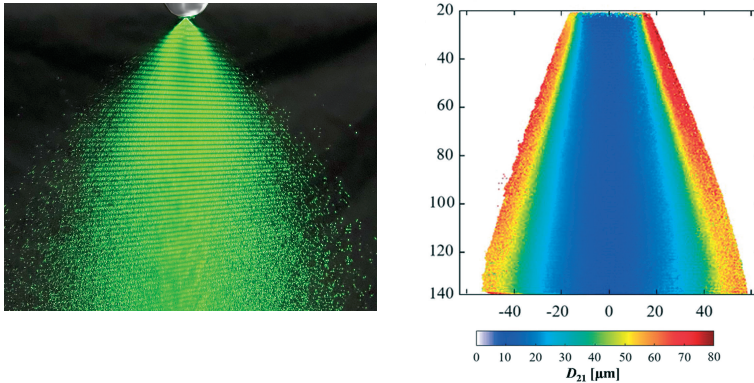


Planar Droplet Sizing in Dense Sprays without Tracer



SLIPI Droplet Sizing combines Structured Laser II illumination Planar Imaging (SLIPI) with Polarization Ratio Imaging to measure the planar droplet size distribution (D21) in optically dense sprays. The SLIPI clean-up process effectively suppresses multiple light scattering for quantitative analysis. The method requires no fluorescent additives, is compatible with continuous wave (cw) lasers, and features a compact, flexible setup.

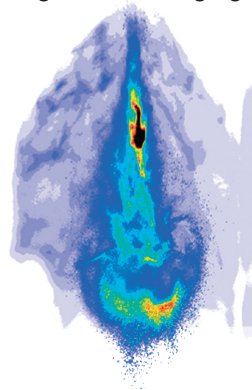
Image courtesy: "Spray & Imaging Group" at the Division of Combustion Physics, Lund University.

Effective Stray Light Rejection with High Temporal Resolution

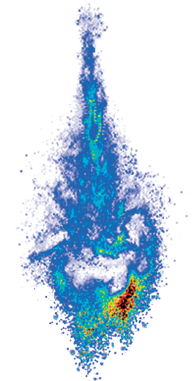
Structured Laser Illumination Planar Imaging (SLIPI) is a proven technique for high-fidelity spray imaging even in dense sprays where multiple scattering has traditionally obscured internal details. LaVision's SprayMaster systems support averaged as well as instantaneous SLIPI spray imaging.



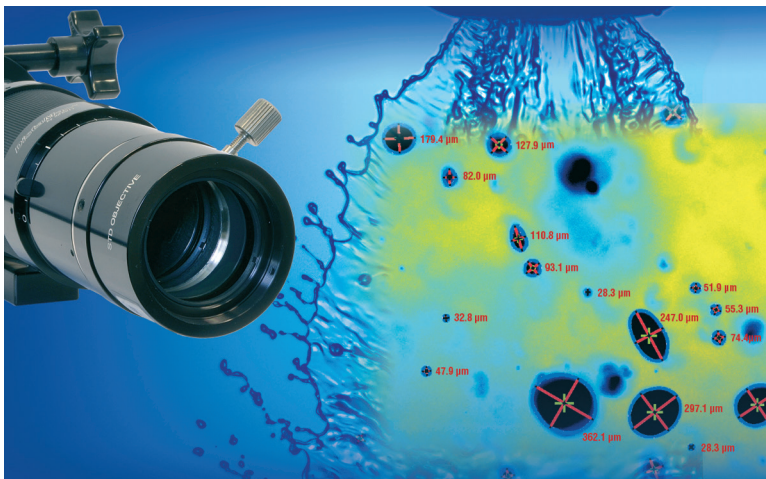
Conventional light sheet imaging



Instantaneous SLIPI spray imaging



High Resolution Dynamic Image Analysis for Droplet Sizing and Spray Break-up



LaVision's **ParticleMaster** system detects and analyzes high-magnification shadow images from particles, droplets or bubbles. The system measures the size, shape and velocity of individual particles, and derives cumulated ensemble statistics. Direct imaging of individual particles gives you confidence in the measurement method, as you can directly see the result of the image processing.

