



# ScanPLACE™

## "Offline Programming, Measurement & Inspection"

### Innovative Alternatives

ScanPLACE provides a sophisticated and user-friendly alternative to complex CAM software packages and inaccurate and time-consuming manual inspection and programming methods that cost assembly houses productivity, time and money.

Designed to increase PCB assembly productivity, ScanPLACE is a fully integrated, off-line programming, inspection and measurement workstation.

### Programming

Using a calibrated, high-resolution, color imaging system, ScanPLACE produces assembly programs and process documentation for Surface Mount, Insertion, Test, Inspection and Dispensing machines.

### Import / Scan

- CAD, Components, Boards, Film, Stencils, BOM and Gerber Data.

### Output

- Component Pitch, Rotation and body dimensions
- X/Y Component Centroid
- Reference Designator & Package ID
- Part, Feeder/Magazine Number
- User Defined Data
- Gerber Data
- Process Documentation
- Multiple machine specific CAD files (IMC, SMT, TEST, AOI) and Stencil file generation during one programming session.
- Component Information for Vision Databases

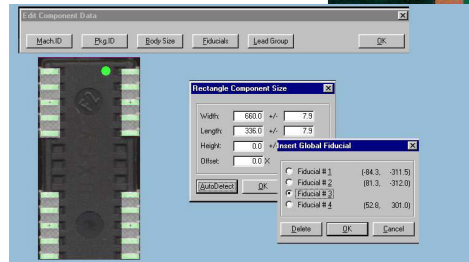
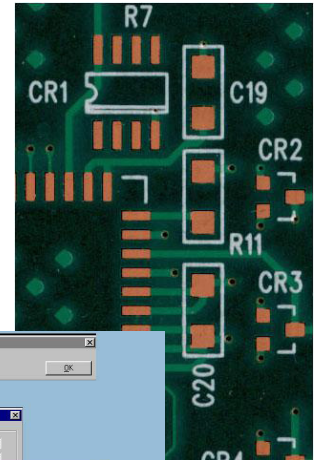
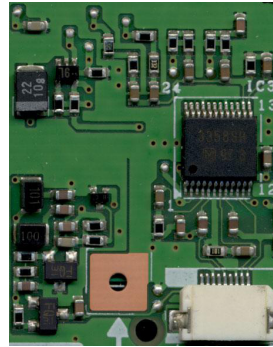
### In-bound Board & Stencil Inspection

ScanPLACE increases production efficiency by using off-line comparison of actual PCBs and Stencils against Gerber files and/or a "golden board." Pre-production check verifies revisions against each other before the first production run. Eliminate surprises.

### Build Component Libraries

Scan a component to automatically calculate and register the following information:

- Lead Pitch, Lead Size, Body Size
- Lead Groups, Pick Up Location, etc.
- Specific Vision Data outputs for Fuji SMD3 and Siemens SIPLACE
- Generic Vision ASCII files for other suppliers



### Offline Inspection & Measurement

ScanPLACE uses a combination of editing functions to ensure that all information has been inserted correctly. This off-line verification significantly reduces first article setup time. Overlay CAD and/or Gerber data and compare:

- Loaded Boards
- Bare Boards
- Stencils
- Components
- Wet Glue / Solder Paste/ Epoxy

### First Article Inspection

ScanPLACE increases productivity with the ability to scan the first article and compare it to the Centroid data.

### Why use ScanPLACE?

#### Flexible

Use one workstation to produce assembly files for multi-vendor Surface Mount, Insertion, Test, Inspection and Dispensing machines

#### Powerful

Use one workstation to inspect stencils, screens and bare or loaded boards

#### Fast

Decrease programming time from days to hours

#### Easy

Windows-based system

## SYSTEM FEATURES

### Input Data

- PC Boards- Bare/Loaded
- Components
- Stencils/Screens
- Gerber
- ASCII CAD
- BOM
- Films
- Drawings
- Paper

