LaVision
FOCUS ON IMAGING

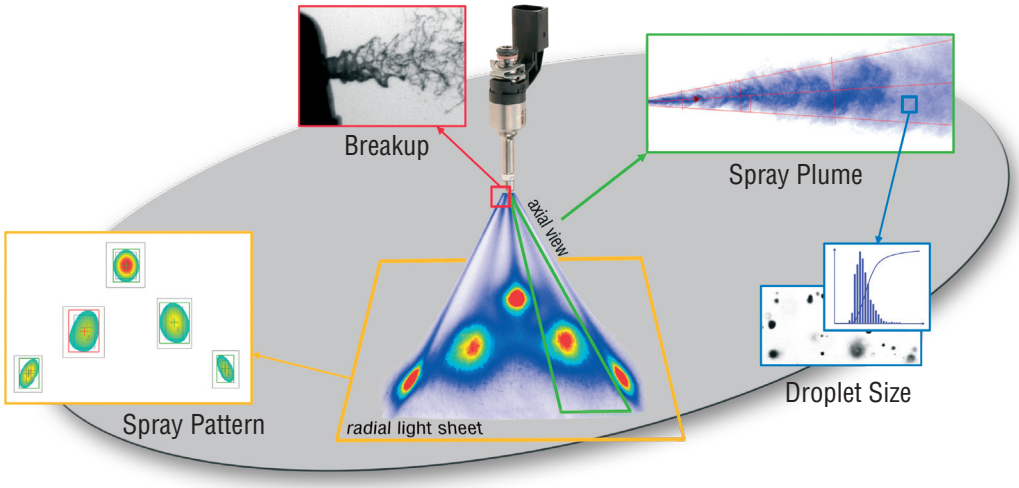
Automotive Spray Inspection

Production monitoring and quality control solutions

From fuel injection to paint coating processes, sprays play an important role in all areas of the automotive industry. A well-defined and reproducible spray process is always a key requirement for all applications. Digital spray characterization can deliver non-intrusive, fast and reliable data to ensure these requirements are met. LaVision has solutions for 24/7 online production monitoring, quality control as well as for the development of spray nozzles and spraying processes.

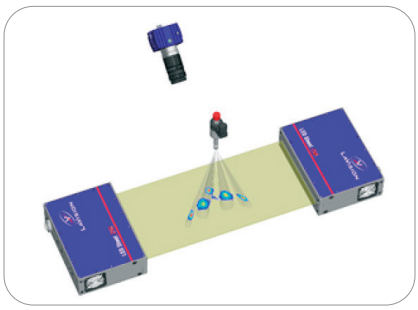
Digital spray characterization

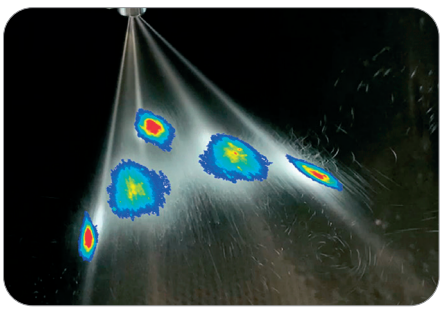
LaVision's imaging solutions measure:

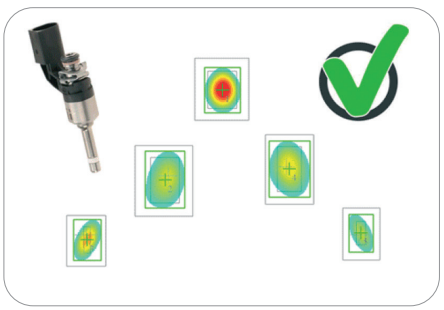


Fuel sprays

To ensure future operation of internal combustion engines it remains crucial to do everything possible to minimize their emissions. New challenges arise with the introduction of synthetic and e-fuels requiring adaption and optimization of combustion processes. Emission control starts with the injection of fuel. Only a high quality fuel injector can guarantee efficient fuel injection over a long lifetime. LaVision's online production monitoring solutions for reliable 24/7 inspection of fuel injectors will allow you to guarantee high quality, increase productivity and operate more sustainably by reducing wastage.







