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.
**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**
- 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