

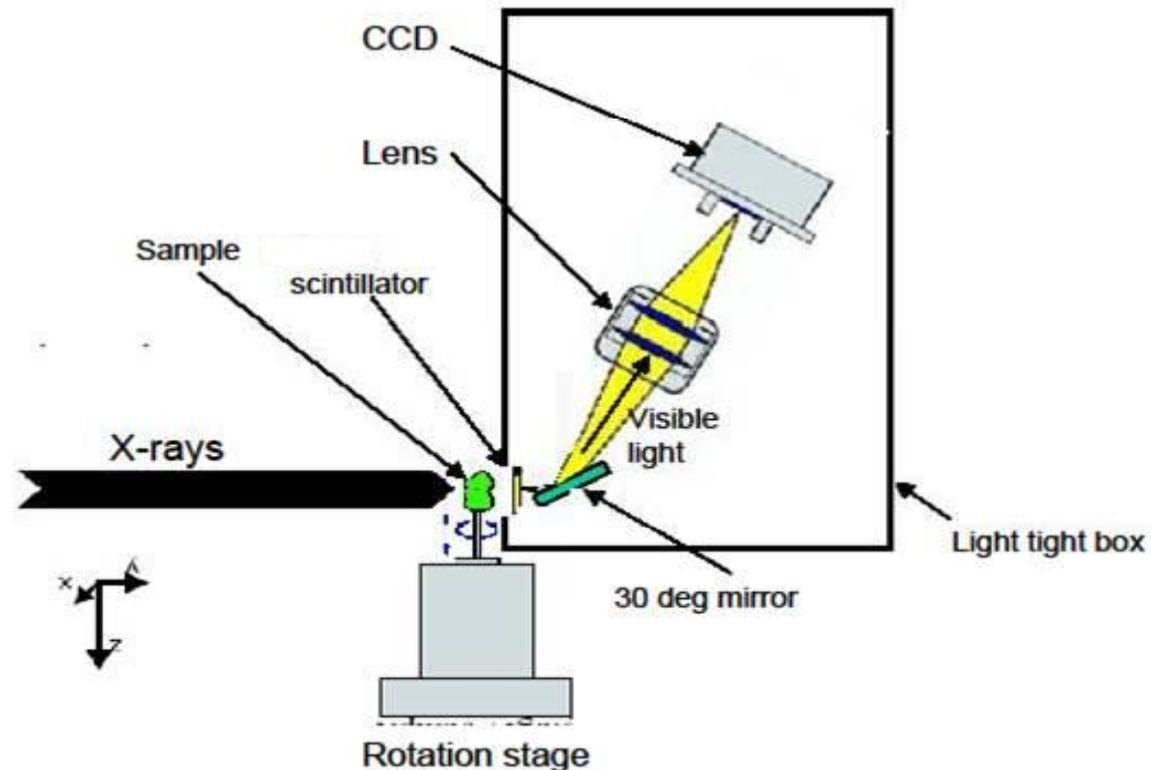
X-Ray Microtomography

X2B

Purpose: images internal structures in 3D
→ much like clinical x-ray CT but with both absorption and phase contrasts, and with $\sim 1 \mu\text{m}$ resolution.

Energy range: 6.5-35 keV

Absorption tomographic scanner consisting of: radiation hutch with white beam and monochromatic beam capability



X-ray imager with CsI scintillator optically coupled to 16-bit 1340 x 1300 CCD sensor. Microscope objectives (2.5x, 5x, 10x, 20x) give a pixel pitch of 20 microns/x. A 2.5x projector is available where higher depth of focus is required. Automated control for monochromator and tomographic scanning. A second 12-bit CCD camera is fitted for high-speed acquisition in conjunction with multilayer or foil optics.