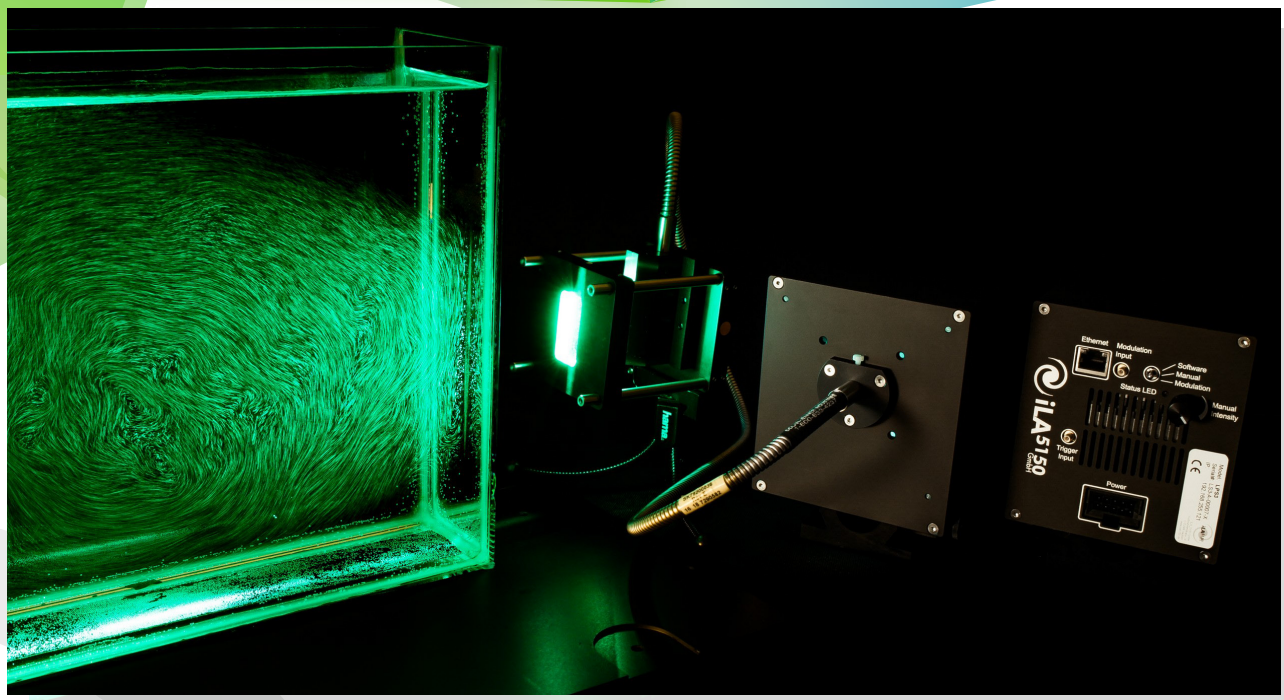
iLA.LPS v3



iLA_5150's LPS 3 is the latest successor of our beloved high power LED source. Unmatched flexibility is achieved through simplicity. Using a single TTL input, the light source follows any given sequence from CW up to 500 kHz. This makes it the ideal solution for highly accurate pulses required for PIV, μPIV, PSP, BOS, Shadowgraphy, FLIM, etc. This safe high power light source is also the perfect fit for educational purposes.

- light in CW-mode or pulsed up to 500kHz
- pulses down to 1μs with superior power stability
- short rise and fall times (<500ns)
- accepts any TTL trigger in any sequence (i.e. for PSP)
- user-exchangeable LEDs (white, green, red, blue, UV...)
- small form factor for easy integration in any setup
- easy connectivity via ethernet
- Compatible to fiber optics and cage systems
- no laser safety issues
- can be used without computer

Data Sheet
Sept. 2024

ILA_5150 GmbH
Rotter Bruch 26a
52068 Aachen - Germany
Fon +49(0)241 95789-814
info@ila5150.de, www.ila5150.de

iLA.LPS v3

- Trigger Input:
  - Digital TTL Input
  - 0 V = LED off
  - +5V = LED on
- Modulation Input:
  - Analog Signal
  - 0 V = 0 Power
  - 5 V = max. Power
  - Linear Scaling
- Power Supply:
  - 300 W @ 230V
  - Light output:
  - 7 W Radiometric flux in Constant Wave (CW) Mode
  - 7mJ /pulse @ 1kHz; 50/50 Duty cycle
  - Available Colors in white, UV, blue, green, red, far red.
- Operating Temperature:
  - -20°C to 90° C

