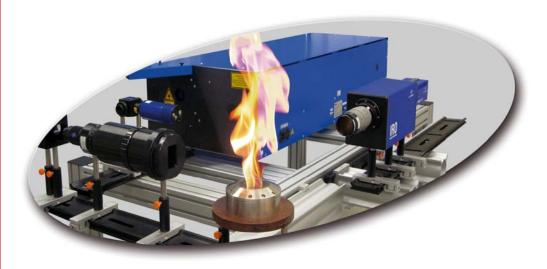


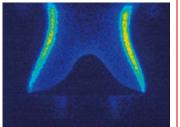
FlameMaster

designed for the development of more efficient and cleaner combustion systems Combustion is the major source of energy production and at the same time the principle source of air pollution.

LaVision's **FlameMaster** system family is designed to help the scientific and engineering community to find new concepts for the realization of more efficient and cleaner combustion devices. In-situ and on-line flame visualization is provided as well as quantitative information about species concentration and flame temperature.



Applications

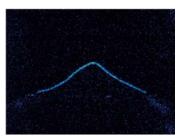


OH-PLIF signal

Investigation of combustion phenomena in

- flames
- burners
- jet engine
- furnaces
- propulsion systems
- chemical reactors
- shock tubes

Information



CH-PLIF signal

- ▶ fuel LIF imaging, air-fuel mixing
- Iflame front visualization
- ▶ flame radical distributions (OH, NO, CH ...)
- If the structure and stability
- If lame and soot temperature
- soot concentration and size of primary soot particles

LAVISIONUK LTD

DOWNSVIEW HOUSE/ GROVE TECHNOLOGY PARK

GROVE/ OXON/ OX12 9FF, UNITED KINGDOM

LAVISION GMBH

E-MAIL: INFO@LAVISION.COM / WWW.LAVISION.COM

TEL. +49-(0)5 51-9004-0 / FAX +49-(0)551-9004-100

LAVISION INC.

211 W. MICHIGAN AVE. / SUITE 100

YPSILANTI, MI 48197 / USA

PHONE: (734) 485 - 0913 / FAX: (240) 465 - 4306



System Features

- integrated turnkey laser imaging systems based on application matched best selection of laser and camera
- complete hardware control using DaVis software
- accurate hardware and signal calibration
- flexible beam delivery and sheet forming optics
- laser sheet correction incl. local laser beam absorption compensation
- most efficient LIF excitation technique for each application and flame radical
- spectroscopic data base and background literature
- combination of techniques, multi-parameter laser imaging

Specials

- endoscopes for keyhole imaging
- high speed LIF systems
- soot imaging with in-situ calibration
- fast shutter and high speed imaging pyrometers
- volume scanning for 3D information
- tunable Nd:YAG laser module for OH-LIF imaging
- high speed spectral analysis of transient processes
- imaging stereoscopes
- calibration burners

Upgrades

- ▶ **SprayMaster** for spray characterization
- ▶ FlowMaster for velocity field measurements

Data provided by LaVision are believed to be true. However, no responsibility is assumed for possible inaccuracies or omissions. All data are subject to change without notice.

Nov-11

