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From Eye to Insight

Leica
MICROSYSTEMS

LEICA DMi8 M
LEICA DMi8 C
LEICA DMi8 A

The modular system: Stands, components, accessories

May 2021



LEICA DMi8 M, LEICA DMi8 C, LEICA DMi8 A

Modular system

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LEICA DMi8 – INTRODUCTION

The Leica DMi8 is the highly modular inverted research microscope. It is designed for all common microscope applications and techniques. All contrast methods such as brightfield, oblique illumination, darkfield, differential interference contrast (DIC), polarization contrast, phase contrast and fluorescence are integral to the microscope and can be adapted or changed quickly and easily.

Basic stand
The basic stand is the solid core of the microscope. It can be equipped with various focusing systems, objective turrets, stage mounts, and mounts for transmitted and incident light units.
To control or to see the status of the Leica DMi8 and its components, several control elements like touch screens, function keys or status LED's are attachable.
Camera ports with up to 19 mm FOV are standard on the Leica DMi8.

- The Leica DMi8 A can be configured with motorized components.
- The Leica DMi8 C can be configured with coded components.
- The Leica DMi8 M is completely manual microscope.

The system diagrams (see page 34) provide a good overview of this modular system. Thanks to its modular design principle, you can modify and/or extend your system to suit your requirements at any time. Ergonomic considerations were given a high priority in all of the stand designs, such as the convenient positioning of important controls and the availability of ergomodules or ergonomically designed components.

The functional and rugged design of the stands ensure ease of use and image stability for a wide range of applications up to the highest magnifications.
Optics of the highest quality ensure brilliant images with high contrast and resolution for any conceivable application.

Note:
A Leica DMi8 Microscope stand is defined as a combination of 11889xxx /11525xx article numbers such as:
- microscope body
- incident light axis
- optic carrier
- camera ports
- reflector turret
- objective turret
- magnification changers
- transmitted light arms
- front modules
- etc.

11889xxx article numbers always come as an integral part of the aligned complete system. These articles are not possible to order as an individual component.



DIMENSIONS AND TECHNICAL DATA

Compact Leica CTR electronics box

For indoor use only.	
Supply voltage:	100 – 240 VAC
Frequency:	50 / 60 Hz
Power consumption:	max. 150 VA
Fuses:	3.15 A, slow-blowing, Breaking capacity H, 250 VAC Size: 5x20 mm
Ambient temperature:	15° - 35°C
Relative humidity:	90% up to 30°C, non-condensing
Protection class:	I
Overvoltage category:	II
Pollution degree:	2

Advanced Leica CTR electronics box

For indoor use only.	
Supply voltage:	100 – 240 VAC
Frequency:	50 / 60 Hz
Power consumption:	max. 290 VA
Fuses:	6.3 A, slow-blowing, Breaking capacity H, 250 VAC Size: 5x20 mm
Ambient temperature:	15° - 35°C
Relative humidity:	90% up to 30°C, non-condensing
Protection class:	I
Overvoltage category:	II
Pollution degree:	2

Leica EL6000*

For indoor use only.	
Supply voltage:	100 – 240 VAC
Frequency:	50 / 60 Hz
Power consumption:	max. 200 VA
Fuses:	2.5 A, slow-blowing, Breaking capacity H, 250 VAC Size: 5x20 mm
Ambient temperature:	0° - 40°C
Relative humidity:	90% up to 30°C, non-condensing
Protection class:	I
Overvoltage category:	II
Pollution degree:	2

(* See provided Instructions for Use)

Leica DMi8 M (manual)

For indoor use only.	
Supply voltage:	100 – 240 VAC
Frequency:	50 / 60 Hz
Power consumption:	max. 55 VA
Fuses:	1.6 A, slow-blowing, Breaking capacity H, 250 VAC Size: 5x20 mm
Ambient temperature:	15° - 35°C
Relative humidity:	90% up to 30°C, non-condensing
Protection class:	I
Overvoltage category:	II
Pollution degree:	2

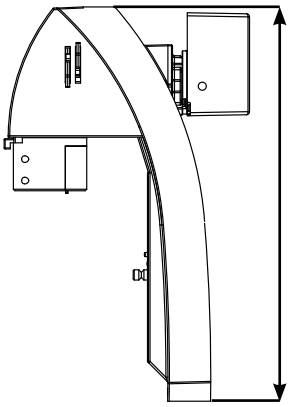
Leica DMi8 C (coded)

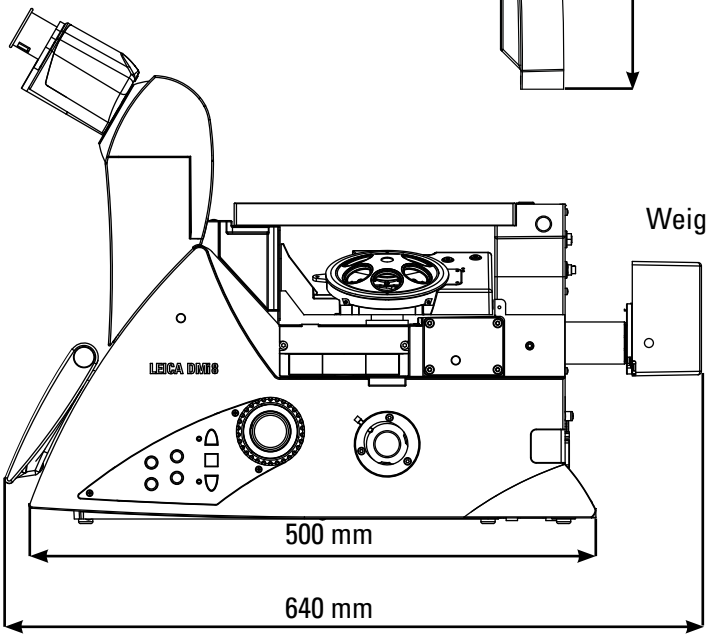
For indoor use only.	
Supply voltage:	100 – 240 VAC
Frequency:	50 / 60 Hz
Power consumption:	max. 55 VA
Fuses:	1.6 A, slow-blowing, Breaking capacity H, 250 VAC Size: 5x20 mm
Ambient temperature:	15° - 35°C
Relative humidity:	90% up to 30°C, non-condensing
Protection class:	I
Overvoltage category:	II
Pollution degree:	2

Leica DMi8 A (automated)

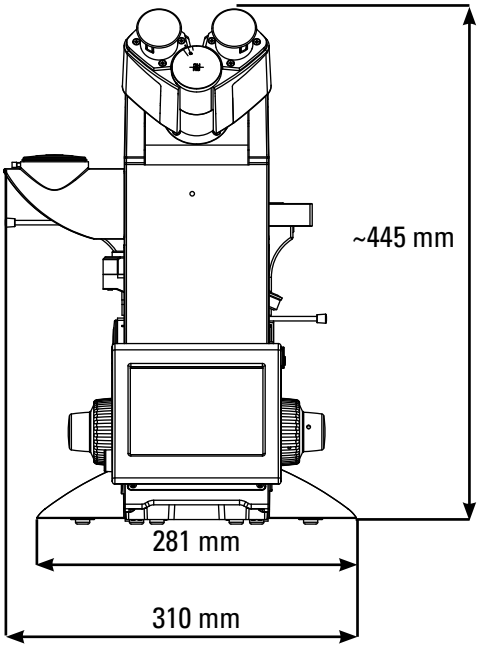
For indoor use only.	
Supply voltage:	100 – 240 VAC (→ Leica CTR)
Frequency:	50 / 60 Hz (→ Leica CTR)
Power consumption:	see Leica CTR
Fuses:	see Leica CTR
Ambient temperature:	15° - 35°C
Relative humidity:	90% up to 30°C, non-condensing
Protection class:	I (→ Leica CTR)
Overvoltage category:	II (→ Leica CTR)
Pollution degree:	2 (→ Leica CTR)

Leica DMi8

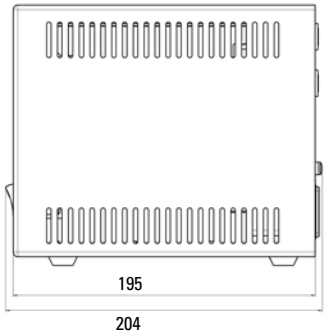


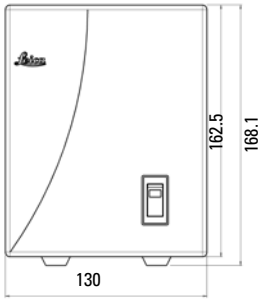


Weight: approx. 19 kg



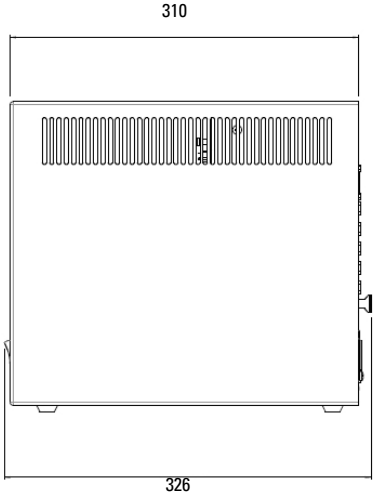
Leica CTR compact

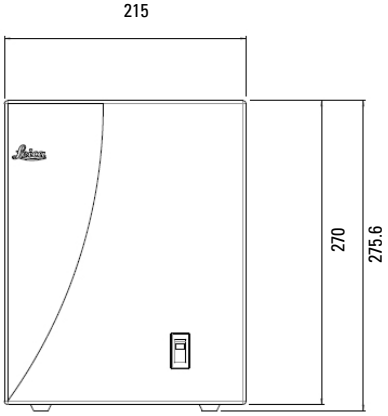




Weight: approx. 2 kg

Leica CTR Advanced





Weight: approx. 4 kg

STANDS AND OPTIC CARRIERS



Fig. 1: Stand Leica DMi8 A



Fig. 2: Stand Leica DMi8 C



Fig. 3: Stand Leica DMi8 M

Stands

Leica DMi8 A stand for motorized and automated functions
Motorized side port (no downgrade to coded side port)
Upgradable from manual coded to fully automated 11889122

