more than light®

PRODUCT DATA SHEET

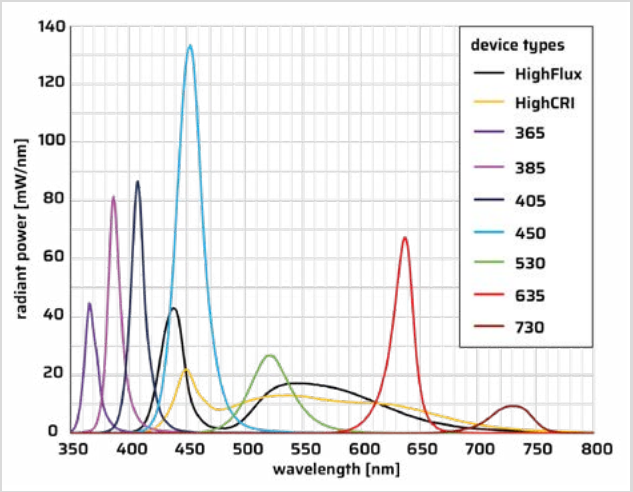
HIGHLY COMPACT LED LIGHT SOURCE – FROM UV-A TO VIS

luxyr® LED PICO

Ready to use, for a wide range of microscopy and illumination applications

Scan me!

Front view luxyr LED PICO



Spectra of available LEDs (more on request)

The luxyr LED PICO combines maximum versatility with excellent optical performance, making it ideal for a wide range of microscopy and illumination applications.

Thanks to a variety of individually customizable adapters, it can be easily connected to all common microscopes and optical setups. It is conveniently operated via PC software or a control panel, and pulse- or level-controlled operation is also possible. This allows even complex lighting tasks and demanding time series experiments to be reliably carried out.

PRODUCT HIGHLIGHTS

- Homogeneous illumination
- High luminous flux (CW up to 800 lm)
- Gamma corrected brightness control
- Pulsing with TTL trigger up to 100 kHz possible
- Silent and vibration-free operation
- Compact design & low weight
- Different LED versions available

AREAS OF APPLICATION

- Fluorescence microscopy
- Brightfield & darkfield microscopy
- Image processing & optical inspection
- Semiconductor manufacturing
- Forensics

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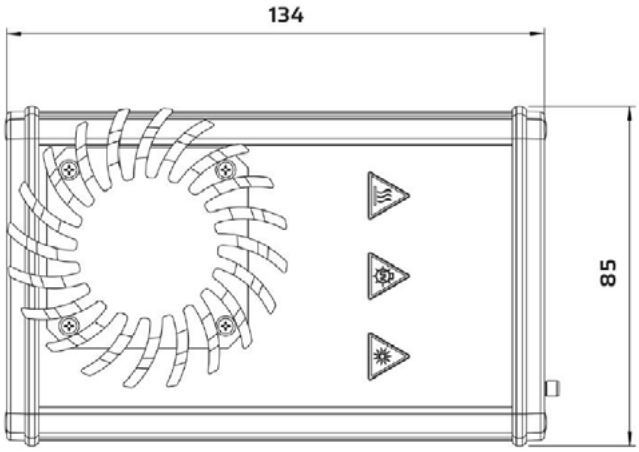
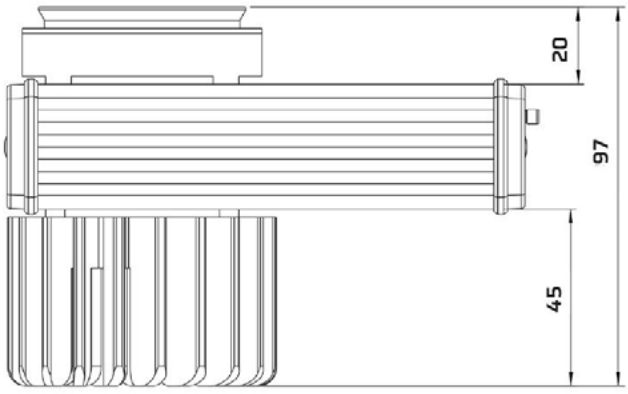
CW-Mode		
Description	Continuous operation with adjustable luminous flux	
Parameters	Light ripple	<0.5%
Follow-Mode		
Description	Level-controlled operation (TTL) with preconfigured luminous flux	
Parameters	Rise time (t_{10-90})	< 2 µs
	Fall time (t_{90-10})	< 2 µs
	Signal runtime	< 1 µs
Pulse-Mode		
Description	Edge-controlled pulses (delay, length and luminous flux pre-configurable)	
Parameter	Rise time (t_{10-90})	< 2 µs
	Fall time (t_{90-10})	< 2 µs
	Min. pulse length ($t_{Pulse\ min}$)	10 µs
	Min. delay	< 5 µs
Interfaces		
Control	Mini-DIN for control via control panel	
Config	USB 2.0 (type B micro) for configuration, operation & status messages	
TTL	SMB socket for follow mode & pulse mode	
DC_{in}	Hollow plug for supply via power supply unit (included in delivery)	
Optical output	Collimation optics with microscope adapter (for Zeiss, Leica, Nikon, Olympus, customized)	
Specification		
Mains voltage for power supply unit	100 to 240 VAC ± 10 %, 50 to 60 Hz	
Power consumption	max. 36 VA	
Dimensions light source	134 mm x 85 mm x 97 mm (l/h/w)	
Weight	0.8 kg	
Others		
Scope of delivery	Light source, control panel, power supply, microscope adapter of choice, operating instructions	
Accessories	Configuration software	

Devices-types	CRI /Peak-Wavelength	Integral luminous flux
-HighFlux	White CRI70	> 2.500 mW (800 lm)
-HighCRI	White CRI90	> 2.500 mW (700 lm)
-365	365 nm ± 5 nm	> 1.200 mW
-385	385 nm ± 5 nm	> 1.700 mW
-405	405 nm ± 5 nm	> 1.700 mW
-450	455 nm ± 10 nm	> 4.000 mW
-530	530 nm ± 10 nm	> 1.000 mW
-635	632 nm ± 7 nm	> 1.000 mW
-735	730 nm ± 15 nm	> 500 mW



View from above luxyr LED PICO | Dimensions in mm



View from the side luxyr LED PICO | Dimensions in mm

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