

From Eye to Insight



LEICA DM1000/DM1000 LED  
LEICA DM2000/DM2000 LED  
LEICA DM2500/DM2500 LED  
LEICA DM3000/DM3000 LED

**Modular System**

Stand, modules, accessories

May 2019



# LEICA DM1000/1000 LED

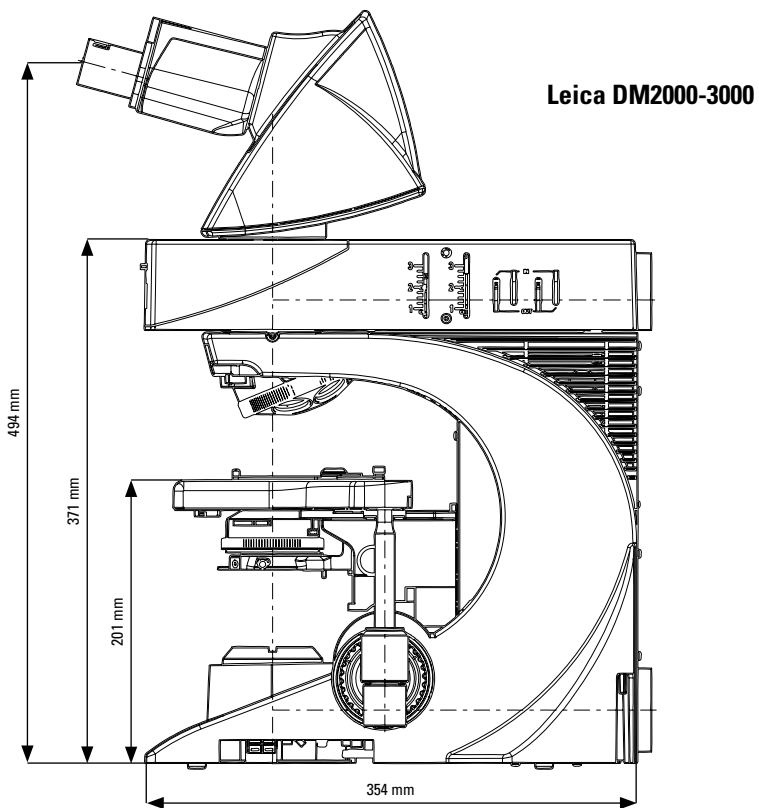
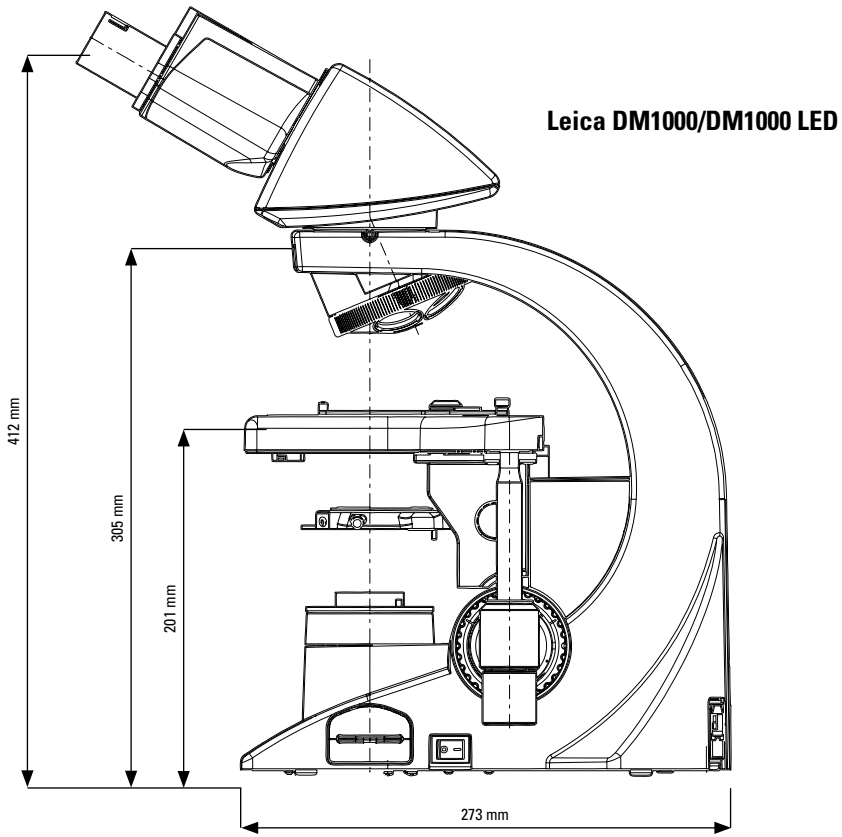
# LEICA DM2000/2000 LED

# LEICA DM2500/2500 LED

# LEICA DM3000/3000 LED

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# 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) with 1 µm scale, with upper focus 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	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	20 mm	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, 5 pos. M25	manual, 6 pos. M25 or 7 pos. M25	manual, 6 pos. M25 or 7 pos. M25	automated, 6 pos. M25

## Stands with LED illumination

Stand	Leica DM1000 LED	Leica DM2000 LED	Leica DM2500 LED	Leica DM3000 LED
Power Supply	External, stabilized wide-range power supply 100-240 V AC	Integrated, stabilized wide-range power supply 100-240 V AC	Integrated, stabilized wide-range power supply 100-240 V AC	Integrated, stabilized wide-range power supply 100-240 V AC
Light Source Transmitted Light	Integrated constant color LED illumination (integrated in base)		Constant color LED illumination lamp housing (LH113 LED)	Integrated constant color LED illumination (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) with 1 µm scale, with upper focus 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	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	20 mm	25 mm	25 mm	25mm
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, 5 pos. M25	manual, 6 pos. M25 or 7 pos. M25	manual, 6 pos. M25 or 7 pos. M25	automated, 6 pos. M25



## 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
- Integrated power supply for 12 V 30 W

11 888 133

### 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

## 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. 1: Leica DM1000



Fig. 2: Leica DM1000 LED



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

## LEICA DM2000/DM2000 LED LEICA DM2500/DM2500 LED

Thermal compensation minimizes focus shift due to changes into the room or stand temperature.

- Stabilized wide range power supply 100–240 V AC
- Coaxial coarse-/fine focusing, 25 mm travel
- Height-adjustable focus knobs, with adjustable height stop
- Integrated stage bracket
- Condenser holder with centering and height adjustment (with right- and left-hand operation) and clamping screw for condenser locking:

### Leica DM2000 LED Stand (Fig. 4)

- With integrated power supply and constant color LED illumination 11 888 843

### Leica DM2000 Stand (Fig. 4)

- With integrated power supply for 12 V 30 W 11 888 138

### Leica DM2500 Stand (Fig. 5)

- With integrated power supply for 12 V 100 W halogen illumination (external lamp housing for 100 W halogen illumination) 11 888 139

### Leica DM2500 LED Stand, IVD (for In Vitro Diagnostics) (Fig. 6)

- With integrated power supply for constant color LED illumination (external LED lamphousing LH113 LED) 11 888 855

Or (Alternative):

### Leica DM2500 LED Stand (Fig. 6)

- (as above, for RUO- Research Use Only) 11 888 856

### Required for Leica DM2500/DM2500 LED:

- Baseplate with integrated filter magazine for 3 filters 11 888 146
- or
- Baseplate without filter magazine 11 888 145

### Required for both Leica DM2000 and DM2500 Stands:

Objective turret:

- 6-position objective turret M25 with slot for IC prisms 11 888 140
- or
- 7-position objective turret M25 with slot for IC prisms 11 888 141

Focusing, each with individually adjustable torque, coarse focus, and stage height stop, as well as height-adjustable focus knobs:

- 2-gear (coarse/fine) 11 888 143
- or
- 3-gear (coarse/medium/fine)



Fig. 4: Leica DM2000



Fig. 5: Leica DM2500



Fig. 6: Leica DM2500 LED

## LEICA DM3000 LEICA DM3000 LED

Thermal compensation minimizes focus shift due to changes into the room or stand temperature.

