imageXpert

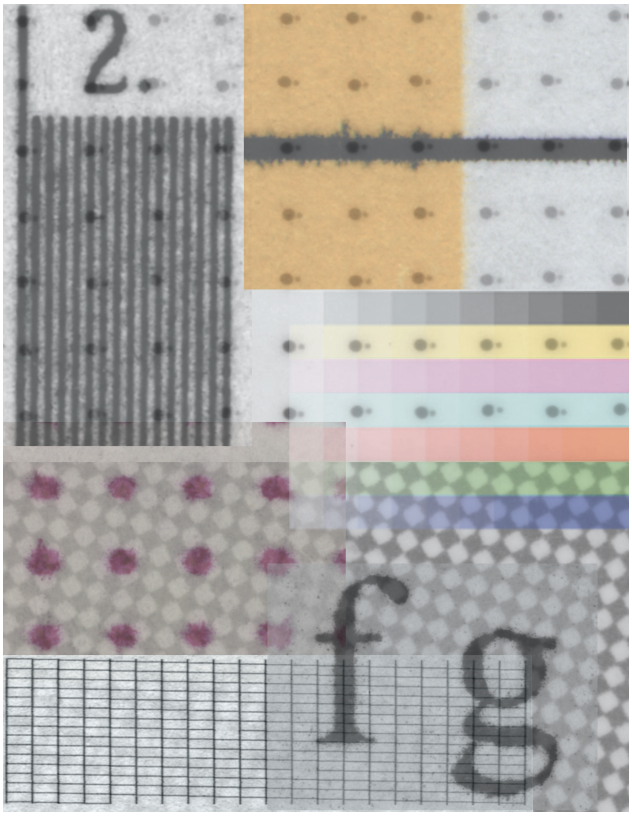
Image Quality Measurement Systems

ImageXpert Systems provide objective, quantitative image quality analysis

At the core of all ImageXpert systems is a powerful machine vision software package designed specifically for image quality evaluation. The software includes interactive tools for image exploration and a wide range of image processing and analytical algorithms for use in both interactive and automated image quality analysis.

A wide range of hardware configurations and options are available to meet a variety of image quality measurement needs for use in any environment. Hardware options range from simple, single camera, or scanner-based systems to very complex, multi-camera, full motion systems with integrated color, density, and 3D topographical measurement capabilities.

All of our imaging systems are calibrated using NIST traceable calibration targets.



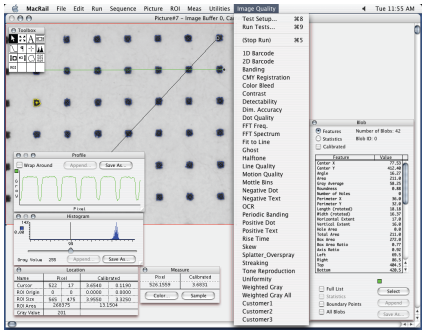
Types of Analysis

- Dot Positioning
- Dot Quality
- Line / Edge Quality
- Dimensional Accuracy
- Missing Jets
- Color Registration
- Streaks and Bands
- Area Coverage
- Blur / Sharpness
- Mottle and Graininess
- Bleed / Inter-color Bleed
- 3D / Topographical
- Custom Measurements
- And More!

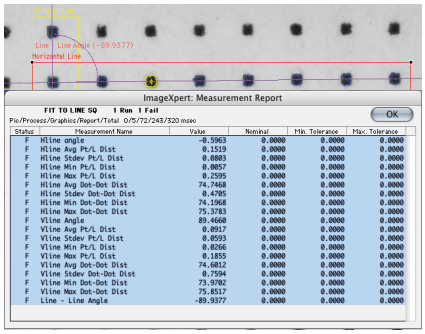
imageXpert
www.imagexpert.com
Email: info@imagexpert.com
Tel: 603-598-2500
Fax: 603-598-2687

