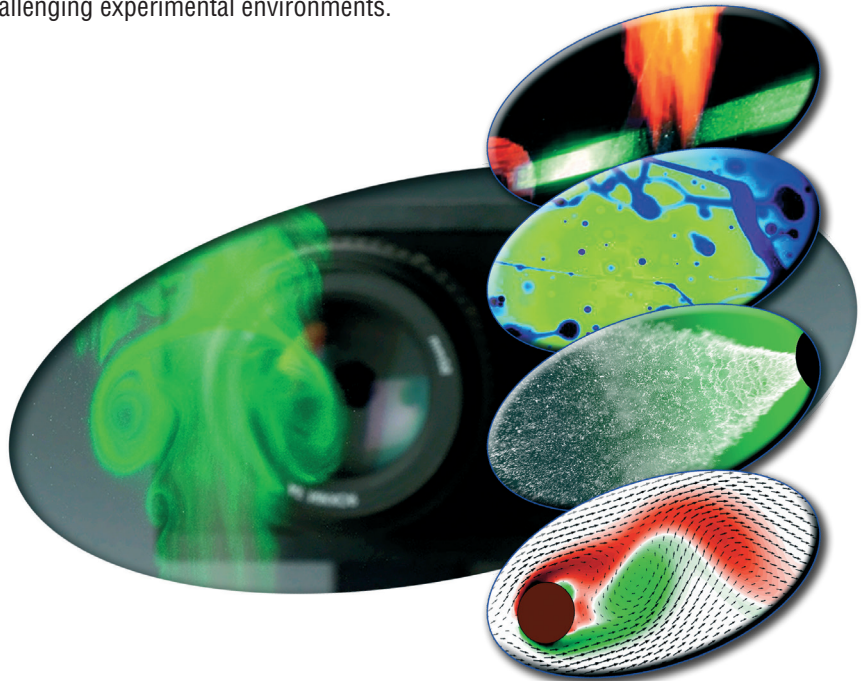


Contract Measurements

Outsourcing your scientific measuring tasks

LaVision offers a comprehensive range of contract measurement and consultancy services. Where experimental project deadlines necessitate a fast turnaround of results we offer unrivalled expertise in the area of scientific imaging and fluid dynamic data acquisition. Our experience spans many industry sectors and we have a proven track record in adapting our systems and services to a variety of applications worldwide. Our cost effective contract service provides customers with the opportunity to benefit from both rapid answers, and to test the feasibility of particular systems applied to their own challenging experimental environments.



LaVision can undertake complete measurement campaigns on the customer site or in our state of the art application laboratories. By applying our many man-years experience in the field of scientific imaging we can conduct a complete study of the subject under investigation. After agreeing on an experimental test plan and time schedule the data acquisition phase commences, uncovering a wealth of new and useful data. Upon completion of the measurements, reports on the results and initial data evaluations are typically prepared and discussed with our customers. The scope and content of the reports are individually tailored to the wishes of our customers. In many instances the results uncover entirely new insights into the experiment. Therefore further investigations may be of interest to the customer, and we are happy to provide further advice or assistance with follow-up studies, or discuss opportunities for the customer to have a system for their own exclusive use with peace of mind that such a system will provide excellent results.

Benefits of LaVision contract measurements

- ▶ Cost effective solutions
- ▶ Reduced financial and technical risk
- ▶ Short turn around of results using LaVisions extensive experience
- ▶ One off projects possible
- ▶ Tests suitability of equipment for future projects

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LaVision Inc.

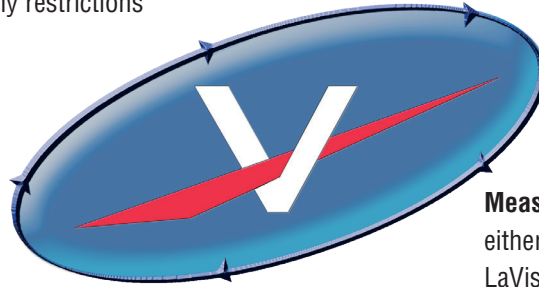
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The measurement contract procedure

Feasibility: LaVision will assess technical possibilities and report any restrictions

Plan: LaVision will agree on a measurement plan and a time schedule with the customer

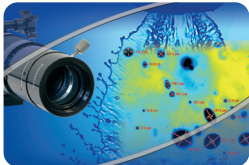
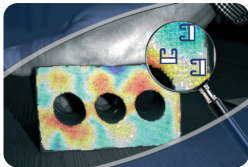
1st Discussion: to identify project objectives



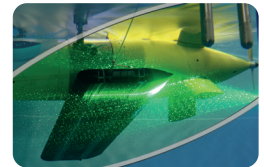
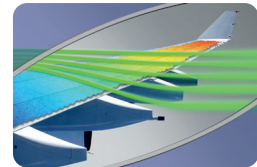
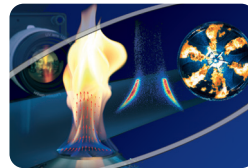
Measurements: carried out either at customer site or in LaVision application labs

Final report: LaVision will deliver a detailed report of results and findings

Application examples



- ▶ Automotive
- ▶ Aerospace
- ▶ Combustion
- ▶ Process engineering
- ▶ Pharmaceuticals
- ▶ Biomedical
- ▶ Environmental
- ▶ Fundamental fluid mechanics
- ▶ Spray nozzles
- ▶ CFD validation
- ▶ Materials testing



Contract rental

If you have in-house experience with the above systems, we are also able to offer short-term equipment rentals. Like full contract measurements, our cost-efficient rentals offer an excellent opportunity to prove the suitability of LaVision equipment in your experimental environment. If you have a new measurement project and want to benefit from rapid turn around of results whilst minimizing the financial and technical risk, please contact us at the address below to discuss your requirements.

Techniques available on a contract basis

- ▶ Particle Image Velocimetry (PIV) – 2D & 3D full field velocity measurements in fluids
- ▶ High-speed imaging – flow visualization
- ▶ Spray analysis – spray geometries & droplet sizes
- ▶ Combustion imaging – fuel, flame species, temperature and exhaust
- ▶ LIF – concentration & temperature in mixing flows
- ▶ DIC – 2D & 3D full field deformation, vibration and strain analysis
- ▶ Multi-parameter imaging – a combination of these techniques

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

Sep-23

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