

Multichannel LED Fiber Light Source



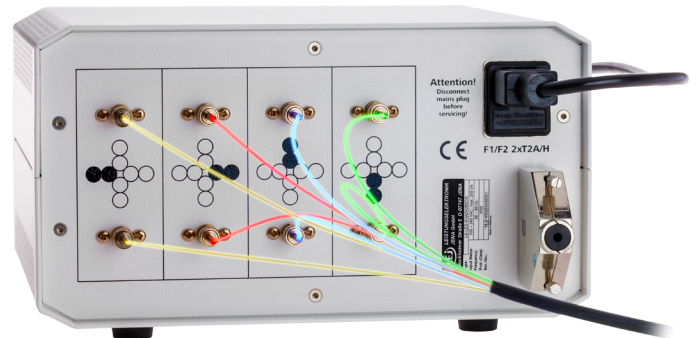
MORE THAN LIGHT

LQ-LED-8-Channel

This 8-channel fiber light source adds another highlight to the LEJ portfolio of high-power LED lamps for scientific and technological applications.

Users can pick up to eight different LEDs from a large number of suitable LEDs* to adapt the light spectrum exactly to the requirements of their application. The LEDs can be controlled individually or in groups and the brightness of each channel programmed separately via the high-speed interface (500 kHz switching frequency).

By coupling the LEDs in single fibers, the light source is ideal for structured illumination, in image processing and microscopy applications. For example, the fiber bundle can be arranged crosswise, in a circle or as a square in the customer's system. This provides optimal support to the requirements of special imaging processes, particularly KERR microscopy.



Lighting

HBO/XBO

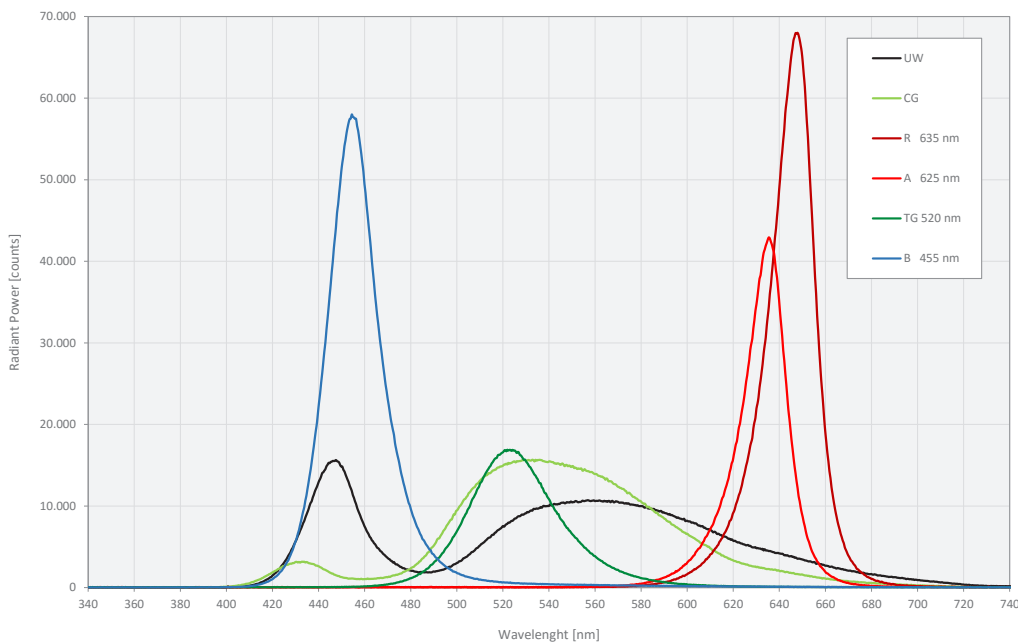
Light source

Flashlights

UV-Equip

Others

Each channel can be equipped with different LEDs



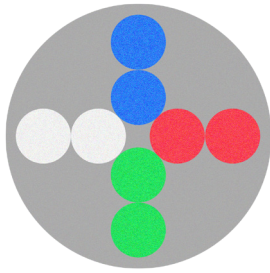
Features

- provides professional and quality LED light via 8 LEDs
- customize the light exactly according to the application requirements
- provides specific properties in various imaging applications

Applications

- Microscopy (especially KERR)
- Image processing
- Semiconductor production
- Material inspection
- Colorimetry

* The number of available LEDs is growing constantly



Technical data LQ-LED-8-Channel

Each of the 8 channels can be equipped with:

Luminous flux and radiation flux measured at the output of a POF with 1 mm active diameter

LED-Type	Wavelength [nm]	Luminous flux [lm]	Radiant power [mW]
IR - Infrared	For suitable fibers on request		
UW - Ultra White		40	300
R - Red	632 ± 9	20	120
A - Amber	624 ± 9	25	80
CG - Converted Green	520 ± 50	50	110
TG - True Green	520 ± 16	30	65
B - Blue	455 ± 13	7	170
UV - Ultra Violet	For suitable fibers on request		

Lighting

HBO/XBO

Light source

Flashlights

UV-Equip

Others

Electrical connection	
Mains voltage	85 up to 265 VAC ± 10 %, 43 up to 63 Hz
Power input	max. 200 VA
Protection class	IP 20 (EN 60529)
Conformity Approvals	
	CE, RoHS
	NRTL, UI/CSA (on request)
Dimensions	
Desktop device	
H x W x D	250 x 220 x 340 mm ³
Weight	5,0 kg
Equipment	
Trigger	electronic, independent trigger for each channel, max. Frequency 500 kHz, min. flash time >1µs, trigger delay >1µs. Triggering via TTL or SPI.
Intensity control	via SPI interface, in 180 increments per channel
Safety	over-temperature protection, self-monitoring

Accessories and Connectors

1. LH-POF
2. Accessories such as fiber-optic cables

Order

Scope of delivery	device with mains cable and manual (optional accessories)
Order example	LQ-LED-4R4B

Since the basic device types and accessories permit numerous customer-specific configuration options, please do not hesitate to contact us.

Subject to errors and alterations regard to technological progress. (01-2017)