

OBSERVATION AND PHOTO TUBES



Fig. 41: Standard Tube HC -/4/4



Fig. 42: Ergonomic 15° Tube HC -/0/4, short



Fig. 43: Ergonomic tilting tube HC -/0/4

The interpupillary distance range of 55 to 75 mm can be adjusted easily and precisely with all tubes. The specimen focus is retained during adjustment. When using intermediate systems (see below), the maximum permissible eyepiece field number of 25, 22 or 20 is a result of the total height of the intermediate systems; see p. 19.

HC Tube Program

The HC tubes, designed according to the Siedentopf principle (except for tube HC L 3TP), contain multilens tube optics that convert the infinity beam path coming from the objective to a converging beam path to depict the specimen in the intermediate image plane (eyepiece or TV adapter).

The elimination of residual aberrations is an other task of the tube optics, together with the eyepieces.

The viewing angle of the ergonomic tubes can be adjusted easily without tools.

Changing the viewing angle several times over the course of the day provides variations in the user's sitting posture to prevent fatigue and backache.

This provides further benefits in the case of instruments with multiple users of different heights.

With the trinocular tube HC L 2TU4/5/7 with image correction, the image is upright and laterally correct.

Standard Tube HC -/4/4 (Fig. 41)

- Standard tube if photography or TV adaption are not planned 11505193

Ergonomic 15° Tube HC -/0/4, short (Fig. 42)

- With fixed, ergonomic 15° viewing angle 11505194

Ergonomic VarioTube HC -/0/4, short (Fig. 43)

- As 11 505 194 but with variable viewing angle 7.5–32.5° 11505195

Ergonomic VarioTube HC LVB 0/4/4, long

- With variable viewing angle 0–35° 11501504

Photo Tube HC L 1T 4/5/7, long

- With beam splitting, 50% to vertical port (photo or TV) and 50% to binocular eyepieces 11501500



Fig. 53: Eyepieces

EYEPIECES

A wide range of eyepieces with 10x, 12.5x, 16x or 25x magnification (for field numbers of up to 25 mm) are available for the tubes. Special eyepieces for eyeglass wearers are available, as are eyepieces with adjustable eyelenses (M eyepieces) designed to accommodate a variety of graticules. 10x eyepieces are standard; eyepiece magnifications of 16x and 25x are intended for special applications only.

All eyepieces have removable or fold-down eyecups and can be used with or without eyeglasses. Eyepieces identified with M are equipped with a focusing eyelens for dioptic equalization (from -6.8 to +4.2 or -6 to +5) and graticule holder.

The external diameter of the eyepieces is $D = 30$ mm.

The graticule diameter is $D = 26$ mm. Specifications are engraved on the eyepiece, e.g. HC PLAN 10x/20 $\overline{\text{M}}$. HC PLAN = correction type, 10x = magnification/20 = field number FOV, $\overline{\text{M}}$ = for eyeglass wearers (high exit pupil), M = dioptic adjustment/graticule holder.

Eyepieces with FOV 20

- | | |
|--------------------------------|----------|
| • Eyepiece HC PLAN 10x/20 BR. | 11507801 |
| • Eyepiece HC PLAN 10x/20 BR.M | 11507802 |

Eyepiece with FOV 22

- | | |
|----------------------------------|----------|
| • Eyepiece HC PLAN S 10x/22 Br.M | 11507820 |
|----------------------------------|----------|

Eyepiece with FOV 25

- | | |
|----------------------------------|----------|
| • Eyepiece HC PLAN S 10x/25 Br.M | 11507808 |
|----------------------------------|----------|

Special eyepieces with high magnification

- | | |
|---|----------|
| • Eyepiece HC PLAN 12.5x/16 BR.M | 11506515 |
| • Eyepiece 16x/14B, adjustable | 10445301 |
| • Distance ring for eyepieces 16x/14B and eyepiece 25x/9.5B | 11506808 |

Focusing and framing graticules for length measurements, comparison and counting methods ($\varnothing = 26$ mm)

