



Crystallography range

Choose your...

X-ray source

Detector

Cooling device

Small molecule and protein combined



Ideal for both *protein* and *small molecule* :

Gemini R Ultra

- Co-mounted Enhance (Mo) and...
- High brilliance Enhance Ultra (Cu) X-ray source
- 135 mm Ruby CCD

new

*First combined
small molecule
and protein system*

upgradeable to

Protein



Ideal for high brilliance
protein crystallography:

Xcalibur PX Ultra

- Enhance Ultra (Cu) X-ray source
- 165 mm Onyx CCD

Typical system combinations and upgrade paths

Small molecule



Ideal for maximum experimental flexibility :

Gemini R

- Mo and Cu co-mounted Enhance X-ray source
- 135 mm Ruby CCD

upgradeable to



Ideal for high resolution, high sensitivity data:

Xcalibur S

- Enhance X-ray source (Mo or Cu)
- Sapphire CCD

upgradeable to



Ideal as a work horse X-ray system:

Xcalibur O

- Enhance X-ray source (Mo or Cu)
- Opal CCD

*Only a small number of combinations are shown.
You can always change the detector and/or add
a second source.*

Choose the **detector** by size,
sensitivity and end application



Onyx

- Ø 165 mm active area
- 2k x 2k Kodak CCD chip
- Superb for protein crystallography

Choose between a single and
double **X-ray source**, wavelength
and intensity



Enhance Ultra

- High intensity Cu radiation
- 300 micron beam
- Intensity of a 5 kW rotating anode with the best optics
- Sealed tube X-ray source with multi-layer optics
- Virtually **no** maintenance **nor** downtime



Ruby

- Ø 135 mm active area
- 2k x 2k Kodak CCD chip
- Best trade off between large area and sensitivity



Sapphire

- 92 mm diagonal active area
- 2k x 2k Kodak CCD chip
- Most sensitive detector
- Ideal for electron density, small molecule research



Opal

- 92 mm diagonal active area
- 1k x 1k Kodak CCD chip
- Ideal for standard small molecule applications



Point detector

- Photon counting
- Ideal for high pressure experiments

Patented CCD design



Enhance

- Mo or Cu radiation
- 2.5 to 3 times greater intensity than traditional sealed tube sources
- 0.3, 0.5, 0.8 and 1.0 mm collimators available



Enhance (Cu) and Enhance (Mo)

- Mo and Cu co-mounted Enhance X-ray sources
- Wavelength change at the flick of a switch

Building your ideal X-ray system is as easy as 1, 2, 3

Combine these with our
kappa goniometer to provide a
complete turn-key X-ray system

3

new

*Ideal for small molecule
and proteins*



**Enhance (Mo) and
Enhance Ultra**

- Co-mounted high intensity Enhance Ultra (Cu) and Enhance (Mo) X-ray sources
- Wavelength change at the flick of a switch



Goniometer

- 4-circle kappa
- Universal platform – supports all Oxford Diffraction sources and detectors
- Flexible upgrade routes

Full System

- Goniometer
- Detector
- X-ray source
- Full safety cabinet
- PC + 21" LCD monitor
- CrysAlis (data collection and processing software package)
- CCD water chiller
- X-ray tube water chiller



Patented X-ray design

Optional extras

- Helijet – open flow helium blower
- Cryojet XL / HT – open flow nitrogen blower
- Liquid nitrogen auto-fill option



*Cryojet XL/HT mounted
on a diffractometer*

Service and support

Oxford Diffraction's reputation for service and support is second to none in the X-ray diffraction market, providing a timely and positive response to customer needs.

Professional and highly skilled, our team provide worldwide service and support to the crystallographic community.





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