Leica DMi8 A stand for motorized and automated functions
Coded left side port (no upgrade to motorized side port)
Upgradable from manual coded to fully automated 11889121

Leica DMi8 C stand for manual coded functions
Including power supply, lamp-module and 1x tube lens
Upgradable with manual coded components 11889117

Leica DMi8 M stand for manual functions
manual left side port
Including manual nosepiece and manual focus.
Including power supply and lamp-module.
Including 1x tube lens.
Including all control elements
Upgradable with manual components. 11889092

Optic Carrier

Optic carrier 11888032
Optic carrier for IMC (man. cod. mag. changer) 11888033

MICROSCOPE CONTROL-ELEMENTS AND MICROSCOPE FUNCTION-KEYS

Control Elements, left hand side of the microscope

Light	11889066
Light and shutter	11889067
Light, shutter and Fluor/TL buttons	11889068
Light, Oblique illumination, Fluor/TL buttons and diaphragms	11889069

Control Elements, right hand side of the microscope

Empty	11889070
4x function keys	11889071
4x function keys an 3x focus keys	11889072

Control Elements, front of the microscope

Empty	11889064
6x status LED	11889063
12x status LED	11889061
6x function keys for objectives	11889062
12x function keys for objective & reflector-cubes	11889060

Touch-Screen

On site microscope, high resolution 6" touch-screen, tiltable and intensity adjustable	11889059

Leica STP4000

External, wired, high resolution 6" touch –screen, intensity adjustable without xyz-control	11525220

Leica STP8000

External, wired, high resolution 6" touch –screen, intensity adjustable, with xyz-controls for focus and motor stages, with 11 programmable function keys	11525113

Leica SmartMove

x/y/z-Ergo control panel for electronic focus and motor stage. With 4 programmable function keys.	11525115



Fig. 4: Control elements left hand side



Fig. 5: Control elements right hand side



Fig. 6: Touch-Screen



Fig. 7: Leica STP8000



Fig. 8: Leica SmartMove

LEICA CTR BOXES



Fig. 9: Leica CTR compact



Fig. 10: Leica CTR advanced

Power consumption of Leica CTR Boxes (see page 4).

Leica CTR compact
For all Leica DMi8 A (11889121, 11889122)
without motorized stages. 11525206

Leica CTR compact XY
Preconfigured with the control board for a motor and scanning stage.
Adapter cable 11505237 (Adapter XY-basic/XY-advanced) must be added.
The box has no further slots to add additional control boards! 11525227

Leica CTR advanced
For all Leica DMi8 A (11889121, 11889122)
with 1 Master-Module incl. 1x serial, 2x USB, 3 x I²C,
upgradable with 6x CTR boards for motorized stages. 11525207

For motorized stage add CTR board XY basic (11525210).
For scanning stage add CTR board XY advanced (11525211).

Leica CTR advanced without lamp module
For all non motorized Leica DMi8 C (11889117)
with 1 Master-Module incl. 1x serial,
2x USB, 3 x I²C, upgradable with 6x CTR boards.
For motorized stages. 11525208

For motorized stage add CTR board XY basic (11525210).
For scanning stage add CTR board XY advanced (11525211).

CTR board XY basic
CTR Board xy basic,15 pins,
to control 3-plate motor stages (rack and pinion) 11525210

CTR board XY advanced
CTR Board xy advanced, 25 pins,
to control Scanning stages 11525211

Cable adapter 15/25 pins
Using a motorized 3-plate stage in combination with
CTR Board xy advanced, 25 pins (11525211) 11505237

TUBES

The Leica DMi8 microscopes feature a fixed bino tube and ergonomic tubes integrated in the stand. The interpupillary distance can be adjusted according to the Siedentopf principle. The complex tube lens system is based on an infinite beam path. It converges the parallel beam path coming from the lens and forms the object in the intermediate image plane. Also, the tube lens system, together with the eyepieces, corrects the remaining image errors not corrected by the objective. The following applies to all tubes: Field of view 25 mm, eyepiece diameter 30 mm, a interpupillary distance range 55–75 mm and a viewing angle of 45° (Fixed) or 30–45° (Ergo)

Binocular fixed tube 11889025

Binocular ergonomic tube 11889026

Trinocular ergonomic tube
Binocular observation tube with side camera port and variable light path, 100% visual / 0% camera, and 50% visual / 50% camera 11889030

Trinocular ergonomic tube
Binocular observation tube with side camera port and variable light path, 100% visual / 0% camera, and 0% visual / 100% camera 11889028



Fig. 11: Trinocular ergonomic tube

C- Mount Adapter for Top Port (see page 31)

EYEPIECES

A wide range of eyepieces with 10x, 12.5x or 16x magnification (for different 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. The standard eyepiece is the 10x eyepiece, microphotography recording frequently prefers the 12.5x eyepiece magnification due to the higher focusing accuracy. However, the observed object field is smaller. The 16x eyepiece magnification is only meaningful for special cases; exceeding the "beneficial magnification" (V < 1000x objective aperture) can often be expected, i.e. possible fuzziness may occur.
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 dioptric equalization (from –6.8 to +4.2 or –6 to +5) and graticule holder.



Fig. 12: Eyepiece HC PLAN 10x/20

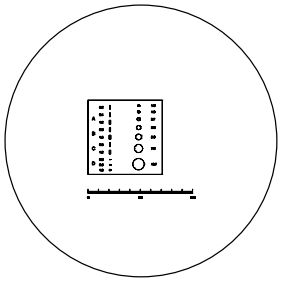
Eyepieces with FOV 20
- Eyepiece HC PLAN 10x/20 BR. 11507801
- Eyepiece HC PLAN 10x/20 BR.M 11507802

Eyepiece with FOV 22
- Eyepiece HC PLAN S 10x/22 Br.M 11507820

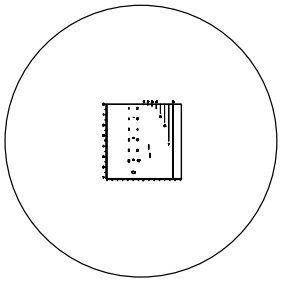
Eyepiece with FOV 25
- Eyepiece HC PLAN S 10x/25 Br.M 11507808

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 11506808

FOCUSING AND FRAMING GRATICULES



Graticule 11102231



Graticule 11102232

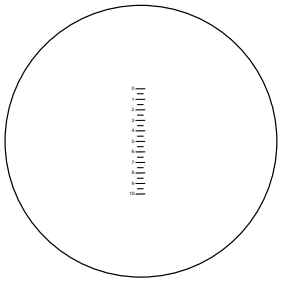
Graticules for length measurements, comparison and counting method

For HC PLAN eyepieces

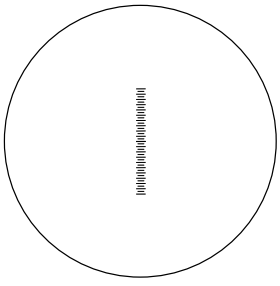
- Graticule 10 mm = 100 parts, D = 26 mm 11506950
- Graticule 10 mm = 200 parts, D = 26 mm 11506951
- Crosshair graticule, D = 26 mm 11506953
- Crosshair graticule with graduation, 10 mm = 100 parts, D = 26 mm 11506952
- Graticule with grid 10 x 10 mm, 0.1 mm graduation, D = 26 mm 11506954
- Graticule with grid 10 x 10 mm, 1 mm graduation, D = 26 mm 11506955
- Snyder-Graff-Meth. graticule, D = 26 mm (for 10x eyepiece only) 11566950
- ASTME 112 graticule, D = 26 mm (for 10x eyepiece only) 11566951
- Graticule for steel inclusion rating (ISO 4967) 11102231
- Graticule for steel inclusion rating (EN10247) 11102232

Stage micrometer

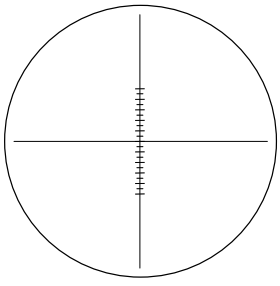
- Transmitted light 2 mm = 200T, glass carrier with scale 1 scale interval = 10 µm 11 513 106
- Incident light 10 mm = 100T for overview objectives (e.g. 1.25) 11 519 963



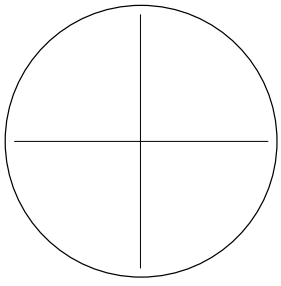
Graticule 11506950



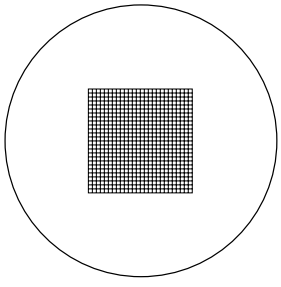
Graticule 11506951



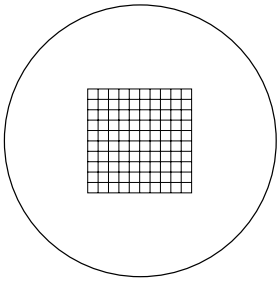
Graticule 11506952



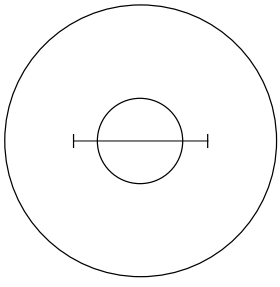
Graticule 11506953



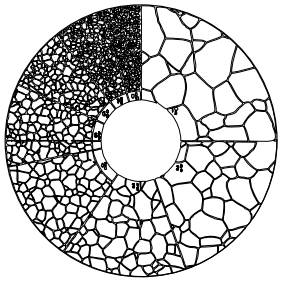
Graticule 11506954



Graticule 11506955



Graticule 11566950



Graticule 11566951

OBSERVATION AND DOCUMENTATION PORTS

Camera ports for Leica DMi8 M or C (11889092, 11889117)

Manual left camera side port 100/0	11889043
Manual left camera side port 80/20	11889042

Camera ports for Leica DMi8 C or A (11889117, 11889121, 11889122)

Coded left camera side port 100/0	11889045
Coded left camera side port 80/20	11889044

Camera ports for Leica DMi8 A (11889121, 11889122)

Motorized side port, left 11889046
You may select at least one and up to three different prisms from the following for this version:

Side port prism, 100% left	11888259
Side port prism, 80% left	11888262
Side port prism, 50% left	11888264

Motorized side port, right 11889047
You may select at least one and up to three different prisms from the following for this version:

Side port prism, 100% right	11888258
Side port prism, 80% right	11888261
Side port prism, 50% right	11888263

Motorized side port, right and left 11889048
You may select at least one and up to three different prisms from the following for this version:
You have to select at least one right and one left prism!