- Stabilized wide range power supply 100–240 V AC
- Coaxial coarse-/fine focusing, 25 mm travel
- Height-adjustable focus knobs, with adjustable height stop
- Integrated stage bracket
- Condenser holder with centering and height adjustment (with right- and left-hand operation) and clamping screw for condenser locking:

### Leica DM3000 LED Stand (Fig. 7)

- With Integrated power supply and constant color LED illumination with automated 6-fold objective nosepiece and automatic adjustment of light intensity
- 11 888 844

### Leica DM3000 Stand (Fig. 8)

- With Integrated power supply for 12 V 30 W, with automated 6-fold objective nosepiece and automatic adjustment of light intensity
- 11 888 845

### Foot Switch (for Leica DM3000/DM3000 LED) (Fig. 9)

- Optional foot switch for changing of objective magnification
- 11 505 316

### Required for all Leica DM3000/DM3000 LED Stands:

Focusing, each with individually adjustable torque, coarse focus, and stage height stop, as well as height-adjustable focus knobs:

- 2-gear (coarse/fine) 11 888 143
- or
- 3-gear (coarse/medium/fine) 11 888 144



Fig. 7: Leica DM3000



Fig. 8: Leica DM3000 LED



Fig. 9: Foot Switch

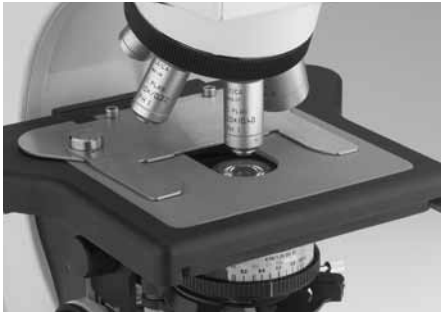


Fig. 10: Ultrahard ceramic stage plate



Fig. 11: Telescoping Coaxial Drive (X/Y)

## STAGES LEICA DM2000/2500/3000

### ErgoStage for Leica DM2000/2500/3000 for 1 slide (Fig. 10)

Right- and/or left-hand operation, with ultrahard ceramic stage plate  
Travel range: 76 x 25 mm

11888186

- Single-hand specimen holder (for one specimen) 11505196  
optional: Object clamp for oil immersion 11505218
- or
- 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)

### ErgoStage for Leica DM2000/2500/3000 for 2 slides

Right- and/or left-hand operation, with ultrahard ceramic stage plate  
Travel range: 76 x 52 mm

11888189

- Single-hand specimen holder (for one or two specimen) 11505244
- or
- Multifunctional specimen holder (e.g. for counting chambers) 11505254  
optional: Brackets for KOVA slides 11 505 267

Required for ErgoStages for 1 or 2 slides:

Coaxial drive (x/y) suitable for mounting on the left or right Fig. 11:

- Standard (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

**Rotating Stage for Leica DM2000/2500/3000 (Fig. 12)**

Right-hand operation, with ultrahard ceramic stage plate, for 2 specimens, 110°rotation range, travel range 76 x 52 mm

11888188

Required for Rotating Stage:

- Standard coaxial drive (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

- Slide holder for 2 slides (for use with rotating stage 11 888 188)

11505242

**Mechanical Stage for Special Applications**

Right-hand operation, with integrated coaxial drive, with telescoping adjustable torque, with ceramic surface, fits only with 2 gear focus drive and condenser 11501183/11505272, for 1 slide

11888841

- Slide holder

11505156

or

- Multifunctional specimen holder (e.g. for counting chambers)

11505254

optional: Brackets for KOVA slides 11 505 267

**Heating Stage**

- Optional for all stages Thermoplate Leica TPX-Type D

11533380

The mechanical stages from Leica DM2000-3000 fit also to the Leica DM1000

**Motorized stage 75x50 with integrated controller for Leica DM2000-3000 (Fig. 13)**

including object holder for 1 slide 76 x 26 mm (3" x 1")

Travel range: for 1 slide

Repeatability: < 1µm

Accuracy: +/- 3µm

Resolution: 0.05µm (smallest step size);

Maximum travel speed: 120mm/s, with integrated measuring system

11505298



Fig. 12: Rotating Stage



Fig. 13: Motorized stage 75x50 with integrated controller

## TRANSMITTED LIGHT ILLUMINATION

Consists of

- Light source
- Power supply
- Stand/integrated transmitted light axis, with field diaphragm
- Holders for filters
- Condenser holder
- Condenser, condenser head
- Turret disk, light rings, IC prisms

### Transmitted Light Condensers

#### Condenser Holder

The condenser holder is required for transmitted illumination (TL).

It is included in standard delivery of the Leica DM1000–DM3000 stands.

The condenser holder has the following features for adjusting the Koehler illumination: height adjustment (focusing) of the condenser at left and right; condenser centering with fine thread, and clamping screw to lock condenser. The centering is therefore preserved when removing the condenser for cleaning.

#### Condenser Lens for all Leica DM1000, DM2000 and DM3000 (Fig. 14)

for the Condenser CL/PH, CLP/PH, Achr.apl., automated Achr.apl., UCL and UCLP (not applicable for Leica DM2500)

- Condenser lens CL 11501231
- Condenser lens CL Pol 11501060

All condensers (with the exception of special darkfield condensers) feature an integrated aperture iris diaphragm with a scale for reproducible illumination aperture settings.

#### Condenser CL/PH 0.90/1.25 OIL, CC (Fig. 15)

- With color coding (CC) for rapid adaptation of the aperture to the objective. Dry and immersion, 1.2 mm focal intercept for normal specimens. With slot for light ring slider, etc. For brightfield, darkfield, phase contrast, but not for polarization (see below), Koehler illumination, from 4x objective magnification without switching condenser head

- Lowest objective magnification 2.5x with diffusion filter slider CL 11505197  
11505091
- For the Leica DM2500 a diffusion filter slider (11 505 091) is necessary for objectives below 10x with condenser CL/PH.

#### Condenser CLP/PH 0.85

- For qualitative polarization, brightfield, darkfield, phase contrast. Like condenser CL/PH, but nontensioned and not for immersion. The slot at the side is designed to accommodate DF/PH light rings, as well as the lambda plate for polarization.
- The CL/Pol auxiliary lens is required for use with the Leica DM1000, DM2000 and DM3000: CL Pol condenser lens

11551042

11501060

Diffusion filter slider CL (11505091) for 2.5x objective usable, but not for polarization.



