

質 疑 回 答 書

件名 マイクロチャネルの流動測定装置 一式の購入

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	質疑事項	回 答
1	What is the typical speed of the flow inside the microchannel?	the range is 10^{-6} to 1 m/s
2	What is the required volume size, in particular in the Z-direction?	$\sim 1 \text{ mm}^2$ by 1 mm
3	What is the required spatial resolution for the measurement?	Obviously the spatial resolution depends on the lens magnification. For example, for a 10x lens, we hope to achieve sub-micron resolution
4	Are there specific requirement (accuracy, error range, etc.) on the velocity result? If yes, what is it?	Yes, these numbers again depend on the types of lens (magnification) and reasonable particle seeding densities. For example, for 10x magnification, we want the velocity error to be 0.3% or lower. With minimum ghost particle occurrence.