Side port prism, 100% right	11888258
Side port prism, 100% left	11888259
Side port prism, 80% right	11888261
Side port prism, 80% left	11888262
Side port prism, 50% right	11888263
Side port prism, 50% left	11888264

No side port
This version requires the port compensation module 11888256

Trinocular ergonomic tube
Binocular observation tube with side camera port and variable light path, 100% visual / 0% camera, and 50% visual / 50% camera 11889030

Trinocular ergonomic tube
Binocular observation tube with side camera port and variable light path, 100% visual / 0% camera, and 0% visual / 100% camera 11889028

C- Mount Adapter for side port (see page 31)



Fig. 13: Left side port



Fig. 14: Top port

FOCUS



Fig. 15: Focus

Manual Focus 2-gear (coarse/fine)
Manual focus system with 12 mm travel range.
Tactile Coarse / Fine manual Focus Drive with
coarse and fine / knob on each side of the microscope 11889115

Required:
Focus guide box 11889116

Manual Focus 3-gear (coarse/medium/fine)
with individual torque adjustment and
adjustable upper focus stop (coarse focus) 11889100

Required:
Focus guide box 11889116

Motorized Focus
Motorized focus system with 12 mm travel range.
Tactile Coarse / Fine motorized Focus Drive with 4 gears and 5 sensitivity levels (0.05 µ; 0.1 µ; 0.7 µ; 1.5 µ; 5.0 µ). Electronic focus repositioning and electronic parfocality, with coarse / fine knob
on each side of microscope 11889055

Motorized Closed Loop Focus
Motorized closed loop focus system with encoded 12 mm travel range. Reproducibility < 20 nm bidirectional. Tactile Coarse / Fine motorized Focus Drive with 4 gears and 5 sensitivity levels (0.05 µ; 0.1 µ; 0.7 µ; 1.5 µ; 5.0 µ) Electronic focus repositioning and electronic parfocality,
with coarse / fine knob on each side of microscope 11889056

OBJECTIVE NOSEPIECE

In principle, all infinity corrected high-performance Leica objectives with an M32 or M25 thread may be used. Even older objectives can be adapted for further use. Adapter rings for objectives with RMS or M25 thread are also available. Objectives of earlier lines with RMS threads cannot be adapted unconditionally, however, as problems with parfocality and field flattening may arise.
Numerous application objectives with long working distances (L objectives) are available specifically for inverted microscopy. The focusing of the specimen is carried out via the objective turret that can be fitted with up to 6 objectives. The reliable, stable and precise focusing is not affected by the stage and its specimens or accessories.

Manual Coded Nosepiece M32
Coded 6-fold objective nosepiece
with M32 mm threads and 45 mm parfocal distance 11889094

Manual Coded Nosepiece M25
Coded 6-fold objective nosepiece
with M25 mm threads and 45 mm parfocal distance 11889049

Motorized Nosepiece M32
Motorized coded 6-fold objective nosepiece
with M32 mm threads and 45 mm parfocal distance 11889095

Motorized Nosepiece M25
Motorized coded 6-fold objective nosepiece
with M25 mm threads and 45 mm parfocal distance 11889050

.



Fig. 16: Objective Nosepiece M32

OBJECTIVES



Fig. 17: Objectives

Based on the Leica principle of infinity distance correction of optics, the microscope objectives are infinity corrected for tubelens systems with 200 mm reference focal lengths. The calibration length is 45 mm. The objectives are divided into 4 correction classes:

Objective	Class	Field of view performance
Achromatic	HI PLAN	up to 20
Planachromatic	NPLAN	up to 22
Semi-apochromatic	HC/X PLFLUOTAR	up to 25
Apochromatic	HC/X PL APO	up to 25

When selecting the objectives, consider the intended use with regard to specimen covering, etc. For more detailed explanations, please refer to the appendix of the objective list.
http://www.leica-microsystems.com/objectives

Adapter ring M32/25 11561097
Adapter ring M25/RMS 11506028

TUBE LENS AND MAGNIFICATION CHANGER

Fixed 1x tube lens 11889023

Motorized magnification changer

including 1x tube lens at position 1 11889024

Magnification levels for motorized magnification changer
In addition to the 1x tube lens, one or two lenses can be installed on the disk of the motorized magnification changer.
1.5x tube lens for motorized magnification changer 11888699
1.6x tube lens for motorized magnification changer 11888377
2.0x tube lens for motorized magnification changer 11888376

Manual Magnification Changer

for Eyepiece and Top Port.

Front Module with integrated
coded 1.5x Magnification changer 11889097
coded 2.0x Magnification changer 11889096

INCIDENT LIGHT ILLUMINATION

The Leica DMi8 M/C/A series are system microscopes for the following incident-light methods in materials testing and materials research: Bright field, dark field, polarization contrast, interference contrast (ICR) and fluorescence. In addition oblique illumination is integrated in the DMi8 M/C/A. With the Leica DMi8 A routine functions such as the adjustment of intensity and incident-light diaphragms to the objective magnification and specimen conditions are automated and offer optimal working comfort.
The Leica DMi8 M and C contain the manual diaphragm module.
LED lamp housing can be used for the incident-light contrast methods bright field, dark field, polarization contrast and interference contrast while another lamp housing can be adapted for fluorescence.

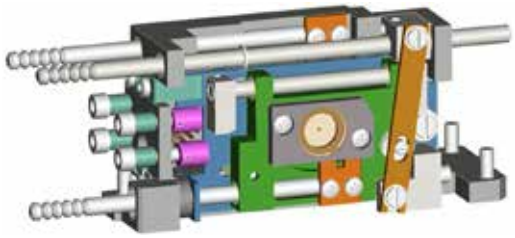


Fig. 18: Manual diaphragm module in man IL axis

Motorized incident light axis

11889090

Manual incident light axis

11889089

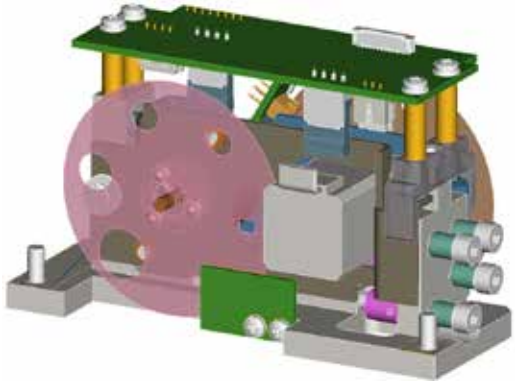


Fig. 20: Motorized diaphragm module in motorized IL axis

The Leica DMi8 series features a completely new incident illumination system and comes with

- centerable manual or motorized field and aperture diaphragm
- build-in manual or motorized oblique illumination
- optimized for LED illumination for all contrasting techniques (BF, Obl., DF, DIC, Pol)
- manual, coded or motorized 6-fold reflector turret or a coded 2-fold reflector turret.
- filter turret with fast, magnetic filter exchange
- filter turret with access panels on both sides

The filter systems (cubes) have magnets to guide them into the reflector turret without tools.

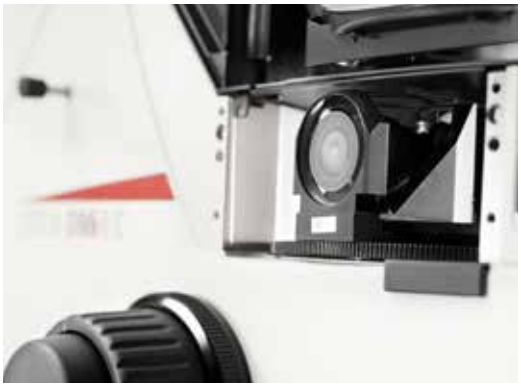


Fig. 19: Reflector Turret

Motorized 6-position reflector turret
Operation via function-keys at the microscope, touch-screen or software depending on the configuration 11889022

Manual coded 6-position reflector turret
Operated from both sides. The active filter position is indicted via LED at the front panel, touch Screen or software depending on the configuration 11889021

Manual 6-position reflector turret
Manual 6-fold reflector turret. Operated from both sides. A color code indicates the active position 11889020

Manual coded 2-position reflector turret
Operation from both sides. No feedback from the LED frontpanel 11889098

REFLECTORS, FILTERS, INCIDENT LIGHT POLARIZERS AND ANALYZERS



Fig. 21: Incident light 0.7x macro objective



Fig. 22: Macro cube



Fig. 23: Reflector BF

Incident light bright field

With the push of a button on a Leica DMi8 A, the BF reflector or the Smith reflector are rotated into the beam path. The motorized coded objective turret recognizes the objective and automatically adjusts luminous intensity, incident light aperture and field diaphragm to the preset values.
The user can adjust and overwrite the preset values at any time. Objective magnifications 0.7x–150x (1.25x and 1.6x with glint-protection device). All incident-light functions of a Leica DMi8 M/C are carried out fully manual.