Fig. 14: Adapter Lens for all Leica DM1000, DM2000 and DM3000



Fig. 15: Condenser CL/PH 0.90/1.25 OIL

**Condenser Achr.apl. A 0.9 (P)**

- With color coding for rapid adaptation of the aperture to the objective. For brightfield/darkfield, phase contrast and qualitative polarization. With movable condenser head, from objective magnification 1.25x Koehler illumination from objective magnification 10x 11501183

**Automated Condenser Achr. apl. A 0.9 (P) (only with Leica DM3000) (Fig. 16)**

- With automated switchable condenser top. With color coding for rapid adaptation of the aperture to the objective. For brightfield/darkfield, phase contrast and qualitative polarization. 11505272

**Additional Accessories for Manual and Automated Condenser Achr. apl. A 0.9 (P)**

(Note: only for use with ErgoStages and Rotating stage)

- Diffuser for low magnifications (not for POL). For use with 1.25x - 5x objectives to enhance the image quality in particular for H.E. stained samples. The diffuser will be automatically switched into the light path with the magnification below 10x. 11505219
- or
- Auxiliary lens for low magnifications (also for POL) For use with 5x and 2.5x objectives to enhance the image quality. The lens will be automatically switched into the light path with the magnification below 10x. 11505507

**Accessories**

For condensers CL/PH, CLP/PH, Achr. apl. A 0.9 (P) and automated Achr. apl. A 0.9 (P)

- λ-Plate for polarization (Fig. 18.5) 11555074
  - Light ring slider DF-CL (Fig. 18.6) 11501158
  - Light ring slider PH1-CL (Fig. 18.7) 11501155
  - Light ring slider PH2-CL (Fig. 18.8) 11501156
  - Light ring slider PH3-CL (Fig. 18.9) 11501157
  - Diffusion filter for 2.5x objective, not for Pol (Fig. 18.10) 11505091
- (Darkfield possible from 10x objective on)

**Universal Condenser UCL 0.90/1.25 OIL (Fig. 17)**

- As condenser CL/PH, but with 5-position light ring disk (Fig. 18.2) to accommodate light rings (Fig. 18.1) and auxiliary lens (11555040) for objective 2.5x (Fig. 18.3) 11501159

For Leica DM2500 a diffusion screen lens (11 555 040) is necessary for objectives below 10x with UCL condenser.



Fig. 16: Automated Condenser Achr. apl. A 0.9 (P) (only with Leica DM3000)



Fig. 17: Universal Condenser UCL 0.90/1.25 OIL

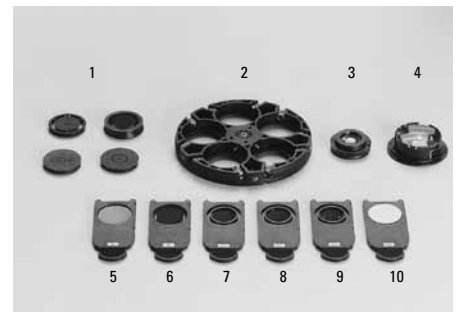


Fig. 18: Accessories for condensers UCL/UCLP and CL/PH

- 1 Light rings
- 2 Light ring disk
- 3 Auxiliary lens for 2.5 x objective
- 4 Adapter lens
- 5 λ-Plate for polarization
- 6 Light ring slider DF-CL
- 7 Light ring slider PH1-CL
- 8 Light ring slider PH2-CL
- 9 Light ring slider PH3-CL
- 10 Diffusion filter for 2.5x/1.25x objective

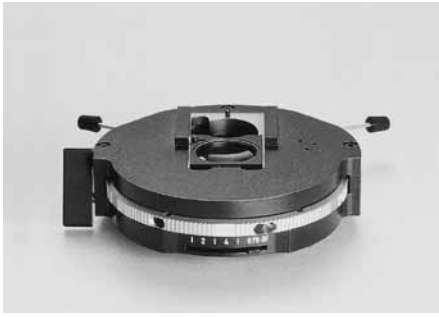


Fig. 19: Pol Universal Condenser UCA/P

**Pol Universal Condenser UCLP 0.85.**

- As UCLP, but non-tensioned for qualitative and quantitative polarization. Not for oil. Compensator plates  $\lambda$  and  $\lambda/4$  can also be inserted in the rotating frame. Special advantage: dust and theft protection, fast access, cannot be misplaced

11551043

**Accessories for Condensers UCL/UCLP:**

- Light ring set UCL for DF, PH1 – 4
- Auxiliary lens for 2.5x objective
- Lambda plate ( $\lambda$ ) for light ring disk UCLP
- $\lambda/4$  plate for light ring disk UCLP

11501069

11555040

11555073

11555043



Fig. 20: Condenser heads

**Pol Universal Condenser UCA/P [1–6] (Fig. 19)**

- For switchable condenser heads (see below), with condenser disk (6 position). Not for Leica DM1000/DM1000 LED, methods: brightfield (from objective magnification 1.25x, no auxiliary elements required with Leica DM2500), darkfield, phase contrast, qualitative polarization, interference contrast ICT condenser base UCA/P with disk 6x

11551062

**Condenser Heads; Replaceable, only for Condenser UCA/P (Fig. 20)**

- Achromatic Condenser Head 0.90 S1 (focal intercept 1mm), low-strain 11505150
- Achromatic Condenser Head P 0.90 S1 (focal intercept 1mm), extremely low-strain, for polarization 11551072
- Achromatic Condenser Head P 1.40 OIL S1 (focal intercept 1mm), extremely low-strain, for polarization and highest microscopic resolution 11551004
- Achromatic Condenser Head 0.50 S15 (focal intercept 15mm), e.g. when using thicker glass slides or for heating stages, low-strain 11501037

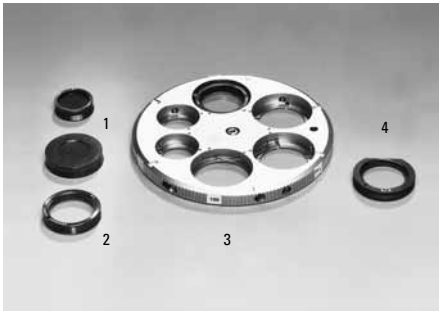


Fig. 21: Accessories for Condenser UCA/P

- 1 Light Ring Set DF/PH
- 2  $\lambda$  plate
- 3 Condenser disk
- 4 IC condenser prisms K

**Accessories for Condenser UCA/P (Fig. 21)**

- Light Ring Set DF/PH only with condenser head 0.90/ focal intercept up to 1.2 mm 11521504
- Light ring PH1/S15: only with condenser head 0.50/S15 11505113
- $\lambda$  plate 11555027
- $\lambda/4$  lambda plate 11555026
- IC condenser prisms K

**Mirror darkfield condensers (Fig. 22)**

Darkfield mirror condensers allow increased darkfield quality in comparison to standard condensers (from 20x objectives on).

- Dry darkfield condenser head D 0.80–0.95 11505152
- Immersion darkfield condenser head D 1.20–1.44 OIL 11505153

required:

- Condenser base D/L 11505075



Fig. 22: Mirror darkfield condensers

- 1 Condenser base D/L
- 2 Darkfield condenser head
- 3 Immersion darkfield condenser head

## INCIDENT LIGHT FLUORESCENCE ILLUMINATION

(Available as upgrade for fluorescence microscopy).

Required incident light components:

- Incident Illuminator
- Light source, power supply
- Filter systems
- Objectives

### Incident Illuminators

All incident illuminators are mounted on the basic stand; they are also suitable for transmitted light, for which an empty position or System A should be selected.

#### Fluorescence Illuminator LSF 4/20 for Leica DM1000/DM1000 LED (1.5 inch)

(Fig. 23)

- Up to eyepiece field number 20, with slider for 3 filter systems size S, with adjustment lens for lamp and light trap to suppress stray light, blue filter BG 38 and dark stop, switchable

11505122

#### Fluorescence Illuminator LRF 4/22 for Leica DM2000/2500/3000 (1 inch) (Fig. 24)

- Maximum eyepiece field number 22, with centerable aperture and field diaphragms, 5 position fluorescence turret for filter systems size K, 3 switchable neutral density filters for intensity adjustment, and light stop. Light trap to suppress stray light. (Suitable also for Leica DM1000)

11505235

#### Light Stop for Stand with LED illumination

- Plate, to be inserted between the stage plates. 11505275
- Light stop for DM2500 LED, 40 mm diameter (for integrated transmitted light filter magazine 11888146) 11505314
- Light stop in holder for DM1000-3000 LED, 32 mm diameter (for filter holder 11505067 or 11505085) 11505315

#### Fluorescence Shield Leica DM1000-DM3000

- to be inserted between stand and fluorescence axis 11505271



Fig. 23: Fluorescence Illuminator LSF 4/20



Fig. 24: Fluorescence Illuminator LRF 4/22



Fig. 25: Filter block A4

## LIGHT SOURCES AND POWER SUPPLIES

### Leica DM1000/2000/3000 Stand:

Transmitted light illumination system integrated in base of stand, stabilized power supply, automatic 100–240 V AC power adaptation, including removable power plug. Halogen lamp, 12 V 30 W, easy replacement, no adjustment required. With reflector, microprism diffusion filter, aspherical collector, field diaphragm for Koehler illumination.

