



LED LIGHT SOURCE F3000

F3000: NEW FIBRE OPTIC MICROSCOP

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

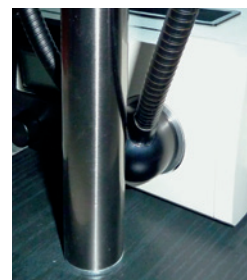
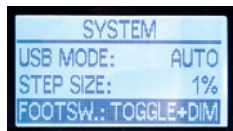
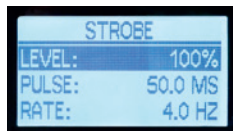
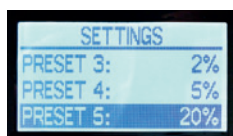
The new Photonic LED light source F3000 has been developed for routine and high end microscopy applications. It is compatible with all fibre optic light guides in the Photonic range and outperforms a 150W halogen light source in terms of luminosity. The robust metal housing is designed for stable operation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



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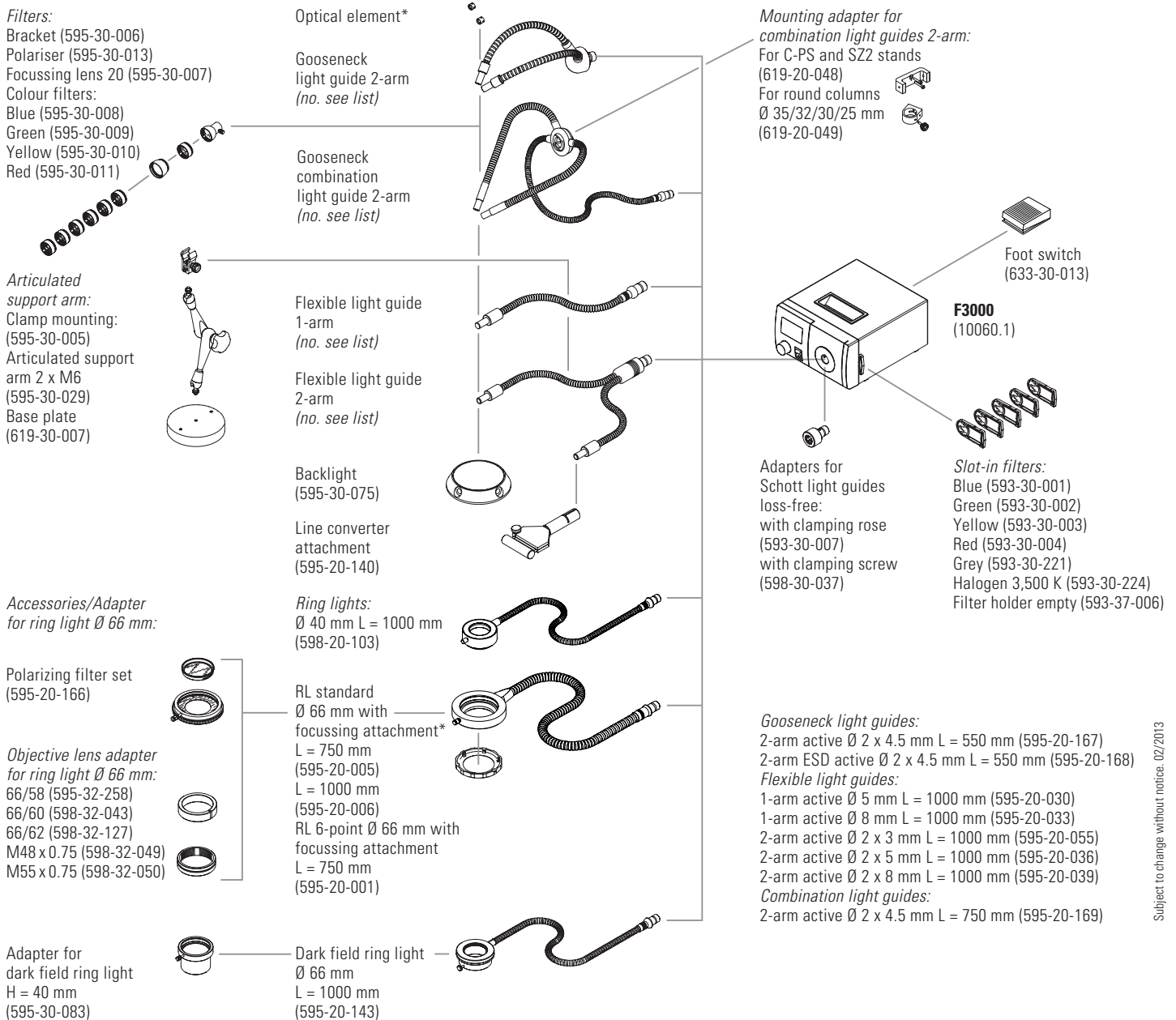
- ▶ Brighter than a 150 W halogen light source
- ▶ Extended service life of approx. 30,000 h (70% of the output brightness), no lamp replacement required (no servicing costs, no storage costs for spare lamps)
- ▶ 70% energy savings
- ▶ Color temperature: 5,800 K (can be adjusted in direction of halogen 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 (10060.1, incl. USB Cable, 100–240 V power supply, w/o power cord)	
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	12 V 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



* Included in standard scope of delivery

Subject to change without notice. 02/2013

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