



Leica CLS100 LED

Innovative Light Source in Daylight Quality for Stereo Microscopes

Living up to Life

Leica
MICROSYSTEMS



LED Light Source



CLS100 LED

- Variable intensity control
- No internal fan (no vibrations, stability)
- Suitable for applications with low noise and vibration free requirements
- ESD connection

Accessories



Adapter for Schott light guides



Weight plate

Attaches to the bottom of the CLS100 LED to provide increased stability when using gooseneck lightguides.

The new Leica CLS100 LED light source has set another milestone in the advancement of modern cold light sources.

This light source combines LED illumination with the vast possibilities offered by traditional fiber-optic light sources. This light source achieves the light intensity of standard fiber-optic halogen lighting systems by using light guides in combination with patented focusing attachments. The result is a substantial increase in brightness while providing an opportunity to conserve energy with LED technology.

The light source is designed for the use with any Leica fiber optic light guide, thus taking advantage of the huge range of lighting options provided by halogen light sources.

This innovative lighting system offers a number of product features at an extremely attractive price in comparison with halogen light sources.

- Colour temperature: daylight quality
- Average service life: 50,000 hours
- No IR- and no UV-radiation
- Minimal object heating
- Brightness control and separate On/Off switch
- Ripple and flicker free illumination
- No noise or vibration
- No air turbulence
- Resistant to shocks and vibration
- Universal power supply for global application
- Compact design
- ESD protection
- User safety
- Low energy consumption
- Environmentally friendly

The Extensive System at a Glance

Adapters and holders (see list)



Gooseneck light guide 1-arm
3 / 500 mm: 30 130 012
4.5 / 600 mm: 30 130 011

Gooseneck light guide 2-arm
3 / 500 mm: 30 130 021
4.5 / 600 mm: 30 130 022
4.5 / 600 mm ESD: 30 130 422

Gooseneck light guide 3-arm
4.5 / 600 mm: 30 130 031

Combination light guide 2-arm
4.5 / 450 / 750 mm: 30 140 001
4.5 / 450 / 1000 mm: 30 140 002
4.5 / 450 / 1500 mm: 30 140 003
4.5 / 450 / 2000 mm: 30 140 004

Flexible light guide 1-arm
3 / 600 mm: 30 150 111
3 / 1000 mm: 30 150 112
3 / 1500 mm: 30 150 113
3 / 2000 mm: 30 150 114
5 / 600 mm: 30 150 121
5 / 1000 mm: 30 150 122
5 / 1500 mm: 30 150 123
5 / 2000 mm: 30 150 124
5 / 500 mm TVC: 30 150 711
5 / 750 mm TVC: 30 150 712
8 / 1000 mm: 30 150 131
8 / 2000 mm: 30 150 133
9 / 500 mm TVC: 30 150 701
9 / 750 mm TVC: 30 150 702
9 / 1000 mm TVC: 30 150 703
9 / 1500 mm TVC: 30 150 704

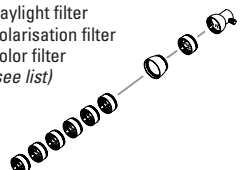
Flexible light guide 2-arm
3 / 600 mm: 30 150 211
3 / 1000 mm: 30 150 212
3 / 1500 mm: 30 150 213
3 / 2000 mm: 30 150 214
5 / 600 mm: 30 150 221
5 / 600 mm GZ6: 30 150 229
5 / 1000 mm: 30 150 222
5 / 1500 mm: 30 150 223
5 / 2000 mm: 30 150 224
8 / 1000 mm: 30 150 231
8 / 1500 mm: 30 150 232

Backlight
30 241 001

Line converter attachment
30 170 121

Filter and focusing lens attachment:

Holder
Focusing lens
Diffusor
Daylight filter
Polarisation filter
Color filter
(see list)



Articulated support arm:

Holder and adapter
30 157 103
Articulated arm
30 157 101
Base plate
30 221 008



for RL 66 and RL 66 vertical:

Adapters
(see list)

