mini PIV-Syncronizer

MAIN FEATURES

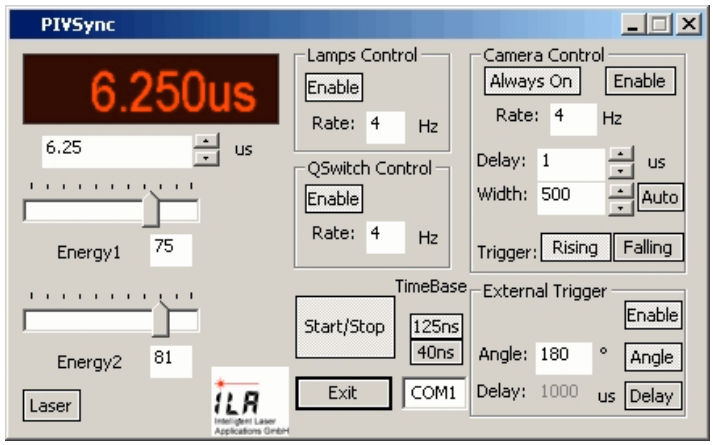
- Configuration and control by standalone software interface
- USB port for communications and programming
- Firmware updatable via internet connection
- Compact

DESCRIPTION

The mini-PIV Syncronizer controls the operation of a complete PIV system, managing all the timing events needed for making PIV measurements – whether 2D or stereo 3D. A choice of automatic and manual configurations is available to program the timings of cameras, laser flashlamps and Q-switches in many modes, from single image acquisition to multi-sequence image bursts, phase-locked operation, internal or external triggering.
The mini-PIV Syncronizer firmware offers the following functionalities:

- Updatable firmware, via USB
- 40ns time-step resolution
- Independently adjustable timings and delays for cameras and lasers, manual or automatic
- Independently adjustable repetition rate (Standard PIV 1...30 Hz, all commercial PIV lasers supported) and signal polarities for lasers and cameras
- Delay-controlled or angle-correlated external trigger modes

Left: Back Panel, showing I/O SMA connectors, USB port and power socket. A cable bundle is supplied for laser and camera connections.



Right : PIVSync software interface, Panel, showing all the main controls. Note the convenient sliders for direct adjustment of pulse energy on each cavity

SPECIFICATIONS

- Output channels: 5 x TTL compatible, 2 flashlamps, 2 Q-switches, camera
- Output impedance: 50 Ohm (all channels)
- Output high voltage: 5 V
- Input channels: 1 x TTL external trigger
- Comm ports: USB
- Operation: Standalone software interface or dedicated interface in VidPIV Trigger&Acquire node
- Configuration: Via software interface
- Weight: 1 kg
- Power supply: 9V DC via external unit (supplied) ,220/110 V, 50...60 Hz

FIRMWARE

- Custom firmware versions are available for non-standard timing applications
- Newest internal firmware available for download at www.ila.de.

Intelligent Laser Applications GmbH
Karl-Heinz-Beckurts-Straße 13
D-52428 Jülich
T +49 (0) 2461. 690 430
F +49 (0) 2461. 690 439
info@ila.de
www.ila.de