Incident light macro system 0.7x (not available in Japan)
System consists of macro cube and objective. 11565056

Two different bright field reflectors are available that differ according to the adaptation in the reflector disk:

BF reflector
Bright field reflector that can be inserted in one of the two variable positions of the reflector disk. 45° neutral glass insert divider
for incident light bright field, ICR and pol. 11565053

Optional:

Gray filter N16
Insertable on BF reflector for light reduction when working with external light sources. 11565016

Optional:

P reflector to Smith
Special Bright-field reflector with mirror and glass insert divider 2 x 22.5° with lens for incident light bright field, ICR and POL contrast.
High degree of polarization, especially well suited for ICR and polarizing incident light. 11565055

Optional:

Filter cube BF-LP425
Cube for reflected light brightfield in connection with fluorescence axis. Designed for e.g. observation of particles on polished silicon, fluorescence labelling on compact materials like polished ceramics, woodchips etc
11525402

Incident light dark field

With a push of the button of the Leica DMi8 A, the DF reflector is rotated into the beam path. The motorized coded objective turret recognizes the objective and automatically adjusts intensity, incident light aperture and field diaphragm to the light values required for dark field. The user can adjust and overwrite the preset values at any time. Using the DMi8 C the DF reflector is rotated manually into the beam path.
Objective magnifications 5x–150x.

Required:

DF reflector, fixed
45° ring mirror for incident-light dark field. 11565054



Fig. 24: Dark-field reflector (DF)

Incident light light filter D = 25 mm

Two of the incident light filters listed below are placed in the IL filter slide. The complete filter slide is located in the filter slot in the rear section of the stand.

IL filter slider
to mount the above light filters D = 25 mm 11525216

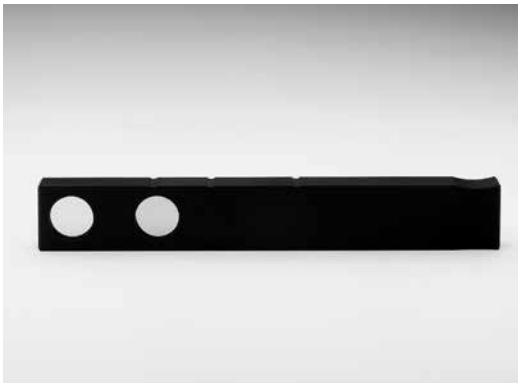


Fig. 25: IL Filter slider

The following incident light filters can be selected:

- Panchromatic green filter
  For B&W photography and sensitivity increase of the eye 11513904
- Blue glass filter BG20
  Color contrast filter for contrast increase 11513905
- Daylight filter DLF
  Blue, conversion filter for daylight film and visual observation 11513906
- Interference green filter VSS 546 nm
  For monochromatic light in interferometry 11513907

Incident light interference contrast (ICR)

The manual incident light interference contrast requires a polarizer, an analyzer and a set of Wollaston prisms. In addition, the Leica DMi8 A offers a fully automated ICR function.
The Leica ICR demonstrates its strengths during the analysis of defects, for example during the examination of surface structures. Objectives with magnifications from 5x to 100x can be used for ICR. Fast switching between ICR, bright field and dark field is possible at all times without the need for DIC prisms to remain in the beam path. The IC prisms at the objective side are located in the objective prism disk.
For valid combinations of prisms and objectives, please refer to the objective list.
The coded objective turret of the DMi8 C/A knows the objective. The motorized objective prism disk selects the correct objective prism and sets the bias. The reflector revolver fully automatically moves the ICR reflector into the beam path. In addition, light intensity, aperture diaphragm and field diaphragm are automatically adjusted to the required values. The user can adjust and overwrite the preset values at any time. If a BF or Smith reflector is used instead of the IRC reflector, the corresponding IC prism must be manually rotated into the beam path and adjusted.
When the manual objective system prism disk is used, the Leica display of the DMi8 with touchscreen shows the information for the required prisms.

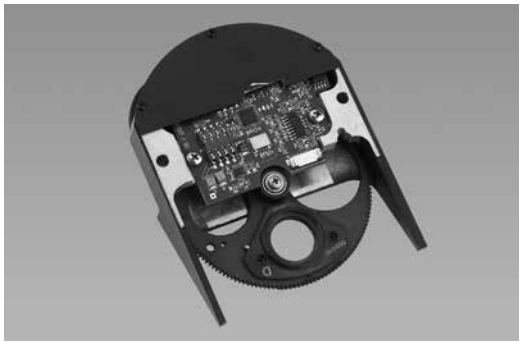


Fig. 26: Motorized DIC objective prism disk



Fig. 27: Objective prism D



Fig. 28: Filter system for fully automated ICR



Fig. 29: R/ICR polarizer



Fig. 30: L/ICR polarizer

Manual DIC objective system prism disk,4 positions 11522123

Manual coded DIC objective system prism disk 11525117

Motorized coded DIC objective system prism disk
(only for Leica DMi8 A) 11525118
The required incident light polarizer and analyzer elements can be supplied on a slider and as an enclosed ICR filter system.

ICT/ICR objective prisms
(for assembly in DIC disk 11522048 or 11522049)
- IC objective prism A (narrow splitting, resolution optimized) 11555006
- IC objective prism B1 (narrow splitting, resolution optimized) 11555007
- IC objective prism C (medium splitting, good compromise) 11555009
- IC objective prism C1 (narrow splitting, resolution optimized) 11522038
- IC objective prism C2 (wide splitting - high contrast) 11522039
- IC objective prism D (wide splitting - high contrast) 11555010
- IC objective prism D1 (narrow splitting - high resolution) 11555056
- IC objective prism E (wide splitting, contrast optimized) 11555046

Compensator slot for DIC prism slider 11565061

IC prism slider
- IC prism slider A (narrow splitting, resolution optimized) 11555036
- IC prism slider B1 (narrow splitting, resolution optimized) 11555038
- IC prism slider B2 (wide splitting, contrast optimized) 11555050
- IC prism slider C (medium splitting, good compromise) 11555039
- IC prism slider D (wide splitting - high contrast) 11555037
- IC prism slider D1 (narrow splitting - high resolution) 11555063
- IC prism slider E (wide splitting, contrast optimized) 11555072

Filter system for fully automated ICR
For quick and convenient operation. Neutral splitter with permanently installed and fixedly crossed polarizer and analyzer and MgF_2 plate for homogenizing the brightness over the field. For use in the reflector disk. Interference color contrast is possible only via DIC prism .
11525375

altenative:

ICR equipment with polarization slider:

The polarization mount is located on the left side of the stand below the objective turret. The cover for the objective DIC slider opening is a component of the stand.

R/ICR polarizer
In slider 29 x 11.5 mm. Fixed orientation 90° (north-south) with MgF_2 plate for homogenizing the brightness across the field. Interference contrast is possible only via DIC prism (vignetting is possible). 11555001

L/ICR polarizer
In slider 29 x 11.5 mm. Fixed orientation 0° (east-west) with Lambda plate. 180° rotation for activation or deactivation of the Lambda plate for color contrast. 11555051

The analyzer slider is located on the right side of the stand below the objective turret. The cover for the objective slider opening is a component of the stand.

Analyzer, 180°
In slider 30 x 5 mm, rotating 180° with drum head graduation of 5°, 1 scale line = 5° 11522062

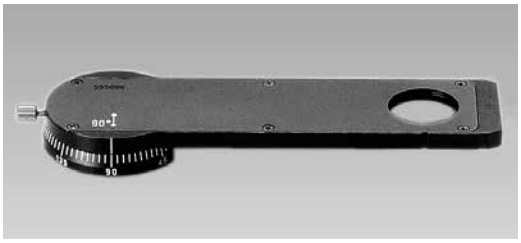


Fig. 31: Analyzer, 180°

Analyzer, ICT/P
In slide bar 30 x 5 mm, fixed orientation 90° 11522046



Fig. 32: Analyzer, ICT/P

Incident-light polarization contrast

A fixed or revolving polarizer and an analyzer are required for incident-light polarization contrast. Low-stress objectives and condenser lenses are a requirement for optimal quality of the polarization contrast. Instead of polarizer and analyzer as single slider, it is also possible to use complete polarization filter systems if the examination does not require a rotating polarizer. They consist of a neutral divider with firmly crossed polarizers.