### Output Data

- Stencil files
- Drill files
- BMP, TIFF images
- DXF

### Available Machine Output Formats

Amistar	Fuji	Sanyo
Asymtek	Juki	Siemens
CAM/A LOT	KME	Sony
Contact Systems	MVT	TDK
CR Technology	Dynapert	Mydata
Creative Automation	Universal	Tenryu
Quad	Europlacer	Royonics
Panasonic/Panasert	VI Technology	Four-PI (HP)
Yamaha	Zevatech	
Philips / Assembléon		

### Other Output Formats

FabMaster	GraphiCode	Unicam
Gerber 274x	LPKF	Unicraft
GenCAD	Mitron	

### Automatic Functions

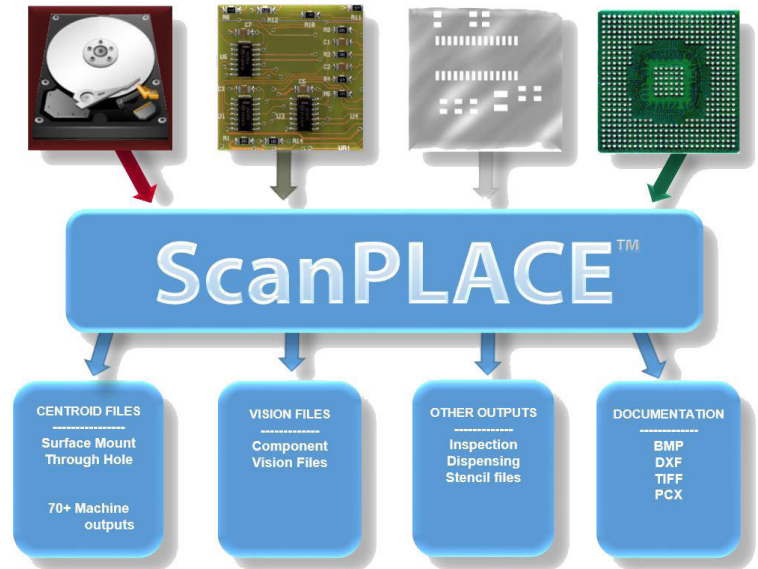
- Surface Mount Pad Recognition
- Insertion Hole Recognition
- Automatic Text Function
- Auto Load Gerber

### Placement

- Autofind Function Locates Components and Related Centroids
- Global / Circuit / Local Fiducials
- Automatic Generation of Adhesive Dot Centroids
- Component Database
- Editor Accuracy: 0.0001" (0.00254mm)

### Check / Verification

- "Jump-To" Component or Reference Designator
- Programming Environment Editor
- Assembly File Editor
- Gerber Editor
- Scan and Compare Multiple Board Revisions



## Technical specifications

### Scanner

- High-Resolution Color Flatbed Scanner, Size A3: (400/1000/1600/2000/2400/3200/4000/4800 dpi)
- Calibrated Accuracy:  $\pm 0.0010''$  ( $\pm 0.0254\text{mm}$ )
- A3-Scanning Area: 11.7" x 16.5" (297mm x 419mm)
- Unlimited Work Area

### Computer\*

- Multi Core Processor - 3 GHz
- 1 TB 7200 RPM HDD, 16 GB RAM (Additional 256GB SSD recommended for higher performance)
- FHD (1920x1080) Flat Panel Monitor
- Ethernet Connection
- Windows 10 - 64-Bit
- 2 available USB2 or USB3 ports

### Additional System Components

- Precision Glass Calibration Grid (NIST Certified)
- Scanner Interface Cable
- Software Protection Key
- Scanning Accessory Package
- Custom Desk (Optional)
- Custom Transmissive Lighting Package (Optional)
- Extra Seat - Software only (Optional)
- Service and Support Contracts (Optional)

The following are trademarks of the indicated companies: Gerber, Ucamco; Excellon, Excellon Automation; Sieb & Meyer, Sieb & Meyer GmbH; Windows 10, Microsoft®; ScanFAB ND™ is a trademark of ScanCAD Intl. Inc. (All specifications and designs subject to change without notice.)

Rev. 19100220