



Rigaku Virtual Workshop Series

X-ray Computed Tomography

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INSTRUMENT PROFILE

Rigaku CT Lab HX is a benchtop X-ray micro-CT scanner with the most powerful X-ray source in its class with a wide range of FOV and resolution.

SPECIFICATIONS

- 130 kV - 39 W high-power X-ray source
- Large field of view (max. 200 mm diameter)
- High-resolution (max. 2.2 μm voxel size)
- High-speed (max. 18 seconds/scan)

QUICK REFERENCE

Micro-CT Data Collection-2

IMAGING ORGANIC MATERIALS

For unstained organic samples, use low energy X-rays to improve X-ray contrast. For example, start with an X-ray energy range of 60 - 90 kV and remove any filters between the X-ray source and your sample.

X-RAY FOCUS SIZE

Choose an X-ray focus size comparable to the features you want to observe. For example, a small focus size is best when imaging organic materials with small features.

SAMPLE MOUNT

Use a sample mount material that has lower X-ray absorption than your sample. For organics and lightweight samples, Styrofoam and plastics are good mount materials.

TIME-RESOLVED CT MEASUREMENTS

When performing time-resolved CT measurements, CT scans should be faster than the rate of the change you are trying to observe.