref 16	1
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Power Cables

900	Europe Continental power cord Europe Continental power cord No : 13613901		1
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Shipping terms : EXW - ex works

Validity : 05/07/21 to 04/08/21

CERTIFICATE OF COMPLIANCE

Certificate Number 20140926-E306713
Report Reference E306713-A10-UL
Issue Date 2014-SEPTEMBER-26

Issued to: LEICA MICROSYSTEMS (SCHWEIZ) AG
MAX SCHMIDHEINY-STRASSE 201
CH-9435 HEERBRUGG SWITZERLAND

Ref 1

This is to certify that
representative samples of LABORATORY USE ELECTRICAL EQUIPMENT
Microscope- DM 500 LH,DM 500 RH

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 61010-1, 3rd Edition, 2012-05-11 (ELECTRICAL
EQUIPMENT FOR MEASUREMENT, CONTROL, AND
LABORATORY USE - Part 1: General Requirements)
CAN/CSA-C22.2 No. 61010-1, 3rd Edition, 2012-05,
(ELECTRICAL EQUIPMENT FOR MEASUREMENT,
CONTROL, AND LABORATORY USE - Part 1: General
Requirements)

Additional Information: See the UL Online Certifications Directory at
www.ul.com/database for additional information

Only those products bearing the UL Listing Mark for the US and Canada should be considered as
being covered by UL's Listing and Follow-Up Service meeting the appropriate requirements for US
and Canada.

The UL Listing Mark for the US and Canada generally includes: the UL in a circle symbol with "C" and
"US" identifiers:  the word "LISTED"; a control number (may be alphanumeric) assigned by UL;
and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product.



William R. Carney, Director, North American Certification Programs
UL LLC

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