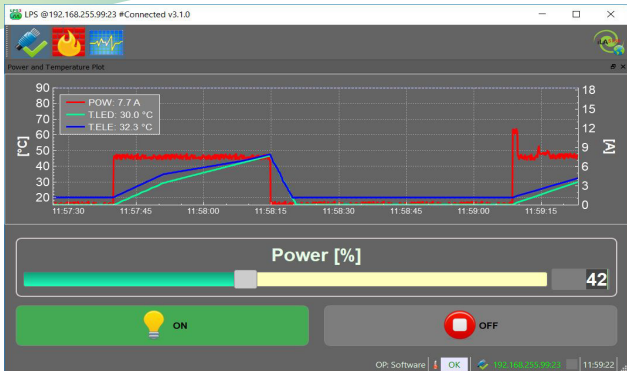


Figure 2: Clean and easy-to-use interface

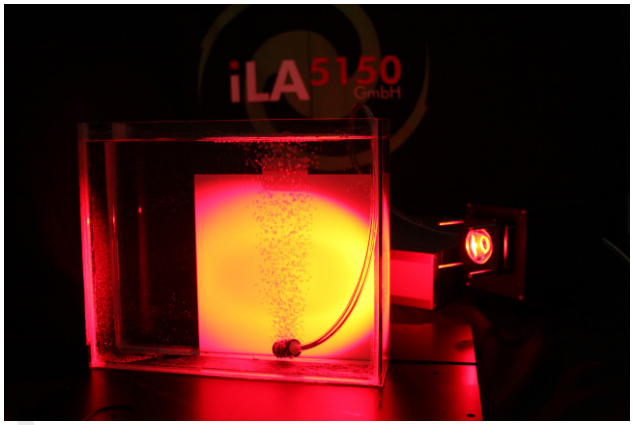
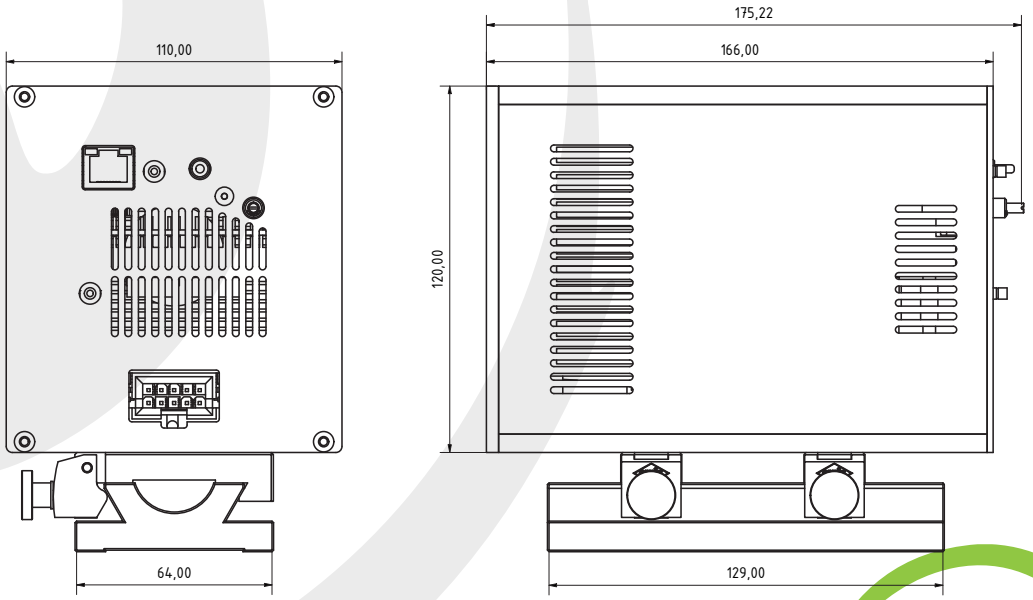


Figure 3: Shadowgraphy Setup @500Hz



Data Sheet
Sept. 2024

ILA_5150 GmbH
Rotter Bruch 26a
52068 Aachen - Germany
Fon +49(0)241 95789-814
info@ila5150.de, www.ila5150.de