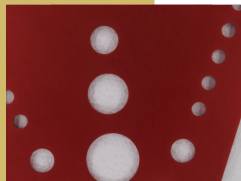


*imageXpert*<sup>®</sup>

## ImageXpert Dome

Stand Alone Audit Station

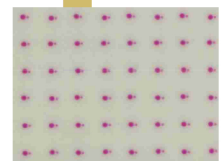
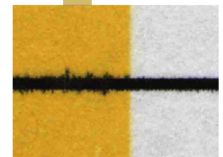
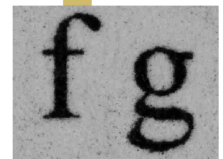
The ImageXpert Dome enables rapid characterization of print quality and customizable measurement of key feature attributes. It provides excellent lighting over a large field of view without sacrificing resolution.



### FEATURES AND BENEFITS

ImageXpert's Dome System Includes:

- Fully integrated high resolution overhead camera
- Dome lighting system, providing ideal illumination for a variety of applications, including print quality analysis and part inspection
- Workstation complete with ImageXpert software, including detailed characterization of text, dot, and line quality, inter-color bleed, color registration, OCR/Barcode, and many other easily customizable measurements
- Dedicated screen for image preview and target positioning



## Applications include:

- Accurate measurement of part attributes and dimensions
- Comprehensive analysis of print quality
- Defect detection for quality assurance
- Target ID and position/orientation using OCR and fiducials

## Lighting and Optics

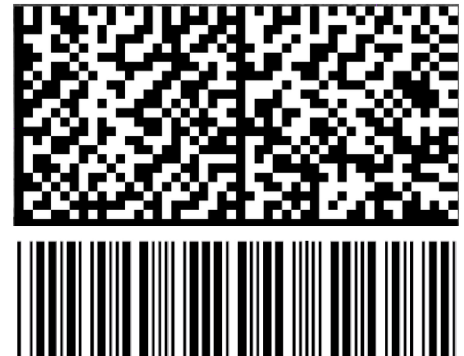
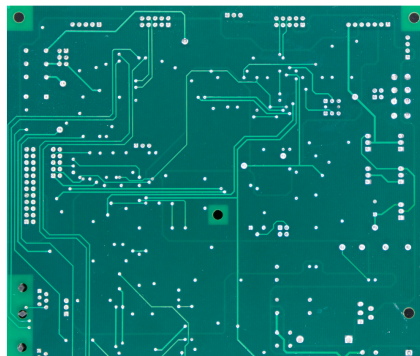
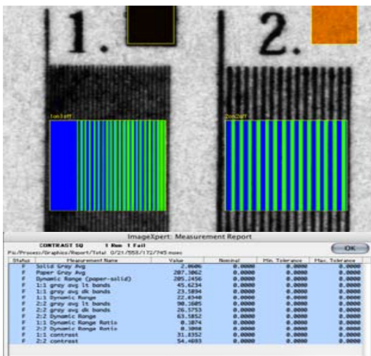
The secret to great machine vision is great lighting and optics. The ImageXpert dome is a complete out-of-the-box solution providing excellent lighting and optics, with very low distortion. A 24 megapixel camera with 3X zoom captures a field of view as large as 11", or a pixel size as small as 15.5um. Despite all this, the system is more affordable than less capable systems.

## ImageXpert Software

At the core of all ImageXpert systems is a powerful image analysis software package designed specifically for part inspection and print 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.

## System Components

Lighting	Dome with LED array provides ideal, diffuse lighting over an 8.5"x11" FOV. Color LED options are available.
Camera	24 megapixel (6k x 4k) color camera with video capability
Lens	3x optical zoom with autofocus, allowing field of view as large as 8.5"X11" or as small as 2.8"X3.7" with resolution between 46.6um and 15.5um per pixel, respectively.
Calibration	NIST traceable calibration target with matching automated calibration sequences
Workstation	iMac workstation pre-loaded with ImageXpert software including a complete suite of machine vision tools
Monitor	Color flatscreen monitor mounted directly on dome, displays live camera view to aid sample positioning



Learn more at [imagexpert.com](http://imagexpert.com)

ImageXpert Dome

**imageXpert**

[www.imagexpert.com](http://www.imagexpert.com)  
 Email: [info@imagexpert.com](mailto:info@imagexpert.com)  
 Tel: 603-598-2500  
 Fax: 603-598-2687