Leica AF6000 E–AF7000

Leica Microsystems Advanced Widefield Systems

Technical Documentation

Living up to Life

Leica
MICROSYSTEMS

Upgrade Options from Entry-Level to High-End Solutions

	Leica AF6000 E	Leica AF6000	Leica AF6500	Leica AF7000
Main characteristics	Entry-level fluorescence acquisition system, 2D time-lapse, multi-channel overlay	Fluorescence imaging and analysis system, high flexibility (without real-time control)	High-speed fluorescence system, real-time control of camera and one filter wheel	Dedicated live cell system, full real-time control
Applications	Fluorescence imaging and documentation	General fluorescence imaging, 3D time-lapse experiments, multi-positioning, deconvolution	Functionality of AF6000, plus fast 2D time-lapse and fast ratio imaging, peripheral triggering	TIRF, fast 3D time-lapse, Fura2, FRET, deconvolution, peripheral triggering
Includes	AF6000 E SW + PC	AF6000 SW + PC	AF6000 SW + PC + CTR6500 HS	AF6000 SW + PC + CTR7000 HS
Leica DM1000 Ergonomic system microscope	●			
Leica DM2000 Advanced system microscope	●			
Leica DM2500 Advanced system microscope 100 W	●			
Leica DM3000 Advanced system microscope, motorized	●			
Leica DM4000 B Automated upright microscope for biological, laboratory and research applications	●			
Leica DM5000 B Automated upright microscope for demanding research applications	●	●	●	●
Leica DM5500 B Automated upright microscope for high-end research applications with motorized focus	●	●	●	●
Leica DM6000 B Fully automated upright microscope for cutting edge biomedical research	●	●	●	●
Leica DMI3000 B Manual inverted research microscope	●			
Leica DMI4000 B Automated inverted research microscope	●	●	●	●
Leica DMI6000 B Fully automated inverted research microscope	●	●	●	●
Leica M205 FA High-end stereomicroscope	●	●		
Leica MacroFluo High-end macroscope	●	●		

Software

- intuitive and guiding user interface
- context sensitive online help
- multi-dimensional data acquisition
- time-lapse experiments
- Mark and Find feature in combination with motorized stages (not on AF6000 E)
- quantification tools (not on AF6000 E)
- tile scanning (not on AF6000 E)

Software options	
Live Data Mode	interactive data recording allowing job-sequencing and online evaluation
3D visualization	maximum and other projections, simulated fluorescence process, 3D rotation and animations
Colocalization	histogram based colocalization and area measurements
3D Deconvolution	fully integrated deconvolution algorithm using adaptive calculated or supplied PSF
2D Deconvolution	fully integrated 2D deconvolution offering no-neighbour and nearest-neighbour algorithm
FRET SE	powerful wizard for FRET acquisition and analysis
Dye Finder	multi-color restoration, channel unmixing
Well plate acquisition	predefined and user-definable patterns

Hardware Specifications

SuperZ Galvo z-positioner	
travel range	250 µm
step size	61 nm

Piezo z-positioner	
travel range	100 µm
step size	25 nm

Leica EL6000 External light source	
lamp	HXP 120 W 45C VIS (Osram), Metal Halogenide bulb
light intensity	3.5 W (with IR filter, at the end of light guide)
life time	average 2000 h
shutter time	6 ms

Leica External Filter Wheels	Exitation, emission and attenuation filter wheels
filter positions	5
switching time	27 ms between adjacent positions 36 ms for maximum position distance

Incubator BL/Incubator BL TIRF	
temperature min.	3° C above room temperature
temperature max.	20° C above room temperature
control accuracy	+/– 0.1° C at sensor
step size	0.1° C

Cameras

Leica DFC310 FX Camera	
gain	1 to 10
digitization	12 bit
cooling	– 20 K to ambient
imaging array	1392 x 1040 pixel
pixel size	6.45 µm x 6.45 µm
interline progressive scan CCD	color
high speed trigger capability	yes

Leica DFC345 FX Camera	
gain	1 to 10
digitization	12 bit
cooling	active Peltier cooling
imaging array	1600 x 1200 pixel
pixel size	4.4 µm x 4.4 µm
interline progressive scan CCD	monochrome
high speed trigger capability	yes

Leica DFC360 FX Camera	
gain	1 to 10
digitization	12 bit
cooling	– 20 K to ambient
imaging array	1392 x 1040 pixel
pixel size	6.45 µm x 6.45 µm
interline progressive scan CCD	monochrome
high speed trigger capability	yes

Leica DFC425 C & DFC425 Camera	
gain	1 to 10
digitization	12 bit
cooling	– 20 K to ambient (DFC425: no cooling)
imaging array	2592 x 1944 pixel
pixel size	2.78 µm x 2.78 µm
interline frame transfer CCD	color
high speed trigger capability	no

Leica DFC495 Camera	
gain	1 to 10
digitization	12 bit
cooling	– 20 K to ambient
imaging array	3264 x 2448 pixel
pixel size	2.7 µm x 2.7 µm
interline frame transfer CCD	color
high speed trigger capability	no

Cameras

Princeton Instruments CoolSnap HQ2 Camera PCI board version	
gain	1 or 2
digitization	12 bit
cooling	– 30° C
imaging array	1392 x 1040 pixel
pixel size	6.45 µm x 6.45 µm
interline progressive scan CCD	monochrome
high speed trigger capability	yes

Princeton Instruments Cascade II 512B Camera	
gain	on chip multiplication gain
digitization	16 bit
cooling	– 80° C
imaging array	512 x 512 pixel
pixel size	16 µm x 16 µm
frame transfer CCD	monochrome, back thinned
high speed trigger capability	yes

Hamamatsu 9100-02 Camera	
gain	on chip multiplication gain
digitization	14 bit
cooling	– 50° C
imaging array	1000 x 1000 pixel
pixel size	8 µm x 8 µm
frame transfer CCD	monochrome
high speed trigger capability	yes

