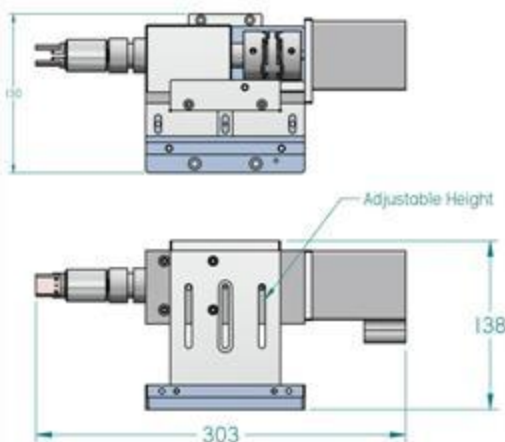
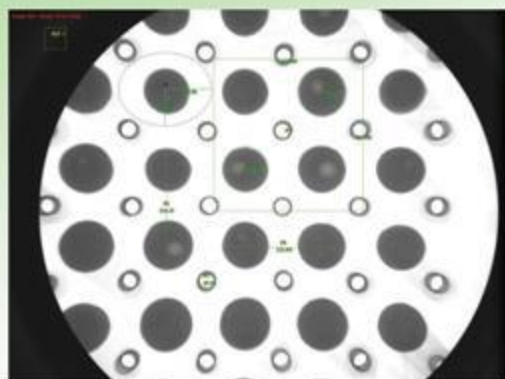
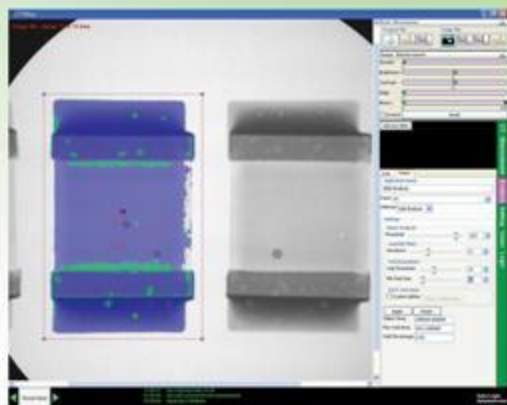


# InoD Solution

## All In One X-Ray Computed Tomography Kit

An intelligent X-Ray Computed Tomography Solution for non-destructive component analysis with patented automatic central ray determination without calibration unit and, internally self-developed reconstruction and visualisation technology together with X-Ray image processing features, such as analysis, image enhancement, and measurement tools.

一体化智能型X射线计算机断层扫描成像解决方案，特别适合于无损检测。拥有独家专利的旋转中轴自动判定技术，实现了无需校准设备的全自动断层三维重建和可视化功能，同时提供基于X射线的图像处理模块，诸如图像分析、图像增强、测量工具等。



## Software Features

### CT Scanning

- Single click for automatic scanning
- Integration feature during scanning for image enhancement
- Incremental angle selection of 0.25°, 0.5°, 1° or 2° scan for 360° projection view allows a choice of speed vs resolution

### CT Reconstruction

- Reconstruction matrix up to 4096 x 4096 pixels
- Region of interest reconstruction for faster access to results
- Axial, Sagittal and Coronal views with indication of the reconstructed volume
- Output compatible with industry standard tools such as Volume Graphics (VG)

### CT Visualisation

- Image enhancement tools
- Video output for all views
- Image file format : TIFF, BMP, JPEG, RAW

### Pre-Processing

- Smoothing
- Brightness
- Contrast
- Binarisation
- Edge

### Analysis

- Component Void
- BGA Void
- Drill Offset

### Measurement

- Line to Line
- Rectangle
- Circle
- Ellipse
- Angle

### Performance Data

#### Scan

Processor	Processing Time
Quad Core 2.4GHz with 4GB RAM	5 mins

#### Reconstruct

Based on 512<sup>3</sup> voxel reconstructed volume

Processor	Processing Time
Quad Core 2.4GHz with 4GB RAM	15 mins
Pentium 4HT 3.4GHz with 2GB RAM	22 mins
Centrino 2.0GHz with 2GB RAM	28 mins

### CT 扫描

- 一键通自动扫描
- 基于多次扫描集成的图像增强功能
- 360度全投影，可自定义角度增量（0.25度、0.5度、1度或2度）满足扫描速度与分辨率不同的组合需求

### CT 三维重建

- 最高支持 4096 X 4096 像素的重建矩阵
- 通过局部重建功能可快速得到结果
- 可显示三维重建立体物的轴向投影面，弧矢剖面 and 子午剖面
- 符合工业标准的输出，如VG格式

### CT 可视化

- 图像增强工具
- 投影面和各剖面可用视频输出
- 图像格式：TIFF、BMP、JPEG、RAW

### 图像预处理

- 图像平滑
- 图像亮度调整
- 图像对比度调整
- 图像二值化
- 图像边缘检测

### 图像分析

- 器件内部空隙
- BGA空隙
- 钻孔位移测定

### 测量

- 线到线距离
- 长方形
- 圆
- 椭圆
- 角度

### 性能数据

#### 扫描

处理器	处理时间
Quad Core 2.4GHz和4GB 内存	5分钟

#### 三维重建

基于512<sup>3</sup>个重建单元

处理器	处理时间
Quad Core 2.4GHz和4GB 内存	15分钟
Pentium 4HT 3.4GHz和2GB内存	22分钟
Centrino 2.0GHz和2GB内存	28分钟

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