### Leica DM1000 LED/DM2000 LED/DM3000 LED Stand

As above but with LED illumination.

### Leica DM2500 Stand:

With integrated transmitted light axis, field diaphragm, with or without filter magazine (40 mm diameter filters). Power supply/light source automatic power adaptation, 50/60 Hz, 100–240 V AC.

Output: for 12 V 100 W halogen lamp, stabilized, for attachable lamp housing 107/2 and 106.

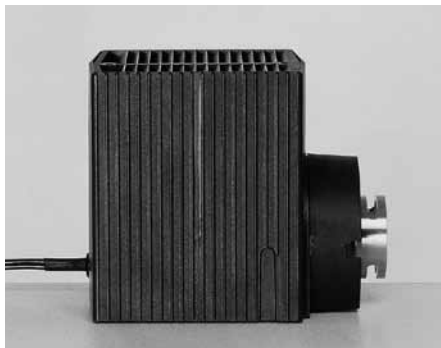


Fig. 26: Lamp housing 107/2 (single-lens)

### Light Sources for Transmitted and Incident Light

#### Lamp housing 107/2 (Fig. 26)

- with 12 V 100 W halogen lamp, heat-absorbing filter, single-lens aspherical collector, microprism diffusion filter for enhanced brightness and homogeneity of the illuminated area.

For TL (Leica DM2500)

11504080

#### Lamp housing 106 (Fig. 27)

spherically corrected, 2-lens collector, focusable, with heat-absorbing filter, with adjustable lamp mount for halogen lamp 12 V 100 W, microprism filter for enhanced brightness and homogeneity of the illuminated area.

- With connecting cable, 0.55 m
- With connecting cable, 2.00 m

11504058

11504059

#### Lamps/burners:

- Halogen 12 V 30 W
- Halogen 12 V 100W lamp
- Hg 50 W burner
- Hg 100W burner
- Xe 75 W burner
- Lamp HXP R120/45C-Vis for Leica EL6000
- Hg 103 W/2\* burner

11500317

11500974

11500137

11500138

11500139

11504120

11500321

\* as Hg 100W, but with longer lifetime

### Light Source for Transmitted Light for Leica DM2500 LED Stand

#### Lamp housing LH113 LED (Fig. 28)

Metal lamp housing with pre-centered LED, with constant color temperature at 4500 K, with cable 0.5 m. LED Power: 10 W

11504199



Fig. 27: Lamp housing 106 (double-lens)



Fig. 28: LED lamp housing LH113 LED

## Light Sources for Incident Light

A high-pressure mercury burner is recommended for fluorescence, with the Hg 103/W2 burner to provide increased intensity and a longer working life for better economy. The 6-lens collector is recommended as an alternative to the 4-lens model for work in near UV. The 12 V 100 W halogen lamp (LH 107/2, LH 106, LH 106Z) can also be used for routine methods such as FITC. The lamp housings with 1.5 inch collector fit to Fluorescence Illuminator LSF 4/20 (11 505 122) only.

### Lamp housing 107/2 (Fig. 26)

- with 12 V 100 W halogen lamp, see above

11504080

### Lamp housing 106

spherically corrected 2-lens collector, focusable, with heat-absorbing filter, with adjustable lamp mount for halogen lamp 12 V 100 W, microprism filter for enhanced brightness and homogeneity of the illuminated area.

- With connecting cable, 0.55 m
- With connecting cable, 2.00 m

11504058

11504059

### Lamp housing 106Z (Fig. 29)

chromatically corrected focusable 4-lens collector with heat-absorbing filter. Reflector and lamp mount centerable, focusable reflector.

- With lamp mount for Halogen lamp 12 V 100 W
- With lamp mount for Hg 50 W (1.5 inch)
- With lamp mount for Hg 50 W (1 inch)
- With lamp mount for Hg 100 W and 103 W/2 (1.5 inch)

11504070

11504066

11504137

11504069

**Lamp housing 106Z** for incident light, broadband transmission optimized and chromatically corrected 6-lens collector with heat-absorbing filter, focusable. With lamp mount:

- for Hg 100 W/103 W/2 (1.5 inch)
- for Xe 75 W (1.5 inch)
- for Hg 100 W/103 W/2 (1 inch)
- for Xe 75 W (1 inch)

11504063

11504061

11504114

11504105

### Supply Units:

- Supply unit Hg 50 W (90–250 V)
- Supply unit Hg 100 W and 103 W/2 (90–250 V)
- Supply unit Xe 75 W (90–250 V)

11500333

11500334

11500335

### Mirror housing

11504053

## External Light Sources

### Leica EL6000 (Fig. 30)

- External light source
- Liquid light guide, 2 m
- 1.0 inch fiber optics adapter for lamp mounts
- Adapter sleeve, necessary for Fluorescence Illuminator LSF 4/20
- 1.5 inch fiber optics adapter, necessary for Fluorescence Illuminator LSF 4/20

11504115

11504116

11504117

11504127

11504118

### LED light sources (not available in the US) (Fig. 32)

- Leica SFL100, 365 nm
- Leica SFL100, 470 nm
- Leica SFL100, 530 nm
- Leica SFL4000 (LED Modules, to be ordered separately)

11504196

11504138

11504195

11504139



Fig. 29: Lamp housing 106Z (4 lens)



Fig. 30: Leica EL6000



Fig. 31: 1 Light guide  
2 Adapter for lamp housing receptacle  
3 Adapter sleeve



Fig. 32: Leica SFL100

## LIGHT FILTERS, REFLECTORS

### Leica DM1000,DM2000, DM3000 Transmitted Light Filter Holders

#### Filter magazine DLF (Fig. 33)

- Leica DM1000,DM2000, DM3000, not with polarization; to be placed on the microscope base, including daylight filter DLF, neutral filter N 16 and green filter, panchromatic 11505063



Fig. 33: Filter magazine DLF

#### Filter holder with 2 positions to be placed on the microscope base (Fig. 34)

- for Leica DM1000/DM2000/DM3000 for framed filters, polarizer,  $\lambda$  plate (diameter 32mm) not in combination with polarizer ICT/P (11 555 034) 11505067



Fig. 34: Filter holder for 2 filters

#### Filter holder for 2 framed 32 mm diameter filters under condenser (Fig. 36)

- for Leica DM1000/DM2000/DM2500/DM3000: not in combination with polarizer ICT/P (11 555 034) and filter holder with switchable blue filter (11 505 210) 11505085

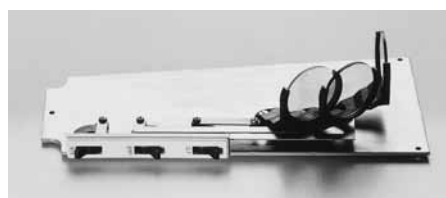


Fig. 35: Transmitted light filter magazin

#### Filter holder with switchable true color blue filter

- for Leica DM1000/2000/3000 11505210
- optional: in addition conversion filter blue 11505246

#### Filter set for gout diagnostics

- Polarizer, analyzer insertable, lambda plate for Leica DM1000 11505207
- Polarizer, analyzer in slider, lambda plate for Leica DM2000/DM3000 11505213

#### Leica DM2500 Transmitted light filter magazine (Fig. 35)

- Integrated filter magazine for transmitted light, for Leica DM2500. The optimal solution, can be fitted with up to 3 filters as required (unframed, 40 mm diameter), integrated in stand 11888146