Hamamatsu 9100-13 Camera	
gain	on chip multiplication gain
digitization	16 bit
cooling	– 65° C (-80/-90° C water cooled)
imaging array	512 x 512 pixel
pixel size	16 µm x 16 µm
frame transfer CCD	monochrome, back thinned
high speed trigger capability	yes

Hamamatsu Orca R^2 Camera	
gain	1 to 10
digitization	12/16 bit
cooling	– 35° C (-40° C water cooled)
imaging array	1344 x 1024 pixel
pixel size	6.45 µm x 6.45 µm
interline progressive scan CCD	monochrome
high speed trigger capability	yes

Cameras

Andor iXon 897 Camera	
gain	on chip multiplication gain
digitization	14 bit
cooling	– 85° C air cooled
imaging array	512 x 512 pixel
pixel size	16 µm x 16 µm
frame transfer CCD	monochrome, back thinned
high speed trigger capability	yes

Andor iXon 885 Camera	
gain	on chip multiplication gain
digitization	14 bit
cooling	– 70° C air cooled
imaging array	1004 x 1002 pixel
pixel size	8 µm x 8 µm
frame transfer CCD	monochrome
high speed trigger capability	yes

High-Speed Components for the Leica Advanced Widefield System Line

	Leica AF6000 E	Leica AF6000	Leica AF6500	Leica AF7000
Time-lapse	●	●	●●	●●
Multi-channel overlay	●	●	●●	●●
Camera control	●	●	●●	●●
Z stack	○	●	●	●●
Motorized XY stage	○	●	●	●
Deconvolution	○	●	●	●
External filter wheels	● 1 FW*	● 1 FW*	●● 1 FW	●● 4 FW
Peripheral triggering	○	○	●● 2 In, 1 Out	●● 4 In, 4 Out
SuperZ Galvo fine focus	○	○	○	●●
Pifoc fine focus	○	○	○	●●
TIRF	○	○	○	●●

●● available, high-speed ● available, non high-speed ○ not available *Leica CTR5500, 6000 or 6500 required

Leica External Fast Filter Wheel for high-speed excitation, attenuation and emission control.

Leica Water Immersion Micro Dispenser supplies water immersion automatically during experiments with living specimens.

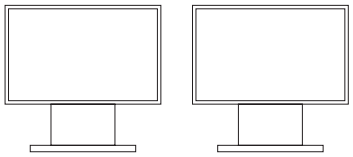
System Overview Leica AF6000 E

Cameras

10 446 307
2/3", 0.8×
Adapter

10 447 367
2/3", 0.63×
Adapter

11 547 000 Leica DFC360 FX
11 547 003 Leica DFC345 FX
11 547 002 Leica DFC310 FX



1 or 2 Monitors 19"
1x 11 600 169
2x 11 600 169

1 or 2 Monitors 22"
1x 11 600 261
2x 11 600 261

Recommended Cameras

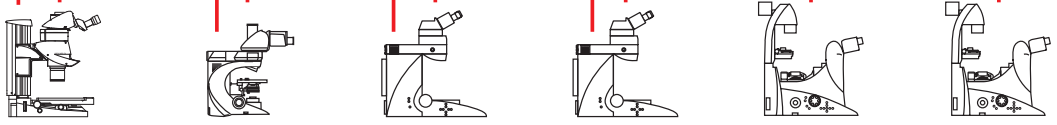
11 541 543
0.7x C-mount adapter

11 541 510
1.0x C-mount adapter

11 547 000 Leica DFC360 FX
11 547 003 Leica DFC345 FX
11 547 002 Leica DFC310 FX
12 730 223 Leica DFC495
12 730 222 Leica DFC425 C
12 730 221 Leica DFC425

Keyboards

11 600 220 Keyboard US
11 600 221 Keyboard UK
11 600 223 Keyboard Italian
11 600 224 Keyboard German
11 600 225 Keyboard Spanish
11 600 222 Keyboard Swedish
11 600 219 Keyboard French



M205 FA
MacroFluo

DM1000
DM2000
DM2500
DM3000

DM4000 B

DM5000 B
DM5500 B
DM6000 B

DMI3000 B

DMI4000 B
DMI6000 B

AF6000 E

11 640 016
without monitors
incl. AF6000 E licence and PC

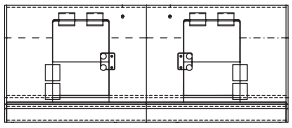
Upgrade AF6000 E to AF6000

System Overview
Leica AF6000

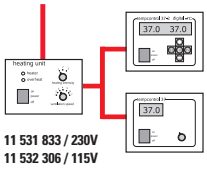
Keyboards

11 600 220 Keyboard US
11 600 221 Keyboard UK
11 600 223 Keyboard Italian
11 600 224 Keyboard German
11 600 225 Keyboard Spanish
11 600 222 Keyboard Swedish
11 600 219 Keyboard French

Climate Chamber Upright



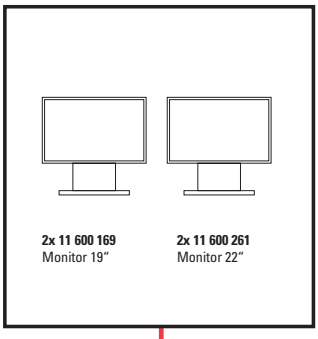
11 532 755
Incubator for DM4000-6000 B



11 521 719 / 230V
11 532 308 / 115V
Temp control unit
Digital

11 521 721 / 230V
11 532 309 / 115V
Temp control unit
Analog

11 531 833 / 230V
11 532 306 / 115V
Heating control unit



2x 11 600 169
Monitor 19"

2x 11 600 261
Monitor 22"