P reflector to Smith
Mirror and glass insert divider 2 x 22.5° with lens for incident-light bright field, ICR and polarizer contrast.
High degree of polarization, especially well suited for ICR and polarizing incident light. 11565055



Fig. 33: R/P polarizer

Pol. filter system, IGS
Reflector consisting of polarizer and analyzer in firmly crossed position. 11525358

R/P polarizer
In slider 29 x 11.5 mm. Changeable in 3 click stops 0° (east-west), 45° (diagonal), 90° (north-south). 11555005

Alternative:

Polarizer, rotating
In slider 29 x 11.5 mm. Polarizer rotating 90°, Lambda plate rotation approx. 14°. For color contrasting of anisotropic material surfaces, e.g. aluminum (sensitive tint method). 11565001



Fig. 34: Polarizer, rotating



Fig. 35: Interference base component

Michelson/Mirau incident-light interference device

Surface analyses with accuracies in the range of a few nanometers are performed at the Leica DMi8 with the Michelson/Mirau mount. The exact and quick measurement of filters in the optical industry or the analysis of polished surfaces are application areas of this non-destructive analysis system.
This requires the following:

5x, Michelson 11565020
consisting of:
- PL FLUOTAR 5x/0.15 Michelson objective
- 5x Michelson dual-beam mount
- Base structure

10x, Mirau 11565021
consisting of:
- PL FLUOTAR 10x/0.30 Mirau objective
- 10x Mirau dual-beam mount
- Base structure

20x, Mirau 11565022
consisting of:
- N Plan H 20x/0.40 Mirau objective
- 20x Mirau dual-beam mount
- Base structure

50x, Mirau 11565023
consisting of:
- N Plan H 50x/0.50 Mirau objective
- 50x Mirau dual-beam mount
- Base structure

Interference green filter VSS 546 (Ø 25 mm)
for monochromatic light, without mount 11513907

IL filter holder for Ø 25 mm filter 11522028

Adapter ring M32/25 11561097

Adapter ring M25/RMS 11506028

STAGES AND SPECIMEN HOLDERS

A wide range of specimen stages are available. The most popular are:
- Fixed stage (248 x 204 mm) normal, heatable / temperature controlled
- Manual or motorized 3-plate stages
- Scanning stage
- Gliding stage

Fixed stage (248 x 204 mm) 11522078
88 mm Inserts with different openings for fixed stages, slim 3-plates stages and 160 x 110 mm plates.
- Insert with 5 mm opening 11522083
- Insert with 10 mm opening *) 11522084
- Insert with 20 mm opening 11522085
- Insert with 40 mm opening 11522086

*) Insert with 10 mm opening is already included



Fig. 36: Fixed stage

Object guide for fixed regular stages
(for 11522078)
Attachable object guides for all regular fixed stages measuring 248 mm x >200 mm to accommodate a variety of application inserts. 11522014

Inserts
for attachable object guide 11522014
- Holding frame for glass slide 76 mm x 26 mm 11520593
- Universal Holding frame M
  for Petri dishes (24–68 mm) or glass slides 11533041
- Universal Holding frame M-Duo for
  1 or 2 Petri dishes (24-56 mm) and/or 1 glass slides 11531798



Fig. 37: Attachable object guide for fixed stages

Manual 3-plate-stage (without insert)
Traveling range: 100 mm x 50 mm
Aluminum, extremely scratch-resistant, precisely plane-parallel for 160 x 130 mm inserts.
Ergonomic operating arm: low position, does not interfere with microscope controls or camera ports, with coaxial drive for x and y. Adjustable torque, extremely precise and sensitive. Three-point mounting. 11525387



Fig. 38: Universal holding frame M

Motorized 3-plate-stage (without insert)
Traveling range: 100 mm x 40 mm
Aluminum, extremely scratch-resistant, precisely plane-parallel for 160 x 130 mm inserts.
Control via the Leica Application Suite software in conjunction with the SmartMove remote control or Leica STP8000. Extremely precise and sensitive. Three-point mounting. 11525386



Fig. 39: Manual 3-plate-stage

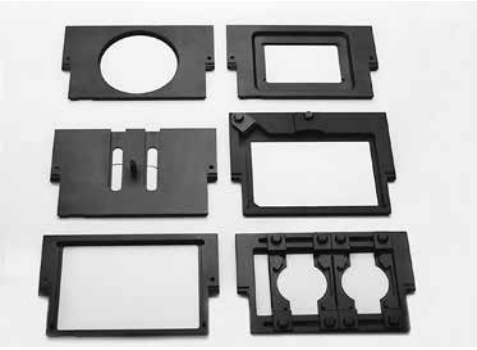


Fig. 40: Various inserts for attachable mechanical stage

Scanning stage 100 x 45 (without insert)
3-plate scanning stage without insert
Traveling range: 100 mm x 45 mm
Three-point mounting. Aluminum, extremely scratch-resistant, precisely plane-parallel for 160 x 130 mm inserts.
Max. positioning speed: 10 mm/sec. to 100 mm/sec.
Max. resolution: 0.02–0.04 µm*
Reproducibility: <1 µm*
Precision: ± 3 µm* 11525385

Prerequisites for scanning stages

Leica SmartMove for DM/DMI series 11525115
or
Leica STP8000 11525113



Fig. 41: Scanning stage 100 x 40

Inserts for manual and motorized stages
3-plate stages and scanning stages are ready to accept inserts with outside dimensions of 160 x 130 mm. Depending upon the specimen size, the following inserts can be selected:

- Mounting frame 160 x 130 for round insert 11525379
- Insert with 5 mm inside diameter 11525382
- Insert with 10 mm inside diameter 11525381
- Insert with 20 mm inside diameter 11525380
- Insert with 30 mm inside diameter 11525383
- Insert with 40 mm inside diameter 11525384

Rot. sample holder for DMi8 M/C/A
Rotatable sample holder for samples up to 40 x 40 mm. To be inserted into mounting frame for round inserts (11525379). 11533185

Rotating Gliding Stage 11533156

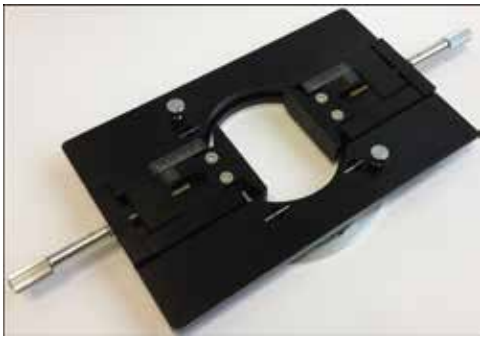


Fig. 42: Rot. sample holder for DMi8 M/C/A

Accessories for scanning stages

- Cable for scanning stage to XY-advanced board 11525218

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



Fig. 43: Leica STP8000

LIGHT SOURCES, LAMP HOUSINGS, SUPPLY UNITS

For Incident Light

LED lamp houses without shutter

- 70 cm cable (recommended for Leica DMi8 M/C) 11525100
- 185 cm cable (recommended for Leica DMi8 A) 11525102



Fig. 44: LED lamp house

optional:

Halogen lamp housings

Lamp housing 107/2 (single-lens)
with lamp access from above. With fixed, pre-centered lamp mount with 2.50 m power cable including 1x halogen bulb 12 V 100 W, single-lens aspherical, permanently set collector, heat-absorbing filter, microprism grid disk with middle diffuser for enlargement of the lamp filament and optimization of the illuminated area, without reflector, without replacement lamp.
11504103

Lamp housing 107, left-hand operation (double-lens)
with lamp access from above. With centerable lamp mount with 2.50 m power cable including 1x halogen bulb 12 V 100 W, double-lens aspherical, focusable collector, heat-absorbing filter, microprism with middle diffuser for enlargement of the lamp filament and optimization of the illuminated area, without reflector, without replacement lamp. 11504101

Lamp housing 106 (double-lens)
with side lamp access. With centerable lamp mount with 0.70 m power cable including 1x halogen bulb 12 V 100 W, double-lens aspherical, focusable collector, heat-absorbing filter, microprism with middle diffuser for enlargement of the lamp filament and optimization of the illuminated area, without reflector, without replacement lamp. 11504058

Lamp housing 106 (double-lens) as above, with 2.5 m power cable 11504059

Lamp housing 106z, right-hand operation – 12 V 100 W (4-lens)
with side lamp access. With centerable lamp mount with 0.70 m power cable including 1x halogen bulb 12 V 100 W, four-lens, achromatic, focusable collector, centerable reflector for doubling of the lamp filament and optimization of the illuminated area, with heat-absorbing filter, without auxiliary lamp.
11504070

Allways required:

Power Supply 12 V 100 W 11501179

Halogen bulb 12 V 100 W 11500974



Fig. 45: Leica EL6000



Fig. 46: Lamp housing 106z – Hg 100 W (6 lens)



Fig. 47: Leica SFL100

For Fluorescence

Leica EL6000

• External light source	11504115
• Liquid light guide, 2 m	11504116
• Cable for shutter control Leica EL6000 I^2C	11500336
• 1-inch fiber optics adapter for lamp mounts	11504117

Lamp housing 106z – Hg 100 W (6-lens)

(In combination with T-House(2) only), with centerable lamp mount for Hg 100 W lamp, with 1.5 m power cable, without burner.
6-lens, achromatic 1-inch collector, with heat-absorbing filter

• left hand operation	11504106
• right hand operation	11504114

Lamp housing 106z – Xe 75 W (6-lens)

(In combination with T-House(2) only) with centerable lamp mount for Xe 75 W lamp,with 1.5 m power cable, without burner. 6-lens, achromatic 1-inch collector.
With heat-absorbing filter, face protection, protective gloves 11504105

Lamps and burners

• High-pressure mercury burner Hg 100 W/2	11500321
• Lamp HXP R120/45C-Vis for Leica EL6000	11504120
• High-pressure xenon burner Xe 75 W	11500139

Supply units

Supply unit Hg 100 W

With power supply cord, automatic switching to power supply voltage 90 V–250 V 50/60 Hz with operating hours display. 11500334

Supply unit Xe 75 W

With power supply cord, automatic switching to power supply voltage 90 V–250 V 50/60 Hz with operating hours display. 11500335

LED light sources (not available in the US)

• Leica SFL100, 365nm	11504196
• Leica SFL100, 470nm	11504138
• Leica SFL100, 530nm	11504195

TRANSMITTED LIGHT AXIS

The transmitted light illumination unit essentially consists of an illumination source and condenser carrier. Excellent light utilization is ensured by the LED Lamp in replaceable Leica lamp housings. Optimal and homogeneous illumination is a prerequisite for all transmitted light contrast methods.

