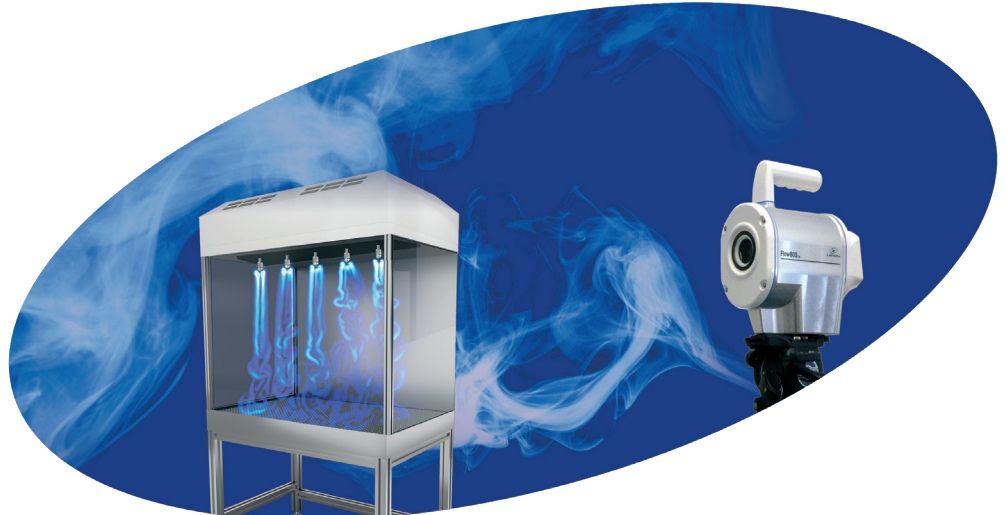


FlowBOS Camera CR

Smokeless smoke
testing in cleanrooms

The innovative **FlowBOS Camera CR** from LaVision overcomes the main drawback of common airflow tests with smoke: It avoids contamination from residues, as it uses a neutral gas instead of smoke.



A substantial reduction of cleaning costs and avoiding production downtime is possible when using the **FlowBOS Camera CR**. Not only can this camera replace most standard smoke tests, it also opens up new possibilities for efficient cleanroom production. Being a digital measurement system, quantification of the flow like velocity and direction is now available. Additional application scenarios are conceivable that go beyond the usual use of conventional smoke testing: emergency testing on operational production lines, training at lines in operation and many more.

Operation principle

In traditional flow visualization in cleanrooms and flow boxes particles (aerosols or smoke) are commonly used. The downside of this approach is the contamination from residues in the investigated area. The **FlowBOS Camera CR** avoids this contamination utilizing a neutral gas (**BOS air**) for safe and clean flow seeding. **BOS air** consists only of noble gases which are safe for human operators and do not interact with any material. **BOS air** is perfectly balanced with the surrounding air and follows even its slightest motions.

The **FlowBOS Camera CR** monitors the airflow in real time, and is as simple as using a video camcorder. This camera is highly sensitive to tiny optical changes (aka "Schlieren") induced by the **BOS air**. It is scalable to various measurement areas simply by the choice of the background pattern screen.



FlowBOS camera CR

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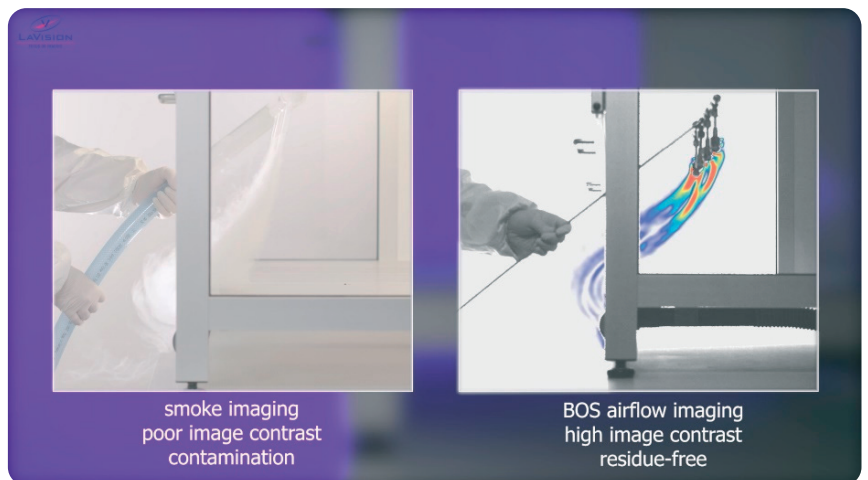
Why would you want to replace a well-established method like conventional smoke testing, which is already accepted by regulatory authorities and integrated into Standard Operating Procedures (SOPs)? The answer lies in exploring potential alternatives that offer improved performance and reduced drawbacks.

- Features**
- ▶ Enables in-production testing
 - ▶ Ability to conduct emergency tests without affecting production and adjacent lines
 - ▶ Continuous production monitoring
 - ▶ Verification of procedures/SOPs in real production setting
 - ▶ Enhanced information gathering (e.g., flow velocity)

With intuitive & simple handling the **FlowBOS Camera CR** is designed for use in production environments with a minimum of effort and training and fits seamlessly into existing workflows of airflow monitoring.

- Key benefits**
- ▶ No smoke residues in the production area
 - ▶ Significantly shortened cleaning steps after testing
 - ▶ Reduced downtime
 - ▶ Reduced risk of contamination to products or equipment
 - ▶ Increased production capacity
 - ▶ High potential for cost savings

To find out more about the functions of this exceptional camera, please feel free to watch our video on YouTube.



If you have a new measurement project and would like to find out more about our solutions, please do not hesitate to contact us at cleanroom@lavision.de.

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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