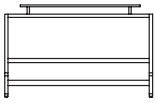
EL 6000 for M205 FA

11 504 115
EL 6000
11 500 331
Shutter cable
EL6000
11 504 116
Liquid light guide
10 447 399
Adapter for M205 FA

Software Options

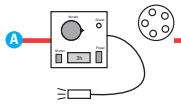
11 640 803	Live Data Mode	**11 640 808**	Dye Finder
11 640 804	3D Visualization	**11 640 811**	FRET Software (not for M205 FA and MacroFluo)
11 640 805	Colocalization	**11 640 812**	Core Review Software w/o Deconvolution
11 640 806	3D Deconvolution	**11 640 814**	Well Plate Acquisition (DMI6000 B with motorized/scanning stage or M205 FA/MacroFluo with Isopro stage)
11 640 807	2D Deconvolution		

11 640 256
Antivibration table



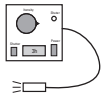
11 640 255
System Desk

EL 6000 + Leica Ext. FW (CTR5500/6000/6500 only)



11 504 115
EL 6000
11 500 331
Shutter cable
EL6000
11 504 116
Liquid light guide
11 504 121
Adapter 1" for EFW

EL 6000

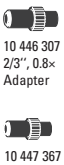


11 504 115
EL 6000
11 500 331
Shutter cable
EL6000
11 504 117
Adapter 1"
11 504 116
Liquid light guide

SFL4000/SFL7000

11 504 139 Leica SF
11 504 140 Leica SF

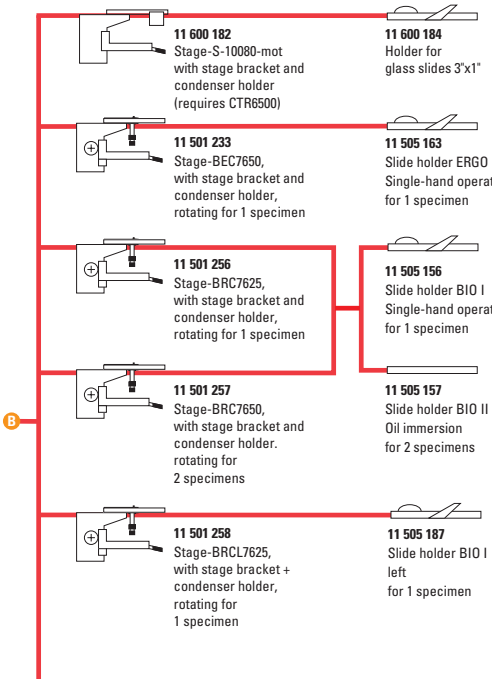
Cameras



10 446 307
2/3", 0.8×
Adapter

10 447 367
2/3", 0.63×
Adapter

11 547 000 Leica DFC360 FX
11 547 003 Leica DFC345 FX
11 547 002 Leica DFC310 FX



11 600 182
Stage-S-10080-mot
with stage bracket and
condenser holder
(requires CTR6500)

11 600 184
Holder for
glass slides 3"x1"

11 501 233
Stage-BEC7650,
with stage bracket and
condenser holder,
rotating for 1 specimen

11 505 163
Slide holder ERGO
Single-hand operation
for 1 specimen

11 501 256
Stage-BRC7625,
with stage bracket and
condenser holder,
rotating for 1 specimen

11 505 156
Slide holder BIO I
Single-hand operation
for 1 specimen

11 501 257
Stage-BRC7650,
with stage bracket and
condenser holder.
rotating for
2 specimens

11 505 157
Slide holder BIO II
Oil immersion
for 2 specimens

11 501 258
Stage-BRCL7625,
with stage bracket +
condenser holder,
rotating for
1 specimen

11 505 187
Slide holder BIO I
left
for 1 specimen

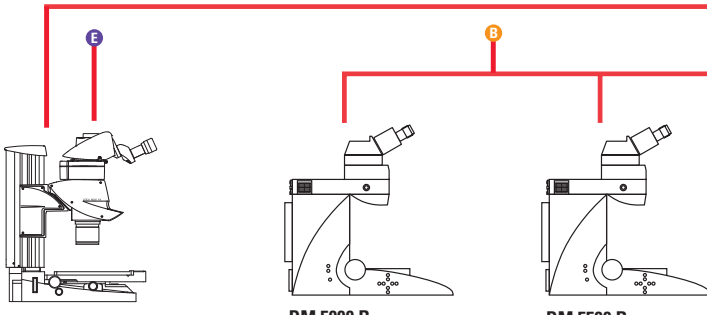
DM6000 B only:

11 505 181
Slide holder BIO I
Single-hand operation for
1 specimen for mot. stage

11 505 182
Slide holder BIO II
Oil immersion for 2
specimens for mot. stage

11 501 240
Stage
mot., with stage bracket
and condenser holder

Microscope



M205 FA
MacroFluo

DM 5000 B

DM 5500 B

Fast FIM

11 504 129
FFIM

11 504 119
Filterwheel slider short

11 504 132
Connection cable

Fura 2

11 522 072
Fura2-set

11 504 119
Filterwheel slider short

11 504 132
Connection cable

Triple

11 522 071
Triple-band-set

11 504 119
Filterwheel slider short

11 504 132
Connection cable

CFP/YFP FRET

Please use filter cube set **11 532 630** for CFP/YFP FRET

L4000 (not available in the US)

L7000 (not available in the US)

11 522 078
Regular fixed stage plate

11 522 012
Fixed heating stage plate

11 522 013
Fixed cooling stage plate

11 522 014
Objective guide for special holder frame

Special holder frames

Stage Inserts

11 532 536
Scanning Stage H117 N1 DM (cannot be combined with Incubator BL, requires CTR6500)

11 600 234
Universal mounting frame

C

11 522 076
Regular 3-plate stage

Pecon inserts and CO2 Covers

11 532 338
Stage insert for microtiter plates

11 521 735
CO2 cover for stage insert microtiter plates

11 522 068
3-Plate stage motorized (TR 127x83)

