



better analysis counts



DCC X-Beam

Series:

DCC X-BEAM

USD Price:

Contact XOS

DCC X-Beam for Monochromatic Excitation

DCC X-Beam™ is an X-ray excitation system that generates a focused, monochromatic X-ray beam by integrating a source and an innovative doubly-curved crystal (DCC) optic. This turn-key solution integrates a high-quality X-ray beam using a low-power source delivering breakthrough performance in the most demanding analytical instruments.

Its compact size and beam intensity stability enables seamless retrofitting with customer instruments.

Extremely high flux density

Orders of magnitude flux gain from micron-sized spot

- Integration with compact, low-power sources provides flux equivalent to rotating anode sources
- Broad spectral bandwidth: 50 eV- 50 KeV
- Point-to-point focusing beam
- Point-to-parallel beam
- Custom designed enclosure available

Enhanced spatial resolution for focusing X-ray beams

Extremely high flux density

- Increased spatial resolution
- Ideal for analysis of irregular shaped, unprepared, or low-Z samples

Integrated air-cooled system

- Enhanced detection sensitivity
- No special sample preparation needed

- Operation in air

Integrated shutter module meets PTB regulations

Evaluation of small features

- Elemental mapping
- Film/plating thickness
- Detection of micro-contamination
- Multi-layered coatings for advanced circuit boards
- Small particle analysis
- Forensics
- Powder XRD
- Single crystal XRD

PCS50 controller available for end-users (optional feature)