DJK Europe GmbH

x-eye 5100/ 3100 Series
High Performance X-ray Inspection Sistem

Major Features:

- 100kV Micro-Focus Closed-tube (5µm Focal Spot Size)
- Flat Panel X-ray Detector Equipped
- Max. 4-axis manipulator configuration (X, Y, Z, Tilt)
- Auto Teaching (CNC Programming)
- Various Measuring Tool & Auto BGA Inspection Module

The Ultimate Solution for X-ray Inspecton

X-eye 5100/3100 Series are high-performance X-ray Inspection systems for general non- destructive testing and failure analysis. With 100kV micro-focus closed tube & High Resolution Flat panel Detector equipped, X-eye 5100/3100 Series provide high quality X-ray image at high magnification.

With programmable multi-axis control, X-eye 5100/3100 Series can inspect the object at any magnification with the ease of use. With Auto Teaching (CNC programming), the system can be used as a semi-automatic inspection system.

X-eye 5100/3100 Series come with user-friendly operating environment. Various measuring and annotation tools are Included.

Application

- **SMT Assemblies Inspection**
    - BGA Void, Open, Missing, Bridging
    - General Solder Joint Inspection

- **Semiconductor**
    - Wipe Bonding inspection, Epoxy Voids
    - LED

- **Electronic Components**
    - Connector, camera Module
    - Internal Structure, Hidden Component

- **Storage Battery Inspection**

- **Plastic Components**

Major Specification

Model	X-eye 5100	X-eye 3100
X-ray Tube	100kV Micro-Focus Closed Tube (5µm Focal Spot size)	
X-ray Detector	Flat Panel X-ray Detector	
Table size	460mm x 340mm	350mm x 270mm
Axis Control	X, Y, Z, T 4-axis	X, Y, Z, T 3-axis (T axis - Option)
Dimension	1,300(W) x 1,000(D) x 1,500(H)mm	900(W) x 1,000(D) x 1,500(H)mm
Power	220 V Single Phase 50/60Hz	
X-ray Safety	Leakage Dose less than 1µSv/hr	

Software Features

User-friendly Interface
  - Intuitive, flexible, workspace

Easy-to-use mouse manipulation and navigation
  - "Click & Center" on X-ray image

Auto-teaching Function
  - Inspection point CNC Programming
  - Grid-teaching
  - One-click OK/NG determination with image save
  - Result Mapping
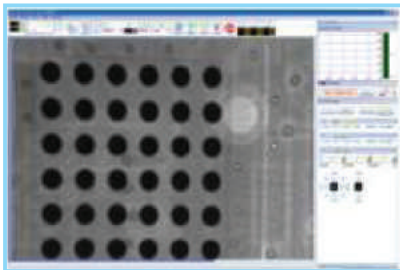 - Auto Scanning (One-click multiple acquisition)

Image Processing
  - Averaging, Contrast/Brighness, Inverse
  - Histogram Adjustment
  - Image Filtering: Sharpening, Enhanced Focus
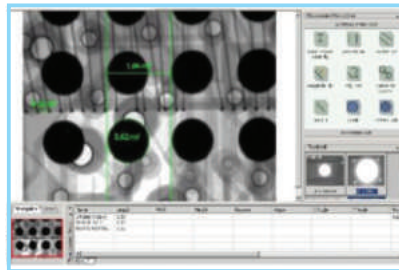
Various measurement & Annotation Tool
  - Measuring: Line, Point to Point, Center to Center
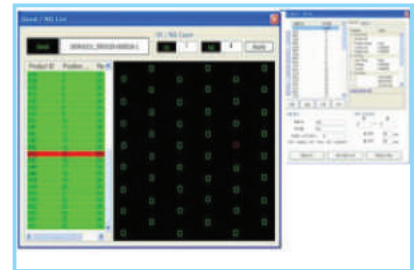 - Annotation & Reporting

Auto BGA Inspection Module (Option)
  - Auto calculation of BGA diameter, Void Percentage
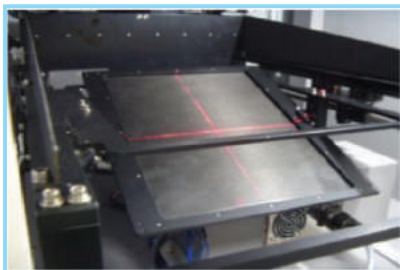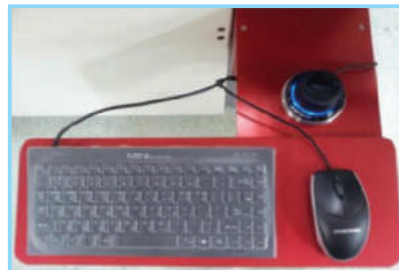 - Auto Pass/Fail determination

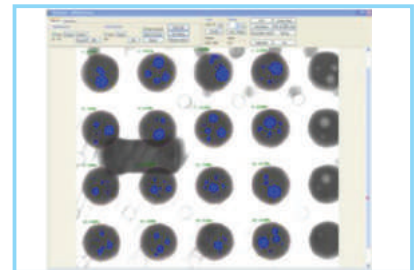**User Interface**

Messuring & Annotation

Auto Teaching & Result Mapping

Manipulator

Jong-stick Control (Option)

Auto BGA Inspection Module (Option)

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