11 505 237
Adapter cable

11 522 100
Scanning stage motors below stage (TR127x83, requires CTR6500)

11 500 332
Adapter cable

11 640 403
Insert N

11 521 734
CO2 cover for temp. insert P

Cell Chamber

11 521 751
POC-R cell cultivation system

11 521 752
Perfusion insert, open with cover for POC-R

Cameras

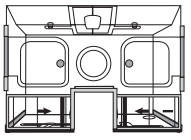
11 541 543
0.7x C-mount adapter

11 541 510
1.0x C-mount adapter

11 547 000	Leica DFC360 FX
11 532 576	CoolSnap HQ2 PCI board version
11 600 259	Cascade II 512B
11 640 270	Hamamatsu 9100-02 EM-CCD high speed set
11 600 239	Hamamatsu 9100-13 EM-CCD back illuminated
11 600 266	Hamamatsu Orca R² CCD
11 600 240	Andor iXon DU-897 EM CCD back illuminated
11 600 251	Andor iXon DU-885 EM-CCD high speed set
11 547 003	Leica DFC345 FX
11 547 002	Leica DFC310 FX
12 730 223	Leica DFC495
12 730 222	Leica DFC425 C
12 730 221	Leica DFC425

Climate Chambers Inverted

11 600 198
Incubator BL

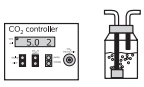


11 600 238
Incubator BL TIRF

11 531 833 / 230V
11 532 306 / 115V
Heating control unit

11 521 719 / 230V
11 532 308 / 115V
Temp control unit

CO2 Controller including Humidifier

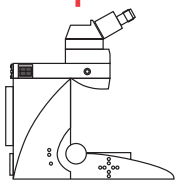


11 521 733 / 230V
11 532 305 / 115V
CO2 controller with accessories

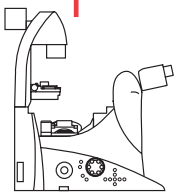
D

A

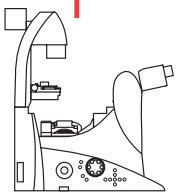
C



DM 6000 B



DMI 4000 B



DMI 6000 B

C

11 640 019 Water Immersion Micro Dispenser (DMI6000 only)

AF6000

11 640 008
without monitors including AF6000 core licence and PC

Upgrade Kit AF6000 to AF6500 for DMI4000 B: 11 640 010
Upgrade Kit AF6000 to AF7000 for DMI4000 B: 11 640 014

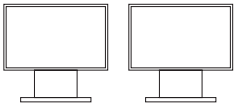
Upgrade Kit AF6000 to AF6500: 11 640 011
Upgrade Kit AF6000 to AF7000: 11 640 012

System Overview
Leica AF6500

Keyboards

11 600 220 Keyboard US
11 600 221 Keyboard UK
11 600 223 Keyboard Italian
11 600 224 Keyboard German
11 600 225 Keyboard Spanish
11 600 222 Keyboard Swedish
11 600 219 Keyboard French

A

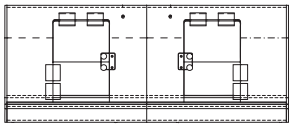


2x 11 600 169
Monitor 19"

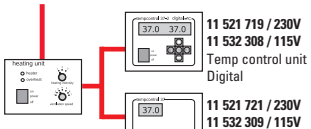
2x 11 600 261
Monitor 22"

A

Climate Chamber Upright



11 532 755
Incubator for DM4000-6000 B



11 521 719 / 230V
11 532 308 / 115V
Temp control unit
Digital

11 521 721 / 230V
11 532 309 / 115V
Temp control unit
Analog

11 531 833 / 230V
11 532 306 / 115V
Heating control unit

B

Cameras

11 541 543
0.7x C-mount adapter

11 541 510
1.0x C-mount adapter

A

11 547 000 Leica DFC360 FX
11 600 243 Trigger cable DFC Cameras for CTR7000

11 547 003 Leica DFC345 FX
11 600 243 Trigger cable DFC Cameras for CTR7000

11 547 002 Leica DFC310 FX
11 600 243 Trigger cable DFC Cameras for CTR7000

11 532 576 CoolSnap HQ2 PCI board version
11 600 244 Trigger cable Roper cameras for CTR7000

11 600 259 Cascade II 512B
11 600 244 Trigger cable Roper cameras for CTR7000

11 640 270 Hamamatsu 9100-02 EM-CCD high speed set
11 600 246 Trigger cable Hamamatsu cameras for CTR7000

11 600 239 Hamamatsu 9100-13 EM-CCD back illuminated
11 600 246 Trigger cable Hamamatsu cameras for CTR7000

11 600 266 Hamamatsu Orca R² CCD
11 600 267 Trigger cable Hamamatsu Orca R² for CTR7000

11 600 240 Andor iXon DU-897 EM CCD back illuminated
11 600 245 Trigger cable Andor cameras for CTR7000

11 600 251 Andor iXon DU-885 EM-CCD high speed set
11 600 245 Trigger cable Andor cameras for CTR7000

Peripheral triggering

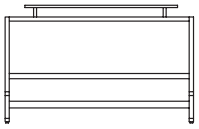
2 channel in and 1 out
11 640 004
Adapter peripheral triggering

A

Software Options

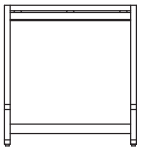
11 640 803 Live Data Mode
11 640 804 3D Visualization
11 640 805 Colocalization
11 640 806 3D Deconvolution
11 640 807 2D Deconvolution
11 640 808 Dye Finder
11 640 811 FRET Software
11 640 812 Core Review Software w/o Deconvolution
11 640 814 Well Plate Acquisition (DMI6000 B only, requires motorized/scanning stage)

