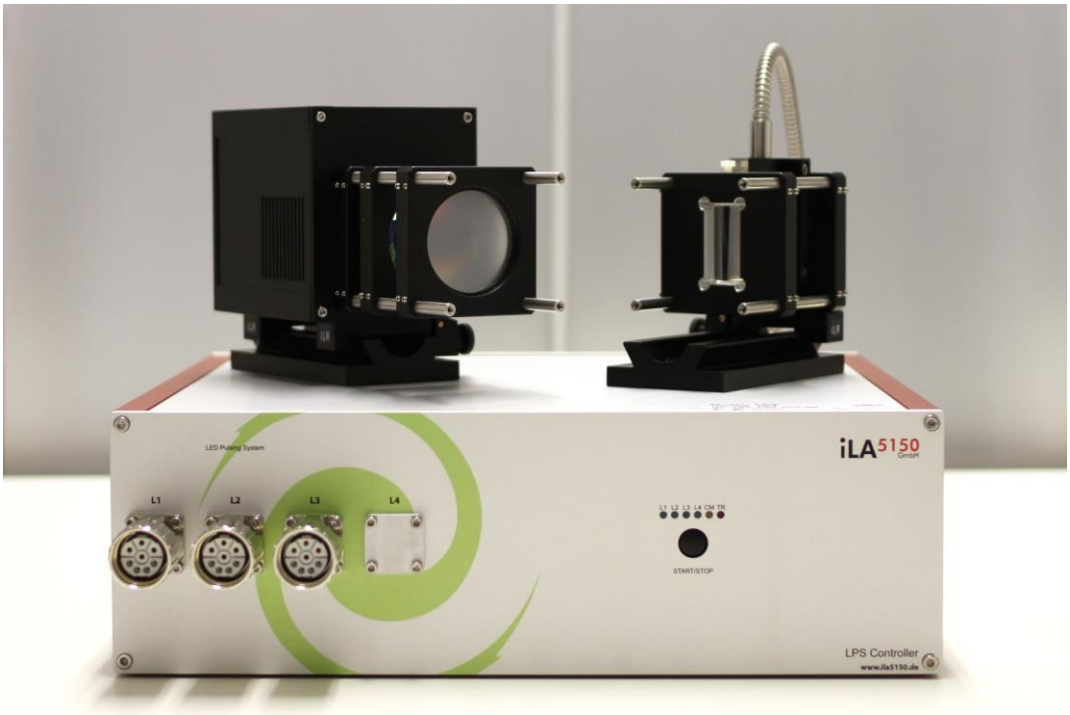
LED Pulsing System (LPS)



The ILA_5150 LPS System is a highly versatile light source:
With its fine tuned characteristics, the system is one of the brightest LED illumination sources available on the market. Whether you need continuous light (cw) or pulsed light up to a couple of kHz, you can configure your timing freely through the intuitive interface.

LEDs can be exchanged easily and the actual color is coded by a simple switch. The LED-Heads support various optical arrangements on standard mountings. Even fiber coupled light sheet optics are available.

Typical applications are PIV, µPIV, BOS, Shadowgraphy, or PSP

Among the scientific use, it is also ideally suitable for teaching purposes, especially in water. Since there are no laser safety issues the principle and functionalities of a PIV system can easily be trained and tested.

Contact us for details like available wavelengths, integration or different areas of applications.

Data Sheet

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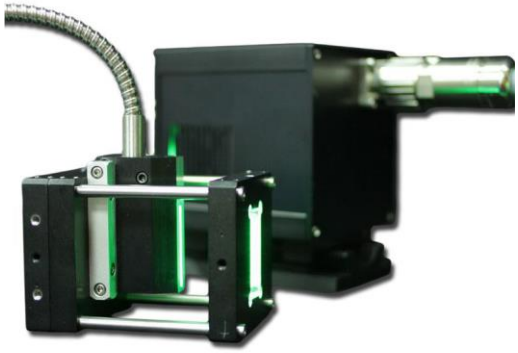
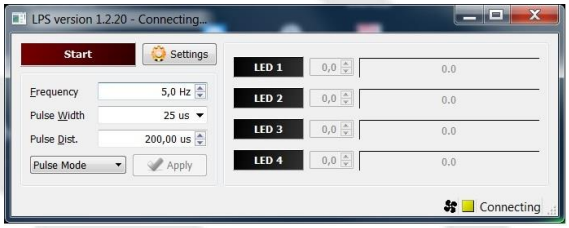
LED Pulsing System (LPS)

LED-Head specifications

pulses:	0...300A
CW flux:	up to 25 W
colors:	green, blue, red, white, UV
length:	120mm (without optics)
width:	90mm
height:	116mm
weight:	2,1kg (with short optical bench)
optics:	light sheet, volume, microscope





Controller specifications

resolution:	5 ns
jitter:	ultra low
trigger Input:	TTL
repetition rates:	0,047 Hz...16000Hz
trigger inputs:	3 at 0,047Hz...2MHz
trigger logic:	AND, OR, INVERT
trigger delay:	time and angle delay
trigger window:	user definable
special:	incremental encoder mode double pulse mode (PIV) CW-mode capable asynchronous trigger
PC connection:	100 Mbit Ethernet
configuration:	via ILA-Software
channels:	up to four LED-Heads
supply:	110...230 Vac, 25....50Hz
length:	330mm
width:	370mm
height:	116mm
weight:	6 kg

low- and high-speed applications
synchronizes to any camera with status signals

Data Sheet

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