Fixed basic transmitted light arm
Basic fixed transmitted light arm including LED illumination, condenser base and aperture diaphragm. To hold S50/0.50 and S80/0.30 condenser lenses.
With:
- 70 cm cable (for DMi8 C) 11525105
- 185 cm cable (for DMi8 A) 11525116



Fig. 48: Fixed basic transmitted light arm

Tilting manual transmitted light axis
With integrated tilting mechanism for specimen clearance, integrated manual filter magazine for 2 replaceable filter positions (one preconfigured with manual shutter), Condenser Quick-Changer for all manual condensers, lamp housing adapter for LED, integrated duct for the lamp housing cable:
- with manual Field Diaphragm 11525107

Tilting manual coded transmitted light axis
with integrated tilting mechanism for specimen clearance, integrated manual filter magazine for 2 replaceable filter positions (one preconfigured with manual shutter), Condenser Quick-Changer for all coded/motorized condensers, lamp housing adapter for LED, integrated duct for the lamp housing cable
- with manual Field Diaphragm 11525110

Tilting motorized transmitted light axis
with integrated tilting mechanism for specimen clearance, integrated manual filter magazine for 2 replaceable filter positions (one preconfigured with manual shutter), Condenser Quick-Changer for all coded/motorized condensers, lamp housing adapter for LED, integrated duct for the lamp housing cable
- with motorized Field Diaphragm 11525111



Fig. 49: Tilting transmitted light arm

LED LIGHT SOURCES (FOR TRANSMITTED LIGHT)

LED lamp house
- 70 cm cable 11525100
- 185 cm cable 11525102



Fig. 50: LED lamp house

TRANSMITTED LIGHT AXIS FILTERS

Light filter Ø 40 mm, unframed
for tilting light axis.
2 transmitted light filters can be swung in on the tiltable transmitted light illumination arms. A broad selection of filters is available to optimize illumination for observation and documentation. All illumination arms come with a light stop pre-installed in one position. Users can replace it with one of the following filters, however.

• DLF, daylight filter	11521577
• Panchromatic green filter	11521582
• Neutral filter N 16 (6.3%)	11521579
• Neutral filter N 4 (25%)	11521580
• Neutral filter N 2 (50%)	11521581
• Green filter VG 9, narrow band filter	11521583

TRANSMITTED LIGHT FILTERS



Fig. 51: Filter with handle

Ø 32 mm in holder with handle

• Panchromatic green filter for black/white photography	11512077
• VG 9, green filter for contrast enhancement (B/W)	11563122
• IL 546 nm (Polarization microscopy, interferometry)	11563155
• Neutral filter N2 (50%)	11543092
• Neutral filter N4 (25%)	11543093
• Neutral filter N16 (6.3%)	11543184
• Polarizer	11505087
• Lambda plate	11513908
• Quarter lambda plate	11513570
• Polarizer with protective filter	11513711

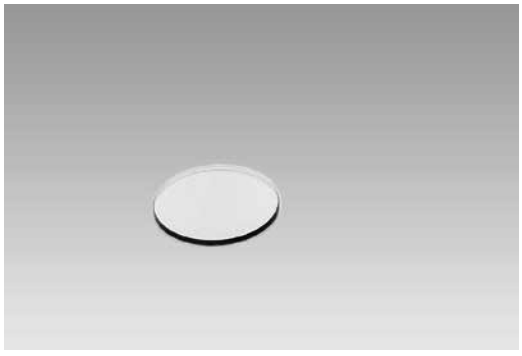


Fig. 52: Transmitted light filter

Ø 32 mm without holder
to be placed on the condenser.

• DLF, daylight filter	11504046
• ALF, artificial light filter	11504047
• Panchromatic green filter	11504011
• Green filter VG 9	11504004
• Neutral gray filter N16 6.3% transmission	11504005
• Neutral gray filter N4 25% transmission	11504006
• Neutral gray filter N2 50% transmission	11504007
• Diffusion filter N	11504012
• Interference green filter VSS 546	11504010
• Blue glass filter BG 20	11504009

CONDENSERS AND ACCESSORIES

A variety of condensers are available for the Leica DMi8

Three different types of condenser systems are available.

Type 1:
This condenser system features a 7-position condenser disk to accommodate light rings, IC prisms or slit diaphragms (3 positions with diameter 23 mm and 4 positions with diameter 32 mm) and mount for a polarizer.
Incl. height adjustment and field diaphragm adjustment, if suitable.
Incl. adjustment tools and tool-box.
Available as motorized and manual coded version.

Type 2:
This condenser system features a 5-position condenser disk to accommodate light rings, IC prisms or slit diaphragms (2 positions with diameter 23 mm and 3 positions with diameter 43 mm), and mount for a polarizer.
Available manual version

Type 3:
This condenser system features a 3-position condenser slider to accommodate light rings.
Available manual version

Type 1 and 2 are used in combination with the tilting transmitted light axis.
Type 3 is used in combination with the fixed transmitted light axis.

All the condenser bases can be individually equipped with different condenser lenses.

The condensers
- can be used for Brightfield, Phase-Contrast, Polarization. There are exceptions for DIC
- Additional features
  – aperture diaphragm
  – mount for interchangeable condenser heads



Fig. 53: Condenser S70/0.30

S70 Condenser System (Type 1)

The motorized S70/0.30 condenser features a free working distance of 70 mm, a numerical aperture of 0.30 and is particularly suitable for specimens in high-volume containers. Including motorized aperture diaphragm.
Possibility to mount motorized polarizer.
Contrasting Techniques: BF, PH, Pol, DIC
Magnifications: 4x up to 40x

Motorized S70/0.30 with fixed condenser head

• Motorized condenser base incl. head S70/0.30	11525370
• Light ring set for phase contrast S70/0.30	11521506
• Motorized polarizer holder including polarizer	11522120



Fig. 54: Light rings



Fig. 55: S28 condenser



Fig. 56: S28 condenser head



Fig. 57: Condenser heads and spacer ring



Fig. 58: Condenser S80/0.30

S28 Condenser System (Type1)

The manual/coded or motorized S28/0.55 condensers feature a free working distance of 28 mm, a numerical aperture of 0.55 and are particularly suitable for thicker specimens for highest resolution. This condenser is also suitable for dark field contrast at objective apertures of up to 0.40.

Including motorized or manual aperture diaphragm.
Possibility to mount motorized or manual polarizer
Contrasting Techniques: BF, PH, DF, Pol, DIC
Magnifications: 4x up to 100x.

Manual S28/0.55 with fixed condenser head

• Coded manual condenser base with fixed mount	11525373
• Condenser head S28/0.55	11505234
• Light ring set for PH and DF contrast S23–S28	11521505
• Manual polarizer holder including polarizer	11522103

Motorized S28/0.55 with fixed condenser head

• Motorized condenser base with fixed mount	11525372
• Condenser head S28/0.55	11505234
• Light ring set for PH and DF contrast S23–S28	11521505
• Motorized polarizer holder including polarizer	11522120

S70 Condenser System (Type 2)

The manual S70/0.30 condenser features a free working distance of 70 mm, a numerical aperture of 0.30 and is particularly suitable for specimens in high-volume containers. Including manual aperture diaphragm
Possibility to mount manual polarizer
Contrasting Techniques: BF, PH, Pol, DIC
Magnifications: 4x up to 40x

Manual S70/0.30 with fixed condenser head

• Manual condenser base incl. head S70/0.30	11525089
• Light ring set for phase contrast S70/0.30	11522090
• Manual polarizer in round insert	11522094
• 32/43 mm adapter for Wollaston prisms	11522093
• Spare disc for manual S40 or S70 condenser	11522092

S80 Condenser System (Type 3)

For fixed transmitted light arm. The manual S80/0.30 condenser features a free working distance of 80 mm, a numerical aperture of 0.30 and is particularly suitable for specimens in high-volume containers. A 4-position slider accommodates light rings. Including manual aperture diaphragm.

S80/0.30 fixed condenser head

• Manual condenser lens S80/0.30	11521251
• 4 Position Slider for BF, PH0, PH1 and PH2	11521255

TRANSMITTED LIGHT POLARIZATION CONTRAST

A revolving polarizer and an analyzer are required for transmitted light polarization contrast. Low-strain objectives (marked with a P in the objective list) enhance the quality of the polarization contrast.

A polarizer is required for Polarization Contrast

For motorized condenser (Type1)

- Motorized polarizer holder including polarizer for S23/28 condenser 11522120

For manual condenser (Type 1)

- Manual polarizer holder including polarizer for S23/28 condenser 11522103

For manual condenser (Type 2)

- Manual polarizer in round insert for S40 condenser 11522094



Fig. 59: Polarizer and Analyzer

Analyzer ICT/P

The analyzer is located below the objective turret. To insert the analyzer, remove the cover for the unused objective DIC disk opening.
(Component of stand 11-020-437-101-013)

- On slider 30 x 5 mm, fixed orientation 11522046

Alternatively for stands with fluorescence axis:

Analyzer Block

This analyzer is built into an empty fluorescence filter block and can be rotated into the beam path using a motorized fluorescence disk.
The swing direction is fixed at 0° (east-west). 11525300

TRANSMITTED LIGHT DIFFERENTIAL INTERFERENCE CONTRAST (DIC)

For transmitted light differential interference contrast a revolving polarizer, a fixed analyzer and a set of Wollaston prisms are required. The Leica DMi8 features both manual and motorized polarizer, analyzer, objective and condenser prism functions. The illumination-side IC prisms are inserted in the condenser disk and objective-side IC prisms in the objective prism disk.
The Leica DMi8 realizes DIC at working distances of up to 70 mm (S70 condenser). Objectives with magnifications from 5x to 100x can be used for DIC depending to the condenser.
Fast (automatic) switching between DIC, brightfield and phase contrast is possible at all times without the need for DIC prisms to remain in the beam path. For valid combinations of prisms, condensers and objectives, please refer to the objective list. http://www.leica-microsystems.com/objectives
Coded objective turrets recognize the installed objectives. The motorized objective prism disk selects the correct objective prism and sets the bias. The analyzer is automatically positioned in the beam path by the fluorescence disk. In addition, the luminous intensity, aperture diaphragm – and in the case of a motorized transmitted light axis, the field diaphragm – are automatically set to the required values. The condenser head automatically swings in and out as necessary. The user can adjust and overwrite the preset values at any time. Note: The S40 Condenser is not designed for DIC.

