

Flame image-C-LIF

Flame image-C-LIF Planar Fluorescence Imaging

A configured planar laser-induced fluorescence platform images selected species in a combustion field. A laser sheet defines the measurement plane and a gated camera captures its fluorescence.

1. Tuned laser sheet

2. Species fluorescence

3. Gated planar image

Best suited to

Combustion radical distribution, fuel tracers and flame-front studies.

Configuration

Provide the target species, excitation transition, field of view and optical access. Laser, filter and timing selection must follow the transition; quantitative concentration or temperature needs an appropriate calibration model.

Specifications

Published parameters	
Method	Planar laser-induced fluorescence, PLIF
Measurement plane	Two-dimensional laser sheet
Published sheet thickness	0.1–0.3 mm, example configuration
Published laser repetition	10 Hz, example configuration
Detection	Configured intensified camera
Extensions	Spectral detection and PIV integration by configuration

Measurement features

- Tunable excitation and laser-sheet collection geometry.
- Gated imaging with synchronised acquisition.
- Software for acquisition, analysis and result visualisation.

Configuration note

This is a modular solution. Specify the laser, timing equipment and detector in the quotation; the example configuration is not a universal standard package.

Full configuration: www.precisometer.com/spectroscopy/spectral-imaging/flame-image-c-lif