A



11 640 255
System Desk

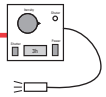
A



11 640 256
Antivibration table

A

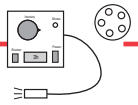
EL 6000



11 504 115
EL 6000
11 640 265
High Speed shutter cable
11 504 116
Liquid light guide
11 504 117
Adapter 1"

A

EL 6000 + Leica External FW

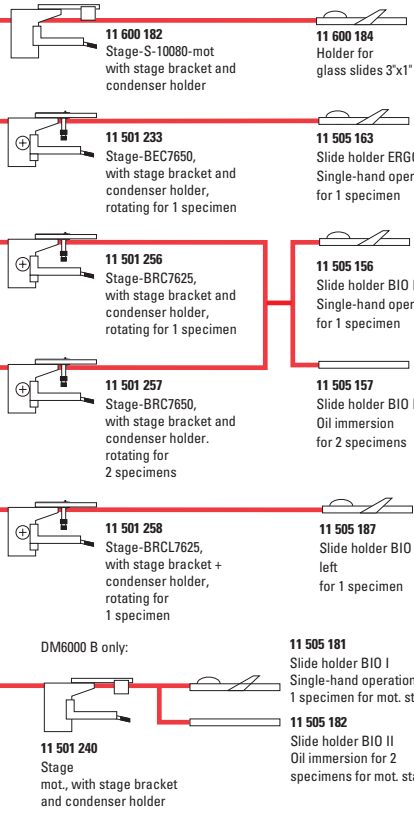


11 504 115 EL 6000
11 640 265 High Speed
11 504 117 Adapter 1"
11 504 116 Liquid light g
11 640 266
Holder for two FW sliders

SFL7000

11 504 140

B



11 600 182
Stage-S-10080-mot
with stage bracket and condenser holder

11 600 184
Holder for glass slides 3"x1"

11 501 233
Stage-BEC7650,
with stage bracket and condenser holder,
rotating for 1 specimen

11 505 163
Slide holder ERGO
Single-hand operation
for 1 specimen

11 501 256
Stage-BRC7625,
with stage bracket and condenser holder,
rotating for 1 specimen

11 505 156
Slide holder BIO I
Single-hand operation
for 1 specimen

11 501 257
Stage-BRC7650,
with stage bracket and condenser holder.
rotating for
2 specimens

11 505 157
Slide holder BIO II
Oil immersion
for 2 specimens

11 501 258
Stage-BRCL7625,
with stage bracket + condenser holder,
rotating for
1 specimen

11 505 187
Slide holder BIO I
left
for 1 specimen

DM6000 B only:

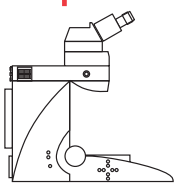
11 505 181
Slide holder BIO I
Single-hand operation for
1 specimen for mot. stage

11 505 182
Slide holder BIO II
Oil immersion for 2
specimens for mot. stage

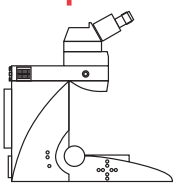
11 501 240
Stage
mot., with stage bracket
and condenser holder

B

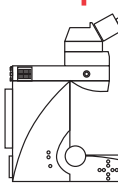
Microscope



DM 5000 B



DM 5500 B



DM 6000 B

4 channel in and 4 out

11 640 004
Adapter peripheral triggering

11 640 002
BNC-Box

Fast FIM

11 504 129
FFIM

11 504 119
Filterwheel slider short

11 504 132
Connection cable

Fura 2

11 522 072
Fura2-set

11 504 119
Filterwheel slider short

11 504 132
Connection cable

CFP/YFP FRET

Please use filter cube set **11 532 630** for CFP/YFP FRET

Triple

11 522 071
Triple-band-set

11 504 119
Filterwheel slider short

11 504 132
Connection cable

Shutter cable

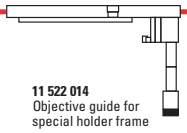
uide

eica SFL7000 (not available in the US)

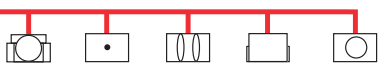
11 522 078
Regular fixed stage plate

11 522 012
Fixed heating stage plate

11 522 013
Fixed cooling stage plate



11 522 014
Objective guide for special holder frame



Special holder frames

11 532 536
Scanning Stage H117 N1 DM (cannot be combined with Incubator BL)

Stage Inserts

11 600 234
Universal mounting frame

11 522 076
Regular 3-plate stage

C

Pecon inserts and CO2 Covers

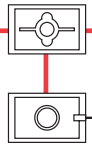
11 532 338
Stage insert for microtiter plates

11 521 735
CO2 cover for stage insert microtiter plates

11 522 068
3-Plate stage motorized (TR 127x83)

11 522 100
Scanning stage motors below stage (TR127x83)

11 500 332
Adapter cable



11 640 403
Insert N

11 521 734
CO2 cover for temp. insert P

Cell Chamber

11 521 751
POC-R cell cultivation system

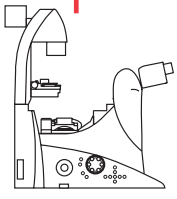
11 521 752
Perfusion insert, open with cover for POC-R

C

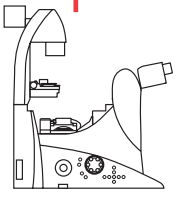
11 640 019
Water Immersion Micro Dispenser (DMI6000 only)

A

C



DMI 4000 B



DMI 6000 B

AF6500

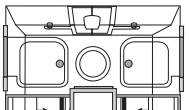
11 640 009
including AF6000 core licence, PC and CTR6500 HS