For HC PLAN eyepieces

- | | |
|--|----------|
| • Graticule 10 mm = 100 parts | 11506950 |
| • Graticule 10 mm = 200 parts | 11506951 |
| • Crosshair graticule | 11506953 |
| • Crosshair graticule with graduation, 10 mm = 100 parts | 11506952 |
| • Graticule with grid 10 x 10 mm, 0.1 mm graduation | 11506954 |
| • Graticule with grid 10 x 10 mm, mm graduation | 11506955 |

LEICA DM1000-3000 STANDS

The Leica DM1000-3000 Stands for Medical and Biological Applications

The stand is the foundation of the microscope. It includes the focusing system, objective turret, stage and accessories, transmitted light axis and power supply.

By selecting from a range of modules such as light sources, filters, transmitted-light and fluorescent components, tubes, eyepieces and objectives, it is possible to assemble a personal, application-specific microscope system.

The modular design, allows the user to modify and extend the system to suit changing requirements.

Ergonomics were given special consideration in the design of all stands.

Stands with halogen illumination

Stand	Leica DM1000	Leica DM2000	Leica DM2500	Leica DM3000
Power Supply	Integrated, stabilized wide-range power supply 100–240 V AC for 12 V 30 W	Integrated, stabilized wide-range power supply 100–240 V AC for 12 V 30 W	Integrated, stabilized wide-range power supply 100–240 V AC for 12 V 100 W	Integrated, stabilized wide-range power supply 100–240 V AC for 12 V 30 W
Light Source Transmitted Light	Integrated illumination 12 V 30 W halogen (integrated in base)	Integrated illumination 12 V 30 W halogen (integrated in base)	12 V 100 W halogen (lamp housing 107/2)	Integrated illumination 12 V 30 W halogen (integrated in base)
Light Filters Transmitted Light (optional)	Filter magazine attachment 3 pos. or single filter holder for 2 filters Ø 32 mm	Filter magazine attachment 3 pos. or single filter holder for 2 filters Ø 32 mm	Integrated filter magazine 3 pos. Ø 40 mm or 2-pos. filter holder (not in combination with polarizer ICT/P)	Filter magazine attachment 3 pos. or single filter holder for 2 filters Ø 32 mm
Light Sources Fluorescence	The following light sources can be adapted to all fluorescence illuminators: 12 V 100 W halogen, Hg 50 W, Hg 100 W, Xe 75 W (lamp housing series 106Z/106/107/2) Leica EL6000 (external light source), Leica SFL100, SFL4000 (Fluorescence LED Illumination)			
Focusing	2-gear focusing (coarse/fine) <u>with 1 µm scale, with upper focus stop</u>	2-gear focusing (coarse/fine) with 1 µm scale or 3-gear focusing coarse, (medium), fine with micron scale, 1 and 4 µm micron scale, coarse focus torque, adjustable stage height stop	2-gear focusing (coarse/fine) with 1 µm scale or 3-gear focusing coarse, (medium), fine with micron scale, 1 and 4 µm micron scale, coarse focus torque, adjustable stage height stop	2-gear focusing (coarse/fine) with 1 µm scale or 3-gear focusing coarse, (medium), fine with micron scale, 1 and 4 µm micron scale, coarse focus torque, adjustable stage height stop
Z Stroke per Turn of the Focus Knob	z fine: 0.35 mm z medium: – z coarse: 3.06 mm	z fine: 0.10 mm z medium: 0.40 mm z coarse: 14.137 mm	z fine: 0.10 mm z medium: 0.40 mm z coarse: 14.137 mm	z fine: 0.10 mm z medium: 0.40 mm z coarse: 14.137 mm
Z Travel Range	<u>20 mm</u>	25 mm	25 mm	25 mm
Stage	ErgoStage with L- and R-operation for 1 or 2 specimens, condenser holder, or rotating stage, for 2 specimens	ErgoStage with L- and R-operation for 1 or 2 specimens, condenser holder, or rotating stage, for 2 specimens	ErgoStage with L- and R-operation for 1 or 2 specimens, condenser holder, or rotating stage, for 2 specimens	ErgoStage with L- and R-operation for 1 or 2 specimens, condenser holder, or rotating stage, for 2 specimens
Objective Turret	manual, <u>5 pos. M25</u>	manual, 6 pos. M25 or 7 pos. M25	manual, 6 pos. M25 or 7 pos. M25	automated, 6 pos. M25

