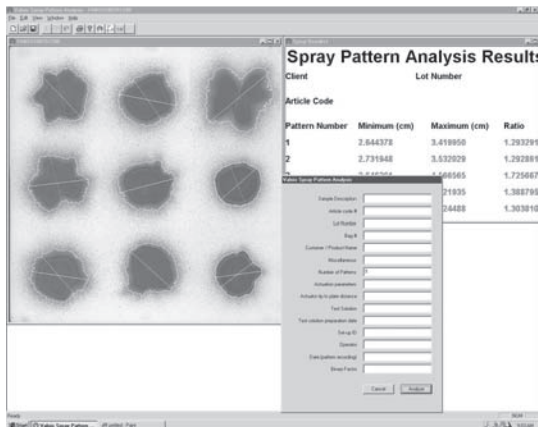


Spray Diffusion Analysis Using DT Vision Foundry

Tim Olsen at Atlantic Technologies, a systems integrator, used Data Translation's DT Vision Foundry to develop an application to measure the diffusion of nasal spray bottles. DT Vision Foundry is a machine vision software package that combines state-of-the-art vision algorithms with graphical and code level development environments.

This spray analysis application is for a supplier of drug delivery systems to pharmaceutical companies. Spray analysis is normally a subjective, manual process. The DT Vision Foundry application developed by Olsen allows standardization of the inspection process between the supplier and the pharmaceutical companies who will use their spray bottles.

The nasal spray is sprayed onto an HPLC (high-performance liquid chromatography) plate, and then the plate is scanned using a scanner (this could also be any type of machine vision camera). The image is then analyzed with the DT Vision Foundry application to see if the diffusion area falls within the specified guidelines. The application measures the maximum distance across the spray pattern as well as the center of axis of the spray.



Olsen used the custom tool development feature of DT Vision Foundry to write a custom Spray Analysis tool, which he then developed into a full-blown application using the available DLLs (Dynamic Link Libraries). In addition to the custom Spray Analysis tool, he also employed DT Vision Foundry's Threshold, Blob Analysis, and Morphology tools, included in the package's extensive library of vision and image processing tools.

Olsen was able to use the flexibility of DT Vision Foundry to create the specific application needed to solve the customer's machine vision problem.

For more information, go to <http://www.datatranslation.com/> or call (800) 525-8528.