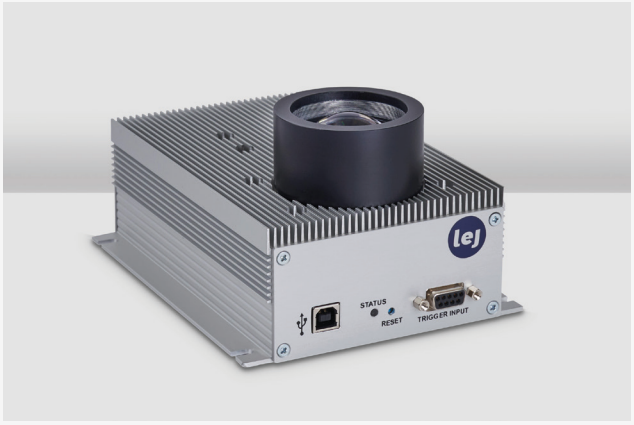
more than light®

PRELIMINARY
PRODUCT DATA SHEET

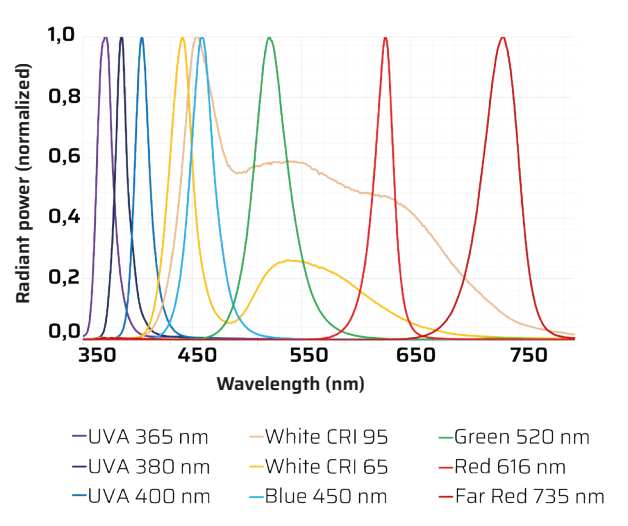
1 channel high power LED flash box

luxyr® LED FLASH

Very high flash power up to 65 W optical



Front view luxyr LED Flash (1 channel)



Spectra of available LEDs (more on request)

The new luxyr LED FLASH flashbox has been optimized for applications that require a very fast, constant flash with high light output.

The flashbox has a significantly longer service life than conventional flash lamps (Xenon). It is therefore ideally suited for integration into a system, as regular lamp replacement is not necessary. It therefore contributes to an increase in the efficiency of the installation.

PRODUCT HIGHLIGHTS

- Very high optical light output up to 65 W
- Significantly longer lifetime than conventional flash lamps (Xenon)
- Pulsable up to 100 kHz with highest pulse stability
- Variable optical output:
  - 3 mm light guide
  - 5 mm light guide
  - Free beam
  - Point light source
- Low overshoot (square pulses)

APPLICATION AREAS

- Camera-based inspection
- Industrial image processing
- High-speed LED illumination

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luxyr® LED FLASH

PRELIMINARY | Technical data

Input parameters			
Supply voltage	12 V_{DC}		
Trigger input	Low: 0 to 0.8 V / high: 2.4 to 5 V		
Output parameters			
Maximum pulse frequency	100 kHz		
Rise time t_{10-90}	3 µs		
Fall time t_{90-10}	1 µs		
Security			
Monitoring	LED current, housing temperature, internal temperatures, parameter monitoring (pulse length/current)		
Interfaces			
Optical output variants	Free beam (solid angle 120°) Light guide (3 mm & 5 mm Storz long) Collimated, microscope adapter (for Zeiss, Leica, Nikon, Olympus, customized) also other customized flanges on request		
Execution			
Weight	Approx. 1 kg		
Dimensions	Approx. 130 x 160x 90 mm (W x L x H)		
Interfaces	Ethernet or USB		
Ambient temperature	0 to 40 °C		
Mounting	Mounting holes, clip for DIN rails, by means of optical output		
Optical performance parameters*			
LED type	**3 mm light guide**	**5 mm light guide**	**Free beam**
White (CRI95)	3.3 W	8.4 W	21.9 W
White (CRI65)	9.6 W	19.8 W	41.7 W
UVA-365nm	3.3 W	7.8 W	13.2 W
UVA-380nm	6.6 W	16.2 W	35.4 W
UVA-400nm	7.8 W	12.9 W	65.7 W
Blue-450	8.4 W	12.6 W	42.9 W
Green-520	4.2 W	9.9 W	23.1 W
Red-616	2.7 W	5.1 W	16.8 W
Far-Red-735	1.8 W	4.5 W	17.4 W

* corresponds to peak power