VORKONFIGURIERTE GERÄTE

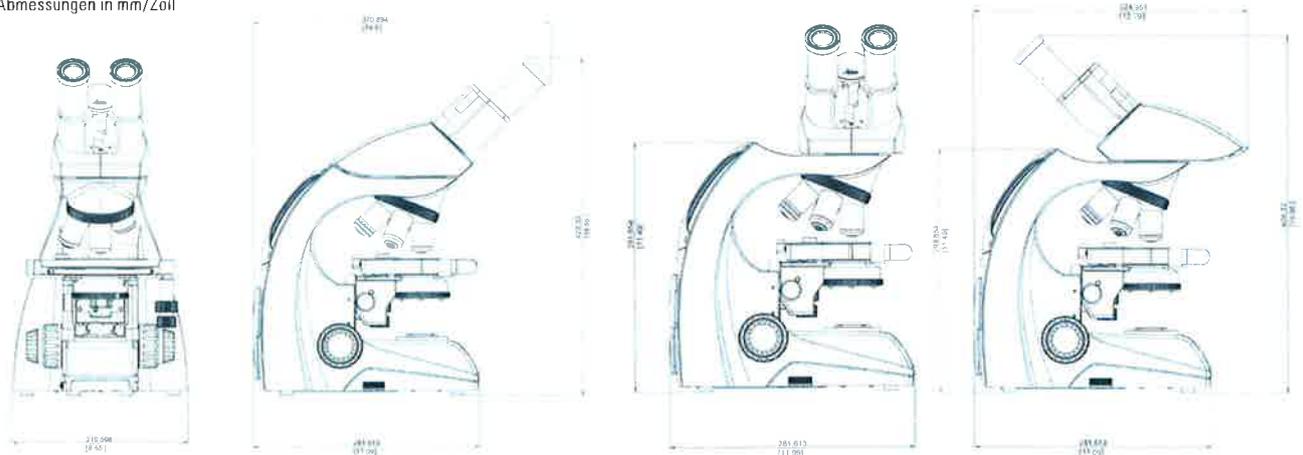
BESTELLNUMMER VORKONFIGURIERTES GERÄT	13 613 207	13 613 208	13 613 403	13 613 406	13 613 001	13 613 004	13 613 002	13 613 005
	DM500	DM500	DM750	DM750	DM750	DM750	DM750	DM750
STATIVE								
13 613 215 Leica DM500 RH Stativ für Rechtsbedienung mit Kondensator	X	X						
13 613 010 Leica DM750 RH Stativ für Rechtsbedienung			X	X	X	X		
13 613 011 Leica DM750 RH Köhler-Stativ für Rechtsbedienung							X	X
TUBEN								
13 613 224 45°-EZ-Tubus	X		X					
13 613 225 45°-EZ-Tubus mit Zeiger		X		X				
13 613 520 45°-Binokulartubus					X	X	X	X
OKULARE								
13 613 530 10x/20 Okular mit Augenmuschel					X		X	
13 613 531 10x/20 Zeiger-Okular ohne Augenmuschel						X		X
13 613 532 10x/20 Fokussier-Okular ohne Augenmuschel					X	X	X	X
KONDENSOREN								
13 613 550 Abbe-Kondensator 0.9 trocken/1.25 Öl			X	X	X	X	X	X
OBJEKTIVE								
13 613 240 Plan 4x/0.10 NA, 26.2 mm W.D.	X	X	X	X				
13 613 241 Plan 10x/0.22 NA, 7.8 mm W.D.	X	X	X	X				
13 613 242 Plan 40x/0.65 NA, 0.31 mm W.D.	X	X	X	X				
13 613 243 Plan 100x/1.25 NA, 0.10 mm W.D., Öl	X	X	X	X				
11 506 226 HI Plan 4x/0.10 NA, 18.0 mm W.D.					X	X	X	X
11 506 228 HI Plan 10x/0.25 NA, 12.0 mm W.D.					X	X	X	X
11 506 236 HI Plan 40x/0.65 NA, 0.36 mm W.D.					X	X	X	X
11 506 238 HI Plan 100x/1.25 NA, 0.10 mm W.D., Öl					X	X	X	X
13 614 800 Immersionsöl	X	X	X	X	X	X	X	X

