

DATA

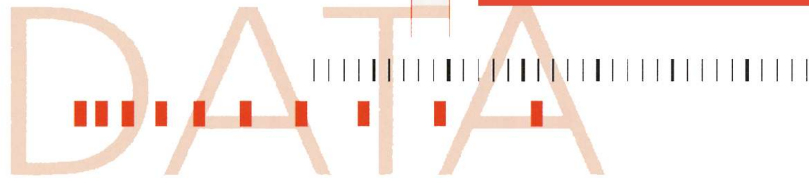
ILA.LPS LED Pulsing System



The ILA LPS is a state of the art LED PIV illumination system. It offers a simple solution for the user to do PIV with high power LEDs without having to think about the complex control task that's behind it.

The Controller-Head combination ensures safe operation simultaneously gaining the most out of the LED. The system is able to control up to four separate heads with different colors and is remote controlled via ethernet. A comfortable software, specially designed to fit the needs of demanding PIV setups, is also provided.

The 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.



Controller specifications

resolution	5ns
jitter	ultra low
pulses	TTL
repetition rates	0,047Hz...2500Hz
trigger inputs	3, 0,047Hz...2MHz
trigger logic	AND, OR, INVERT
trigger delay	user definable
trigger window	user definable
special	incremental encoder mode double pulse mode (PIV) CW-mode capable
PC connection	100Mbit Ethernet
configuration	via ILA-Software
channels	up to four LED-Heads
supply	110...230Vac, 25...30Hz
length	330mm
width	370mm
height	116mm
weight	6kg

low- and high-speed Applications
synchronizes to any camera with status signals

LED-Head specifications

pulses	0...200A
power	0...47mW/cm ²
colors	green, blue, red, others on demand
length	120mm (without optics)
width	90mm
height	116mm
weight	2.1kg (with short optical bench)

light sheet optic
volume illumination

