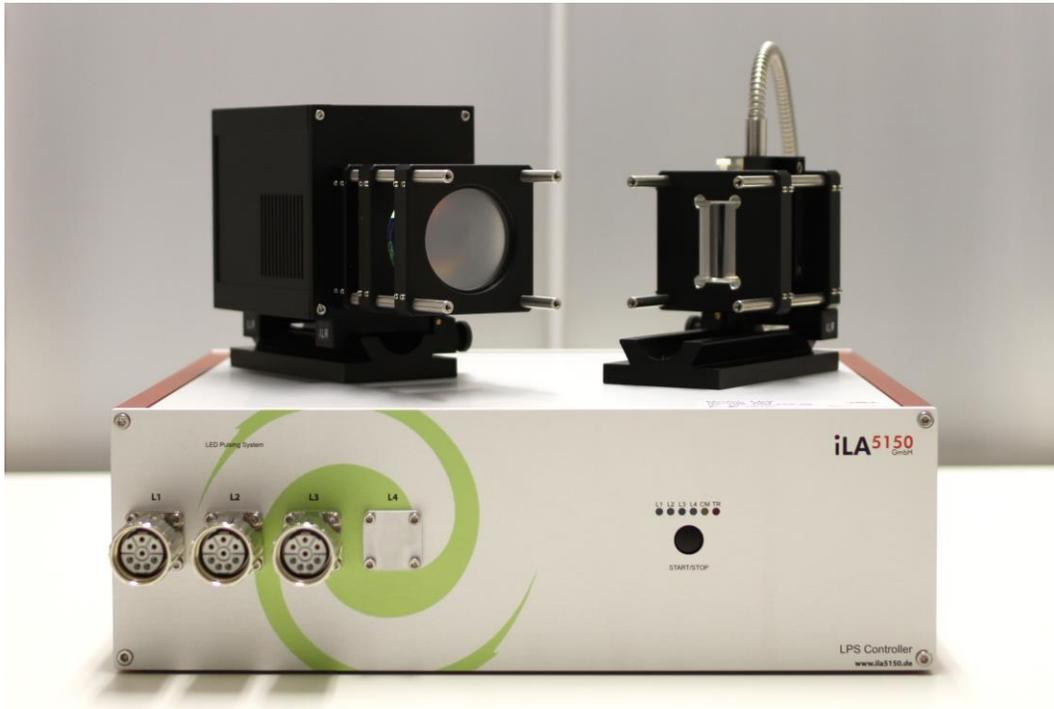


LED Pulsing System (LPS)



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, μ PIV, 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

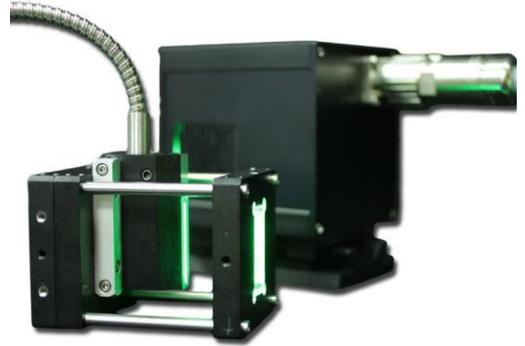
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LED Pulsing System (LPS)

LED-Head specifications

pulses: 0...250A
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
synchronized to any camera with status signals