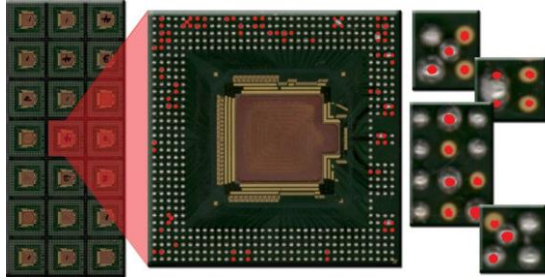


ScanINSPECT BGA™

BGA Ball Inspection System



What is ScanINSPECT BGA?

ScanINSPECT BGA provides a fast, simple and user-friendly alternative to inaccurate and time-consuming manual inspection methods or expensive, yet slow, measurement systems.

ScanINSPECT BGA uses an intuitive process flow interface integrated with a high resolution, color, 2-D image-processing unit. This combination allows 100% inspection of ball placement on BGAs, in or out of trays (JDEC, etc.). This desktop offline system can be used for either pre or post reflow ball inspection.

How does ScanINSPECT BGA work?

ScanINSPECT BGA provides ball inspection for the following:

- Presence/Absence
- Size
- Position
- Extra Balls
- Surface Quality

A tray containing the BGAs is placed onto the system for 100% inspection. The balls are inspected and any errors are displayed on the screen for easy verification. No more surprises!

The backside of the BGAs can be scanned and overlaid/aligned to the front side to record serial number information. A variety of data is collected and reported for each inspection including Lot Number, Operator Name, Date/Timestamp and related comments along with any error information. Bar code reader compatible.

Fast and Simple Programming

ScanINSPECT BGA is quickly programmed from a golden part in a few minutes. Corrections to the golden part can be quickly and easily made, if necessary.

Increase Yield & Improve Overall Productivity

ScanINSPECT BGA's powerful 100% inspection process increases product yield by ensuring accurate ball placement. Missing, Misplaced Damaged or Extra balls can result in reduced yield, lost production time and expensive rework.

Problems are identified and eliminated **before** substrates or devices are reflowed, permitting quick and easy rework. The same system is also able to perform a final inspection after reflow. In production, each device or tray is placed on the table, shuttled in, automatically aligned and checked for accuracy with a PASS or FAIL inspection in seconds.

Why use ScanINSPECT BGA?

- **Mandatory:** 100% automatic 2-D inspections of ball placement, pre and/or post reflow.
- **Security:** Confirm ball absence/presence, position, size and surface quality.
- **Traceability:** Full inspection traceability of every ball down to the device serial & lot number level.
- **Necessity:** Detect errors *before* reflow permitting easy rework.



Desktop Module

System Specifications*

- Maximum Tray Size: 18" X 24" (457mm X 610mm)
- Maximum Inspection Area: 11.7" X 16.5" (297mm X 419mm)
- Ball Diameter Range: 0.050 mm to 6 mm
- Image Resolution: Range from 200 to 2400 dpi

Footprint of Inspection Unit

- Depth: 31.5" (800mm), table extended 49.5" (1,257mm)
- Width: 27.25" (692mm)
- Height: 19" (482mm)
- Weight: 150lbs. (55.95kg)

Computer*

- Multi Core Processor - 3 GHz
 - 1 TB 7200 RPM HD, 8 - 16 GB RAM
 - Flat Panel Monitor
 - Ethernet Connection
 - Windows 10 64-Bit w/ 2 available. USB2 or USB3 ports
- *Recommended customer supplied minimum PC requirements.

(All specifications and designs subject to change without notice.)

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