Fig. 36: Filter holder for 2 filters

#### Filter holder for 2 filters (Fig. 36)

- 32 mm diameter, under condenser not in combination with polarizer ICT/P (11 555 034) and filter holder with switchable blue filter (11 505 211) 11505085



Fig. 37: Transmitted light and incident light spacer

#### Filter holder with switchable true color blue filter

- for Leica DM2500 11505211
- optional: in addition conversion filter blue 11505247

#### Transmitted light and incident light spacer (Fig. 37)

- with filter holders for Leica DM2500 For installation between stand and lamp housing (series 106/107 only). Filter diameter 50 mm (2 when using lamp housing 106, 107/2 and 4 with lamp housing 106Z) 11504030



Fig. 38: Filters

When using transmitted light, individual filters can be provisionally placed on the base of the microscope:

Leica DM1000, DM2000, DM3000: 32 mm diameter

Leica DM2500: 50 mm diameter



Fig. 39: Filters

## Light Filters

### Light Filters, Polarizer, $\lambda$ and $\lambda/4$ plate, 32 mm diameter, Framed, with Handle and Short Designation (Fig. 38)

For Leica DM1000/DM2000/DM3000:

2 position filterholder (11 505 067)

For Leica DM1000/DM2000/DM2500/DM3000:

2 position filterholder (11 505 085), but not in combination with polarizer ICT/P (11 555 034)

Description, Application	Order No.
DLF, daylight filter (blue, conversion filter for daylight film and visual observation)	11514753
Panchromatic green filter for monochrome photography	11512077
VG 9, green filter for contrast enhancement (B/W)	11563122
IL 546 nm (Polarization microscopy, interferometry)	11563155
Neutral filter N 2 (50 %), in holder	11543092
Neutral filter N 4 (25%)	11543093
Neutral filter N 16 (6.3%)	11543184
Polarizer with protective filter	11513711
Lambda plate ( $\lambda$ )	11513908
Quarter lambda plate ( $\lambda/4$ )	11513570
Conversion filter Y/KW65 (Applicable for LED stands only)	11513913
Conversion filter Y (Applicable for LED stands only)	11504229

### Light Filter 40 mm diameter, Unframed, with Label and Short Designation

For Leica DM2500, only for integrated filter magazine, transmitted light only (3 positions)

Description, Application	Order No.
DLF, daylight filter (blue, conversion filter for daylight film and visual observation)	11521577
Panchromatic green filter	11521582
Neutral filter N 16 (6.3%)	11521579
Neutral filter N 4 (25%)	11521580
Neutral filter N 2 (50%)	11521581
VG 9, Narrow-band filter	11521583
Conversion filter Y (Applicable for Leica DM2500 LED only)	11504230
Conversion filter Y/KW65 (Applicable for Leica DM2500 LED only)	11504231

### Light Filter 50 mm diameter, Framed, with Handle and Short Designation

Leica DM1000/1000 LED/2000/3000: to be placed on base of stand;  
Leica DM2500: for spacer with 2–4 filter positions (11 504 030), only in conjunction with a lamp housing of the series 106, 107

Description, Application	Order No.
DLF, daylight filter (blue, conversion filter for daylight film and visual observation)	11514755
Neutral filter N 20 (5%)	11514036

## Fluorescence Filter Systems

Filter blocks can be inserted easily without using tools. Due to their precision design and infinity-corrected optics, filter systems can be replaced when working with multiple wavelengths without causing pixel shift (Zero Pixel Shift).

You will find an actual list of reflectors and filter blocks for incident-light fluorescence microscopy under:

<http://www.leica-microsystems.com/filtercubes>

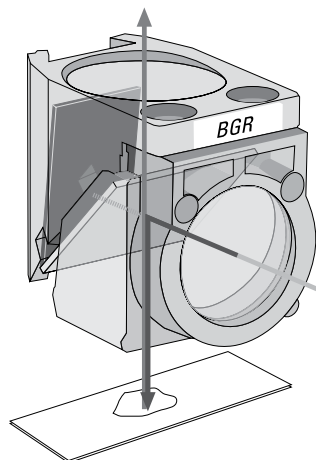


Fig. 40: Filter block BGR

## OBSERVATION AND PHOTO TUBES

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 another 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.



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



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



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

#### 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

**Ergonomic Vario Photo Tube HC L 1VT 0/4/4, long**

- 50% : 50% beam splitting and variable viewing angle 11501502

**Tube BDTP 100/50/0 with fixed port 0/4/4 (Fig. 44)**

- With 3 switching positions, 100% : 0%, 50% : 50%, 0% : 100%, fixed photo-TV port, viewing angle 30° 11551511

**Photo Tube HC L 2TU 4/5/7**

- With image erection, viewing angle 20°, beam splitting: 100% binocular eyepieces, 100% photo-TV port 11501598

**Ergonomic Advanced Vario Tube AET22 –/3/7 (Fig. 45)**

- Binocular ergonomic tube with variable viewing angle 5°–32° and variable eyepiece extension 0–30 mm. 11505148

All other tubes of the Leica DM4–6 series may also be used.

**Intermediate Modules**

The insertion of modules between the stand and tube may result in a reduction of the maximum permissible eyepiece field number.

The 3 numbers following the tube designation, e. g. 4/5/7, indicate the maximum permissible vertical index of the intermediate systems for field numbers 25/22/20. The vertical index is contained in the designations of all intermediate modules, e. g. 2 for Ergomodule L 2/25. When using this Ergomodule together with an HC B 0/3/4 tube, use only eyepieces with field number 22 or 20.

The number “0” in the tube designation 0/3/4 indicates that with a field number of 25, this tube should only be mounted directly on the stand (= vertical index 0). Failure to observe these values may result in vignetting (shading of the edges of the field of view) with some objectives. With some intermediate systems, e. g. fluorescence illuminators, field numbers of 25 and 22 are not possible as a rule, which is also reflected in the designations, e. g. 4/22 for maximum field number 22.

**Imaging module 100/0 (C-mount 0.5x)**

- With switching in positions: 100% : 0%, 0% : 100%  
With fixed C mount (0.5x), centrable, with port to back  
(rotatable to side position possible) 11505300

**Imaging module 0/100 50/50 (C-mount 0.5x) (Fig. 46)**

- With switching in positions: 50% : 50%, 0% : 100%  
With fixed C mount (0.5x), centrable, with port to back  
(rotatable to side position possible, 100% light to the camera) 11505299

**Imaging module 100/0 (C-mount 0.7x)**

- With switching in positions: 100% : 0%, 0% : 100%  
With fixed C mount (0.7x), centrable, with port to back  
(rotatable to side position possible) 11505202

**Imaging module 0/100 50/50 (C-mount 0.7x) (Fig. 46)**

- With switching in positions: 50% : 50%, 0% : 100%  
With fixed C mount (0.7x), centrable, with port to back  
(rotatable to side position possible, 100% light to the camera) 11505270

**Ergomodules** adapt the viewing height to the size and sitting position of the user for an ergonomically sound, comfortable posture.

