MAXCESS®

Make your vision inspection system work for all departments.

When purchasing an inspection solution you must think about the end user. Often it is a project engineer or engineering manager that specifies a vision system for their surface inspection requirements. Maxcess Vision Systems has years of experience dealing with this issues while developing and deploying web inspection systems for surface inspection, print inspection outline some key aspects that need to be considered.

Let's look at the key stakeholders in a factory that interact with vision systems

1. The operator - this includes the personnel at the process line and converting lines.
2. The engineer - this normally is the process engineer that is responsible for the operation and upkeep of the process lines.
3. The quality supervisor - this is the individual tasked with using the data to guarantee quality of goods and the interface between customer service and production.

The Operator

The operator wants something simple to use that will not add complexity to his daily duties.

- Fast setup for a new job
- Clear feedback when there is an issue
- Historical information on existing run
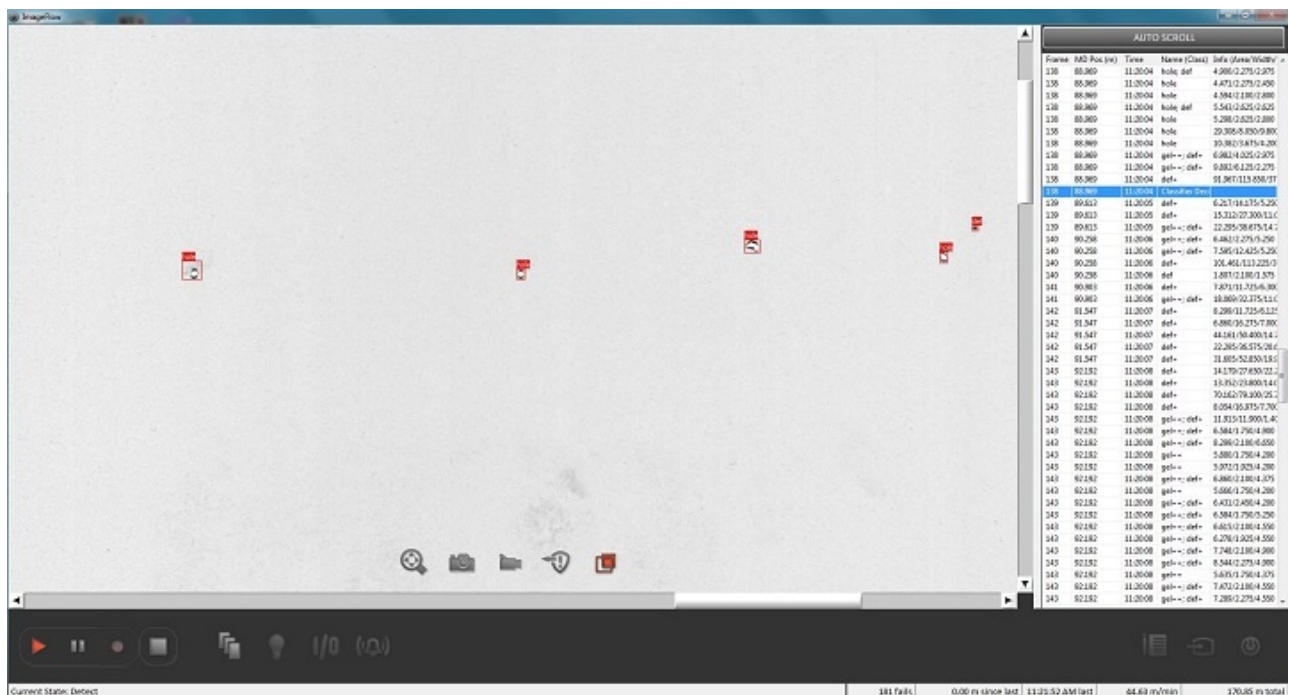
ImageFlow RT achieves this with a one touch system for mode operation and recipe selection. The defects are clearly displayed with context. Rather than displaying a small region of interest that looks like a postal stamp, the operator sees the defect on an image of the complete web. Finally the historical information for that run with a time stamp and location is displayed on a list to the right hand side. The operator simply selects the event and can see the web image at that time.