Upgrade Kit AF6500 to AF7000
11 640 013

Climate Chambers Inverted

C

11 600 198
Incubator BL

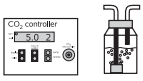


11 600 238
Incubator BL TIRF

11 531 833 / 230V
11 532 306 / 115V
Heating control unit

11 521 719 / 230V
11 532 308 / 115V
Temp control unit

CO2 Controller including Humidifier

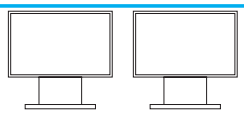


11 521 733 / 230V
11 532 305 / 115V
CO2 controller with accessories

System Overview
Leica AF7000

11 600 220 Keyboard US
11 600 221 Keyboard UK
11 600 223 Keyboard Italian
11 600 224 Keyboard German
11 600 225 Keyboard Spanish
11 600 222 Keyboard Swedish
11 600 219 Keyboard French

A

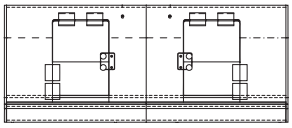


2x 11 600 169
Monitor 19"

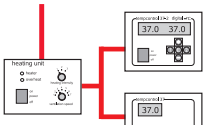
2x 11 600 261
Monitor 22"

A

Climate Chamber Upright



11 532 755
Incubator for DM4000-6000 B



11 521 719 / 230V
11 532 308 / 115V
Temp control unit
Digital

11 521 721 / 230V
11 532 309 / 115V
Temp control unit
Analog

11 531 833 / 230V
11 532 306 / 115V
Heating control unit

B

Cameras

11 541 543
0.7x C-mount adapter

A

11 541 510
1.0x C-mount adapter

11 547 000 Leica DFC360 FX
11 600 243 Trigger cable DFC Cameras for CTR7000

11 547 003 Leica DFC345 FX
11 600 243 Trigger cable DFC Cameras for CTR7000

11 547 002 Leica DFC310 FX
11 600 243 Trigger cable DFC Cameras for CTR7000

11 532 576 CoolSnap HQ2 PCI board version
11 600 244 Trigger cable Roper cameras for CTR7000

11 600 259 Cascade II 512B
11 600 244 Trigger cable Roper cameras for CTR7000

11 640 270 Hamamatsu 9100-02 EM-CCD high speed set
11 600 246 Trigger cable Hamamatsu cameras for CTR7000

11 600 239 Hamamatsu 9100-13 EM-CCD back illuminated
11 600 246 Trigger cable Hamamatsu cameras for CTR7000

11 600 266 Hamamatsu Orca R² CCD
11 600 267 Trigger cable Hamamatsu Orca R² for CTR7000

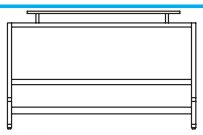
11 600 240 Andor iXon DU-897 EM CCD back illuminated
11 600 245 Trigger cable Andor cameras for CTR7000

11 600 251 Andor iXon DU-885 EM-CCD high speed set
11 600 245 Trigger cable Andor cameras for CTR7000

Software Options

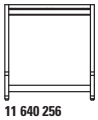
11 640 803	Live Data Mode	**11 640 808**	Dye Finder
11 640 804	3D Visualization	**11 640 811**	FRET Software
11 640 805	Colocalization	**11 640 812**	Core Review Software w/o Deconvolution
11 640 806	3D Deconvolution	**11 640 814**	Well Plate Acquisition (DMI6000 B only,
11 640 807	2D Deconvolution		requires motorized/scanning stage)

A



11 640 255
System Desk

A



11 640 256
Antivibration table

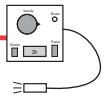
A

Peripheral triggering

2 channel in and 1 out
11 640 004
Adapter peripheral triggering

A

EL 6000



A

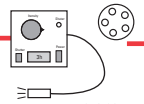
11 504 115
EL 6000

11 640 265
High Speed
shutter cable

11 504 116
Liquid light guide

11 504 117
Adapter 1"

EL 6000 + Leica External FW



11 504 115
EL 6000

11 640 265
High Speed Shutter ca

11 504 117
Adapter 1"

11 504 116
Liquid light guide

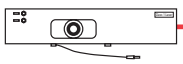
11 640 266
Holder for two FW sliders

SFL7000

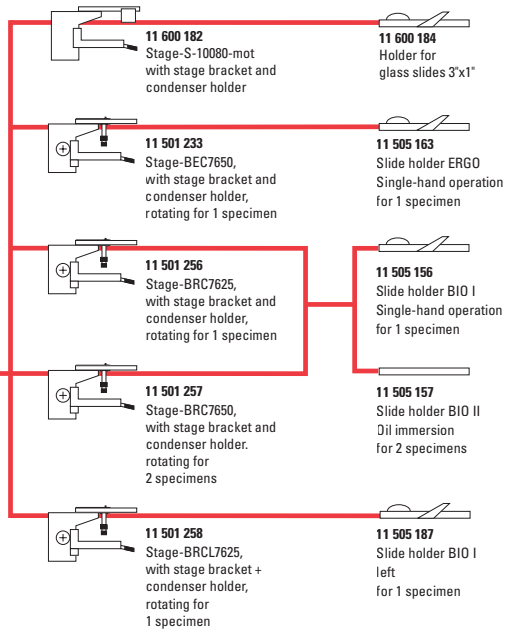
11 504 140 Leica SFL7
(not availa

TIRF

11 888 383 TIRF MC Retrofit Kit
11 506 318 Obj. HCX PL APO 100x/1.47 Oil
11 506 319 Obj. HCX PL APO 63x/1.47 Oil



B



11 600 182
Stage-S-10080-mot
with stage bracket and
condenser holder

11 600 184
Holder for
glass slides 3"x1"

11 501 233
Stage-BEC7650,
with stage bracket and
condenser holder,
rotating for 1 specimen

11 505 163
Slide holder ERGO
Single-hand operation
for 1 specimen

11 501 256
Stage-BRC7625,
with stage bracket and
condenser holder,
rotating for 1 specimen

