

ILA.LPS 3

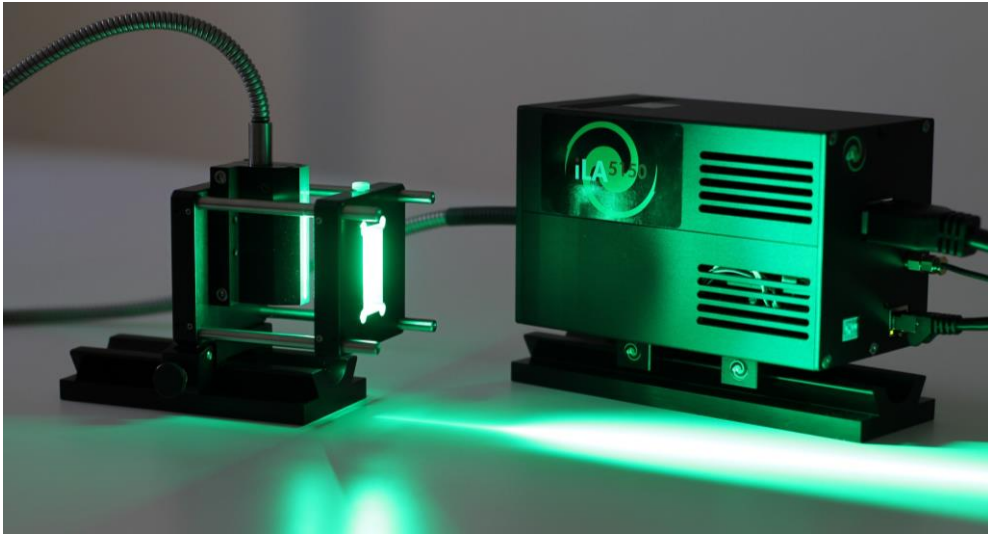


Figure 1: LPS3 with light sheet fiber optics

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, 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 1 μ s with superior power stability
- short rise and fall times
- 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
- no laser safety issues
- can be used without computer.

ILA.LPS 3

- 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

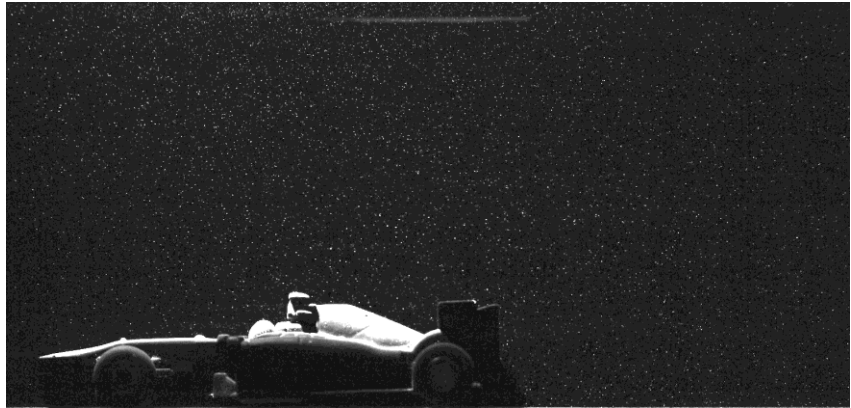


Figure 2: 20x10cm 2D-2C PIV Setup in water @ 1000 Hz

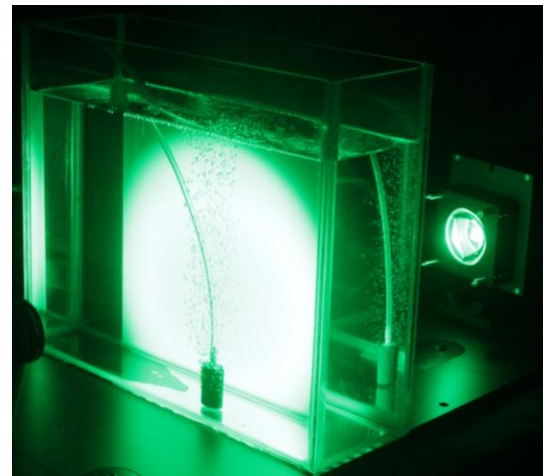


Figure 3: Shadowgraphy Setup @ 500 Hz



Figure 4: Works directly out-of-the-box



Figure 5: Clean and easy-to-use Interface