The Engineer

The process engineer needs a simple system that he can use at the line or his desk to set up recipes and to troubleshoot process issues.

- Software must be easy to configure
- System must have a complete set of features
- Support machine troubleshooting

ImageFlow TM or Tool Manager provides a process engineer with exactly those capabilities. The software may be installed on an office work station or can be remotely accessed.
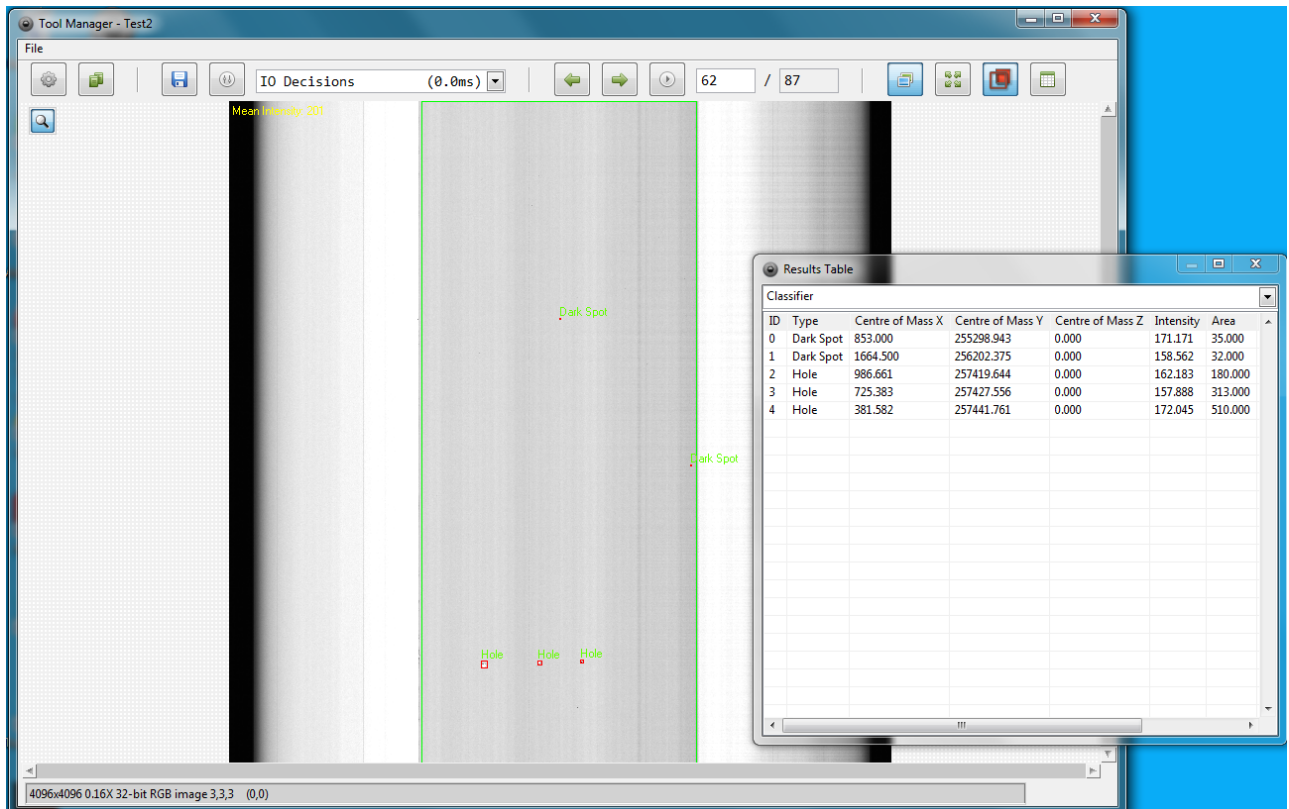
The tool manager supports an easy to use product manager. The application comes with configured recipes that can be copied and modified for new products, The tool set includes a complete set of algorithms for inspection, measurement, and parent machine interfacing. Finally the application supports the playback of video files recorded on the machine for trouble shooting.