11 505 156
Slide holder BIO I
Single-hand operation
for 1 specimen

11 501 257
Stage-BRC7650,
with stage bracket and
condenser holder.
rotating for
2 specimens

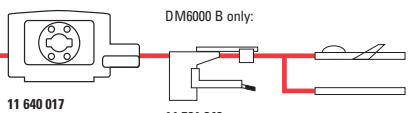
11 505 157
Slide holder BIO II
Oil immersion
for 2 specimens

11 501 258
Stage-BRCL7625,
with stage bracket +
condenser holder,
rotating for
1 specimen

11 505 187
Slide holder BIO I
left
for 1 specimen

B

Fast Z-Movement



DM6000 B only:

11 640 017
SuperZ Galvo
Focus AF7000
for mot. stage

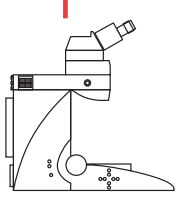
11 501 240
Stage
mot., with stage bracket
and condenser holder

11 505 181
Slide holder BIO I
Single-hand operation for
1 specimen for mot. stage

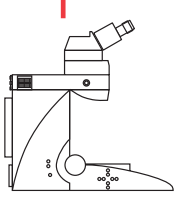
11 505 182
Slide holder BIO II
Oil immersion for 2
specimens for mot. stage

Microscope

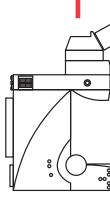
B



DM 5000 B



DM 5500 B



DM 6000 B

4 channel in and 4 out

11 640 004
Adapter peripheral triggering

11 640 002
BNC-Box

Fast FIM

11 504 129
FFIM

11 504 119
Filterwheel slider short

11 504 132
Connection cable

Fura 2

11 522 072
Fura2-set

11 504 119
Filterwheel slider short

11 504 132
Connection cable

CFP/YFP FRET

11 522 073
FRET CFP/YFP set

2x 11 504 119
Filterwheel slider short

2x 11 504 132
Connection cable

11 541 545
C-mount 0.7x for EFW

11 513 892
Filter system CFP

11 513 893
Filter system YFP

Triple

11 522 071
Triple-band-set

11 504 119
Filterwheel slider short

11 504 132
Connection cable

TIRF Lasers

11 888 364 MC Box w/o 405nm
11 888 365 MC Box incl. 405nm
11 523 020 Ar Ion laser kit

11 522 078
Regular fixed stage plate

11 522 012
Fixed heating stage plate

11 522 013
Fixed cooling stage plate

11 522 014
Objective guide for special holder frame

Special holder frames

Stage Inserts

11 532 536
Scanning Stage H117 N1 DM (cannot be combined with Incubator BL)

11 600 234
Universal mounting frame

Pecon inserts and CO2 Covers

11 532 338
Stage insert for microtiter plates

11 521 735
CO2 cover for stage insert microtiter plates

11 522 076
Regular 3-plate stage

11 640 403
Insert N

11 521 734
CO2 cover for temp. insert P

Cell Chamber

11 521 751
POC-R cell cultivation system

11 521 752
Perfusion insert, open with cover for POC-R

SuperZ Galvo Inserts

11 640 409
Insert SuperZ for MatTek dish 35 mm

11 640 404
Insert SuperZ for Willco dish 35 mm

11 640 405
Insert SuperZ for Willco and MatTek dish 50 mm

11 640 407
Incubator SuperZ for petri dishes

11 640 414
Insert for SuperZ rotable

Insert for SuperZ fix (comes with SuperZ Galvo)

11 640 410
Insert for SuperZ universal

11 640 406
Incubator SuperZ for Microplates

11 640 416
Insert SuperZ for Microplates

Stages

11 640 251
PIFOC kit AF7000

11 522 068
3-Plate stage motorized (TR 127x83)

11 522 100
Scanning stage motors below stage (TR 127x83)

11 500 332
Adapter cable

Fast Z-Movement

11 640 260
SuperZ Galvo Focus AF7000 for 3-plate stage

11 640 019 Water Immersion Micro Dispenser (DMI6000 only)

