

Project Title:	Machine Vision System
Client:	Dabrico
School Year:	2004-2005
Students:	Nathan Light and Marissa Lynn
Summary:	<p>Inspection in the pharmaceutical industry is changing from manual to automatic. Dabrico, a supplier of pharmaceutical inspection equipment is moving toward automated inspection by gathering information on machine vision systems. This project propelled that research forward by choosing a machine vision system solution that would meet the speed requirements, inspection requirements, and other user requirements.</p> <p>The final solution was a Keyence system that would inspect 300 vials per minute, find defects as small as 0.0036 in.², and function with 99% accuracy. The Keyence system also offers features that meet qualitative criteria including straightforward programming functions, serial communication, and NEMA 4x casing.</p> <p>The Keyence system successfully met all requirements, both quantitative and qualitative. Although Dabrico may not choose the Keyence system as a final solution, the collected research, the results of the selection process, and the experience of setting up the vision system will be useful to Dabrico in choosing a direction for the development of automatic inspection machines.</p>

