

LED-PS: Pulsed LED illumination module

The OPTOLUTION LED-PS is a low-cost and easy to operate illumination solution for studies requiring pulsed and synchronized illumination.

Main Features:

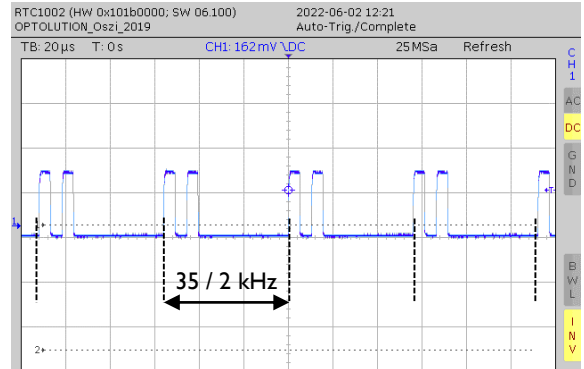
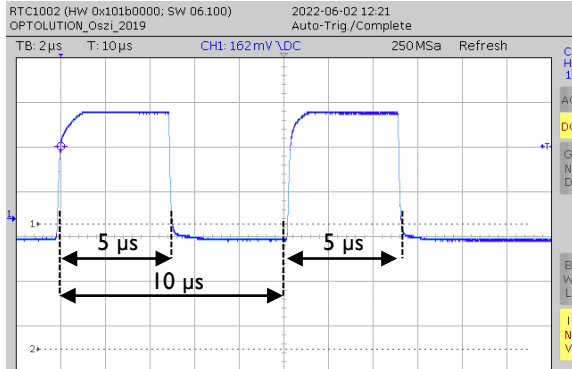
- Designed for PIVlab, the free PIV toolbox in MATLAB
- Synchronizer for Panda and Pixelfly cameras (pco) or Chronos (Kron Technologies) built-in
- Wireless remote control
- High light intensity (4000 lm)
- Cost-effective and compact design (130x40x40 mm, 250 g)
- 4x3 Nichia LED array
- Wavelength: 520 ± 20 nm (green)
- Pulse length: $5 \mu\text{s} - 250$ ms
- Duty cycle: 0 – 50 %
- Double pulse repetition rate: 1 Hz – 17 kHz
- Min. interframe time: 10 μs
- Optical rail and Manfrotto tripod mount included
- 100 - 240V AC power supply



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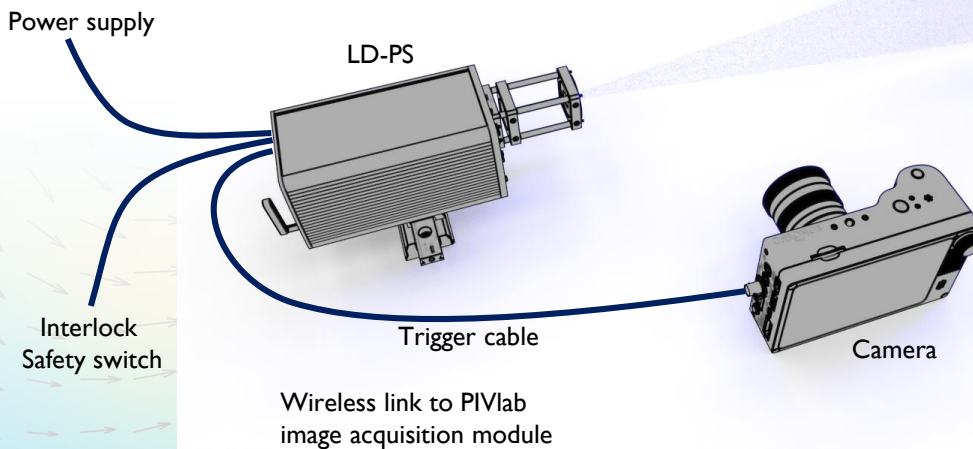
Pulse characteristics:

LED operated at 35 kHz (17.5 kHz double pulse repetition rate), with 5 μ s pulse length and 10 μ s interframe. Light emission measured with a photo diode.



Easy setup:

Connect the camera (Chronos I.4, by Kron Technologies shown here) to the LED (LD-PS/40 shown here) using a trigger cable and plug in the power supply. Connect wirelessly to your computer (dongle included), start MATLAB and control your experiment directly from PIVlab.



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Easy setup:

Connect the camera (Chronos I.4, by Kron Technologies shown here) to the laser using a trigger cable and plug in the power supply. Connect wirelessly to your computer (dongle included), start MATLAB and control your PIV experiment directly from PIVlab.