Focusing lens 30 122 105

Polarizing filter set
(Ø 66 mm): 30 121 101
Polarizer 30 121 102
Analyser 30 121 103

Diffusor 30 121 201

Segment shutter 30 121 202

for RL 80:

Polarizing filter set
(Ø 80 mm): 30 121 104
Polarizer 30 121 105
Analyser 30 121 106

for dark-field ringlight:

Adapter extension
30 123 133



Ringlight Ø 25 mm
6 / 1000 mm



Ringlight Ø 66 mm
5,4 / 600 mm 6-p
7,6 / 750 mm 6-p
5,4 / 1000 mm 6-p
7,6 / 1000 mm 6-p
5,4 / 1500 mm 6-p
7,6 / 1500 mm 6-p
9 / 750 mm cont.
9 / 1000 mm cont.
9 / 1500 mm cont.
9 / 2000 mm cont.
9 / 750 mm cont. ESD



Ringlight Ø 66 mm with vertical light guide
9 / 1000 mm



Ringlight Ø 58 mm
9,3 / 1000 mm



Ringlight Ø 80 mm
9,3 / 750 mm



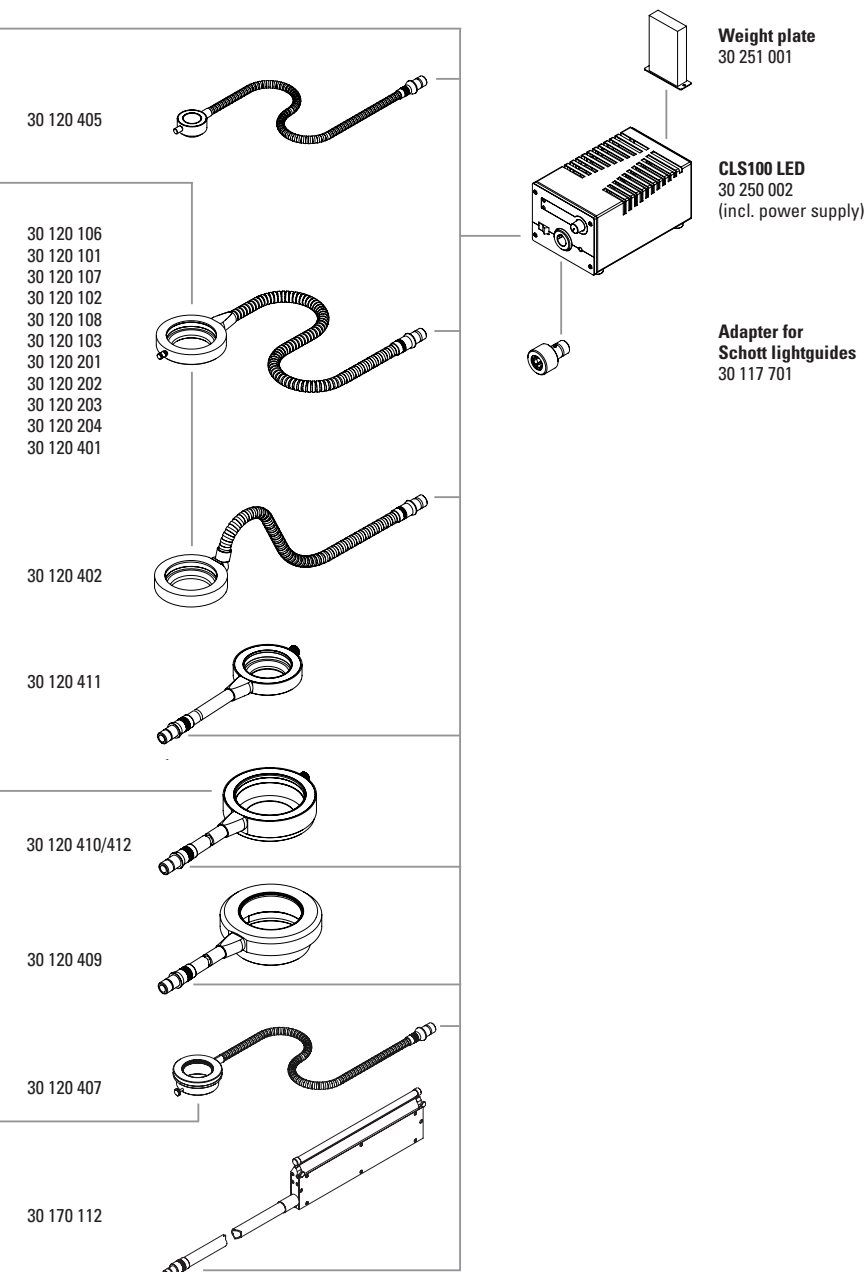
Ringlight Ø 85 mm
9,4 / 750 mm



Dark-field ringlight
7 / 1000 mm



Line converter
50 / 0.5 / 800 mm:



Accessories:

for light guides / goosenecks / combination light guides:

Base plate:	
Adapters for holder	30 157 104
Adapter for M8	30 157 105
Filter and lens holder	30 161 101
Focusing lens 20	30 161 102
Focusing lens 26	30 161 110
Filters:	
blue	30 161 103
green	30 161 104
yellow	30 161 105
red	30 161 106
Daylight	30 161 107
Polarisation	30 161 108
Diffusor	30 161 109
Adapter for bulb holder 10445654	30 143 001
Adapter for stand (Ø 25 mm)	30 143 002
Backlight adapter for sub-base	30 157 202
Adapter for incident light guides	30 143 006

for ringlights:

Adapters:	
MS5/MZ6 (Achr. obj. 1x/0.8x/0.63x/0.32x)	30 123 101
MS5/MZ6 (Achr. obj. 1.5x)	30 123 102
MS5/MZ6 (Achr. obj. 2.0x)	30 123 103
MZ420 (Obj. Macro/Apo Zoom)	30 123 104
M5A (Achr. obj. 2.0x/1.5x/1.0x)	30 123 105
