

Xenon DC Compact Light Source with wider Spectral Range 100 Watt

LQ-XEAR 100DC

The focus in the new development was on expanding the useful spectral range to greater wavelengths, from 650 nm typical of reflector lamps, to 840 nm, by the use of special light guides up to 950 nm.

This offers advantages for new microscopic measuring methods, e.g., for nano-size particles whose optical resonant frequencies are above 600 nm, or the spectroscopic analysis of forensic samples without exposure to heat.

Unlike AC-powered short-arc lamps, the internal DC supply distinctly reduces the time-based fluctuations of the luminous flux and improves the long-term stability. This makes the new light source ideal for quantitative fluorescence microscopy, confocal measuring methods, camera and other time-critical applications.



Beleuchtung

HBO/XBO

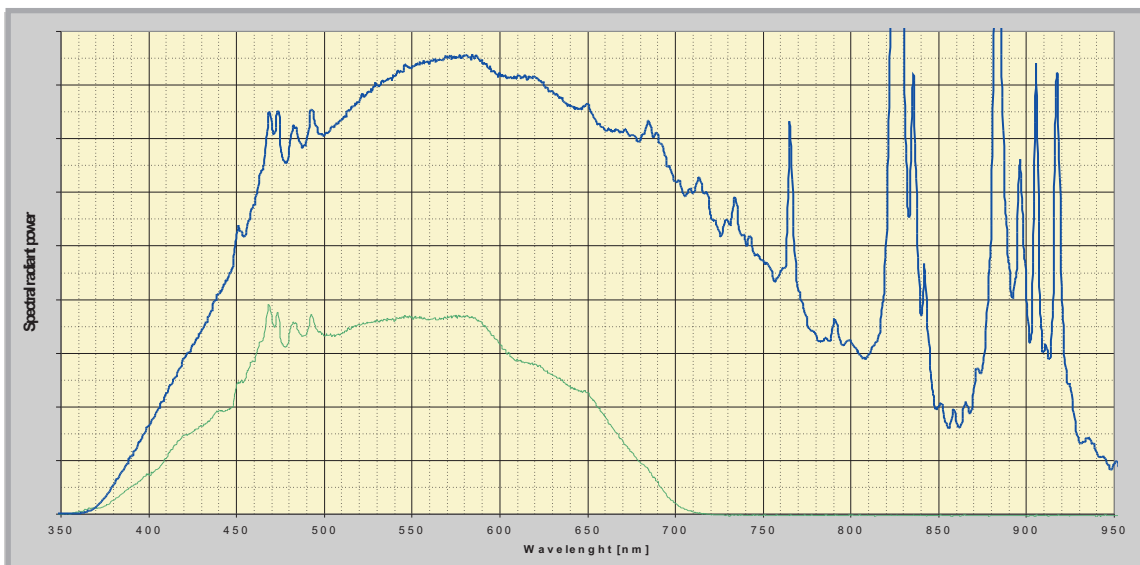
Lichtquellen

Blitzgeräte

UV-Technik

Sonstige

Spectrum LQ-XEAR 100DC in comparison to Standard Xenon Light Source



Features

- Light output (300 - 800 nm) typically 500 lumen (3-mm active light guide diameter)
- Average 1,000 h lamp life
- Easy-to-replace lamps, no adjustment
- Fast motor-driven shutter
- Dimming in 5 stages
- Low load from thermal radiation on object to be illuminated
- Automatic glare protection with drawn light guide

Applications

- Scanning-Microscopy
- Image processing
- Semiconductor production
- Material inspection
- Endoscopy
- Forensics
- Colorimetry

Technical data LQ-XEAR 100DC Components

- RoHS - compliant
- CE - compliant
- NRTL - approval



LQ-XEAR 100DC with accessories

Beleuchtung	Electric connection	
	Mains voltage	100 up to 240 VAC \pm 10 %, 50 up to 60 Hz
HBO/XBO	Power input	max. 175 VA
	Protection class	IP 20 (EN 60529)
Lichtquellen	Dimensions Desktop device	
	H x W x D	210 * 138 * 290 mm
	Weight	5,2 kg
Blitzgeräte	Equipment	
	Shutter	Frequency max. 40 Hz, switching time approx. 6 ms triggering via external switch, USB or CAN-Bus connection
UV-Technik	Dimmung	Mechanical, in 5 stages 0 ... 100%
	Operating hour meter	Display lamp life, resettable
Sonstige	Safety	Glare protection, over-temperature protection, safety circuit
	Configurations	
	-3	Storz long light guide mount, active diameter 3 mm
	-5	Storz long light guide mount, active diameter 5 mm
	-X	light guide mount Multipole LUMATEC D

Accessories
Accessories such as replacement bulbs, fiber-optic cables and adapters can be found in the separate data sheet:
compact light source - accessories

Order	
Scope of delivery	device with lamp, mains cable and manual (optional accessories)
Order example	LQ-XEAR 100DC-3
Since the basic device types and accessories permit numerous customer-specific configuration options, please do not hesitate to contact us.	

Subject to alterations with regard to technological progress (05-2014).