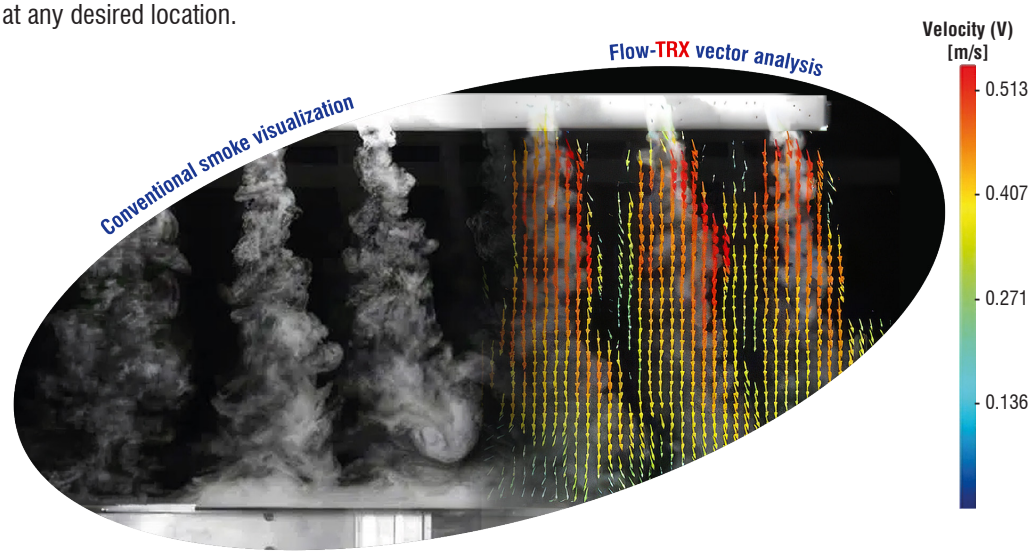
LaVision
FOCUS ON IMAGING

Flow-TRX

Verification of smoke studies

Protecting critical work areas starts with understanding the airflow. Smoke studies reveal its movement, but complex patterns, brief backflows and local recirculation can be difficult to interpret consistently. Reviewing videos by eye demands experience, concentration and time.
Flow-TRX turns visible tracer motion into clear vector information. See where the flow goes, recognize critical deviations and support your conclusions with a traceable visual record. Measure the flow velocity at any desired location.



Your advantage

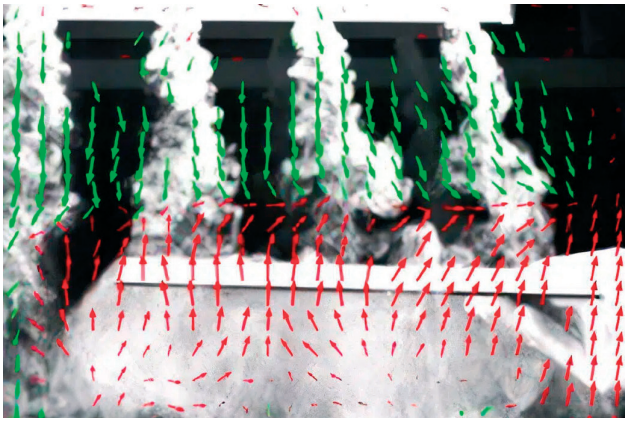
- Identify critical flow regions more clearly.
- Reduce dependence on individual visual interpretation.
- Build more consistent, reproducible and traceable assessments.
- Display of the flow velocity at each point.

Applications

Cleanrooms, isolators, RABS and laminar airflow systems in pharmaceutical manufacturing, biotechnology, medical technology and semiconductor production.

Reveal critical flow

- **Backflow**: identify local reversal of the intended flow.
- **Recirculation**: follow rotating and returning tracer motion around equipment.
- **Dead zones**: investigate regions with little visible movement.
- **Flow separation**: see how obstacles redirect the flow near critical work areas.



Example of local reverse motion: red vectors point against the surrounding downward flow.

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More insight
Less guesswork

Keep the familiar smoke study and add a powerful analysis layer. **Flow-TRX** displays the camera scene together with scalable, color-coded vectors in real time, linking each flow observation directly to its location in the test area.

See and assess live

Recognize flow direction and qualitative velocity patterns while observing the smoke. Adjust vector size and color display to examine the region of interest without losing the context of the scene.

Examine local motion

Position a virtual analysis window within the test mist to inspect the calculated local velocity. Established image-analysis algorithms convert successive camera images into a detailed flow field.

Save the evidence

Record the study as video with traceably stored acquisition and analysis parameters. Give colleagues a common basis for review and make comparisons between test conditions easier to explain.

Focus your review

Spend less effort interpreting ambiguous smoke trails and more time examining critical regions, evaluating interventions and discussing improvements to the process.

Flow-TRX Basic combines high-resolution imaging and dedicated processing with an intuitive remote interface. Capture the test mist, visualize local motion and retain the recording and analysis settings in one coordinated workflow.

System configuration

- 5 MP camera with 12 mm lens and tripod
- Dedicated data-acquisition PC
- Remote-desktop touchscreen laptop
- **Flow-TRX** acquisition and analysis software, licensed separately

Flexible operation

Control the measurement PC wirelessly from the touch laptop and choose a convenient operating position. The system provides its own Wi-Fi network; integration into the facility network is not required.

Adapt to your test

Calibration targets, alternative optics, glare-reduction filters and additional illumination help adapt the setup to the scene. LaVision supports selection of the recording conditions and accessories. Software licenses are available for 12 or 36 months.



See the difference

Make your next smoke study more informative.

Discuss your application and arrange a **Flow-TRX** demonstration.
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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.

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