Climate Chambers Inverted

11 600 198
Incubator BL

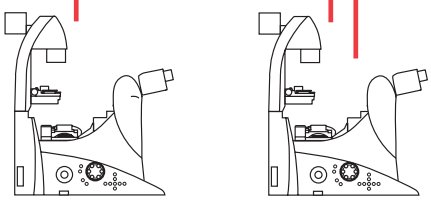
11 600 238
Incubator BL TIRF

11 531 833 / 230V
11 532 306 / 115V
Heating control unit

11 521 719 / 230V
11 532 308 / 115V
Temp control unit

CO2 Controller including Humidifier

11 521 733 / 230V
11 532 305 / 115V
CO2 controller with accessories



DMI 4000 B DMI 6000 B

AF7000

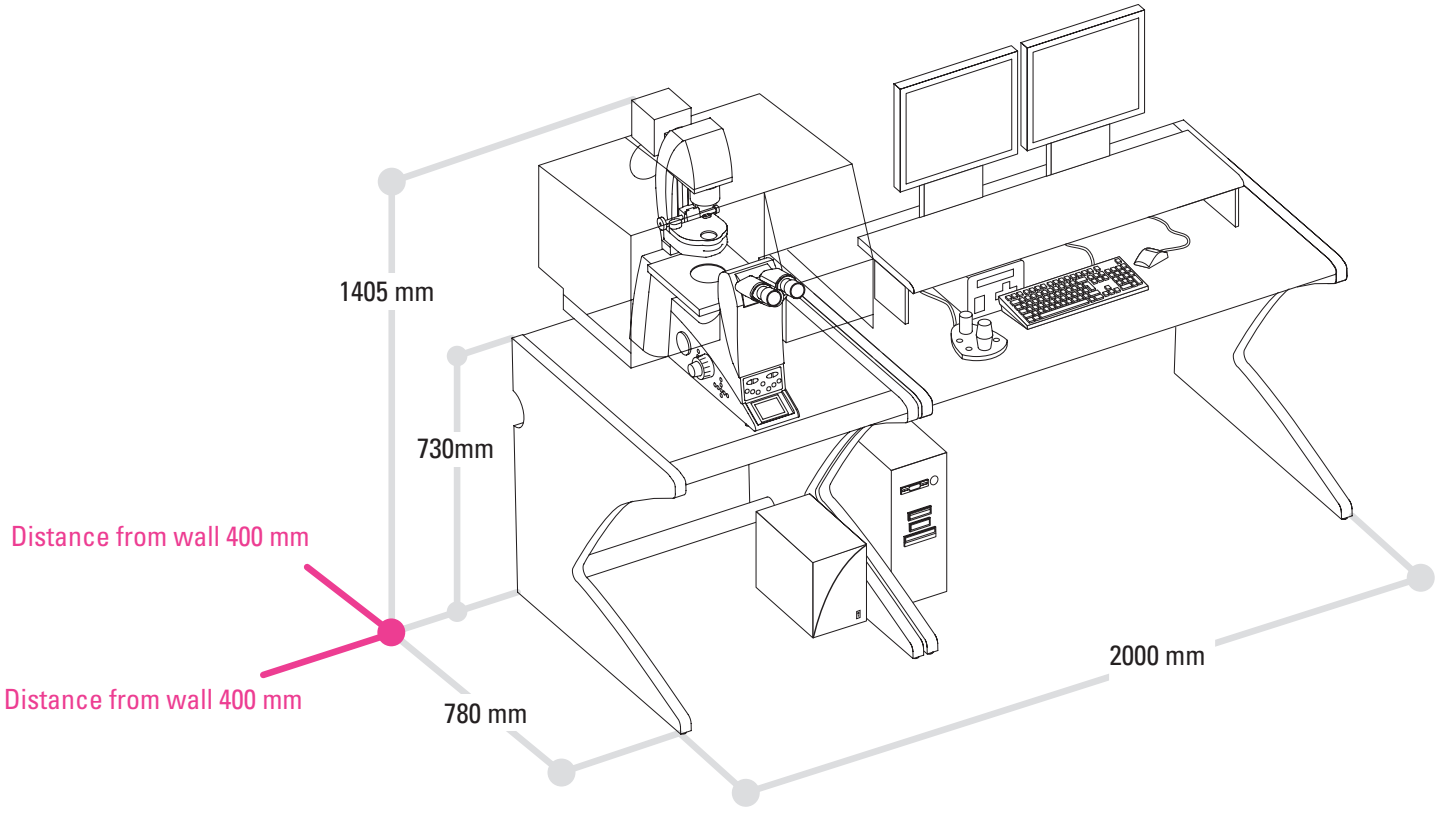
11 640 015
including AF6000 core licence, PC and CTR7000 HS

Installation Requirements

Environment	Room temperature: +18 to + 25° C, low fluctuation of temperature Avoid proximity to air conditioning equipment Protect from dust Room darkening recommended Air conditioned room recommended Humidity max 80% (35° C)
Electricity supply*	115 / 230 V AC/ +/– 10%, 60/50 Hz Two separate fused power lines: 1 x 1600 VA for main system 1 x 700 VA for climate controller and monitors
Heat load*	System: approx. 500 – 900 W Climate controller: approx. 300 W (stand-by)
Crating (width, depth and height in mm)*	maximum box size: (1470/1000/1030), max weight: 236 kg (if optional work desk and/or antivibration table is included)
	Pallets for other hardware components

* maximum numbers for the Leica Advanced Widefield System line

Leica AF6000 with Leica M205 FA stereomicroscope and Leica EL6000 external light source



Maximum footprint of the Leica Advanced Widefield System line with antivibration table and system desk.

Leica AF7000 with Leica DMI6000 B inverted microscope, climate chamber, CO_2 controller and SuperZ Galvo focus

Leica Microsystems – the brand for outstanding products

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

• Life Science Research Division

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

• Industry Division

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

• Biosystems Division

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

• Surgical Division

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

Leica Microsystems' mission is to be the world's first-choice provider of innovative solutions to our customers' needs for vision, measurement and analysis of micro-structures.

Leica, the leading brand for microscopes and scientific instruments, developed from five brand names, all with a long tradition: Wild, Leitz, Reichert, Jung and Cambridge Instruments. Yet Leica symbolizes innovation as well as tradition.

Leica Microsystems – an international company with a strong network of customer services

Australia:	North Ryde	Tel. +61 2 8870 3500	Fax +61 2 9878 1055
Austria:	Vienna	Tel. +43 1 486 80 50 0	Fax +43 1 486 80 50 30
Belgium:	Groot Bijgaarden	Tel. +32 2 790 98 50	Fax +32 2 790 98 68
Canada:	Richmond Hill/Ontario	Tel. +1 905 762 2000	Fax +1 905 762 8937
Denmark:	Herlev	Tel. +45 4454 0101	Fax +45 4454 0111
France:	Rueil-Malmaison	Tel. +33 1 47 32 85 85	Fax +33 1 47 32 85 86
Germany:	Wetzlar	Tel. +49 64 41 29 40 00	Fax +49 64 41 29 41 55
Italy:	Milan	Tel. +39 0257 4861	Fax +39 0257 40 3475
Japan:	Tokyo	Tel. + 81 3 5421 2800	Fax +81 3 5421 2896
Korea:	Seoul	Tel. +82 2 514 65 43	Fax +82 2 514 65 48
Netherlands:	Rijswijk	Tel. +31 70 4132 100	Fax +31 70 4132 109
People's Rep. of China:	Hong Kong	Tel. +852 2564 6699	Fax +852 2564 4163
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Singapore		Tel. +65 6779 7823	Fax +65 6773 0628
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