

VisiDark

MICROSCOPY LIGHTING

VisiDark ONE 5400°K | VisiDark PLUS 6500°K

Darkfield ringlight for low angle illumination for edge and print inspection.

To learn more about this product, visit our website:
www.less-sa.com



ADVANTAGES

- Efficient observation, with naked eye or under a microscope
- Limited eye fatigue
- 2 in 1 system: from darkfield to low angle illumination
- Stable light quality over time
- Possibility to combine this system with a brightfield (VisiBright)



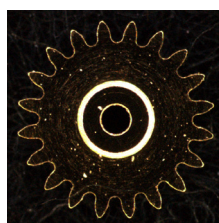
Dedicated to the inspection of surfaces and contours, the VisiDark range of lights offers an exceptional speed of detection thanks to the great directionality of its light. The inspection of samples can be done with the naked eye, or under a microscope for a more detailed inspection. The working distance is adjustable from a dark field to a grazing light configuration.

VisiDark is the revolution in darkfield illumination: this configuration directionally offers powerful and precise light to the study sample. More than ever, grazing light provides high contrast images, accentuating sample edges and surface details. The ability to vary the intensity reveals all key visual information of the sample, regardless of the material, transparent or opaque, reflective or matte, and inspection for deposits or impurities is optimal. In addition, the absence of heat generated by the ringlight does not affect neither the observation nor the sample.

The uniformity and directionality of L.E.S.S. light are unique. These properties offer unprecedented inspection comfort by accentuating contrasts, reducing stray light reflections, and, consequently, reducing eye fatigue. To meet the standards of the most demanding markets, the VisiDark range is available in two temperatures with VisiDark ONE at 5400°K and VisiDark PLUS at 6500°K, both offering exceptional color rendering index (CRI > 90).

The L.E.S.S. lighting systems (for microscopy, machine vision, and bench lighting) have identical optical characteristics (color temperature, uniformity, and directionality). The quality of light of the lighting systems remains constant over their lifetime. This consistency, both over time and throughout the production line, allows for standardization and considerable operational time savings in all phases of inspection.

SAMPLES UNDER A MICROSCOPE



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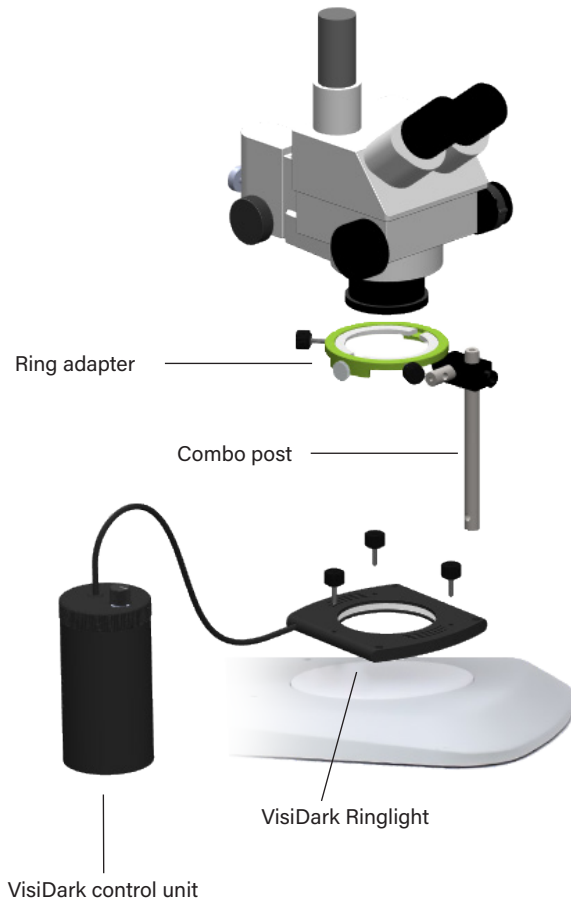


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TECHNICAL DATA



Ultra directional light
intensity profile



Name	VisiDark ONE VisiDark PLUS
Reference	VDO-MI VDP-MI
Color temperature	5400°K 6500°K
Product line	Microscopy lighting
CRI	> 90
Typical working distance	0 - 15 mm
Inner diameter	78 mm (3.1 inches)
Interface adapter	78 mm (3.1 inches)
Cable	Flexible - 500 mm
Lifetime	> 20 000 hours*
Electronic control unit	Built-in
Dimension of the control unit	Ø72 x 149.5 mm
Power control	On/Off switch
Light intensity control	0 - 100%
Operating temperature	0 - 40 °C
External power supply	DC 12V
Dimension ext. power supply	174 x 78 x 21.5 mm

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

ACCESSORY

■ Combo post: fixed to the ring adapter, it allows to interface the system on the objectives of microscopes from a size of 50 to 80 mm and to adjust the light ring elevation to precisely observe samples at different heights ranging from 0 to 50 mm.

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EN 62471: 2006

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