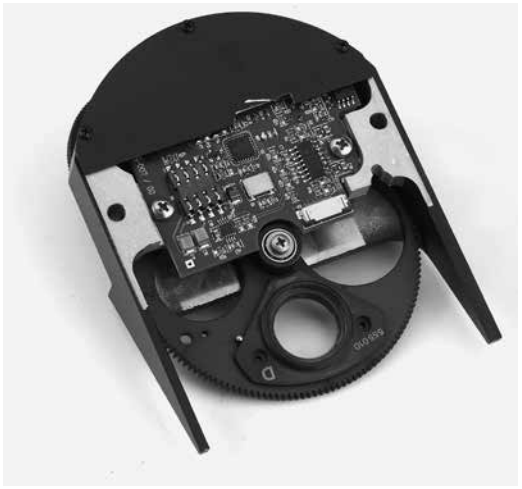


Fig. 60: Motorized DIC objective prism disk

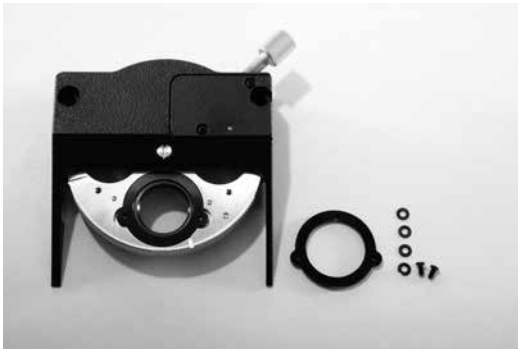


Fig. 61: Manual DIC objective prism disk



Fig. 62: DIC condenser prisms



Fig. 63: Objective prism D

DIC Turret

- Manual DIC objective system prism disk,4 positions 11522123
- Manual coded DIC objective system prism disk, 4 positions 11525117
- Motorized coded DIC objective system prism, disk 4 positions 11525118

A polarizer is required for Differential Interference Contrast

For motorized condenser (Type1)

- Motorized polarizer holder including polarizer for S23/28 condenser 11522120

For manual condenser (Type 1)

- Manual polarizer holder including polarizer for S23/28 condenser 11522103

For manual condenser (Type 2)

- Manual polarizer in round insert for S40 condenser 11522094

Analyzer ICT/P

The analyzer is located below the objective turret. To insert the analyzer, remove the cover for the unused objective DIC disk opening. (Component of stand 11-020-437-101-013)

- On slider 30 x 5 mm, fixed orientation 11522046

Alternatively for stands with fluorescence axis:

Analyzer Cube

This analyzer is built into an empty fluorescence filter cube and can be rotated into the beam path using a motorized fluorescence disk.
The swing direction is fixed at 0° (east-west). 11525300

Wollaston prisms

Objective prisms

- IC objective prism B1 (narrow splitting, resolution optimized) 11555007
- IC objective prism C (medium splitting, good compromise) 11555009
- IC objective prism C1 (narrow splitting, resolution optimized) 11522038
- IC objective prism C2 (wide splitting, contrast optimized) 11522039
- IC objective prism D (wide splitting - high contrast) 11555010
- IC objective prism D1 (narrow splitting - high resolution) 11555056
- IC objective prism E (wide splitting, contrast optimized) 11555046

Condenser prisms (Ø 23 mm)

- IC condenser prism K3 11521594
- IC condenser prism K11 11521545

Condenser prisms (Ø 32 mm)

- IC condenser prism K2 11555016
- IC condenser prism K3 11555017
- IC condenser prism K4 11555018
- IC condenser prism K5 11555019
- IC condenser prism K6 11521521
- IC condenser prism K7 11521522
- IC condenser prism K8 11521523
- IC condenser prism K9 11555030
- IC condenser prism K10 11521524
- IC condenser prism K11 11521529
- IC condenser prism K16 11522037
- IC condenser prism K17 11555091

For the manual S70 condensers turrets with 43 mm openings a 32/43 adapter is necessary for each of the prisms (max 3)

Reducing diameter adapter 32/43 11522093

C-MOUNT ADAPTER

You can adapt analog and digital cameras to all ports with documentation output. The C and B-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.

	Recorded picture diagonal in mm with				
	1-inch camera	2/3-inch camera	1/2-inch camera	1/3-inch camera	Order No.
Without zoom magnification, for 1-chip cameras only:					
C-mount adapter 1x HC	16	11	8	6	11541510
C-mount adapter 0.7x HC	–	15.7	11.4	7.8	11541543
C-mount adapter 0.55x HC	–	–	14.5	10.9	11541544
C-mount adapter 0.35x HC	–	–	–	17.1	11541512
With variable magnification level (Vario TV adapter) for 1–3 chip cameras:					
C-mount 0.32–1.6x HC	–	–	19*–5	18–3.8	11541517
Without variable magnification level, for 1-3 chip cameras:					
C-mount adapter 1x	–	–	16	12	11543706
B-mount adapter 1x	–	–	16	12	11543702
C-mount adapter 1x for sCMOS					11541546

* available beginning with Vario factor 0.42 x!



Fig. 64: TV adapter



Fig. 65: Screw cap



Fig. 66: DIC cover



Fig. 67: Analyzer opening cover



Fig. 68: Camera port cover

ACCESSORIES

Immersion oil, 10 ml
Free of natural fluorescence as per ISO 8036/1, refraction index $n_e^{23} = 1.5180 \pm 0.005$, dispersion $v_e^{23} = 44 \pm 2$ 11513859

Immersion oil, 20 ml
as per ISO 8036/1, refraction index $n_e^{23} = 1.5180 \pm 0.005$, dispersion $v_e^{23} = 44 \pm 2$ 11513860

Immersion oil, 250 ml
as per ISO 8036/1, refraction index $ne_e^{23} = 1.5180 \pm 0.005$, dispersion $v_e^{23} = 44 \pm 2$ 11513861

Stage micrometer
Transmitted light 2 mm = 200 parts 11513106

Stage micrometer
Incident light 1 mm = 100 parts 11563011

Hg 100 W/2 burner 11500321

Xe high-pressure burner 11500139

Screw cap for empty objective positions
Component of stand (M25) 11 020-422-570-000
Component of stand (M32) 11 020-422-557-000

Cover for unused objective DIC disk opening
Component of stand 11 090-144-020-058

Dust and light protection cover for polarizer opening
Component of stand 11 020-437-101-013

Dust and light protection cover for camera port openings
Component of stand 11 020-387-556-009

Ergonomic height compensation plate
A height compensation plate was developed to raise the viewing height by 23 mm or to raise the side camera ports for oversize cameras or spinning disks, or to use a microscope with an inactive bottom port on workbenches without openings. 11525200

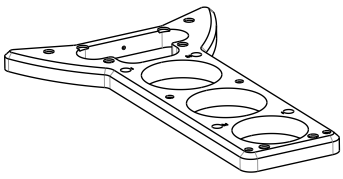


Fig. 69: Ergonomic height compensation plate

Focusing telescope

A focusing telescope is required when adjusting phase contrast, modulation contrast or differential interference contrast in order to view the rear focal plane of the objective.
The following tubes:
- Binocular ergonomic tube with Bertrand lens
- Trinocular ergonomic tube with Bertrand lens

are already equipped with a focusing telescope.

• Focusing telescope	11 505 070



Fig. 70: Focusing telescope

DIGITAL IMAGE DOCUMENTATION

Leica digital camera system DC
Monochrome and color digital cameras for all applications
(see www.leica-microsystems.com)



Fig. 71: Leica DFC Microscope Camera

SOFTWARE

Leica LAS X

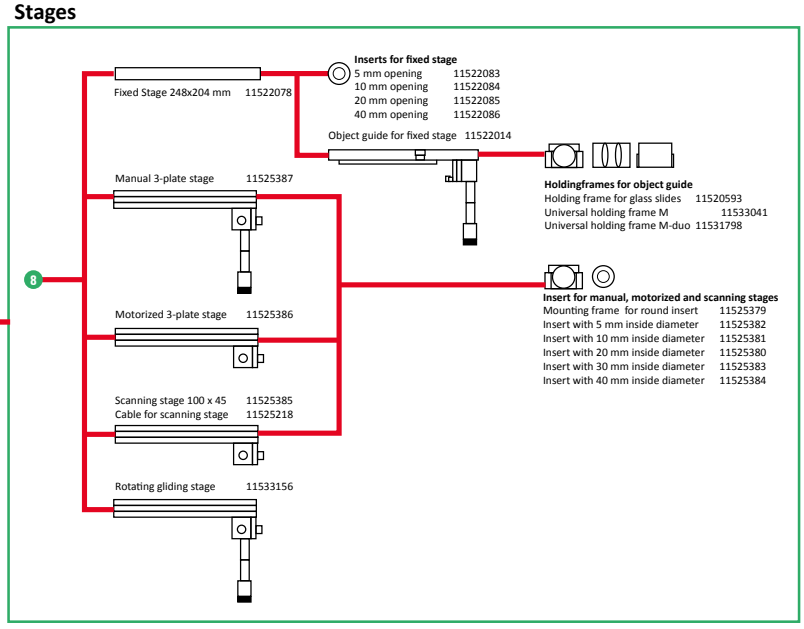
Leica LAS 4.6 or higher
(see www.leica-microsystems.com)

ANTI-VIBRATION

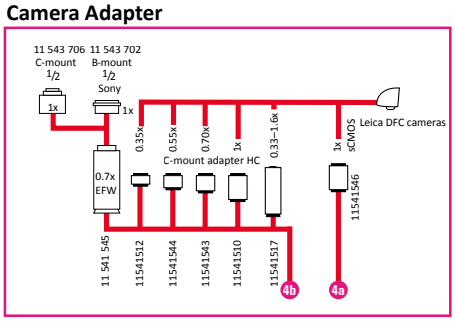
Large antivibration table for Leica DMi8	11525405
System Desk	11640255