MZ6 (Obj. 411597)	30 123 106
66/58	30 123 107
GZ6 (Working distance > 150 mm)	30 123 121
GZ4	30 123 131
70/66	30 123 132
70/58	30 123 134
70/53	30 123 135
85/80	30 123 136

Power Cables:	
Switzerland, 2.5 m	10 280 636
USA, 2 m	10 445 661
EURO, 2 m	10 445 662
BS, 2 m–2.5 m	10 445 663
Japan, 2 m	10 447 346
Argentina type K, 2 m	10 450 012
Australia type F, 2 m	10 450 013
China type L, 2 m	10 450 014
Israel type I, 2 m	10 450 015
Italy type E, 2 m	10 450 016
South Africa type D, 2 m	10 450 017

Technical Data

Cold light source	CLS100 LED
Item no.	30 250 002
Diode	High-power LED
Range control	min. 30:1
Colour temperature	5,500 K (daylight)
Power input	22 W
Power supply	24 V DC +/- 5%, 1000 mA, hollow pin 5.5 x 2.1 mm
Brightness control	variable using rotary potentiometer, with index marks
LED service life	50,000 h
Lightguide connection	Leica standard (Ø 15 mm, galvanically separated)
ESD socket	4 mm banana plug for potential equalisation
Power cord	plug-in
Dimensions (L x W x H)	96 x 110 x 175 mm without controls
Weight	2,500 g
Type of protection (protection class)	III
Conformity	CE (EMC directive 89/336/EEC), RoHS

Power supply	
Mains plug connection (primary input)	3-pin IEC 320
Output socket connection (connects to the CLS)	Hollow pin 5.5 x 2.1 mm
Voltage range	100–240 V
Mains frequency	50–60 Hz
Power input max.	30 VA
Protection class	I
Conformity	CE, UL, RoHS

Weight plate	
Item no.	30 251 001
Dimensions (L x W x H)	85 x 50 x 16 mm
Weight	500 g

Subject to change. Explanations, technical data and descriptions are not binding.
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