

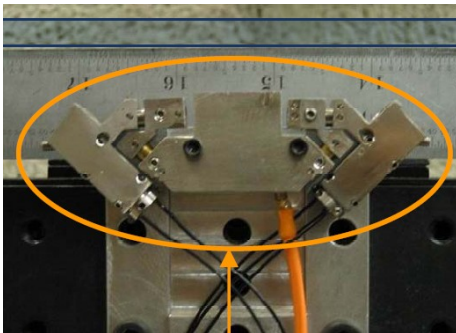


SM3 Laser-Doppler Velocimeter

APPLIED UNIVERSITY RESEARCH, INC.

Advanced flow solutions customized to your application.

Press Release 1/1/2007:



AUR is proud to announce the development of world's smallest commercial three-component laser Doppler Velocimeter, the SM3 LDV.

The new instrument draws upon successful research in developing sub-miniature LDV systems to produce a very high resolution three-velocity component probe. Uncertainties are maintained at very low levels in this multi-axis optical design. Probe dimensions of approximately $67 \times 86 \times 29 \text{mm}^3$ are achieved in this innovative design.*

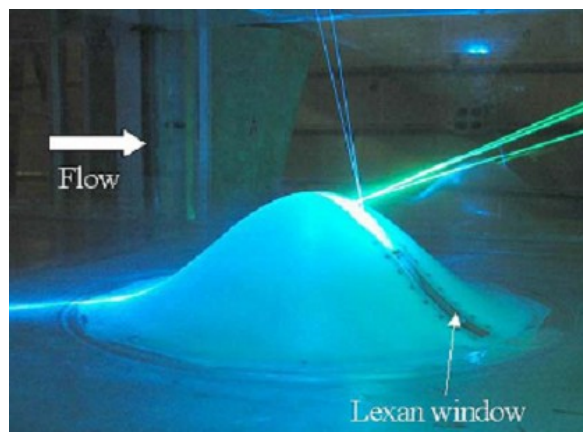
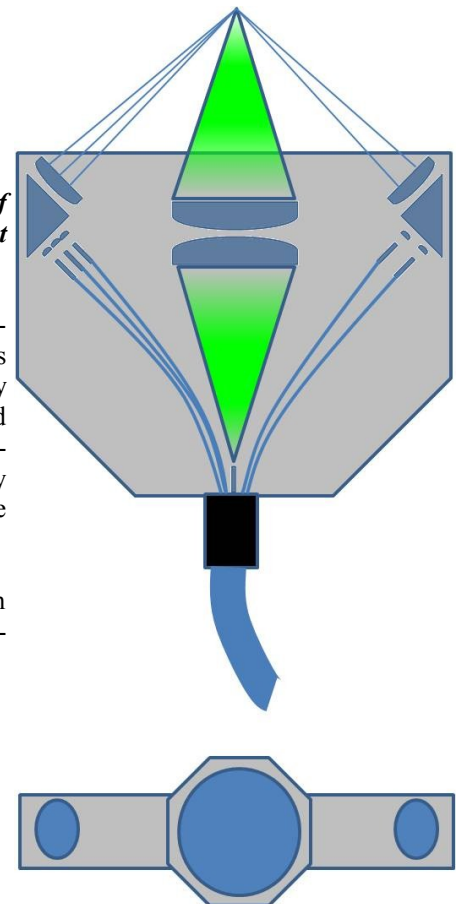
The SM3 LDV is ideally suited for situations with limited optical and hardware access. In previous research, a prototype probe has been used for in-model measurements to extensively map complex three-dimensional turbulent flow separations. Applications include

- Complex 3D flow diagnostic
- Automotive tests such as in-cab defroster measurements
- In-flight tests
- In-casing gas-turbine measurements
- Velocity measurements for turbine blade cooling models
- High speed testing
- In-model probe mounting for probe/model vibration coupling
- Turbulence research

Our SM3 LDV is a complete solution including turn-key support photonics hardware and data acquisition and processing hardware. AUR-developed software including data acquisition, processing, and post-processing software allows you to quickly obtain results for your application. AUR also has sub-miniature traverse systems for one-, two-, or three-axes of motion for your SM3 LDV.

Contact AUR for more information

*Since we are continually improving our products, dimensions are subject to change without notice.



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