**Ergomodule L 2/25**

- raises the viewing position by 30 mm for the Leica DM1000 11505199



Fig. 44: Tube BDTP 25 100/50/0 with fixed port



Fig. 45: Ergonomic Advanced Vario Tube AET22



Fig. 46: Imaging module (here with Leica DFC camera and tube)



Fig. 47: Ergomodule L 4/25

#### Ergomodule L 4/25

- Raises the viewing position by 60 mm for the Leica DM1000/DM1000 LED (only for tubes 11 505 193, 11 505 194 and 11 505 195) 11505200

#### Ergomodule L 2/25

- Raises the viewing position by 30 mm for Leica DM2000/2500/3000 11505208

#### Ergomodule L 4/25 (Fig. 47)

- Raises the viewing position by 60 mm for Leica DM2000/2500/3000 (only for tubes 11 505 193, 11 505 194 and 11 505 195) 11505209

#### Variable Ergomodule

- Stepless vertical height adjustment 50-80 mm for increased ergonomics and comfortable work 11505264

#### Magnification changer L 3/25 1x; 1.5x; 2x

- If possible, the total magnification should not exceed 1000x of the objective aperture (useful magnification) 11505252

#### Magnification changer L 3/25 1x; 1.25x; 1.6x

- If possible, the total magnification should not exceed 1000x of the objective aperture (useful magnification) 11505251

#### Drawing attachment L 3/20 (Fig. 48)

- A drawing area to the left or right of the microscope is illuminated by a powerful lamp and displayed in the eyepieces together with the specimen, which permits the specimen contours traced on paper. (for tubes without image erection) 11505092

#### Analyzer holder TL 1/25

- For the DM1000, Height 20 mm, to accommodate one analyzer slider 11505201

#### Analyzer holder TL 1/25

- for the DM1000, Height 60 mm, to accommodate an analyzer slider while functioning as an Ergomodule (only for tubes 11 505 193, 11 505 194 and 11 505 195) 11505212

#### Multi Discussion Devices (Fig. 49)

Standard systems are available for 2, 3, 4, 5 and 10 observers, customized systems up to 20 observers are available upon request. A 100 W lightsource is mandatory for Leica Multiviews with more than five stations. For discussion devices please see special brochure.

#### Ergolifts

Height adjustable and tiltable ergonomical base plates for microscopes, includes comfortable hand rest. (Fig. 50)

- Ergolift for Leica DM1000 11505204
- Ergilft for Leica DM2000/2500/3000 11505205

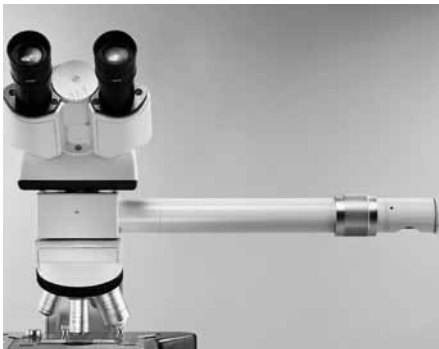


Fig. 48: Drawing attachment L 3/20

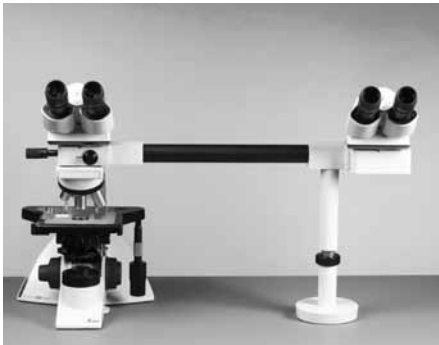


Fig. 49: Discussion device



Fig. 50: Ergolift

## LEICA DIGITAL DOCUMENTATION AND ANALYSIS

A variety of Leica digital camera systems (see special brochures) are available

### TV adapter

You can adapt analog and digital cameras to all tubes with documentation output. The C, B and F-mount adapters are aligned to the dimensions of the holder thread. The various fixed and variable magnification factors allow adjustment of the rendering of the microscopic image on the camera chip. In order to display the largest possible portion of the field of view on the monitor, the magnification factor of the adapter must fit the chip size of the camera. If the magnification is too low, there will be a lack of uniformity to the illuminated area (shading) and/or vignetting.

### Leica digital camera system DFC/DMC

Monochrome and color digital cameras for all requirements between highest resolution and quick live image (see special brochures for Leica Microsystems digital microscope cameras and Leica DMshare)

### Leica application software and image analysis systems

- The Leica LAS (Leica Application Suite) PC interface for the configuration, operation, evaluation and storage of microscope data and images.
- The Leica LAS X, advanced fluorescence imaging systems are ideal for applications in fluorescence microscopy



Fig. 51: Leica DFC cameras



Fig. 52: C-mount adapter

	Recorded picture diagonal in mm with				Order No.
	1-inch camera	2/3-inch camera	1/2-inch camera	1/3-inch camera	
<b>Without zoom magnification, for 1-chip cameras only:</b>					
C-mount adapter 1x HC	16	11	8	6	11 541 510
C-mount adapter 0.7x HC	–	15.7	11.4	7.8	11 541 543
C-mount adapter 0.55x HC	–	–	14.5	10.9	11 541 544
C-mount adapter 0.35x HC	–	–	–	17.1	11 541 512
<b>With variable magnification level (Vario TV adapter) for 1–3 chip cameras:</b>					
C-mount 0.32–1.6x HC	–	–	19*–5	18–3.8	11 541 517
<b>Without variable magnification level, for 1-3 chip cameras:</b>					
C-mount adapter 1x	–	–	16	12	11 543 706
B-mount adapter 1x	–	–	16	12	11 543 702
required for each: TV optics 0.5x HC					11 541 545

\* available beginning with Vario factor 0.42 x!



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

# OPTICS

## Objectives

Based on the Leica principle of infinity distance correction of optics, the microscope objectives are infinity corrected for tube lens systems with 200 mm reference focal lengths. The calibration length is 45 mm for bright field.

The objectives are divided into different correction classes:

When selecting the objectives, consider the intended use with regard to specimen covering, etc.

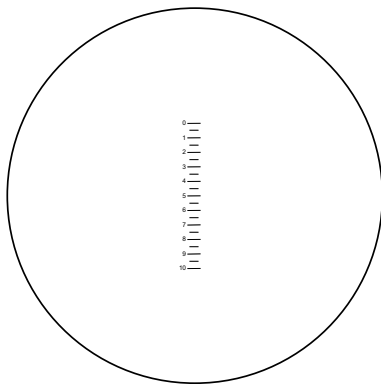
For more detailed explanations, please refer to:  
<http://www.leica-microsystems.com/objectives>



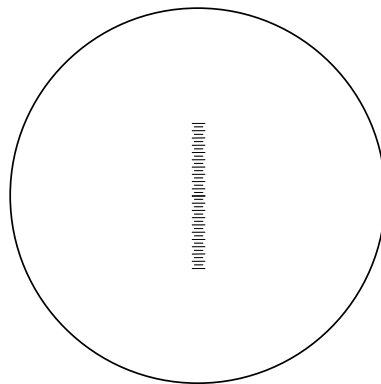
Fig. 54: HI PLAN objectives



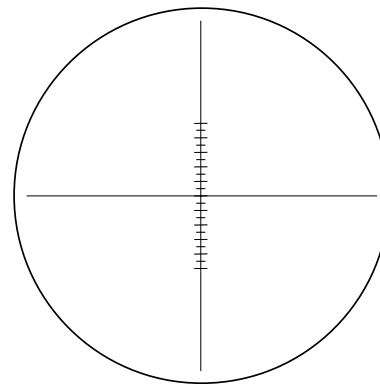
Fig. 55: PL APO objectives



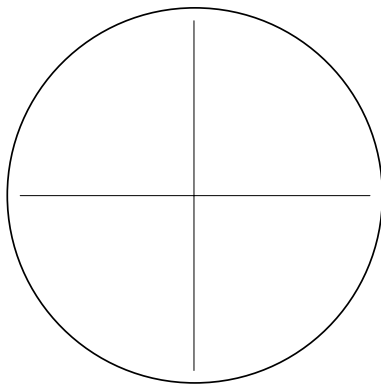
Graticule 11506950



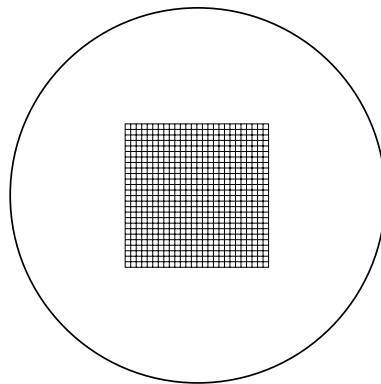
Graticule 11506951



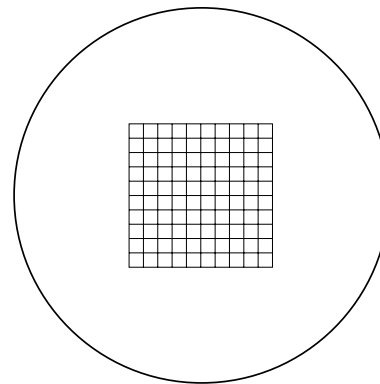
Graticule 11506952



Graticule 11506953



Graticule 11506954



Graticule 11506955

## TRANSMITTED LIGHT CONTRAST METHODS

### **Transmitted Light, Darkfield (DF)**

Minimum objective magnification 10x.

