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.

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.

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

- 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

<table>
<thead>
<tr>
<th>LED F3000</th>
<th>(10060.1, incl. USB Cable, 100–240 V power supply, w/o power cord)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lamps</td>
<td>Hi-Power LEDs</td>
</tr>
<tr>
<td>Luminance</td>
<td>approx. 640 lm for fibre Ø 8 x 1000 mm</td>
</tr>
<tr>
<td>Color temperature</td>
<td>approx. 5,800 K</td>
</tr>
<tr>
<td>Maximum fibre diameter</td>
<td>9 mm</td>
</tr>
<tr>
<td>Service life</td>
<td>approx. L70 approx. 30,000 h (70% output luminance)</td>
</tr>
<tr>
<td>Cooling</td>
<td>axial fan</td>
</tr>
<tr>
<td>Supply</td>
<td>12 V DC, 5420 mA</td>
</tr>
<tr>
<td>Power input</td>
<td>65 Watt</td>
</tr>
<tr>
<td>Ambient environment</td>
<td>10–40 °C, max. 80% relative humidity</td>
</tr>
<tr>
<td>Light guide connection</td>
<td>Ø 15 mm</td>
</tr>
<tr>
<td>Rear connections</td>
<td>USB for control via PC, 2.5 mm jack for foot switch, ESD socket, DC socket</td>
</tr>
<tr>
<td>Display</td>
<td>Graphics display for operating status and comprehensive menu functions</td>
</tr>
<tr>
<td>Dimensions (B x Ø x H)</td>
<td>approx. 170 x 196 x 98 mm without projecting parts</td>
</tr>
<tr>
<td>Weight</td>
<td>approx. 3.8 kg</td>
</tr>
</tbody>
</table>
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)

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

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

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)

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

RL standard Ø 66 mm with focussing attachment* L = 550 mm (595-20-167)

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)

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)

Subject to change without notice. 02/2013

* Included in standard scope of delivery