LED LIGHT SOURCE F3000

PHOTONIC
OPTICS

F3000: NEW FIBRE OPTIC MICROSCOPY LE

THE ADVANTAGES of fibre optic illumination can be found in the generation of maximum illumination density for small areas and the compact construction of the light guide. At magnifications greater than 40x in connection with very small object fields of only a few millimetres, Photonic fibre-optic spot lighting with integrated focussing lenses may provide sufficient brightness for examining dark-coloured, light-absorbing objects.

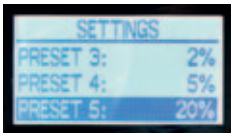
Comparison of intensity of Photonic fibre-optics with 80 LED ring light, at maximum brightness

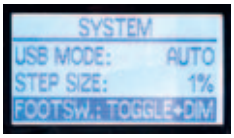
The new Photonic LED light source F3000 has been developed for routine and high end microscopy applications. It is compatible with all fibre optic light guides in the Photonic range and outperforms a 150W halogen light source in terms of luminosity.
The robust metal housing is designed for stable operation with gooseneck light guides and stacking stability.

ED LIGHT SOURCE

PRODUCT BENEFITS

- Brighter than a 150 W halogen light source
- Extended service life of approx. 30,000 h (70% of the output brightness), no lamp replacement required (no servicing costs, no storage costs for spare lamps)
- 70% energy savings
- Color temperature: 5,800 K (can be adjusted in direction of halogen light using filter)
- Electronic shutter function
- Continuously variable luminance control
- LCD display
- All settings (luminance, shutter/strobe parameters) easily configurable
- Robust, stable metallic housing
- Stable positioning with gooseneck arms light guides
- Vertical positioning possible, stackable
- Quiet fan
- The device can be controlled via USB and foot switch
- Automatic shutdown of LEDs when light guide removed
- Complete light guide range available (flexible and gooseneck light guides, focussable ringlights, backlights)
- Global use through wide-range power pack



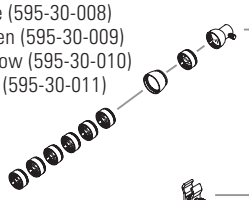


TECHNICAL DATA

LED F3000	*(10060, incl. power supply and USB cable)*
Lamps	Hi-Power LEDs
Luminance	approx. 640 lm for fibre Ø 8 x 1000 mm
Color temperature	approx. 5,800 K
Maximum fibre diameter	9 mm
Service life approx. L70	approx. 30,000 h (70% output luminance)
Cooling	axial fan
Supply	12V DC, 5420 mA
Power input	65 Watt
Ambient environment	10–40 °C, max. 80% relative humidity
Light guide connection	Ø 15 mm
Rear connections	USB for control via PC, 2.5 mm jack for foot switch, ESD socket, DC socket
Display	Graphics display for operating status and comprehensive menu functions
Approval (CE)	EMC Directive 2004/108/EEC
Dimensions (B x D x H)	approx. 170 x 196 x 98 mm without projecting parts
Weight	approx. 3.8 kg

THE COMPREHENSIVE SYSTEM

Filters:
Bracket (595-30-006)
Polariser (595-30-013)
Focussing lens 20 (595-30-007)
Colour filters:
Blue (595-30-008)
Green (595-30-009)
Yellow (595-30-010)
Red (595-30-011)

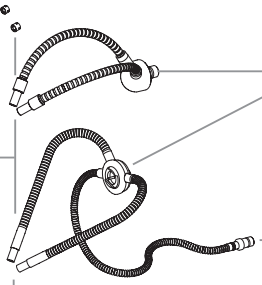


Articulated support arm:
Clamp mounting:
(595-30-005)
Articulated support arm 2 x M6
(595-30-029)
Base plate
(619-30-007)

Optical element*

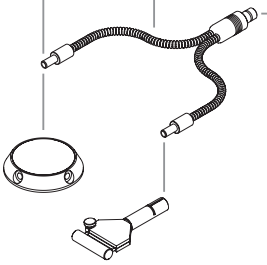
Gooseneck light guide 2-arm *(no. see list)*

Gooseneck combination light guide 2-arm *(no. see list)*



Flexible light guide 1-arm *(no. see list)*

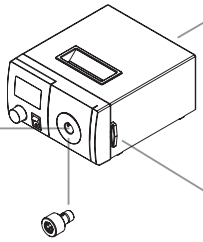
Flexible light guide 2-arm *(no. see list)*



Backlight
(595-30-075)

Line converter attachment
(595-20-140)

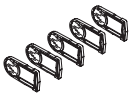
Mounting adapter for combination light guides 2-arm:
For C-PS and SZ2 stands
(619-20-048)
For round columns
Ø 35/32/30/25 mm
(619-20-049)



Foot switch
(633-30-013)

F3000
(10060)

Adapters for Schott light guides loss-free:
with clamping rose
(593-30-007)
with clamping screw
(598-30-037)

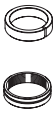


Slot-in filters:
Blue (593-30-001)
Green (593-30-002)
Yellow (593-30-003)
Red (593-30-004)
Grey (593-30-221)
Halogen 3,500 K (593-30-224)
Filter holder empty (593-37-006)

Accessories/Adapter for ring light Ø 66 mm:

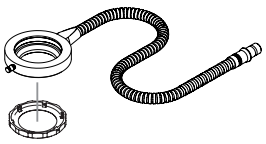
Polarizing filter set
(595-20-166)

Objective lens adapter for ring light Ø 66 mm:
66/58 (595-32-258)
66/60 (598-32-043)
66/62 (598-32-127)
M48 x 0.75 (598-32-049)
M55 x 0.75 (598-32-050)



Ring lights:
Ø 40 mm L = 1000 mm
(598-20-103)

RL standard
Ø 66 mm with focussing attachment*
L = 750 mm
(595-20-005)
L = 1000 mm
(595-20-006)
RL 6-point Ø 66 mm with focussing attachment
L = 750 mm
(595-20-001)



Adapter for dark field ring light
H = 40 mm
(595-30-083)

Dark field ring light
Ø 66 mm
L = 1000 mm
(595-20-143)

** Included in standard scope of delivery*

Gooseneck light guides:
2-arm active Ø 2 x 4.5 mm L = 550 mm (595-20-167)
2-arm ESD active Ø 2 x 4.5 mm L = 550 mm (595-20-168)
Flexible light guides:
1-arm active Ø 5 mm L = 1000 mm (595-20-030)
1-arm active Ø 8 mm L = 1000 mm (595-20-033)
2-arm active Ø 2 x 3 mm L = 1000 mm (595-20-055)
2-arm active Ø 2 x 5 mm L = 1000 mm (595-20-036)
2-arm active Ø 2 x 8 mm L = 1000 mm (595-20-039)
Combination light guides:
2-arm active Ø 2 x 4.5 mm L = 750 mm (595-20-169)

Subject to change without notice. 02/2013

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