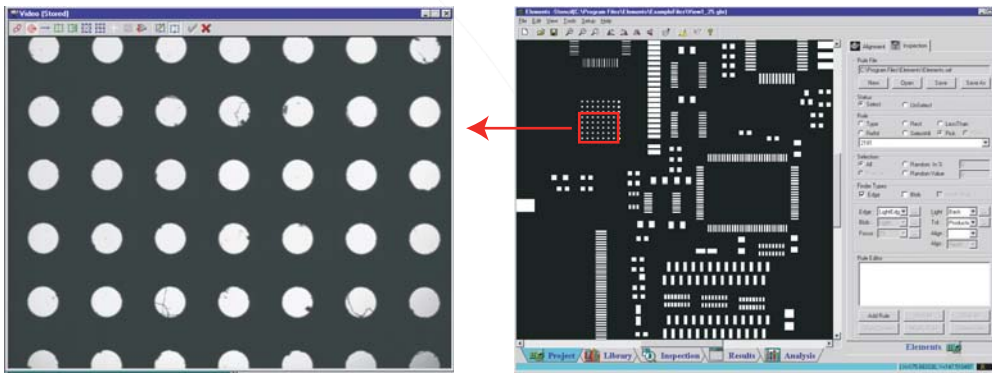


Summit is a stand-alone vision-based measurement system for fast, precision measurement of stencils, screens, PCBs, solder paste, component placement machine accuracy, and electronic component packages. Elements™ Stencil/Screen Measurement Software for Summit eliminates programming by providing CAD-driven measurement of stencil features. The software accommodates shrinkage and provides both a tabular and graphical summary of results suitable for ISO 9000 certification.



**CAD-driven
measurement
of stencil
features
eliminates
programming!**

Stencil Measurement System

Capabilities:

- **NIST-traceable** measurement for both newly manufactured and used stencils. Measure any laser-cut, etched, or formed metal or plastic stencil.
- **Point-and-click measurement** - import the CAD file, select tolerances and begin measuring a stencil in less than 5 minutes.
- Measure shrinkage and aperture blockage, length, width, area, and position.
- Size measurement accuracy is better than 2 microns (0.08 mils).
- True position measurement accuracy is $2.5 + L/200$ microns, where L = measuring length in mm.
- Measure apertures as small as 36 microns (1.4 mils) in diameter.
- Measure stencils as large as 762 mm x 812 mm (30" x 32") in size.
- Measure 15,000 apertures in less than 30 minutes.
- Measure 100% of features; or define a subset based on position, size, component, or randomized sampling.
- Import data from Gerber and DXF files.
- Accommodate rotated or upside-down (from CAD data) stencils.

Coming Soon...

- Measure stencil thickness, warpage, sag and wall taper.
- Automatically accommodate shrinkage.



Summit™ Stencil Measurement System

combines very high quality optics, lighting, image processing, and high-velocity/acceleration stage motion to address production tolerances in the micron range and measurement times compatible with stencil fabrication rates.



A Division of Quality
Vision International

Elements Software Modules*

Elements software modules are available to enable to enable a single View Engineering system to provide CAD-driven measurement of a variety of electronic assembly manufacturing steps including:

Stencils/Screens

- Hole location and size
- Blockage
- Missing holes
- Stencil thickness

PCBs

- Drilled holes and vias
- Pad location and size
- Layer registration

Solder Paste/Glue Dot

- Registration and size
- Height and volume

Component Placement

- Slugs on glass (IPC-9850)
- Components on glass
- Components on board
- Missing components

Components

- QFP
- BGA
- SOIC
- Flip chip
- MCM

Import your CAD files...
No programming required!

*Send us your parts along with their CAD files for a **FREE** capability analysis.

View has been providing precision measurement systems and solutions for process control on the shop floor for more than 25 years.

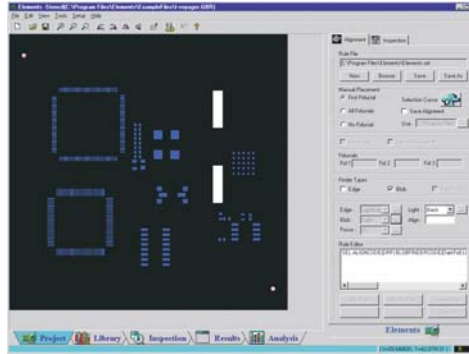
Elements

Stencil Measurement Software for Summit

This software module allows manufacturers or end users to measure stencil features automatically by comparing them with CAD-based data.

The process is simple and accurate. No programming required.

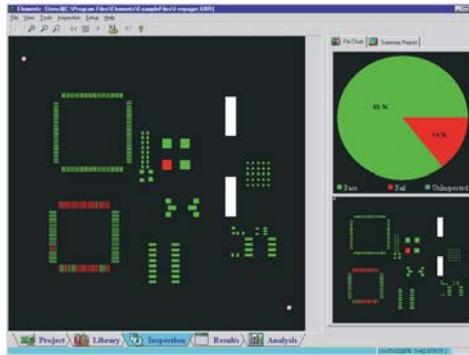
STEP 1: Import the CAD File (only 2 mouse clicks).



Import

- Gerber files
- DXF files

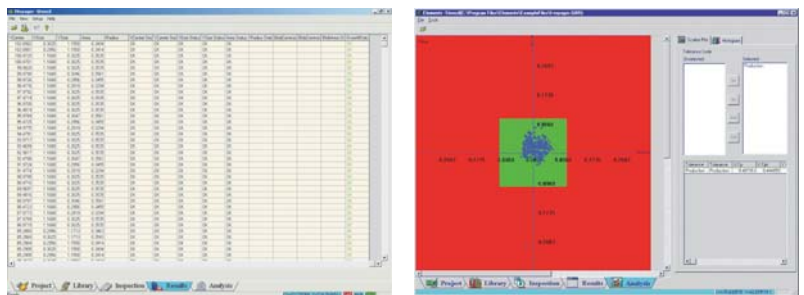
STEP 2: Start measuring!



Measure

- All features
- Random features
- Specific stencil areas
- Specific aperture sizes

STEP 3: Review the automatically generated results summary & graphic analysis.



Improve your manufacturing process using this quantitative information!

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Improve yields.
Reduce costs.
Stay competitive.



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