5x also possible with condenser UCA/P and condenser head 0.70 S15.

Maximum objective aperture for darkfield:

DF dry: 0.75      DF oil: 1.10

Objectives with integrated iris diaphragm may be required.

### **DF with system condensers**

Choice of DF diaphragm in individual slider in disk.

Special advantage with system condensers: trouble-free switching to other illumination methods (brightfield, phase contrast, polarization, interference contrast), alternatively:

### **DF with mirror darkfield condensers**

Enhanced DF performance (in many cases), switching to other contrast methods requires switching to a different condenser, however. A powerful light source (100 W) is recommended.

### **Transmitted Light Phase Contrast (PH)**

Choice of light rings in individual sliders (PH 1–PH3) or more conveniently on disk.

- Focusing telescope

11505070

### **Transmitted Light Interference Contrast (ICT)**

(not for DM1000)

Minimum objective magnification: 10 x Required:

Polarizer/analyzer

Condenser UCA/P

Condenser head 0.90 or 1.40 OIL

Objective and condenser prisms

## Polarization, Transmitted Light

Required:

Polarizer, analyzer, optional  $\lambda$ -plate

### Transmitted light polarizers

for interference contrast, polarization contrast and quantitative polarization

#### Polarizer in holder, 32 mm diameter (Fig. 56.2)

- simple solution, for insertion in filter holder (see below) without protective filter
- with protective filter

11505087

11513711

Filter holder for polarizer,  $\lambda$ -,  $\lambda/4$  plate and for filters with 32 mm diameter:

#### Filter holder for 2 filters (Leica DM1000/DM2000/DM3000)

- To be placed on microscope base

11505067

#### Filter holder for 2 filters (Leica DM1000/DM2000/2500/3000)

- To be placed under condenser (not together with flip out true color blue filter)

11505085

#### Polarizer ICT/P (Fig. 56.1)

- Rotatable 360°, switchable, with markings for 0° and 90° positions

11555034

#### Analyzer (Fig. 57.1)

- For insertion in objective turret after removal of tube, Leica DM1000 only

11505068

#### Analyzer holder L1/25

- For analyzer ICT/P and 180°, Leica DM1000 only, 20 mm height
- or 60 mm height

11505201

11505212

#### Analyzer ICT/P (Fig. 57.2)

- not rotatable

11555045



Fig. 56: 1 Polarizer ICT/P  
2 Polarizer in holder  
3 Lambda plate

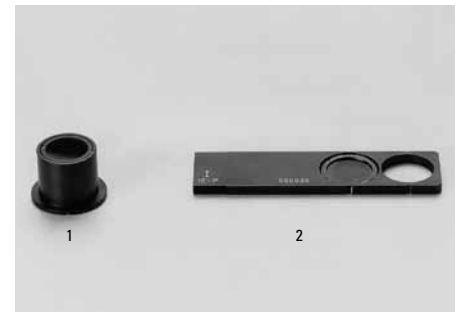


Fig. 57: 1 Analyzer for insertion  
2 Analyzer ICT/P

### $\lambda$ and $\lambda/4$ plates

The following alternatives are available:

a)

For insertion and rotation (high sensitivity) in the filter holder integrated in the condenser (diameter 32mm) and in the holder for the polarizer IC/P.

- Lambda plate (Red I) 11513908
- Quarter lambda plate 11513570

b) For insertion in the slot at the side of the condenser CLP/PH.

- Lambda plate (Red I =  $\lambda$ ) 11555074

c) For installation in the UCLP disk

- Lambda plate (Red I) 11555073
- Quarter lambda plate [ $\lambda/4$ ] 11555043

d) For installation in the UCA/P disk.

- Lambda plate (Red I) 11555027
- Quarter lambda plate 11555026

### Condenser Prisms for ICT (Transmitted Light)

Only for condenser UCA/P

- ICT condenser prism K 1a 11555057
- ICT condenser prism K 2 11555016
- ICT condenser prism K 3 11555017
- ICT condenser prism K 4 11555018
- ICT condenser prism K 5 11555019
- ICT condenser prism K 6 11521521
- ICT condenser prism K 9 11555030
- ICT condenser prism K 10 11521524
- ICT condenser prism K 15 11555060

### Objective Prisms in Sliders,

for Transmitted Light (ICT)

- Objective prism A in slider 11555036
- Objective prism B 1 in slider 11555038
- Objective prism C in slider 11555039
- Objective prism D in slider 11555037
- Objective prism D 1 in slider 11555063
- Objective prism E in slider 11555072

## 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



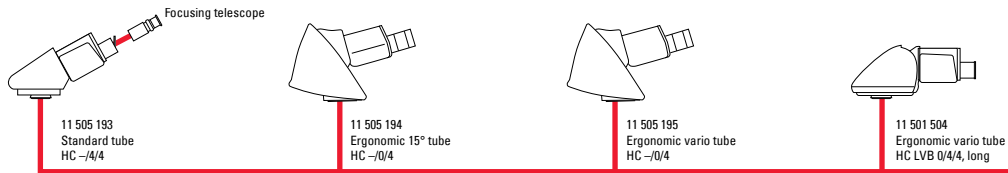
Fig. 58: Specimen marker

# SYSTEM OVERVIEW

LEICA DM1000/DM1000 LED  
 LEICA DM2000/DM2000 LED  
 LEICA DM2500/DM2500 LED  
 LEICA DM3000/DM3000 LED

## Tube program L

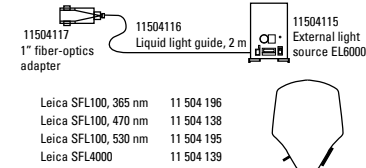
### Binocular tubes



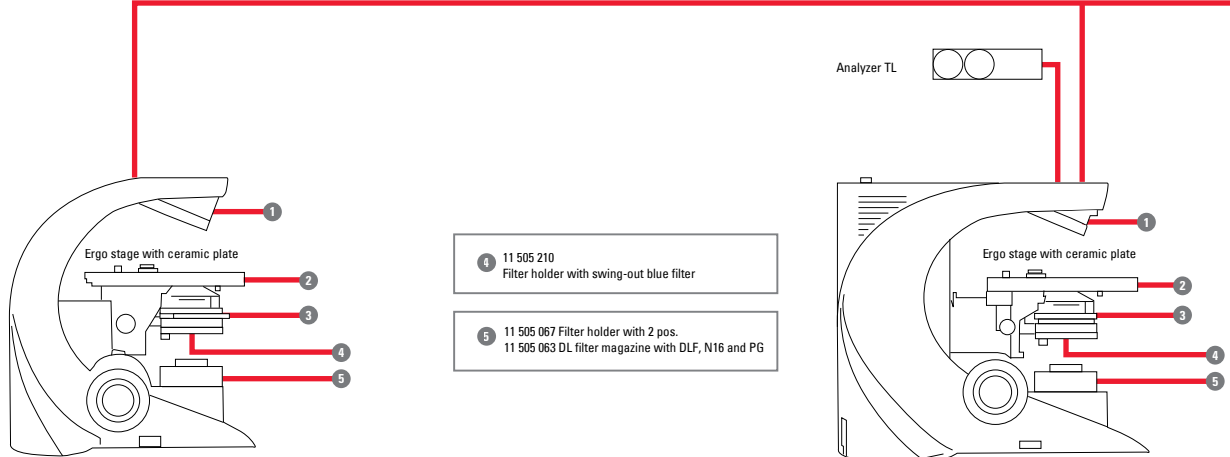
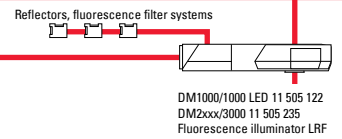
### Lamp housing series 106 and 107/2 for incident light

