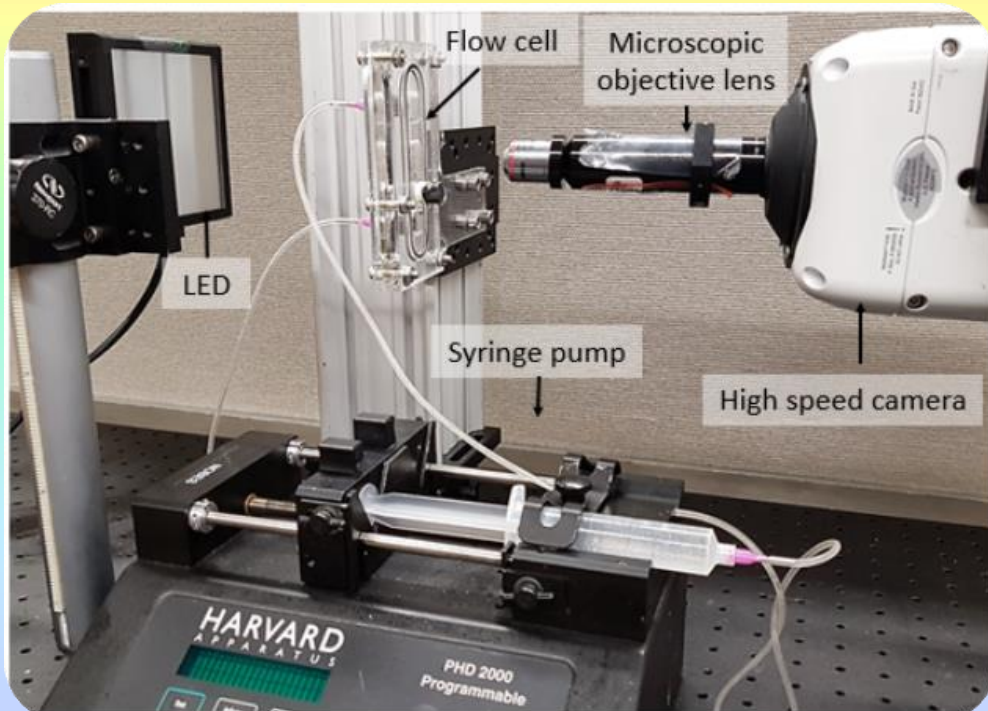




Testing Department

High Speed Imaging System



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The experimental setup consists of a camera, a light source and an assembly that contains the flow cell. This setup can be used in micro and macro scale experiments with high flow rates. The high speed camera (Phantom V610, Vision Research Inc., USA) is able to run at frequencies up to 5 kHz. This setup is capable of the velocity measurement for transparent fluid having Reynolds number up to 500.

CAPACITY

- Flow measurement for different fluid rheology
- Flow measurement in macro and micro scale
- Resolution of 1280×800
- Able to capture the flow field up to $Re \sim 500$
- Control of flow rate by syringe pump and peristaltic pump

SPECIAL FEATURES

- Enables velocity measurement at the entire field
- Results can be further processed to determine the pressure field
- Automation and data logging achieved by a custom built software



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(807) 700-5504