Harvard ZEISS Xradia 520 Versa



Carl Zeiss X-ray Microscopy, Inc. Prepared by Masako Terada September, 2016

Executive Summary

Sample Name	Demo Objectives	Results
Cryptocellus (MCZ 124839) 3 x 10 x 6 mm	To image external and internal anatomy To image • leg 3 • Head • Abdomen	Imaged the intact sample with 19, 7, 4.3, 1.5 and 1 μ m/vox resolutions at different ROIs. Results show clear images of features of the sample.

ZEISS Xradia 520 Versa 3D X-ray Microscope

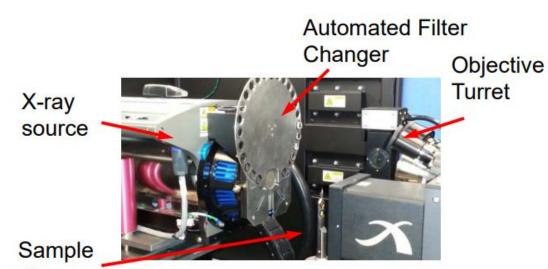


- Ideal solution for environmental analysis and in situ experiments
- Highly flexible imaging system
- High resolution imaging for relatively large samples

Xradia 520 Versa

Highlights:

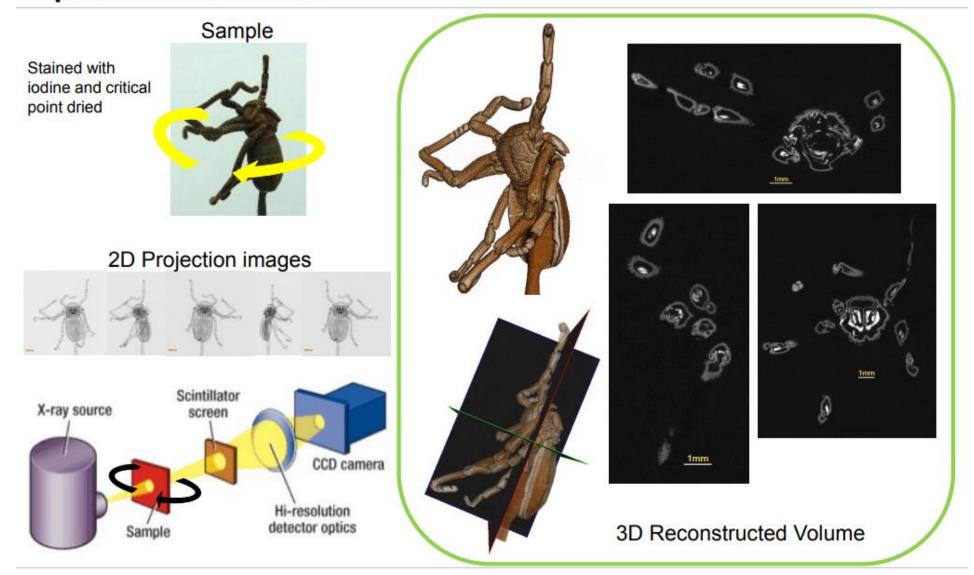
- Highest resolution
 Across sample sizes
- High image contrast
 Low to high Z materials
- Versatility
 Highest res for in situ
 Short or long scans



stage

3D X-ray Tomography 2D Projection images are collected and backprojected to produce 3D volume



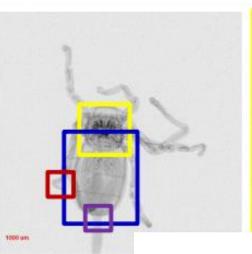


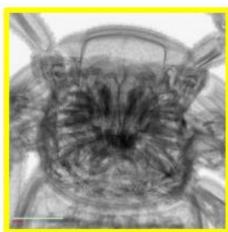
Harvard ZEISS Xradia 520 Versa Cryptocellus Scan Setup



Scan	Voxel size (µm)	FOV (mm)	Energy/Power (kV/w)	Total scan time (hrs)
Head	4.3	4.3 x 4.3	50/4	1.25







Cryptocellus Head 4.3 μm/vox Scan