LH 106 /107/2 with 12 V 100 W halogen

LH 106 Z with Hg 50, Hg 100 or Xe 75 and supply unit

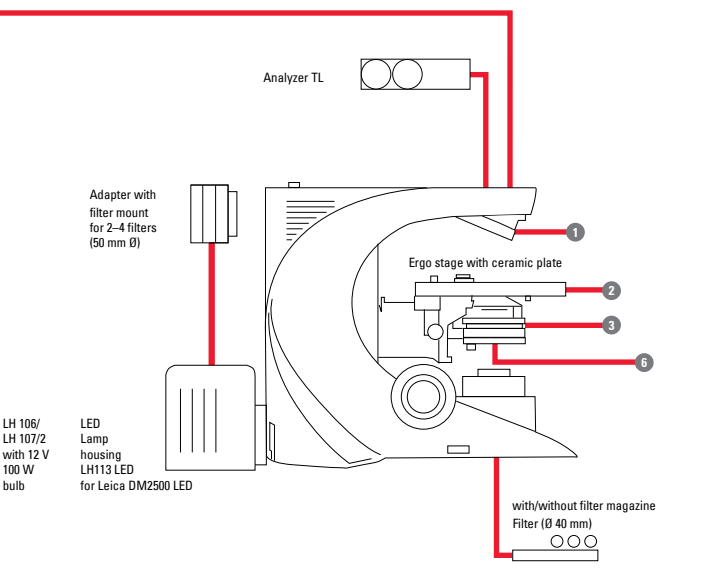
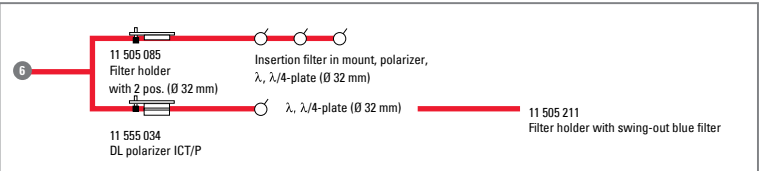
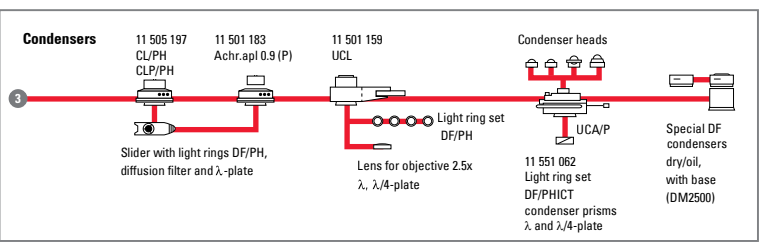
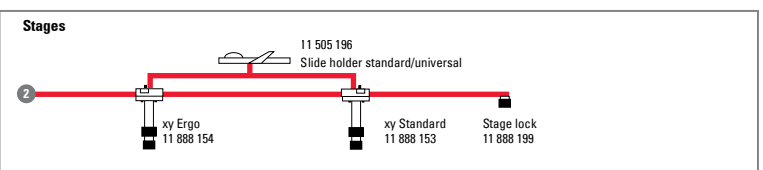
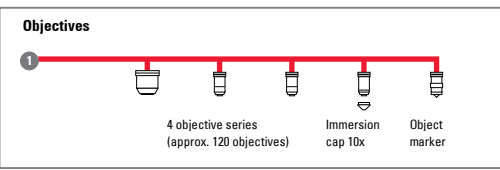
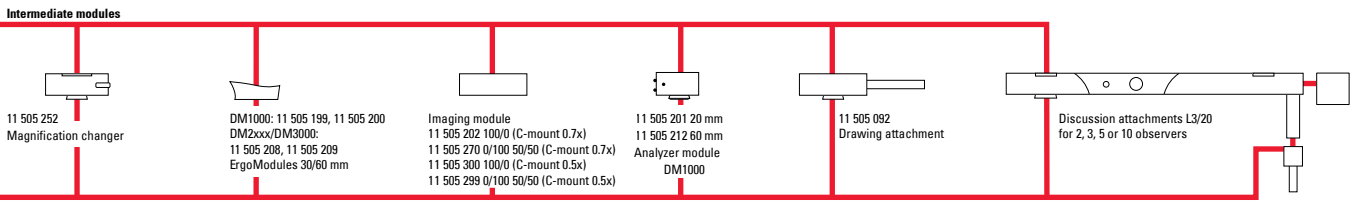
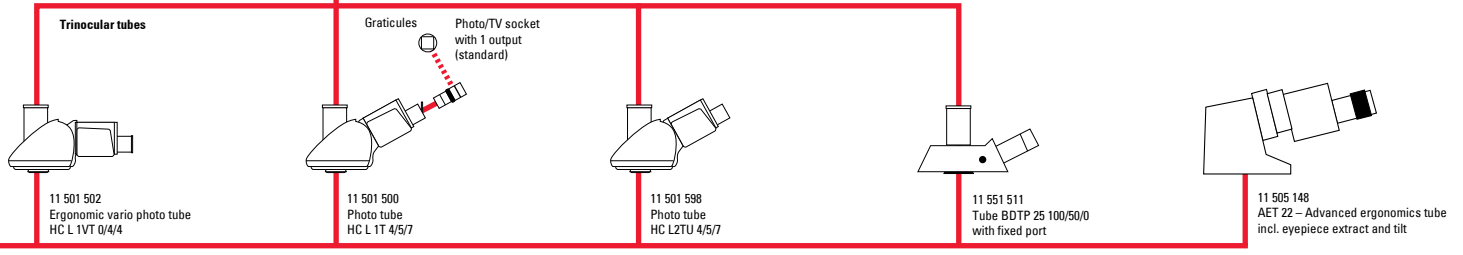
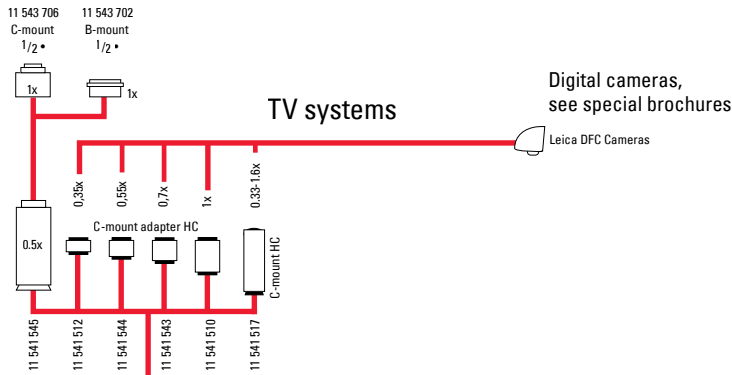


### Incident-light modules



LEICA DM1000/DM1000 LED

LEICA DM2000/DM2000 LED  
 LEICA DM3000/DM3000 LED



**LEICA DM2500/DM2500 LED**

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