Image Quality Measurement Systems

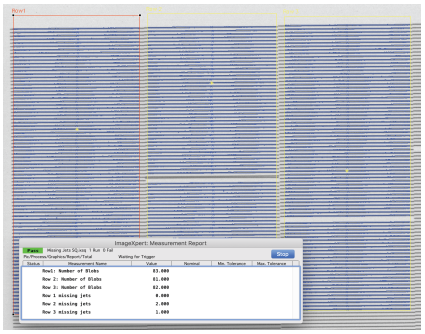
Examples



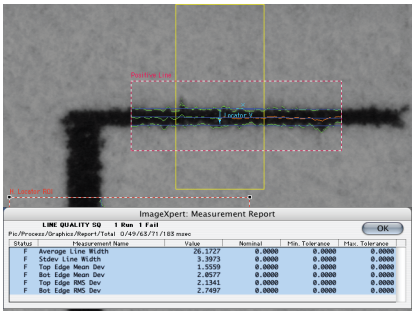
ImageXpert Interface



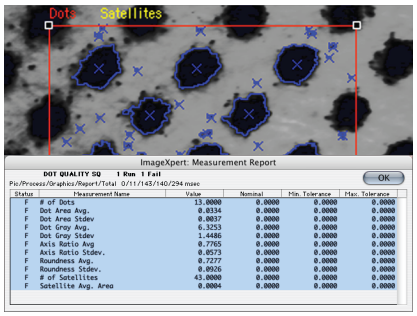
Dot Alignment and Position



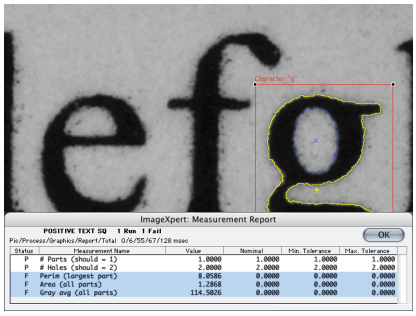
Missing Jets



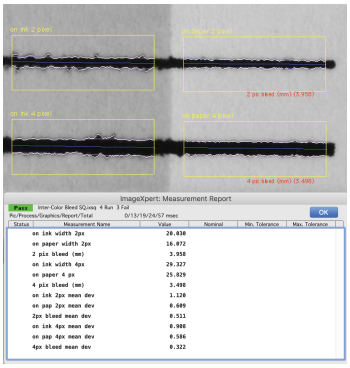
Line / Edge



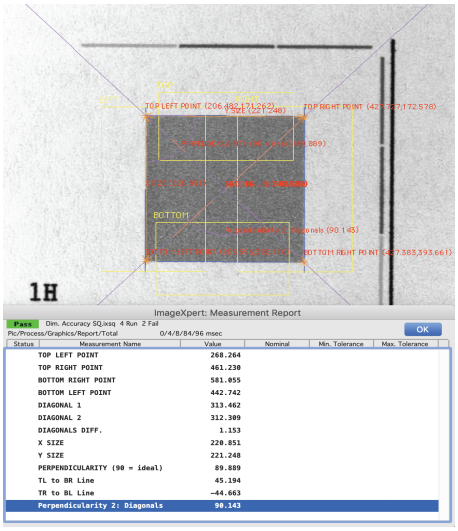
Dot Quality



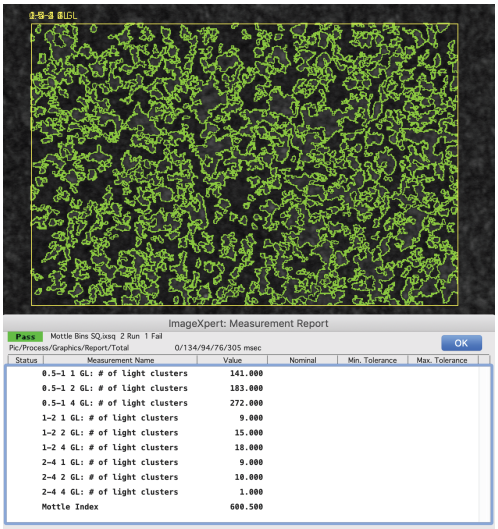
Text Quality



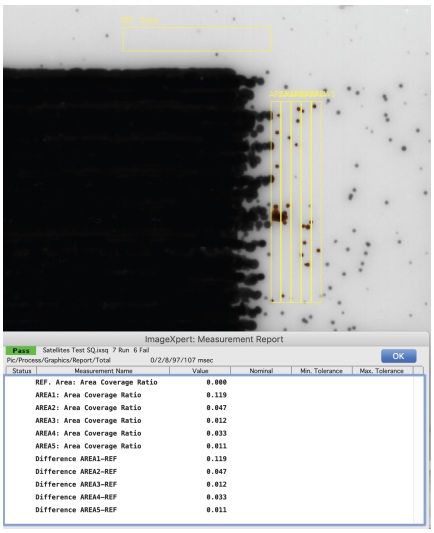
Inter-Color Bleed



Dimensional Accuracy



Mottle / Uniformity



Overspray

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ImageXpert image analysis software was designed for both interactive and automated use. Multiple hardware configurations are available depending on the requirements of the application.

For large field analysis, ImageXpert provides an integrated industrial flat-bed scanner, with reflective or transmissive mode.

One or more cameras can be added to a scanner-based system or standalone system for higher magnification imaging.

For a higher level of automation and throughput, upgrade to a full motion system with camera(s), laser for topographical measurements, spectrophotometer for color and density measurement, or a glossmeter.

You can also use the ImageXpert software to analyze images that have been captured using other imaging devices. Just open the image from inside the software and perform the analysis.

ImageXpert is the complete machine software suite at the core of all these solutions, providing direct control of motion stages, a wide range of powerful measurement algorithms, and custom scripting/automation capabilities.

We also excel at providing complete customized solutions for the most difficult machine vision challenges - both for R&D and QA. Contact us to learn more!

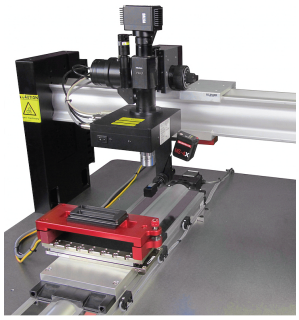
All of our systems use the same software
The choice is yours



Industrial Scanner:
A compact, easy-to-use tool for print quality analysis of large flat samples.



Manual Motion:
An overhead camera with manual stage for repeatable sample positioning.



Specific Applications:
World class solutions to difficult machine vision challenges.



Full Motion:
An overhead camera with automated sample positioning and our widest range of analysis capabilities