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NETZKABEL NICHT IM LIEFERUMFANG ENTHALTEN: Bitte separat bestellen.

ABMESSUNGEN LEICA DM500 / DM750

Abmessungen in mm/Zoll



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LEICA DM1000/DM1000 LED

- Coaxial coarse/fine focusing, 20 mm travel with adjustable focus stops
- Height-adjustable focus knobs
- 5-position objective turret (M25)
- Condenser holder with centering and height adjustment (with right- and left-hand adjustment) and clamping screw for condenser locking
- Power cable, removable
- Integrated stage bracket

Leica DM1000 Stand (Fig. 1)

- Integrated halogen illumination 11 888 133
- Integrated power supply for 12 V 30 W

Leica DM1000 LED Stand (Fig. 2)

- Integrated LED illumination
- External power supply 100-240 V AC 11 888 842

Koehler illumination as fixed preset 11 888 156

or
Koehler kit for variable adjustment 11 888 155

Focus knobs for Leica DM1000/DM1000 LED
with standard surface 11 888 134

or
Focus knobs for Leica DM1000/DM1000 LED
with rubberized surface 11 888 136



Fig. 1: Leica DM1000



Fig. 2: Leica DM1000 LED

STAGES LEICA DM1000/DM1000 LED

ErgoStage for DM1000/DM1000 LED for right- and left-hand operation for 1 slide
with ultrahard ceramic stage plate, Travel range: 76 x 25 mm 11888185

Required for ErgoStage for Leica DM1000/DM1000 LED:

Coaxial drive (x/y) can be installed for right- or left-hand operation:

- Standard (Fig. 3) (with ergonomic low position for comfortable resting of hands on table) with removable rubber covers 11888153

- or
- Telescoping with adjustable torque and removable rubber covers 11888154

- or
- Stage lock 11888199

- Single-hand specimen holder (for one specimen) 11505196

- Multifunctional specimen holder (e.g. for counting chambers) 11505254
optional: Brackets for KOVA slides 11 505 267

- or object guide BIO for mechanical stage right 11505156

(Note: object guide BIO 11505156 from DM4/6 B range is not applicable for vernier reading with ErgoStages for DM1000 11888185 and DM2-3000 11888186)

Alternative: all stages from Leica DM2000-3000 microscopes can also be used.



Fig. 3: Standard Coaxial Drive (x/y)

ACCESSORIES

Specimen markers (Fig. 58)

- With objective thread M25, with diamond tip 11505059

Focusing telescope

- For phase contrast adjustment, interference contrast ICT 11505070

Stage micrometer

- Transmitted light 2 mm = 200T, glass carrier with scale
1 scale interval = 10 µm 11513106
- Incident light 10mm = 100T for overview objectives (e.g. 1.25) 11519963

Immersion Oil

- Type F, ISO 8036, very low autofluorescence, highly recommended for
fluorescence applications and APO objectives, 10 ml 11513859
- Type N, ISO 8036, low autofluorescence, 20 ml 11513860
- Type N, ISO 8036, low autofluorescence, 250 ml 11513861

Dust covers

- For Leica DM1000/DM1000 LED 11501071
- With camera equipment or fluorescence light axis 11501072
- For Leica DM2000/2500/3000 11501073
- With camera equipment or fluorescence light axis 11501074

Antivibration

- Antivibration Platform for Leica DM2000-3000 11532708



Fig. 58: Specimen marker

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