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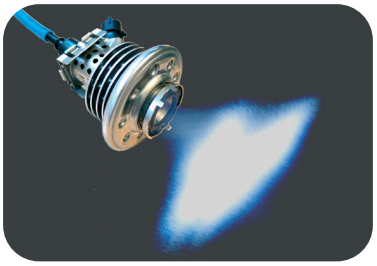
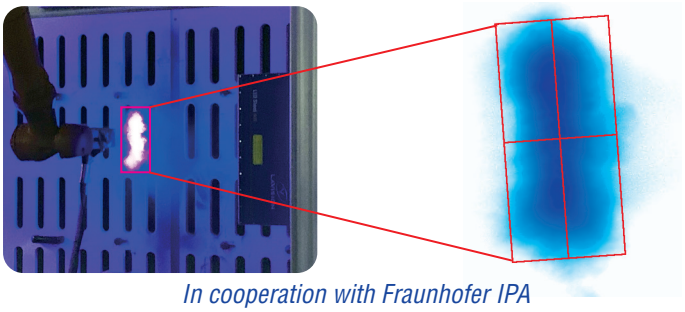
Exhaust Gas Aftertreatment

Meeting current and future ICE emission regulations is not possible without exhaust gas aftertreatment. A central part is played by Adblue dosing systems for SCR after treatment. Digital spray characterization can help to develop even more efficient dosing systems to further reduce consumption.



Coating processes

Coating application is a central part to many production processes such as spraying vehicle body paint, functional battery pack coatings or mold release agents. The quality of a coating depends on many factors such a coating formulation, nozzle design and operating parameters. Online monitoring of spray application plays an important role in increasing efficiency and reducing wastage. By detecting overspray, monitoring re-circulate composition, nozzle deterioration and fouling, processes can be adjusted and maintenance downtime can be reduced to a minimum.

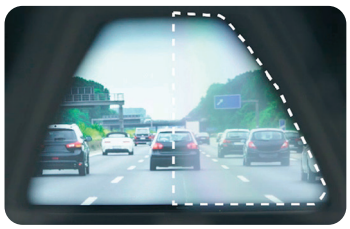


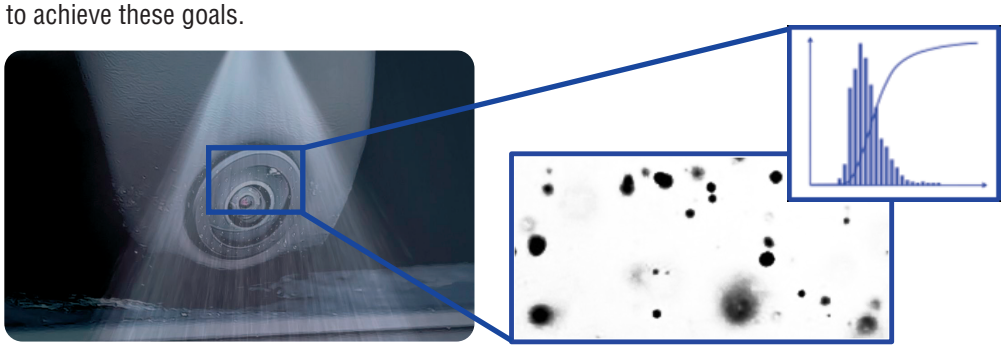
Spray Dimensions
Short axis: 102 mm
Long axis: 216 mm

In cooperation with Fraunhofer IPA

Camera and sensor cleaning systems

In the past only the windshield required active cleaning to ensure clear vision for the driver. On the road to autonomous driving, the extensive use of camera and sensor based advanced driver assistance systems (ADAS) has increased the demand for more reliable cleaning systems. Optimizing nozzles to ensure better atomization and droplet size distributions can greatly increase the effectiveness and reduce the consumption of optical cleaning systems. Optical characterization is a powerful tool to achieve these goals.





Want to know even more about your spraying process?

LaVision not only offers online and laboratory spray characterization solutions. We also are the leading provider in scientific imaging based measurement systems. For more information please visit our website or contact us directly.

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