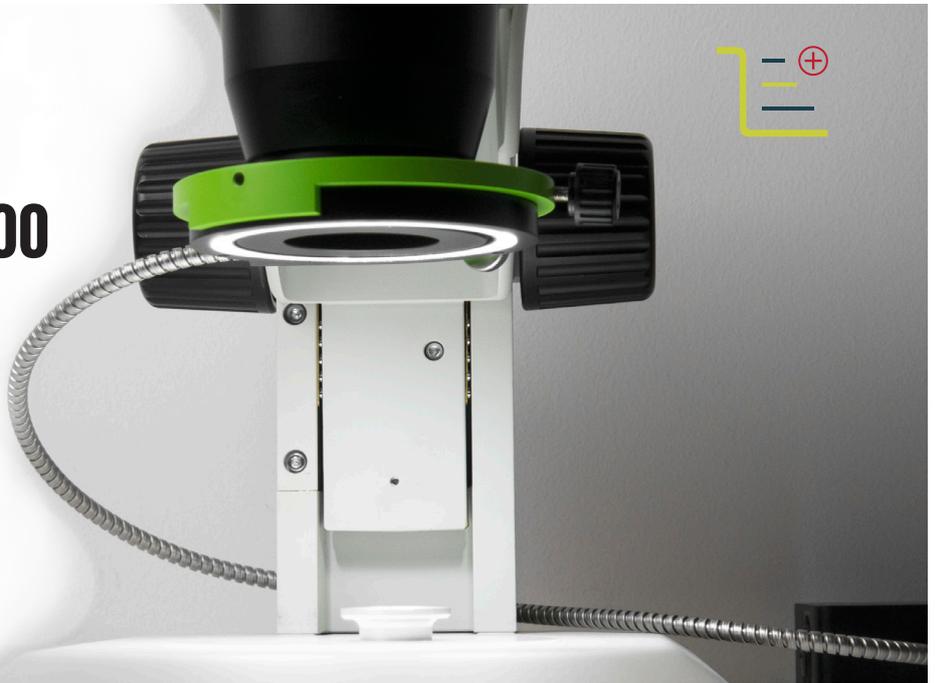


MICROSCOPY BRIGHTFIELD BF-5400 MICROSCOPY LIGHTING



Brightfield : high angle illumination for surface and relief inspection



ADVANTAGES

- Efficient observation, even at low light intensity
- Limited eye fatigue
- Adaptability to different objectives of microscopes
- Stable light quality over time
- Possibility to combine this system with a darkfield (DF-5400)

The BF-5400 lighting system is dedicated to the microscopy. Thanks to an adapter ring, it can be interfaced to the objective of any microscope.

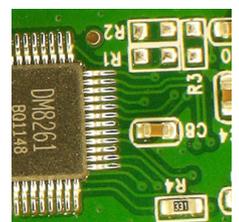
BF stands for brightfield: in this configuration, an intense light directly strikes the sample at high angles, from a plane located above the sample, resulting in crisp, well defined images. 5400 stands for the colour temperature of the lighting solution.

L.E.S.S. light combines high uniformity and high directionality in a unique way. These properties allow for an unprecedented inspection comfort offering high contrast images, reduced stray light reflections and therefore a lower eye fatigue. No heat is dissipated from the light source which enhances the comfort of the user.

L.E.S.S. lighting systems exhibit the same optical properties (colour temperature, uniformity, directionality), regardless of the product line it belongs to (microscopy, machine vision or workbench lighting). The light quality remains constant throughout the system longevity. This consistency gives a stable benchmark at two different levels: over time as well as on the whole assembly line. This allows overall standardisation and time-saving operations.



SAMPLES UNDER A MICROSCOPE



L.E.S.S. SA

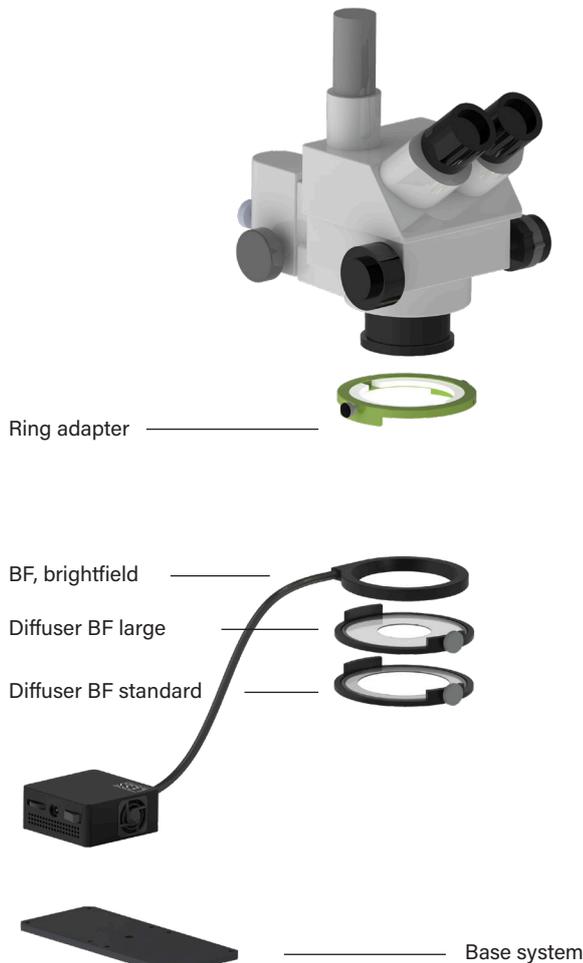
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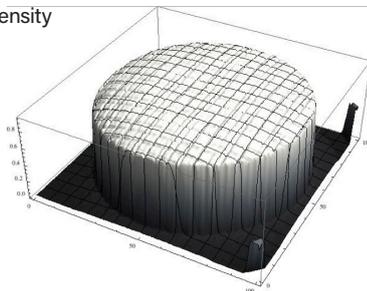
MICROSCOPY BRIGHTFIELD BF-5400 MICROSCOPY LIGHTING

Brightfield : high angle illumination for surface and relief inspection

TECHNICAL DATA



Ultra uniform light intensity profile



Reference	BF-5400
Product line	Microscopy lighting
Colour temperature	5400 K
Working distance	50 - 150 mm
Inner diameter	66 mm (2.6 inches)
External dimension	89.5 x 9 mm
Interface adapter	58 à 80 mm (2,3 à 3,1 inches)
Cable	Flexible - 500 mm
Lifetime	> 20 000 hours ¹
Electronic control unit	Built-in
Dimension of the control unit	70 x 70 x 31 mm
Power control	On/Off switch
Light intensity control	0 - 100%
Operating temperature	0 - 40 °C
Diffuser/s	Yes, as accessory
External power supply	DC 12 V
Dimension ext. power supply	174 x 78 x 21.5 mm

¹Lifetime is defined for the lighting values in a normal use. Results may vary with environmental factors and customer specific use.

ACCESSORIES

- Ring adapter: available with several inner rings, it makes the illumination systems compatible with microscope objectives from 50 to 80 mm.
- Diffusers BF standard and large: Deliver smoother images when observing reflective components under high angle illumination. It can be attached and removed quickly.
- Base system: allows to fix the illumination control systems in a compact manner either directly on the microscope or on its side.

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