The Quality Manager

The quality manager needs to be able to apply standards, check against those standards and monitor customer shipments against customer orders. The goal is simple, optimize production while reducing claims to zero. The features the quality department requires are:

- To able to generate reports for each production run
- To be able to remove waste if generated from an upstream process
- To be able to archive results for customer service

ImageFlow BR or the Inspection Browser is an application designed to provide that feature set to a quality manager.
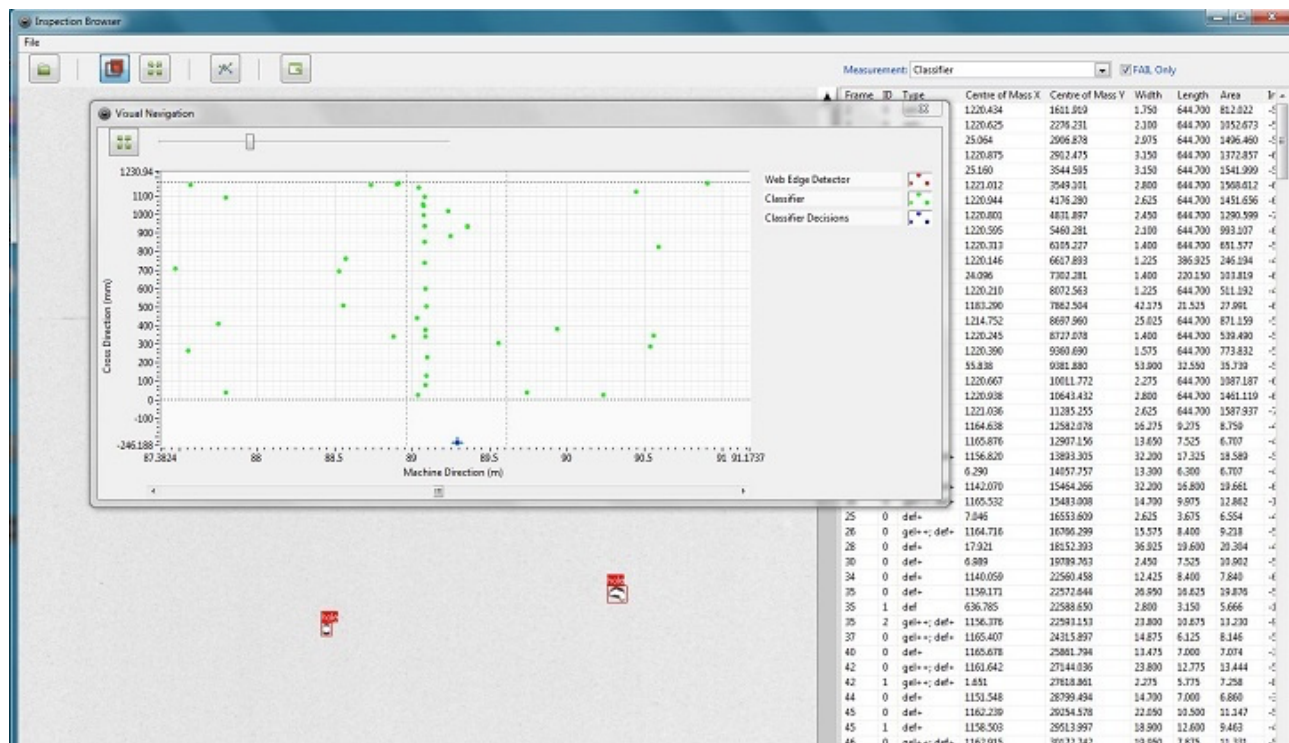
The application includes a graphical map of each production run. The user can export all data to excel for reports, and all production runs are archived with the defect images. The software includes the ability to link to a rewind module and automate the removal of waste.

Summary

An inspection system should consist of a group of applications that are user specific and designed for the job in hand. An operator producing product today has no need to access archived data from a month ago. A process engineer or quality manager both have different requirements. Maxcess Vision Systems recognized this weakness in the current offerings and designed ImageFlow to meet the purpose of the active user. Download our white papers to learn more.

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