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Dual-camera system for high-speed imaging in particle image velocimetry

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(Submitted on 31 Mar 2012)

Particle image velocimetry is an important technique in experimental fluid mechanics, for which it has been essential to use a specialized high-speed camera. However, the high speed is at the expense of other performances of the camera, i.e., sensitivity and image resolution. Here, we demonstrate that the high-speed imaging is also possible with a pair of still cameras.

Comments: 4 pages, accepted by Journal of Visualization (see this http URL)

Subjects: Fluid Dynamics (physics.flu-dyn)

DOI: 10.1007/s12650-012-0127-0

Cite as: arXiv:1204.0057v1 [physics.flu-dyn]

Submission history

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