

Digital camera floc sizing flow through cell

March 5, 2014

Location: ???

Skills: programming, willingness to learn LabVIEW, optics

Number of students: 1

We have acquired the digital camera and flow cell for measuring floc size. Next steps Determine if a strobe light is necessary to stop the motion of the flocs. This is a function of the shutter speed of the camera and the velocity of the flocs. If a strobe is needed, then acquire hardware and develop LabVIEW software to synchronize the camera and strobe. The software application must be developed using high level programming in LabVIEW. The application should be a stand alone application that is user friendly based on the needs of the student teams that will be using the floc sizing system. The system should be designed to automatically take samples every x seconds and to produce a floc size distribution that is recorded in a data file.