SYSTEM OVERVIEW
LEICA DMi8 M/C/A

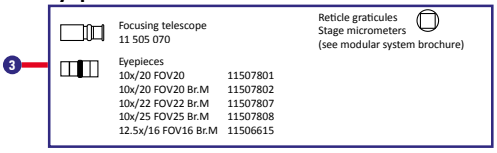
Stages



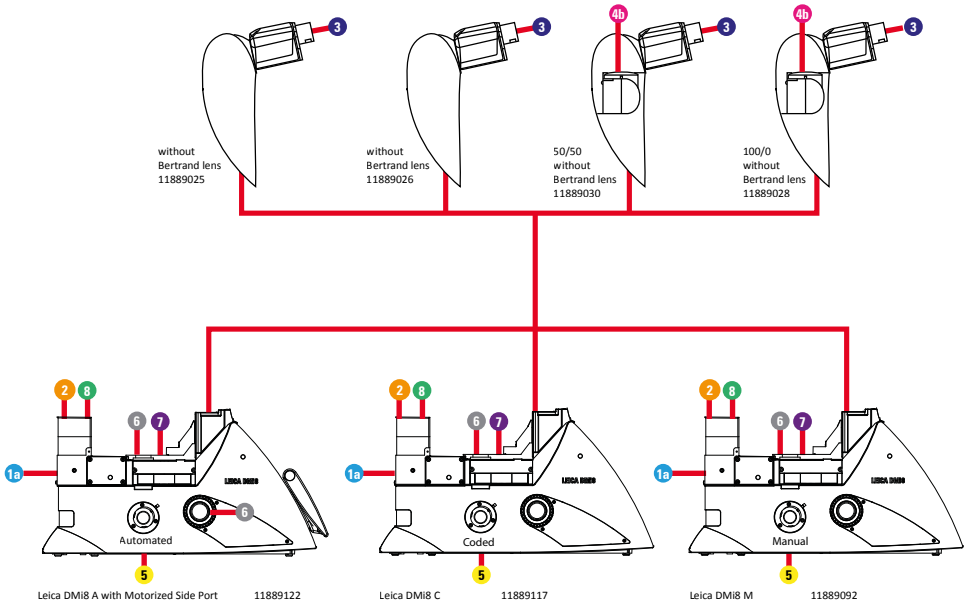
Camera Adapter



Eyepieces



Bino FixTube / Bino ErgoTube / Trino ErgoTubes



Leica DMi8 A with Motorized Side Port 11889122
Leica DMi8 A with Coded LeftSide Port 11889121

Leica DMi8 C 11889117

Leica DMi8 M 11889092

Mot. Side Ports for Leica DMi8 A

	No Port (Compensation Module)	11888256		
4a	Motorized Port LEFT	11889046	SP Prism 100% L	11888259
			SP Prism 80% L	11888262
			SP Prism 50% L	11888264
4b	Motorized Port LEFT/RIGHT	11889048	SP Prism 100% R	11888258
			SP Prism 80% R	11888261
	Motorized Port RIGHT	11889047	SP Prism 50% R	11888263

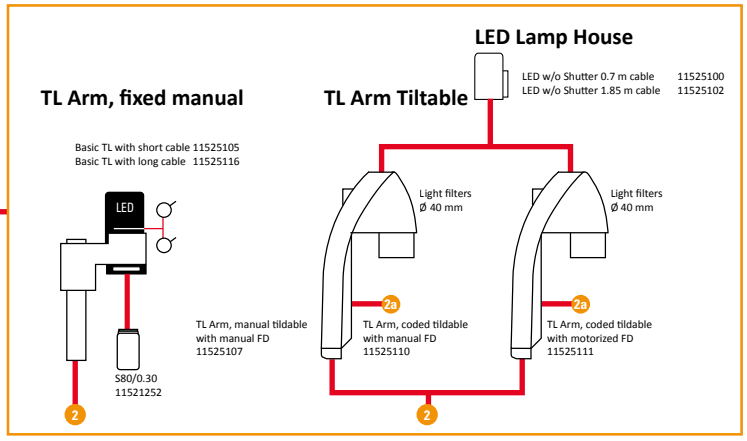
Coded Side Ports for Leica DMi8 C/A

	No Port (Compensation Module)	11888256
4a	Coded Port LEFT 100 %	11889045
4b	Coded Port LEFT 80 %	11889044

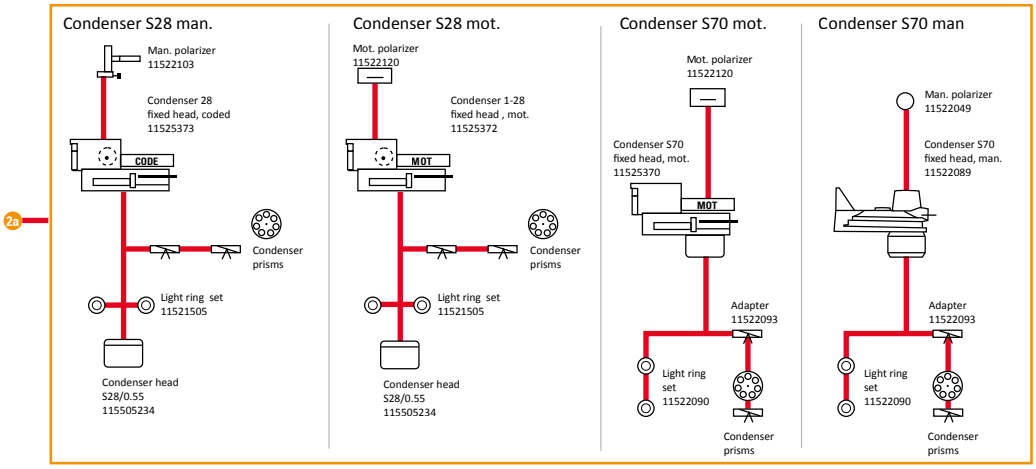
Manual Side Ports for Leica DMi8 M/C

	No Port (Compensation Module)	11888256
4a	Manual Port LEFT 100 %	11889043
4b	Manual Port LEFT 80 %	11889042

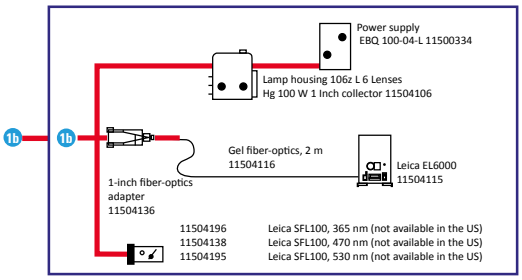
Transmitted-Light Arms



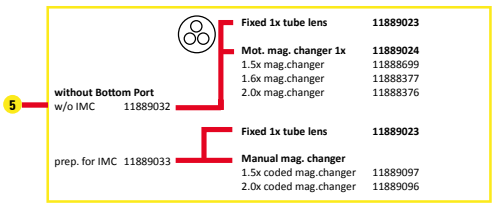
Condensers



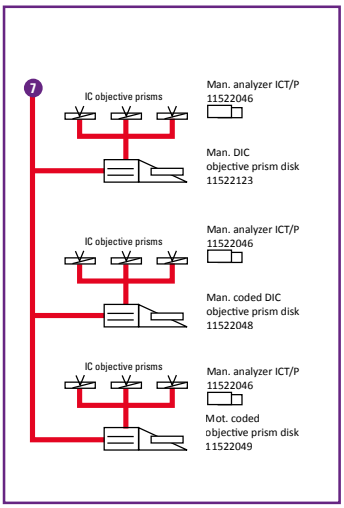
Fluorescence Lamp Housings



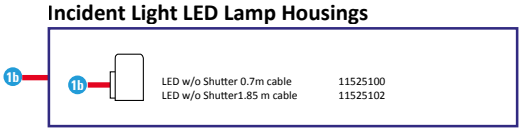
Optic Carrier/Mag. Changer



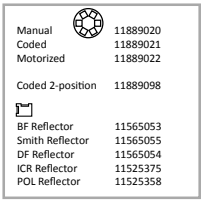
DIC systems



Incident Light LED Lamp Housings



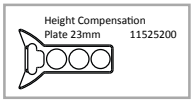
Reflector Turret



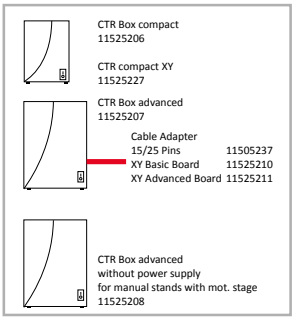
Incident Light Axis



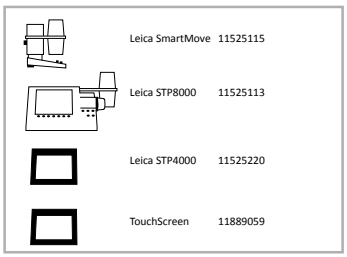
Ergonomic Base Plate



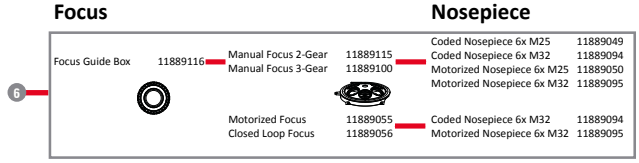
CTR Boxes



Controll Elements



Focus



Nosepiece

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Leica Microsystems CMS GmbH | Ernst-Leitz-Strasse 17–37 | D-35578 Wetzlar (Germany)
Tel. +49 (0) 6441 29-0 | F +49 (0) 6441 29-2599

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