

PIV Synchronizing System

Particle image velocimetry

Coordinate laser output and camera acquisition with a PIV timing controller. Six pulse outputs share a frequency and pulse width, with independently adjustable delays. Qualify trigger levels, timing resolution and jitter against the laser and camera before specifying the controller.



Timing functions

Parameter	Listed capability
Purpose	Synchronize laser emission and image acquisition
Timing outputs	Six pulses with a common frequency and pulse width
Delay control	Independently adjustable delay
Jitter	Stability described qualitatively; numeric specification on request
Electrical and timing limits	Confirm signal levels, polarity, delay range, resolution and supported frequency

What to specify

- Laser and camera models, trigger levels, polarity and input impedance.
- Required timing sequence, image-pair separation, output frequency and pulse width.
- Delay range, timing resolution and allowed jitter for the complete measurement.

A timing controller coordinates supported events. Confirm the laser pulse-pair capability and camera timing for the required image separation.

Request a configuration

Send your laser, camera and measurement requirements to info@precisometer.com.

www.precisometer.com/lasers/accessories/piv-synchronizing-system

Overview capabilities reviewed 19 October 2026. Final specifications depend on the selected configuration.