

LH-LED 100

This LED cold-light source for medical and industrial applications is strictly adapted for Köhler's illumination input of classical as well as modern microscopes. Due to the neutral white light and high illumination intensity, it is a modern alternative in many applications to conventional lamp housings designed for halogen lamps. Due to the very good homogeneity of the light field, there is no need for diffusing screens in the light path of the microscope. The light output can be adjusted via an easily accessible button on the side of the lamp housing, a remote control panel or via standard interfaces (like USB, CAN bus) for easy integration into computer-controlled systems. In contrast to halogen light sources, the colour temperature does not change when dimming.



The high service life and efficiency of the LED and the control electronics integrated in the lamp housing, as well as the fanless temperature management, guarantee operating cost savings of up to 80%.

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Lighting

HBO/XBO

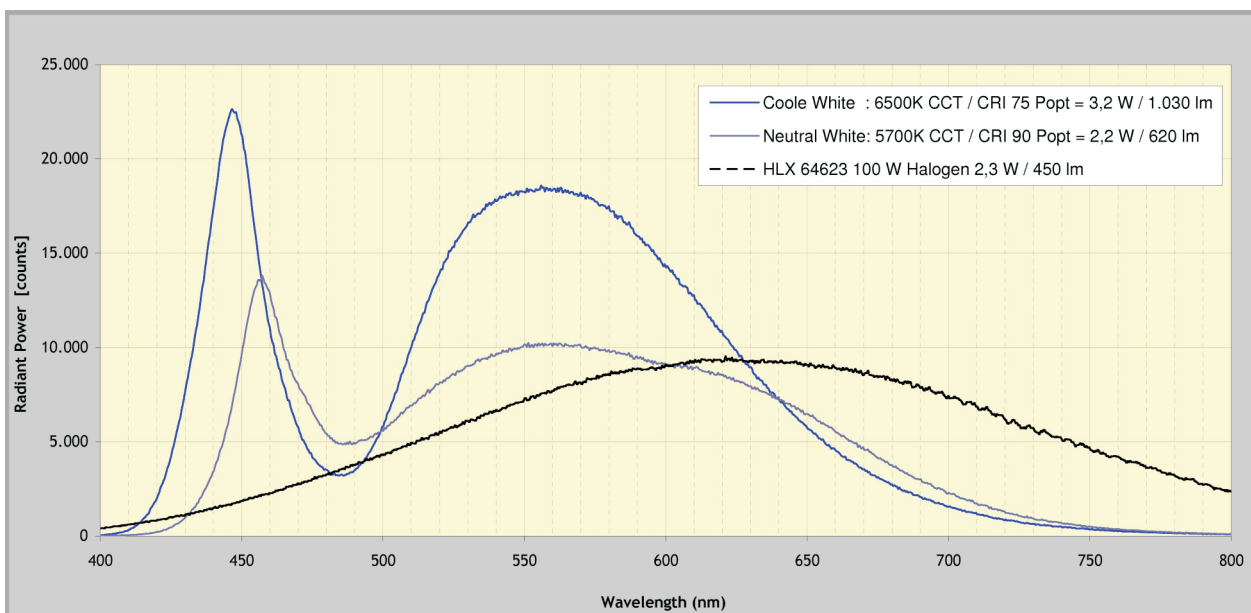
Light sources

Flashlights

UV-Equipment

Other

White Spectra LH-LED 100 compared to 100 W halogen



Features

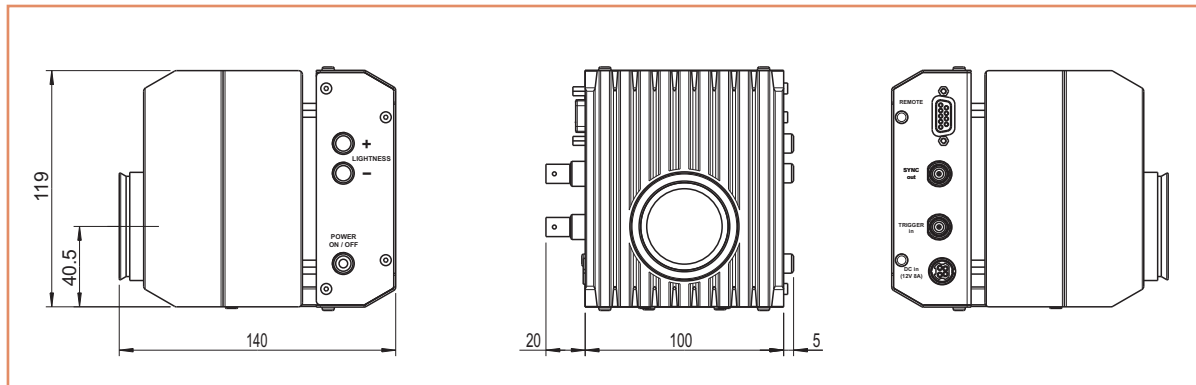
- White LED, colour temperature 5.700 und 6.500 K (Monochrome and UV-models on request)
- up to 80% lower operating costs than comparable cold-light sources
- maintenance-free operation for more than 50,000 h
- fanless, no vibrations
- low load from thermal radiation on object to be illuminated
- 0.2% up to 30% PWM, 30% up to 100% analog dimmable
- external trigger up to 26 kHz; sync.-output
- CE, RoHS and NRTL compliant

Equipment

- trigger input
- synchronous output
- changeable microscope adapter
- interfaces for:
 - remote controller
 - optional USB- or CAN-bus-interface
 - optional analogue control voltage
- external wide range power supply

Subject to alterations with regard to technological progress

Technical data LH-LED 100 / device equipment



Lighting

Electrical connection	
Mains voltage	12 VDC \pm 5 %, external power supply 100 up to 240 VAC, 50 up to 60 Hz

HBO/XBO

Power input	max. 50 VA
Protection class	IP 20 (EN 60529)

Light sources

Dimensions	
H x W x D	120 x 125 x 140 mm

Flashlights

Weight	ca. 2 kg
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UV-Equipment

Equipment	
Trigger (Shutter)	max. frequency 26 kHz, switching time approx. 40 μ s control via TTL switching input
Sync-Out	TTL switching output max. 26 kHz

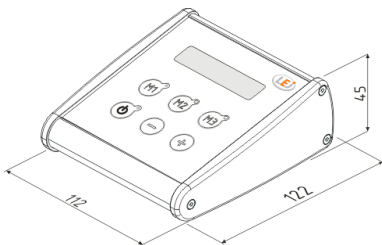
Other

Dimming	electronic, 200 steps 0,2 ... 100% 0,2 - 30 % PWM 30 - 100 % analog
Safety	over-temperature protection

Configurations	
-Z, -L, -N, -O	microscope adapter Zeiss, Leica, Nikon, Olympus

Accessories LH-LED 100

- control desks (remote controller)



- USB-Adapter
- microscope adapter
 - Zeiss
 - Leica
 - Nikon
 - Olympus
 - others on request

Order	
Scope of delivery	device with wide range power supply, mains cable, microscope adapter and manual
Order example	LH-LED 100-Z
customer-specific configuration options, please do not hesitate to contact us.	

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