

# 3D RADIOGRAPHY TOMOGRAPH

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MANUFACTURER : Xradia

MODEL : XCT-200

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## Analysis

- Resolution:
  - < 0.6 um resolution: 0.5 micron feature recognition
- X-ray source: Up to 150keV
- Field of View: 0.65mm x 0.65mm to 60mm x 60mm
- The field of view can be increased in mosaic mode by scanning the sample and stitching single frames into a large image. The field of view in mosaic is limited by the computer system
- 3D Tomographic volume: Cube with same dimension as 2D field of view
- 2D exposure time: <1 second to 1 minute depending on sample contrast
- 3D dataset collection time: 5 minutes to a few hours depending on sample contrast

## Applications

- Give the ability to view inside your sample to see critical internal metallic structure, features and defects. Like a CAT-scan (computer aided tomography) at the micron scale, tridimensional image can be generated and manipulated to isolate defects.

## Characteristics

- Reconstruction engine: When data acquisition is completed, 3D reconstructed volume will be available for analysis in minutes.
- High contrast, ultrahigh resolution, 40x detector
- 4-axis tomography motorized precision sample stage with 360 ° capability
- Maximum sample size 100mm, maximum weight 1 kg

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## Example

3D reconstitution produced by the tomograph, showing a wrong weld seam (microchip on organic substrate)

